# RAUPENKRAN · CRAWLER CRANE

Liebherr LR 1800-1.0

Schmidbauer

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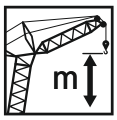
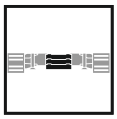



202 m

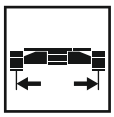
152 m

230 t



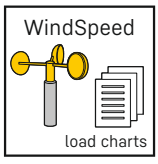
130 t

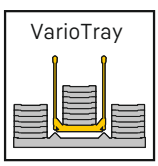
400 t

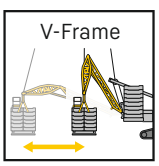


9 m

455 kW (619 PS)





# Ausstattung

| | |
|---|---|
| **Max. Tragkraft** | **800 t bei 9 m Ausladung.<br>H2DBV – System mit H2 57 m und D 33 m.** |
| **Max. Lastmoment** | **11.182 tm – 621,2 t bei 18 m Ausladung.<br>HSDBV – System mit HS 36 m und D 33 m.** |

## Raupenfahrwerk

| | |
|---|---|
| **Fahrwerk** | Liebherr-Raupenfahrwerk, bestehend aus einem Mittelstück und zwei Raupenträgern mit Raupenplatten 2 m (optional 1,5 m, 2,4 m) und 4-fach Antrieb. |
| **Zentralballast** | 2 Konsolen à 5 t. Gesamtzentralballast 70 t. 6 Ballastplatten à 10 t (Option). |

## Kranoberwagen

| | |
|---|---|
| **Drehbühnenrahmen** | Liebherr-Drehbühnenrahmen, bestehend aus Drehbühne mit Winde IV und abnehmbaren A-Bock, verbunden mit dem Raupenmittelteil über eine Rollendrehverbindung. |
| **Kranmotor mit Geräuschisolierung** | Liebherr 8-Zylinder-Diesel, wassergekühlt, Leistung 455 kW (619 PS), max. Drehmoment 2824 Nm. Kraftstoffbehälter: ca. 1100 l. Abgasemissionen entsprechend Richtlinie (EU) 2016/1628, EPA/CARB oder ECE-R.96. |
| **Winde I** | Standard Hubwinde, hydraulisch angetrieben mit Axialkolben-Verstellmotor mit integriertem Planetengetriebe. |
| **Winde IV** | Einziehwerk |
| **Einscherwinde** | Hilfswinde zum Einscheren der Seile. |
| **Drehwerk** | 2 Drehwerke mit integriertem Planetengetriebe, hydraulisch angetrieben durch Axialkolben-Verstellmotor. |
| **Krankabine** | Klimatisierte Krankabine nach hinten neigbar mit Sicherheitsverglasung, wärmedämmendes Glas, Dachfenster mit Panzerglas, genormte Steuereinheiten ergonomisch angeordnet. Thermostatisch geregelte Warmwasser-Zusatzheizung. |
| **Kransteuerung** | Eingabe der Konfigurationsdaten durch einfache interaktive Funktionen. Alle Kranbewegungen werden durch drei 4-Wege Meisterschalter sowie zwei 2-Wege Hand-/Fußhebel gesteuert. Alle Arbeitsbewegungen können unabhängig voneinander angesteuert werden. |
| **Sicherheitseinrichtungen** | Hubendschalter, Sicherheitsventile gegen Schlauch- und Rohrbruch. Seiltrommel-Endschaltung mit 3 Sicherheitswindungen. Windwarnanlage. Elektronische Neigungsanzeige. Flugwarnleuchte. |
| **Kamera-Überwachung** | 2 Farbmonitore, 4 Kameras für Winden, Drehbühne seitlich und Heckbereich. |
| **Gegengewicht** | 2 Konsolen mit je 15 t. Gesamtgegengewicht 230 t. 20 Ballastplatten à 10 t. |

## Auslegersysteme

| | |
|---|---|
| **Hauptausleger HS** | System 3330/2724 mit Kopfstück für max. Tragkraft von 650 t. Auslegerlänge HS 36 m – 90 m. Auslegerlänge HSDB 36 m – 126 m mit Derricksystem. |
| **Hauptausleger (H)SL** | System 3330/2724/2420 mit Kopfstück für max. Tragkraft von 450 t. Auslegerlänge SL 30 m – 114 m, HSLDB 36 m – 180 m. |
| **Wippbare Gitterspitze W** | System 2724/2420 mit Kopfstück für max. Tragkraft von 450 t. Wippspitzenlängen W 18 m – 102 m. Für Wippspitzenbetrieb ist Winde V erforderlich. |
| **Derricksystem D** | System 2524 einschließlich Abspannstangen. Für Derrickbetrieb ist die Winde III erforderlich. Länge 33 m / 39 m. |
| **Ballastpalette B** | Für max. Derrickballast von 400 t und stufenlos variable Radien von 11 m – 18 m. |
| **Derrickballast** | Platten mit Gesamtgewicht von 400 t. |
| **Winde II** | 2. Hubwinde. |
| **Winde III** | Verstellung Hauptausleger/Derrickbetrieb. |
| **Winde V** | Verstellung wippbare Gitterspitze. |
| **Winde VI** | Hilfshubwerk. |
| **Mastnase** | 25 t zum Anbau am S oder L Kopf. |

## Zusatzausrüstung

| | |
|---|---|
| **Mechanische Zusatzabstützung** | Zum Aufrichten von langen Auslegerkombinationen ohne Derrickballast. |
| **Hydraulische Montageabstützung** | Anheben des Grundgeräts zum Auf-/Abbau. Bestehend aus 4 Abstützzylindern einschließlich Abstützplatten, angebaut an Zentralballastkonsolen. |
| **Hydraulischer Montagezylinder** | Zur Selbstmontage/Demontage des Raupenfahrwerks. |
| **Bolzenzieheinrichtung** | Einschließlich mobilem Hydraulikaggregat. Für das Einschieben und Herausziehen der Bolzen der S- und L-Zwischenstücke. |

**Weitere Zusatzausrüstungen auf Anfrage.**

# Equipment

| | |
|---|---|
| **Max. capacity** | **800 t at 9 m radius<br>H2DBV – System with H2 57 m and D 33 m.** |
| **Max. load moment** | **11.182 tm – 621.2 t at 18 m radius.<br>HSDBV – System with HS 36 m and D 33 m.** |

## Crawler travel gear

| | |
|---|---|
| **Crawler chassis** | Liebherr crawler chassis consisting of one centre section and two crawler carriers with crawler plates 2 m (optional 1.5 m, 2.4 m) and quadruple drive. |
| **Central ballast** | 2 brackets 5 t each. Total central ballast 70 t. 6 ballast plates 10 t each (option). |

## Crane superstructure

| | |
|---|---|
| **Superstructure frame** | Liebherr-slewing platform frame, consisting of slewing platform with winch IV and removable A-frame, connected to the centre section by a roller slewing bearing. |
| **Crane engine with sound insulation** | 8-cylinder diesel engine, make Liebherr, water cooled, rated power 455 kW (619 h.p.), max torque 2824 Nm. Fuel tank approx. 1100 l, exhaust emissions acc. to (EU) 2016/1628, EPA/CARB or ECE-R.96. |
| **Winch I** | Standard hoist winch, hydraulically driven with variable axial piston motor with integrated planetary gear. |
| **Winch IV** | Boom hoist. |
| **Reeving winch** | Auxiliary winch for the reeving of ropes. |
| **Slewing gear** | 2 slewing gears with integrated planetary gear hydraulically driven by axial piston variable motor. |
| **Crane cabin** | Air conditioned crane cabin tiltable to the rear with safety glazing, heat insulating glass, roof window with bullet proof glass, standardized control units ergonomically positioned. Additional thermostatically controlled hot water heating. |
| **Crane control** | Setting of configuration data by convenient interactive functions. All crane movements are initiated by means of three 4-way joystick hand levers and two 2-way hand/foot levers. All working movements are independently controllable. |
| **Safety devices** | Hoist limit switch. Safety valves against hose and pipe rupture. Drum switch limit at 3 rest layers. Wind speed gauge. Electronic inclination indicator. Aircraft warning control light. |
| **Camera observation** | 2 colour monitors, 4 cameras for winches, slewing platform side and rear. |
| **Counterweight** | 2 brackets 15 t each. Total counterweight at superstructure 230 t. 20 ballast plates 10 t each. |

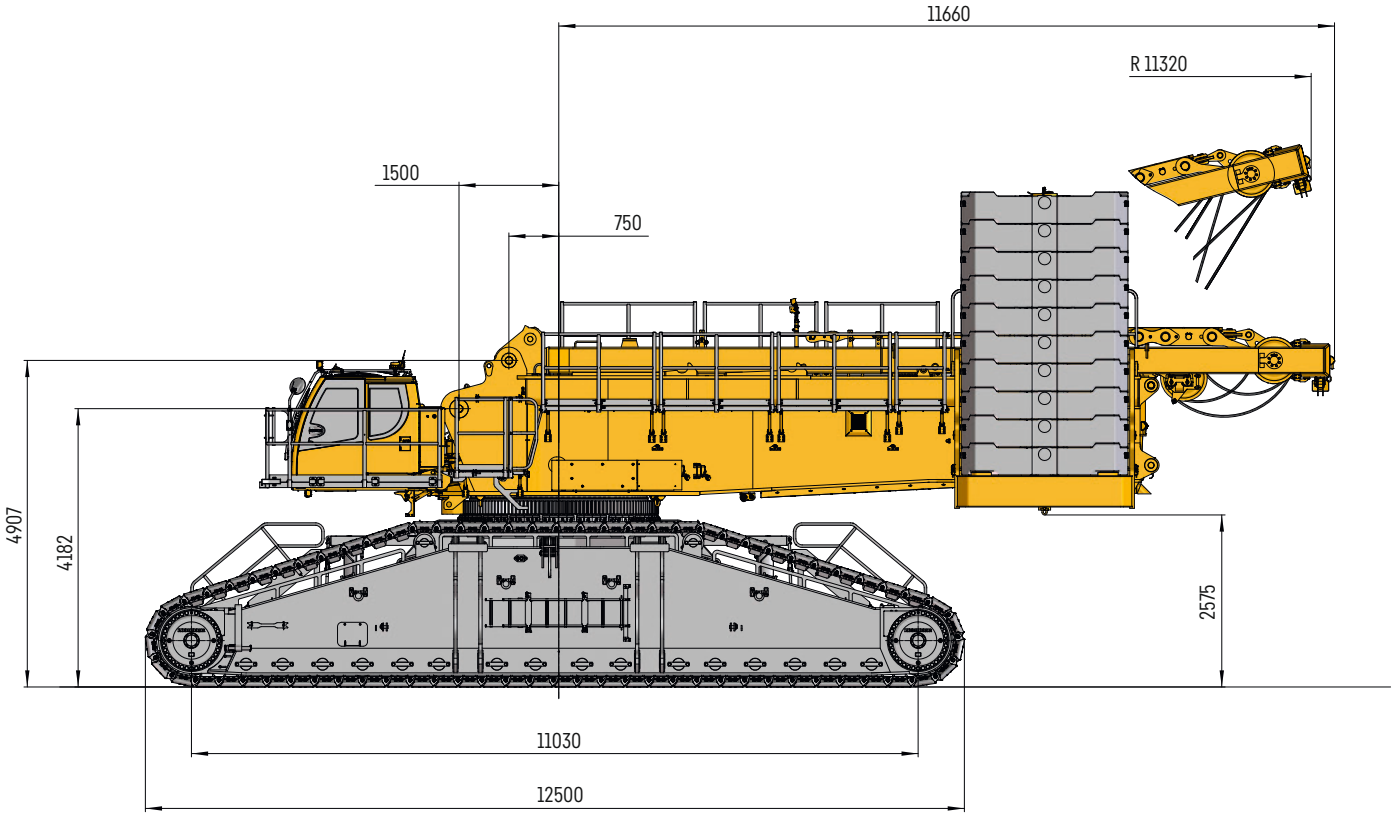
## Boom system

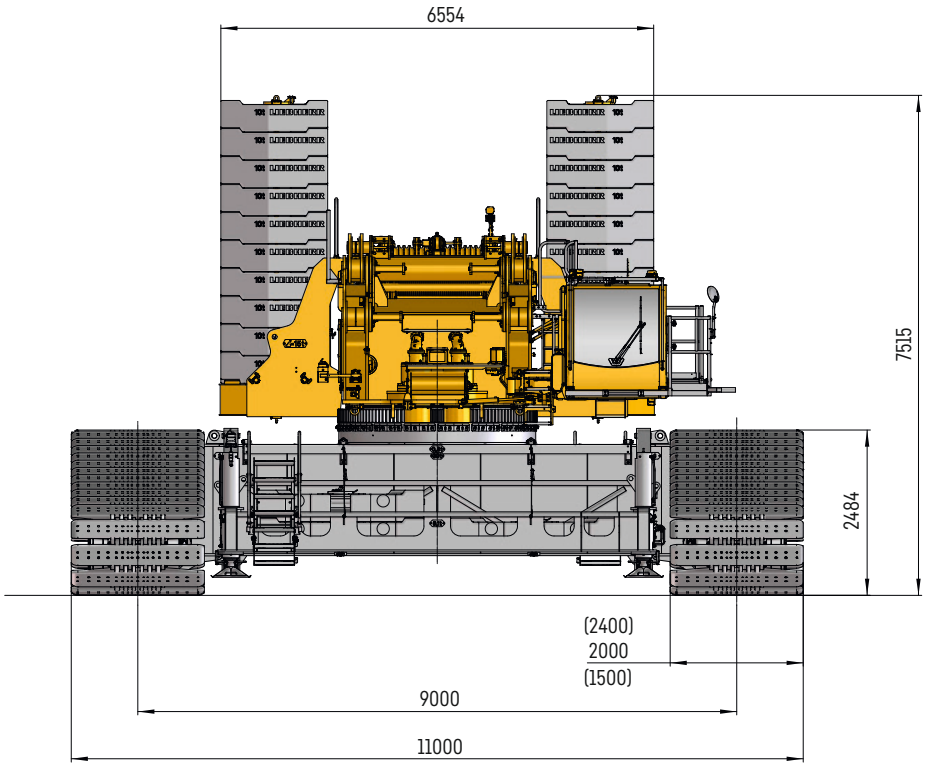
| | |
|---|---|
| **Main boom HS** | System 3330/2724 with head section for max. 650 t load capacity. Boom length HS 36 m – 90 m. Boom length HSDB 36 m – 90 m with derrick system. |
| **Main boom (H) SL** | System 3330/2724/2420 with head section for max. 450 t load capacity. Boom length SL 30 m – 114 m. Boom length HSLDB 36 m – 180 m . |
| **Lattice type luffing fly jib W** | System 2724/2420 with head section for max. 450 t load capacity. Luffing jib lengths W 18 – 102 m. Winch V is needed for all luffing jib operations. |
| **Derrick system D** | System 2524 including guy rods. Winch III is needed for all derrick operations. Length 33 m / 39 m. |
| **Counterweight frame B** | For max. derrick counterweight of 400 t, for infinitely variable radius from 11 m – 18 m. |
| **Derrick-Counterweight** | Plates for a total of 400 t. |
| **Winch II** | Second hoist winch. |
| **Winch III** | Reeving main boom / Derrick operation. |
| **Winch V** | Luffing for W-jib configuration. |
| **Winch VI** | Auxiliary hoist gear. |
| **Whip line** | 25 t for attaching to the S or L head. |

## Additional equipment

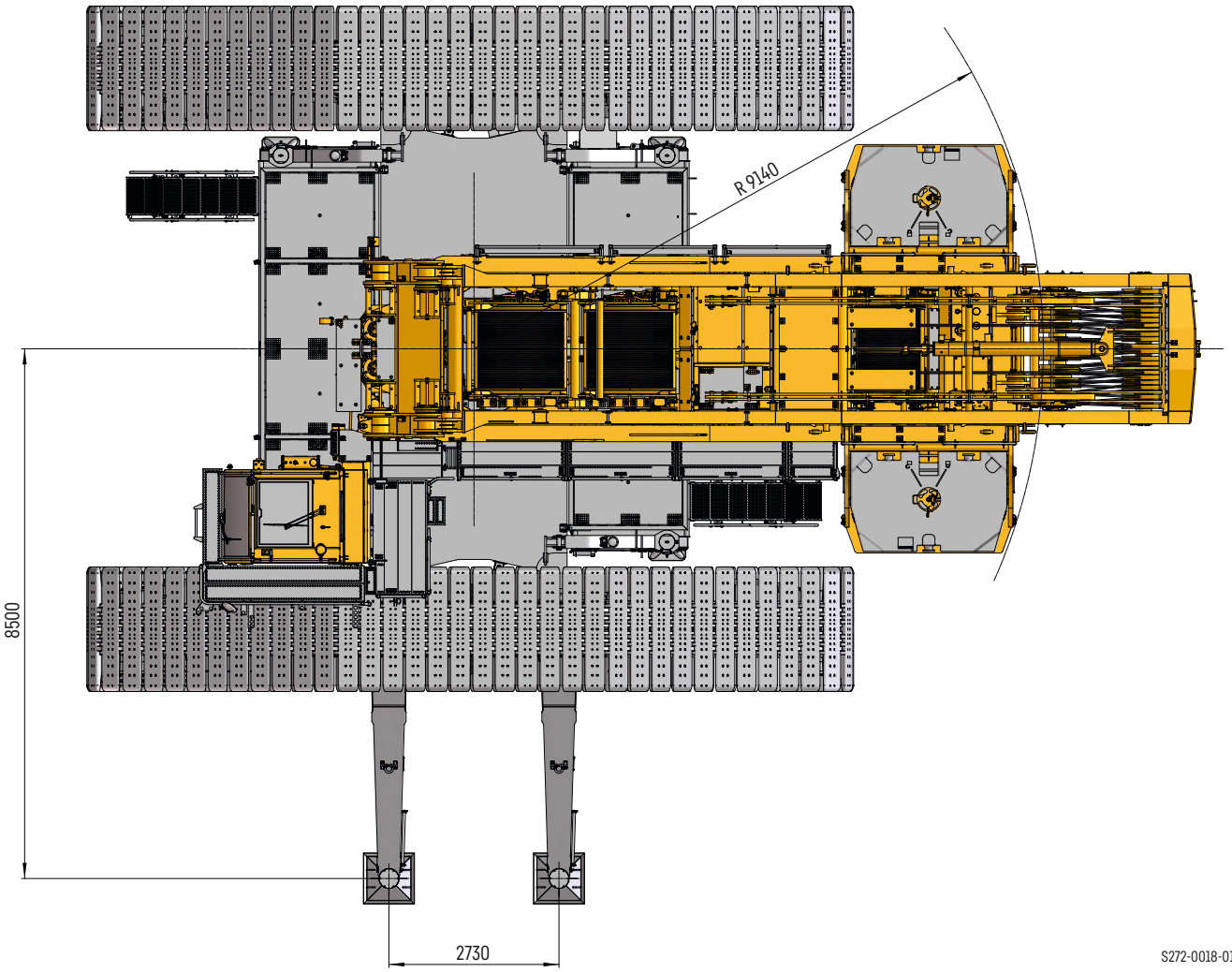
| | |
|---|---|
| **Mechanical outriggers** | For erection of long boom combinations without derrick-counterweight. |
| **Hydraulic assembly jacks** | Lifting of the basic machine for assembly/disassembly. Consisting of 4 support cylinders including support plates, mounted on central ballast consoles. |
| **Hydraulic assembly cylinder** | For assembly/disassembly of the crawler carrier by the crane itself. |
| **Pin pulling device** | Including mobile hydraulic aggregate. For assembly/disassembly of the pins at S and L intermediate sections. |

**Other items of equipment available on request.**

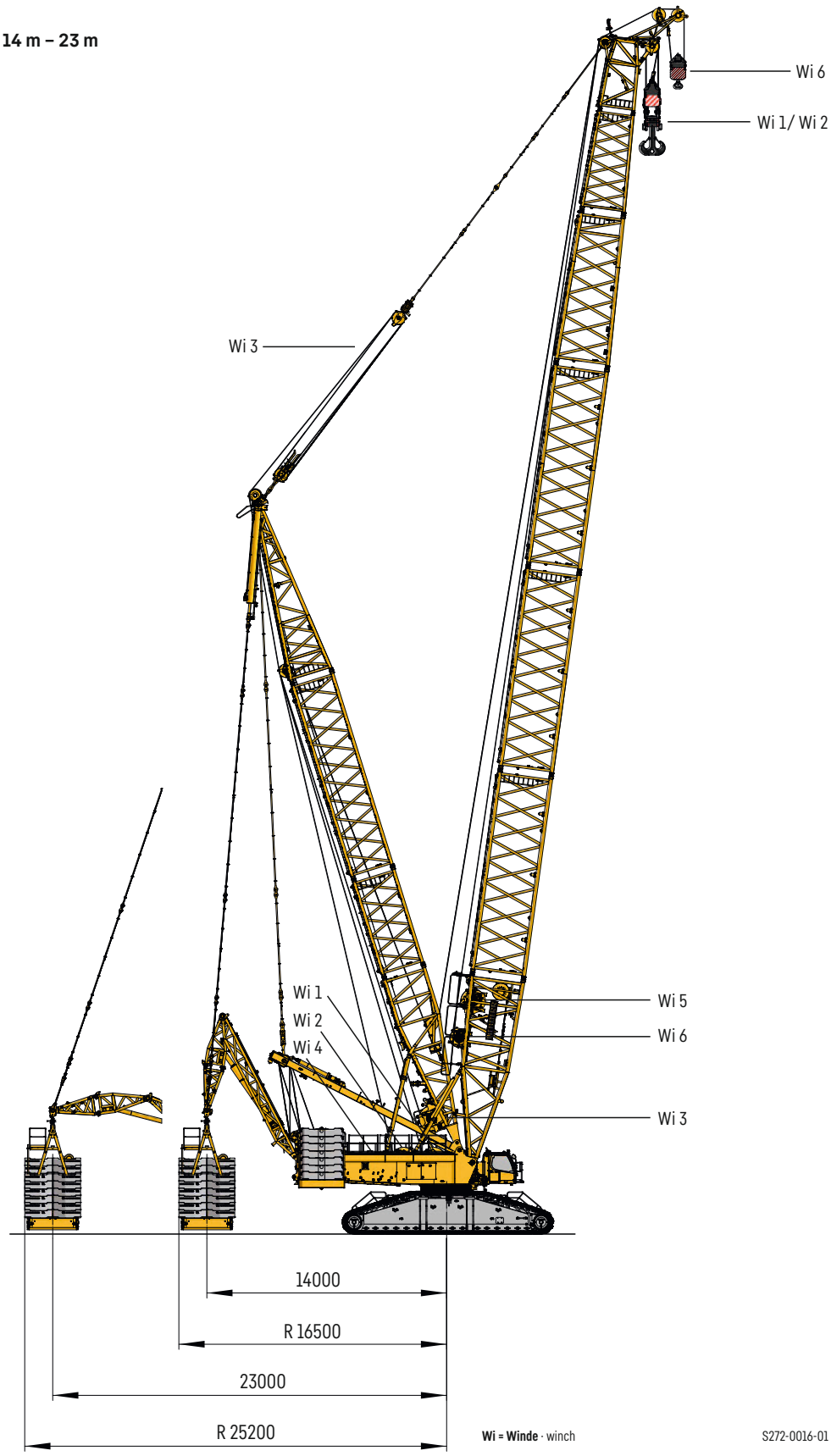

11660
R 11320
1500
750
4907
4182
2575
11030
12500


6554
7515
2484
(2400)
2000
(1500)
9000
11000

S272-0018-01

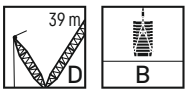

R 9140
8500
2730
S272-0018-01

39 m
D
BV
14 m – 23 m

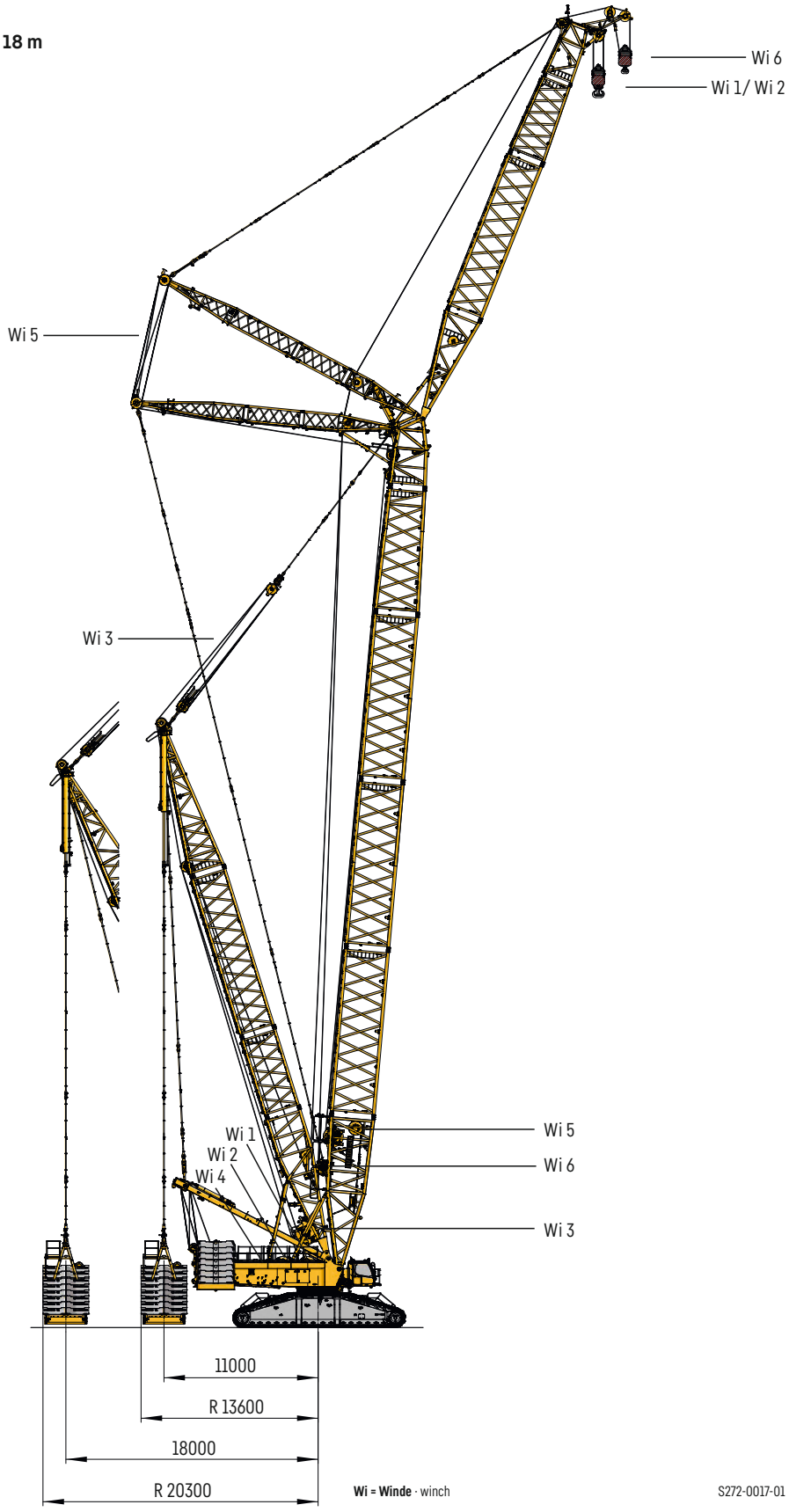



**Wi = Winde** · winch

S272-0016-01




**11 m – 18 m**




**Wi = Winde** · winch

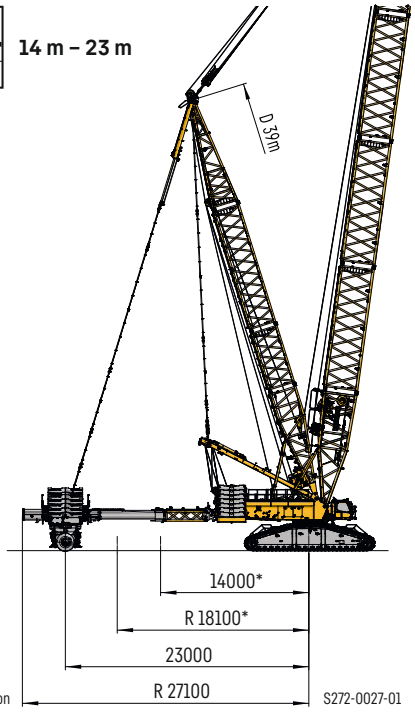
S272-0017-01

# M-Wagon® für 3 Krantypen
M-Wagon® for 3 crane models

39 m D

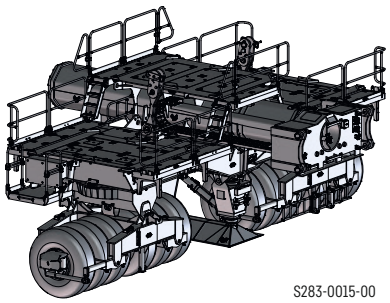
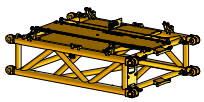
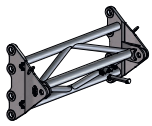
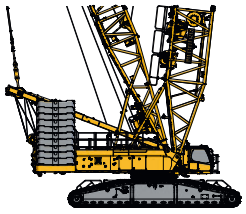
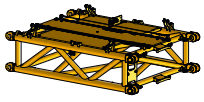
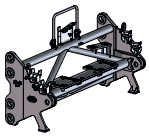
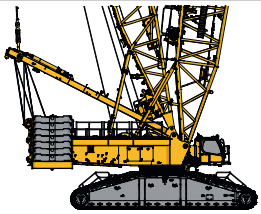
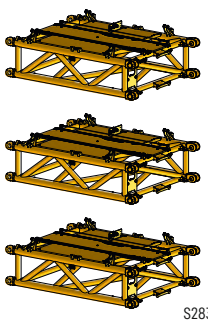
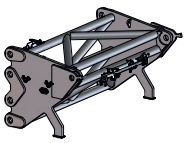
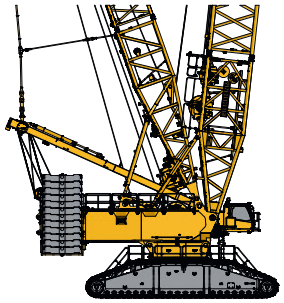
B BW

**14 m – 23 m**




S272-0027-01

***ohne 4 m Zwischenstück**
without 4 m intermediate section

| M-Wagon® | 4 m Zwischenstück<br>intermediate section | | Adapter<br>adapter | | Krantyp<br>crane type | |
|---|---|---|---|---|---|---|
| **Einer passt für alle**<br>One fits all<br>  <br>S283-0015-00 | + |  <br>S283-0016-00 | + | **375 t @ 21 m**<br>  <br>S283-0017-00 |  <br>**LR 1700-1.0** | S283-0020-00 |
| | + |  <br>S283-0016-00 | + | **400 t @ 23 m**<br>  <br>S283-0018-00 |  <br>**LR 1800-1.0** | S283-0021-00 |
| | + |  <br>S283-0016-00 | + | **450 t @ 30 m**<br>  <br>S283-0019-00 |  <br>**LR 11000** | S283-0022-00 |

## Winden
Winches

| | $V_{m/min}$ | F | ⌀ | |
|---|---|---|---|---|
| 1 | 0 – 114 m/min | 200 kN | 30 mm | 1300 m |
| 2 | 0 – 114 m/min | 200 kN | 30 mm | 1300 m |
| 3 | 0 – 125 m/min | – | – | – |
| 4 | 0 – 2 x 75 m/min | – | – | – |
| 5 | 0 – 135 m/min | – | – | – |
| 6 | 0 – 137 m/min | 125 kN | 25 mm | 600 m |

## Geschwindigkeiten
Working speeds

| | | |
|---|---|---|
| 360° | **Drehgeschwindigkeiten** · Slewing speeds | 0 – 0,67 $min^{-1}$ |
| km/h | **Fahrgeschwindigkeiten** · Travel speeds | 0 – 1,5 km/h |

## Hakenflaschen
Hook blocks

| | max | ⌀ | | | |
|---|---|---|---|---|---|
| 700 / 350 t | 800 / 400 t | 30 mm | 2 x 9 | 2 x 19 | 16 – 26 / 12 – 22 t |
| 560 / 280 t | 650 / 325 t | 30 mm | 2 x 7 | 2 x 15 | 14 – 22 / 10 – 18 t |
| 270 / 135 t | 320 / 160 t | 30 mm | 2 x 3 | 2 x 7 | 4,7 – 12,7 / 3,4 – 11,4 t |
| 210 t | 250 t | 30 mm | 5 | 11 | 3,0 – 11,0 t |
| 135 t | 160 t | 30 mm | 3 | 7 | 2,5 – 8,5 t |
| 60 t | 80 t | 30 mm | 1 | 3 | 2,5 – 4,5 t |
| 20 t | 25 t | 30 mm | – | 1 | 1,5 t |

## Einscherplan
Reeving chart

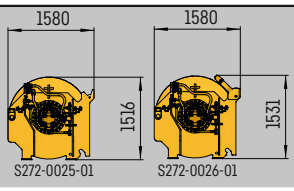
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| max | 20 | 40 | 59 | 79 | 98 | 118 | 137 | 155 | 174 | 193 | 211 | 229 | 247 | 264 | 282 | 299 | 317 | 333 | 350 |
| 20 t | ■ | | | | | | | | | | | | | | | | | | |
| 60 t | ■ | ■ | ■ | | | | | | | | | | | | | | | | |
| 135 t | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | |
| 210 t | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | |
| 280 t | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | |
| 350 t | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |

| | 2 x 3 | 2 x 4 | 2 x 5 | 2 x 6 | 2 x 7 | 2 x 8 | 2 x 9 | 2 x 10 | 2 x 11 | 2 x 12 | 2 x 13 | 2 x 14 | 2 x 15 | 2 x 16 | 2 x 17 | 2 x 18 | 2 x 19 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| max | 119 | 159 | 197 | 236 | 274 | 311 | 325 | 386 | 422 | 458 | 494 | 529 | 565 | 599 | 634 | 667 | 701 |
| 240 t | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | |
| 360 t | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | |
| 600 t | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |

# Transportplan
Transportation plan

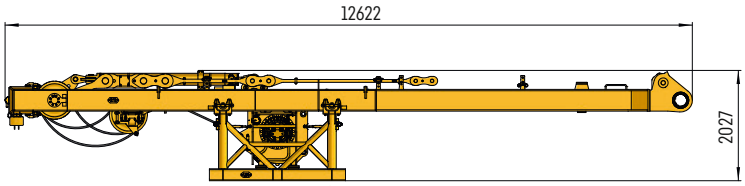
**Teil** · Part

**Winden 1 und 2**
Winches 1 and 2




**11 t**
**+**
**11 t**

**SA-Bock, Winde 4 inkl. Seil und Rollensatz**
SA-frame, winch 4 incl. rope and pulley block

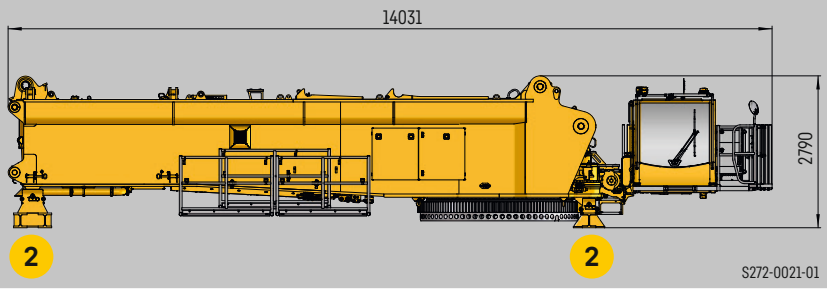



**20 t**

**+ 1,6 t**
**Transportkonsole**
Transport bracket

1

**Drehbühne mit Quick Connection**
Superstructure with quick connection



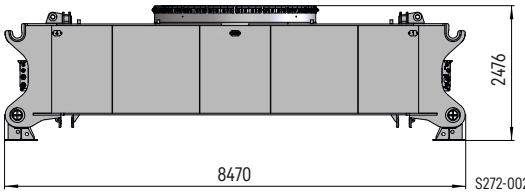

2 2

**46 t**
**(incl. QC)**

**+1,7 t**
**Transportkonsole**
Transport bracket

2

**Mittelteil**
Middle section




3 3

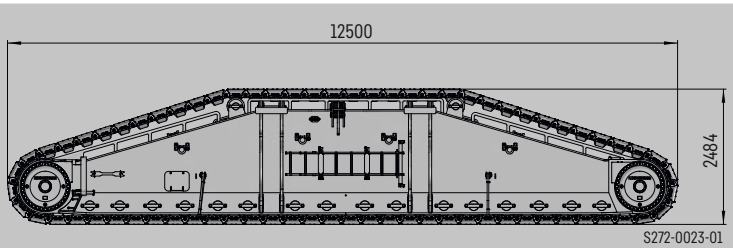
**30 t**

**+0,9 t**
**Transportkonsole**
Transport bracket

3

**Raupenträger (4-fach, 2 m Platten)**
**(*optional)**

Crawler track (4-fold, 2 m pads)
(*optional)




| 1,5 m* | 2 m | 2,4 m* |
|---|---|---|
| 50 t | 60 t | 67 t |

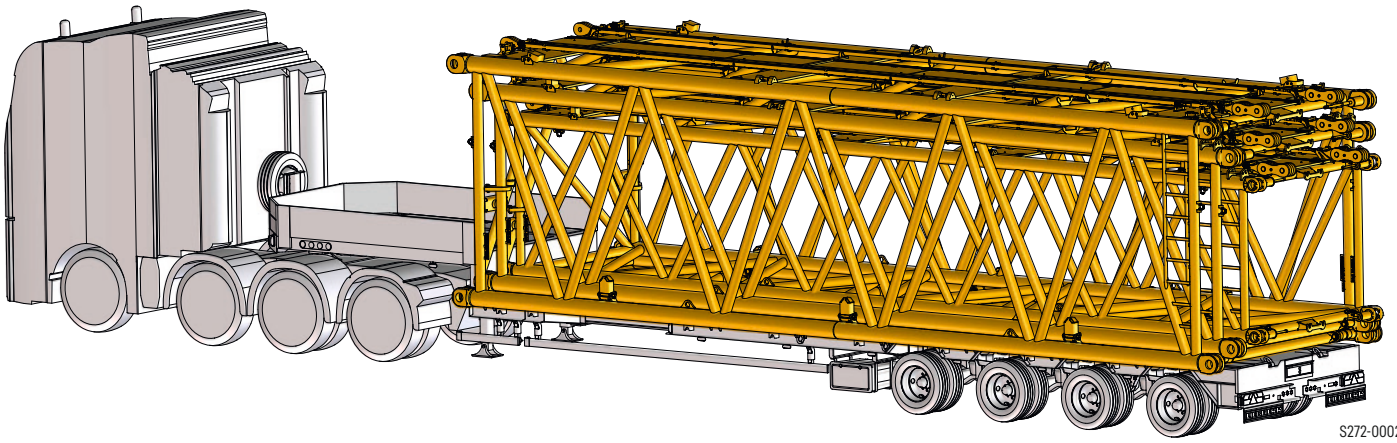
**2 x 60 t**

**Gesamt** · total:

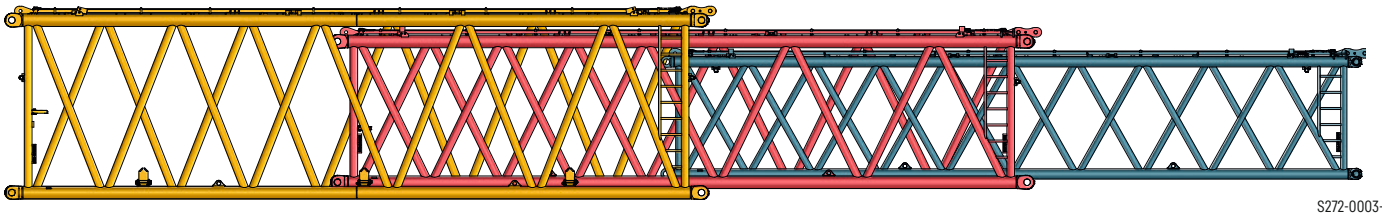
**238 t**

| 66 t | 68 t | 96 t | 88t |
|---|---|---|---|

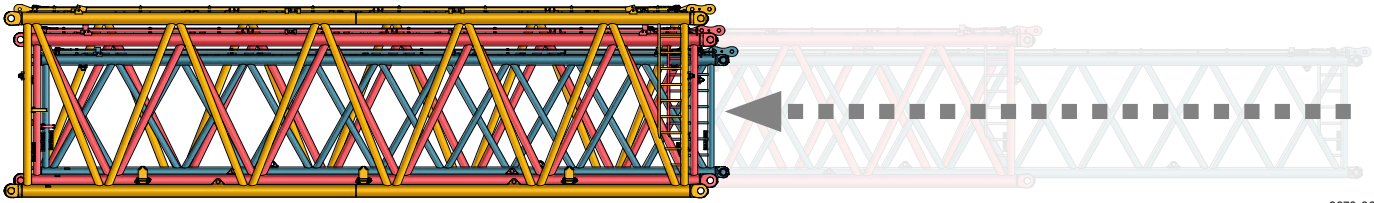
**+Transportkonsole**
+Transport bracket



S272-0002-00

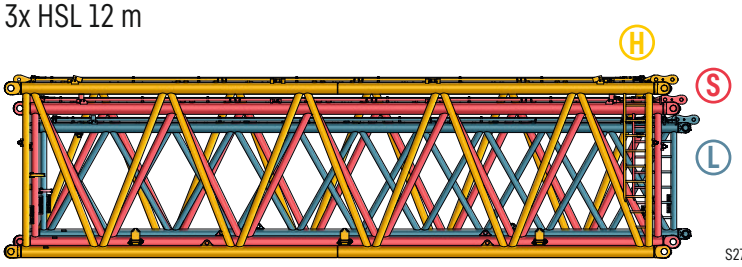


S272-0003-00



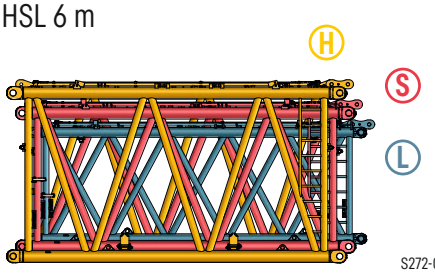
S272-0004-00

3x HSL 12 m

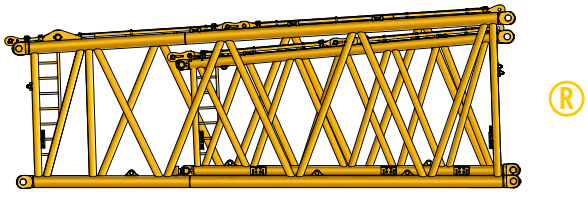



S272-0004-00

HSL 6 m




S272-0005-00



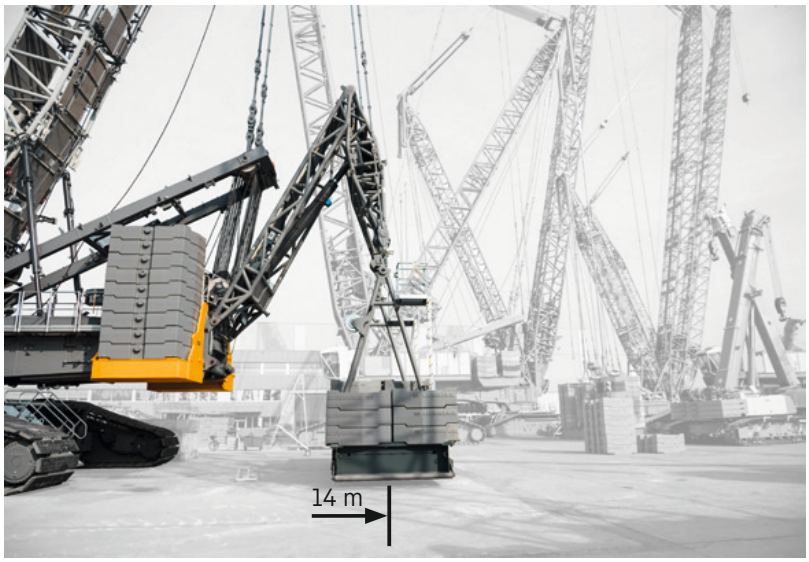

S272-0007-00

**HS-Reduzierstück inkl. SL-Reduzierstück**
HS-reduction section incl. SL-reduction section

# Schwebeballast V-frame
## Suspended ballast V-frame

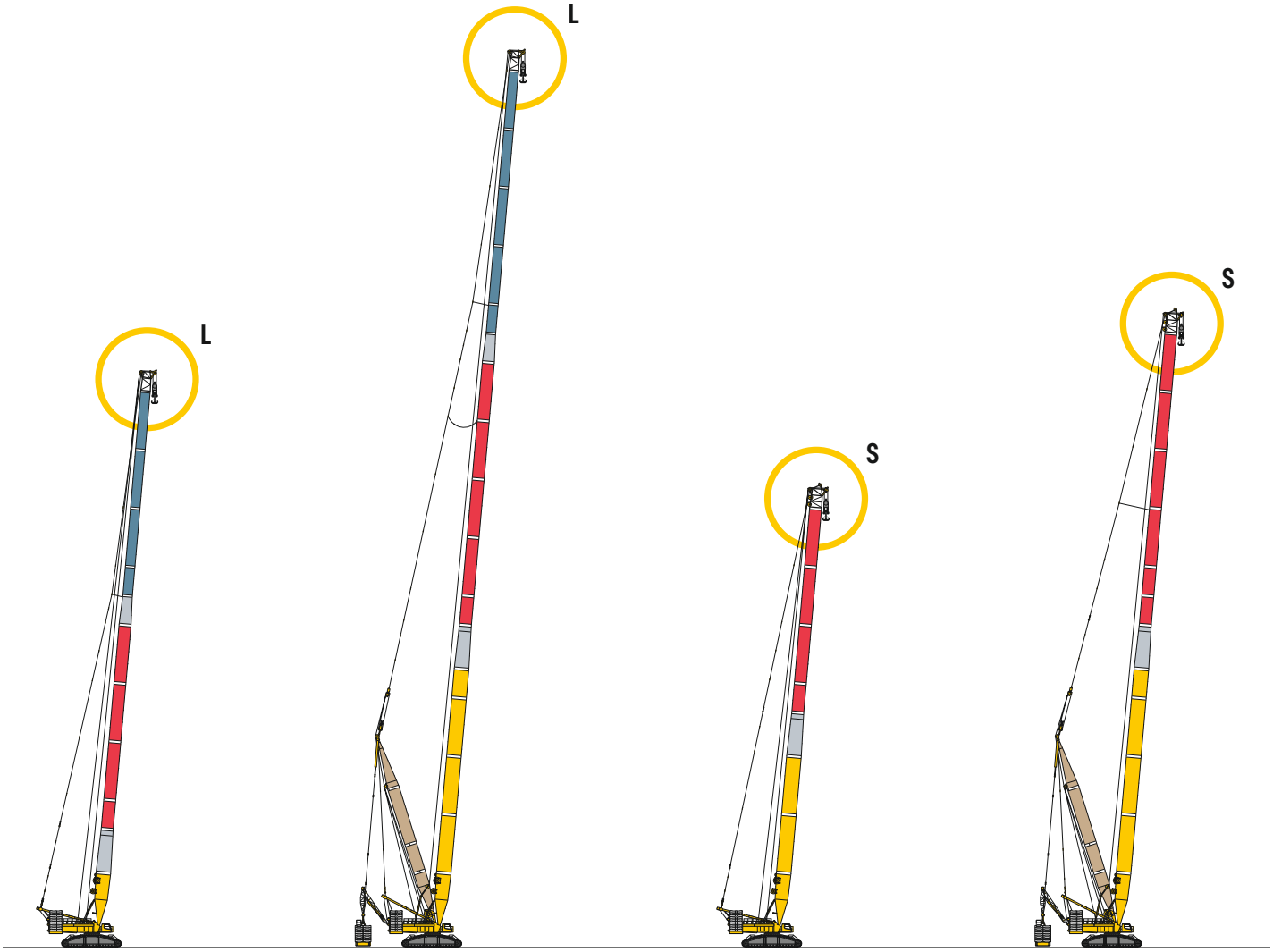
- **Verstellweg 14 – 23 m**
- **Automatisiertes Nachführen der Derrickzylinder (nur eine Steuerbewegung)**
- **Interpolierte Traglasttabellenwerte**

- Adjustment distance 14 – 23 m
- Automated tracking of the derrick cylinders (one control movement only)
- Interpolated load chart tables



# Auslegersysteme
## Boom/jib combinations

| | |
|---|---|
| **S/HS** | **Hauptausleger, schwer** · Main boom, heavy |
| **(H)SL/2/3** | **Hauptausleger, schwer/leicht** · Main boom, heavy/light |
| **D** | **Derrickausleger** · Derrick |
| **W** | **Wippbare Gitterspitze, schwer** · Luffin fly jib, heavy |
| **W1** | **Wippbare Gitterspitze, leicht** · Luffin fly jib, light |
| **A** | **Adapter** · Adapter |
| **F** | **Feste Gitterspitze** · Fixed lattice jib |
| **B** | **Schwebeballast** · Suspended ballast |
| **BV** | **Schwebeballast V-frame** · Suspended ballast V-frame |
| **BW** | **Ballastwagen M-Wagon** · Counterweight trailer M-Wagon |




**SL**

SL 30 m - 114 m

**HSLDB**
**HSLDBV**

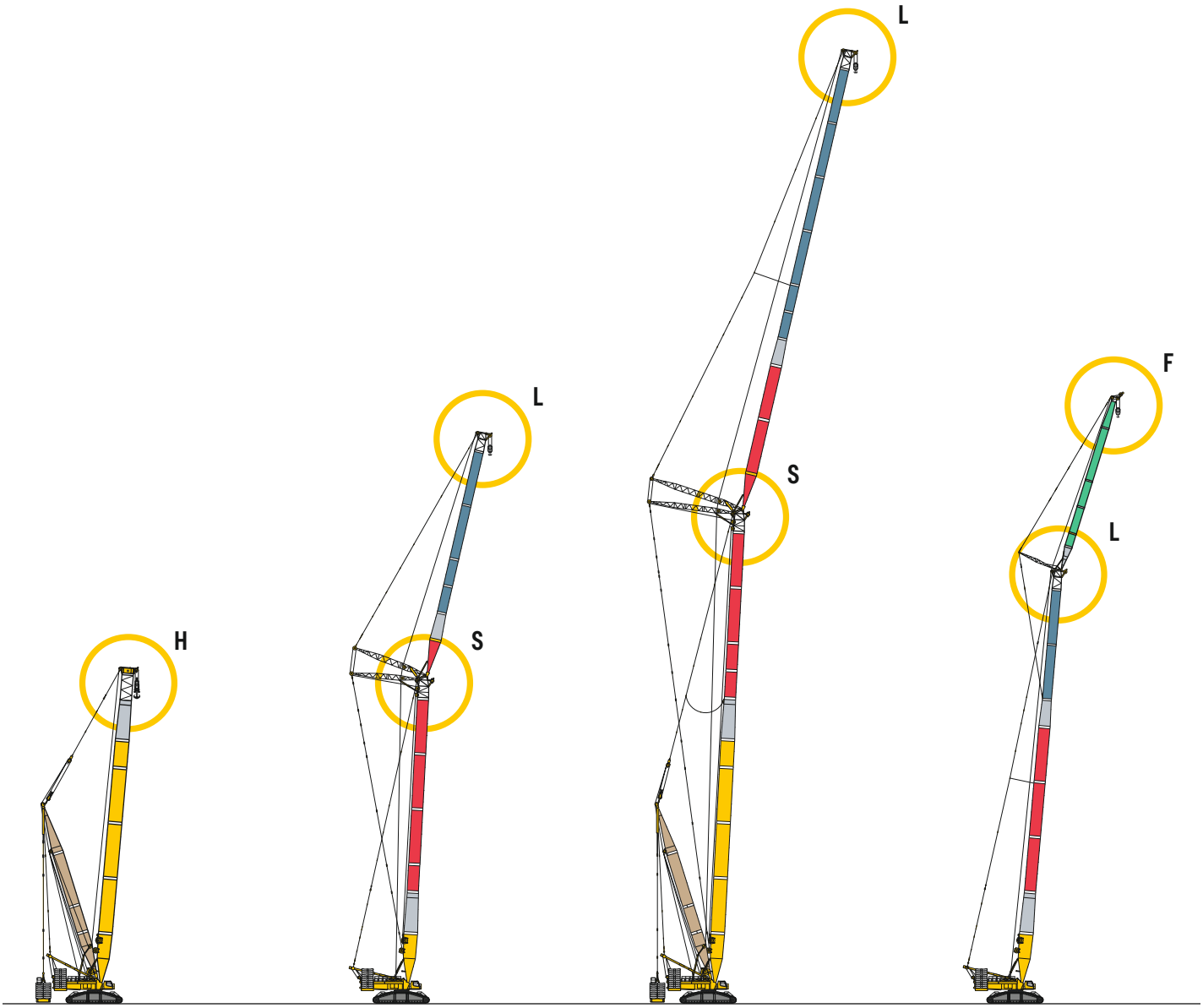
HSL 36 m - 180 m
D 39 m

**S**

S 36 m - 90 m

**HSDB**
**HSDBV**

HS 36 m - 126 m
D 39 m




**H2DB**
**H2DBV/BW**

HS 33 m - 69 m
D 39 m

**SW1**

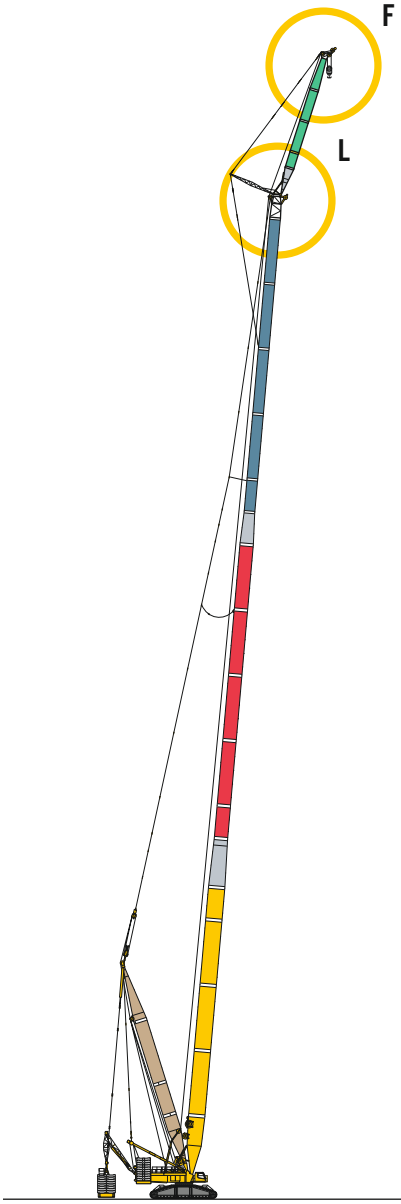
S 36 m - 66 m
W1 18 m - 102 m

**HSDWB**
**HSDWBV**

HS 42 m - 108 m
W 18 m - 102 m
D 39 m

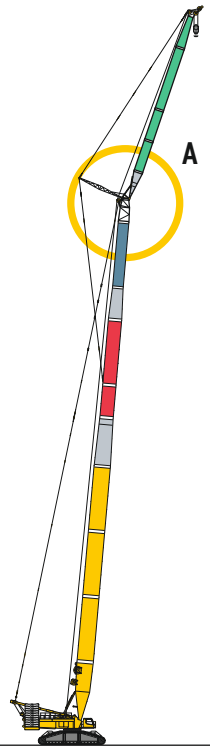
**SLF**

SL 54 m - 108 m
F 12 m - 39 m



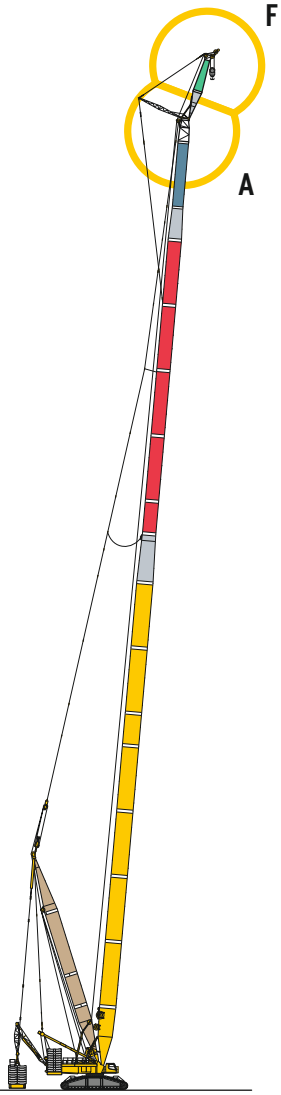

**HSLDFB/BV**
www.liebherr.com

HSL 96 m - 180 m
F 12 m - 39 m
D 39 m



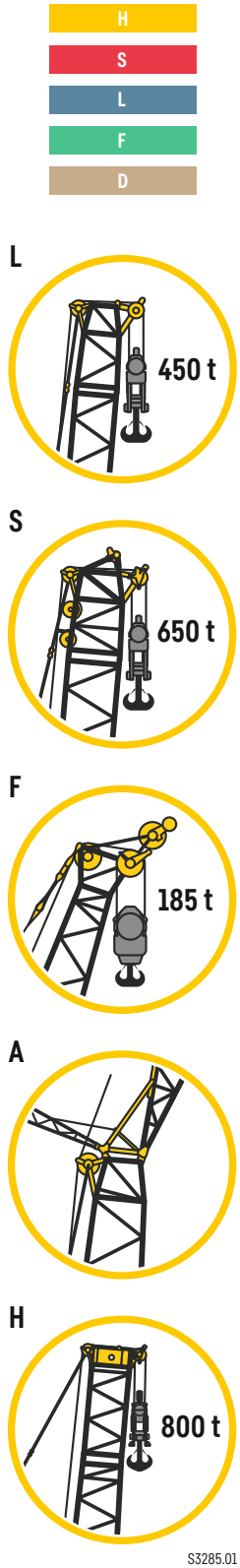

**HSL3AF**

HSL3 54 m - 102 m
F 12 m - 39 m

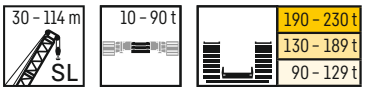



**HSL2ADFBV**

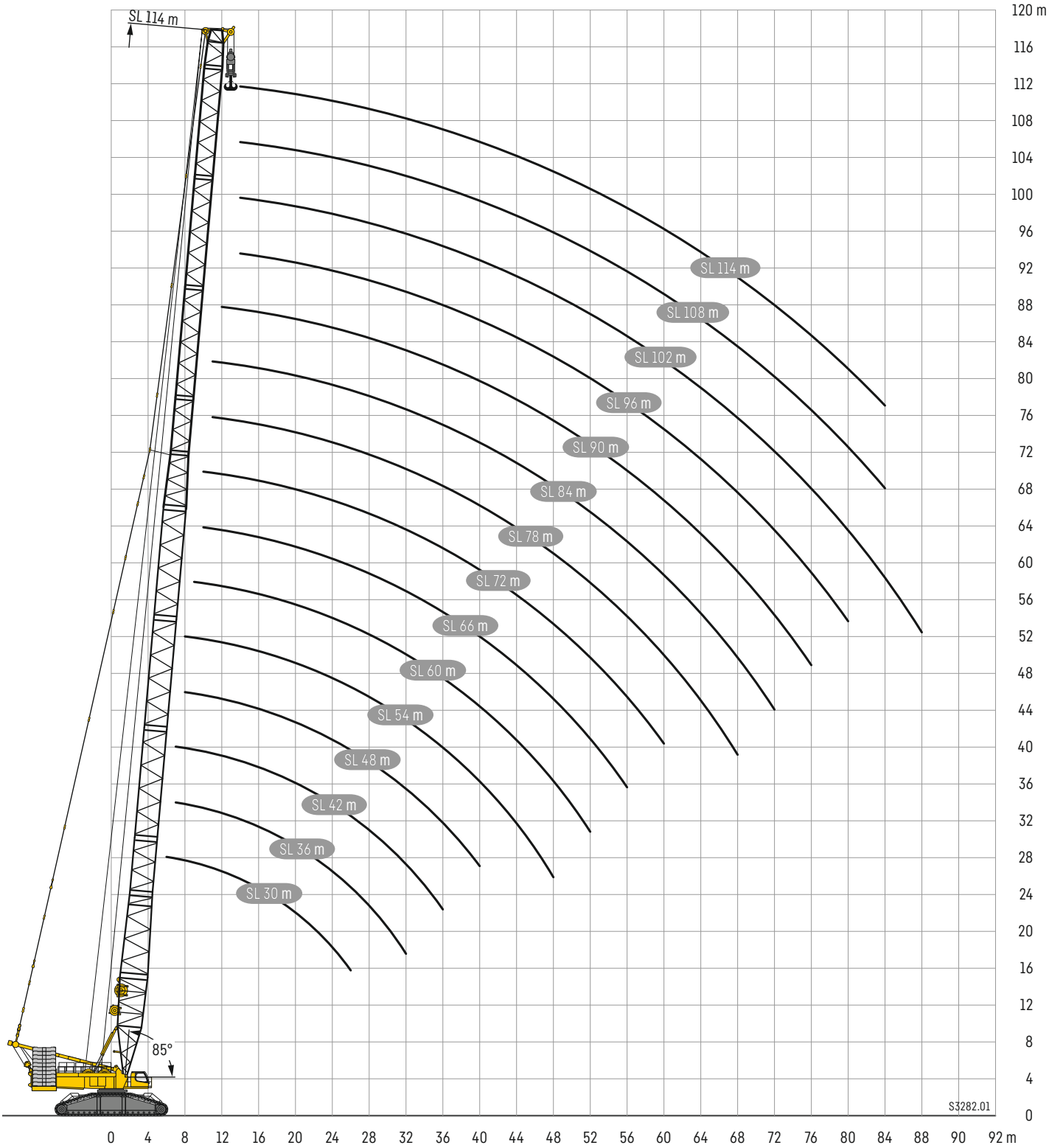
HSL2 60 m - 174 m
F 12 m - 39 m
D 39 m

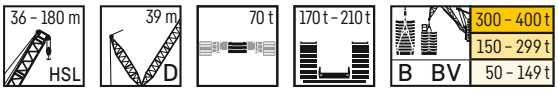



S3285.01

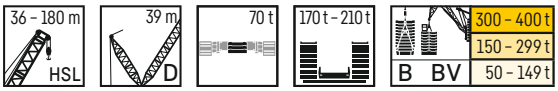



| m | SL 30 – 114 m | | | | | | | | | | | | | | | m |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 30 m | 36 m | 42 m | 48 m | 54 m | 60 m | 66 m | 72 m | 78 m | 84 m | 90 m | 96 m | 102 m | 108 m | 114 m | |
| 6 | 450 | | | | | | | | | | | | | | | 6 |
| 7 | 450 | 450 | 450 | | | | | | | | | | | | | 7 |
| 8 | 450 | 450 | 450 | 450 | 450 | | | | | | | | | | | 8 |
| 9 | 450 | 450 | 450 | 450 | 450 | 445 | | | | | | | | | | 9 |
| 10 | 441 | 441 | 441 | 433 | 435 | 414 | 393 | 376 | | | | | | | | 10 |
| 11 | 410 | 408 | 403 | 403 | 391 | 372 | 355 | 340 | 327 | 175 | | | | | | 11 |
| 12 | 370 | 368 | 367 | 366 | 353 | 338 | 323 | 309 | 301 | 285 | 245 | | | | | 12 |
| 14 | 311 | 308 | 308 | 306 | 295 | 283 | 272 | 262 | 255 | 247 | 232 | 217 | 189 | 153 | 129 | 14 |
| 16 | 266 | 264 | 263 | 261 | 252 | 243 | 233 | 225 | 221 | 214 | 209 | 202 | 184 | 148 | 124 | 16 |
| 18 | 231 | 230 | 229 | 226 | 219 | 211 | 203 | 196 | 193 | 187 | 184 | 178 | 174 | 143 | 120 | 18 |
| 20 | 203 | 202 | 201 | 199 | 193 | 186 | 179 | 173 | 171 | 166 | 163 | 158 | 155 | 137 | 115 | 20 |
| 22 | 178 | 177 | 177 | 175 | 172 | 166 | 160 | 154 | 153 | 148 | 146 | 142 | 139 | 131 | 111 | 22 |
| 24 | 156 | 157 | 155 | 154 | 153 | 149 | 143 | 138 | 138 | 134 | 132 | 128 | 125 | 121 | 107 | 24 |
| 26 | 139 | 139 | 138 | 137 | 135 | 133 | 130 | 125 | 125 | 121 | 119 | 116 | 113 | 110 | 102 | 26 |
| 28 | | 124 | 124 | 122 | 121 | 119 | 117 | 114 | 113 | 110 | 109 | 105 | 103 | 100 | 97,2 | 28 |
| 30 | | 113 | 112 | 111 | 109 | 107 | 105 | 103 | 104 | 100 | 99,3 | 96,2 | 94,3 | 91,3 | 89,8 | 30 |
| 32 | | 102 | 102 | 100 | 99,1 | 97 | 94,9 | 93,2 | 95 | 91,8 | 91 | 88,1 | 86,4 | 83,5 | 82,3 | 32 |
| 34 | | | 93 | 91,5 | 90,5 | 88,1 | 86,1 | 84,7 | 86,1 | 84,3 | 83,7 | 80,9 | 79,4 | 76,7 | 75,5 | 34 |
| 36 | | | 85,4 | 83,5 | 82,3 | 80,4 | 78,2 | 77 | 78,5 | 77 | 77,3 | 74,5 | 73 | 70,5 | 69,5 | 36 |
| 38 | | | | 77 | 75,7 | 73,8 | 71,7 | 70,2 | 71,8 | 70,3 | 71 | 68,8 | 67,4 | 64,9 | 64 | 38 |
| 40 | | | | 71,1 | 69,4 | 67,6 | 65,9 | 64,2 | 65,7 | 64,3 | 65 | 63,5 | 62,3 | 59,8 | 59 | 40 |
| 44 | | | | | 59,4 | 57,6 | 55,9 | 54,3 | 55,6 | 54,1 | 55 | 53,8 | 53,1 | 51,1 | 50,5 | 44 |
| 48 | | | | | 51,5 | 49,5 | 47,7 | 46 | 47,6 | 45,9 | 46,5 | 45,3 | 45,1 | 43,7 | 43,2 | 48 |
| 52 | | | | | | 42,8 | 41 | 39,1 | 40,7 | 39,2 | 39,8 | 38,4 | 38 | 37,1 | 36,9 | 52 |
| 56 | | | | | | | 35,3 | 33,5 | 34,8 | 33,2 | 34,1 | 32,5 | 32,1 | 31,2 | 31,1 | 56 |
| 60 | | | | | | | | 28,7 | 30 | 28,3 | 29 | 27,7 | 27,1 | 26,1 | 26 | 60 |
| 64 | | | | | | | | | 25,8 | 24,1 | 24,7 | 23,3 | 22,9 | 21,8 | 21,7 | 64 |
| 68 | | | | | | | | | 22,2 | 20,4 | 21 | 19,5 | 18,9 | 18,1 | 18 | 68 |
| 72 | | | | | | | | | | 17,1 | 17,7 | 16,2 | 15,7 | 14,6 | 14,7 | 72 |
| 76 | | | | | | | | | | | 14,9 | 13,3 | 12,8 | 11,7 | 11,6 | 76 |
| 80 | | | | | | | | | | | | 10,8 | 10,1 | 9,1 | 9 | 80 |
| 84 | | | | | | | | | | | | | 7,8 | 6,8 | 6,5 | 84 |
| 88 | | | | | | | | | | | | | 5,7 | | | 88 |


SL 114 m
SL 114 m
SL 108 m
SL 102 m
SL 96 m
SL 90 m
SL 84 m
SL 78 m
SL 72 m
SL 66 m
SL 60 m
SL 54 m
SL 48 m
SL 42 m
SL 36 m
SL 30 m
85°
S3282.01
0 4 8 12 16 20 24 28 32 36 40 44 48 52 56 60 64 68 72 76 80 84 88 90 92 m
120 m 116 112 108 104 100 96 92 88 84 80 76 72 68 64 60 56 52 48 44 40 36 32 28 24 20 16 12 8 4 0



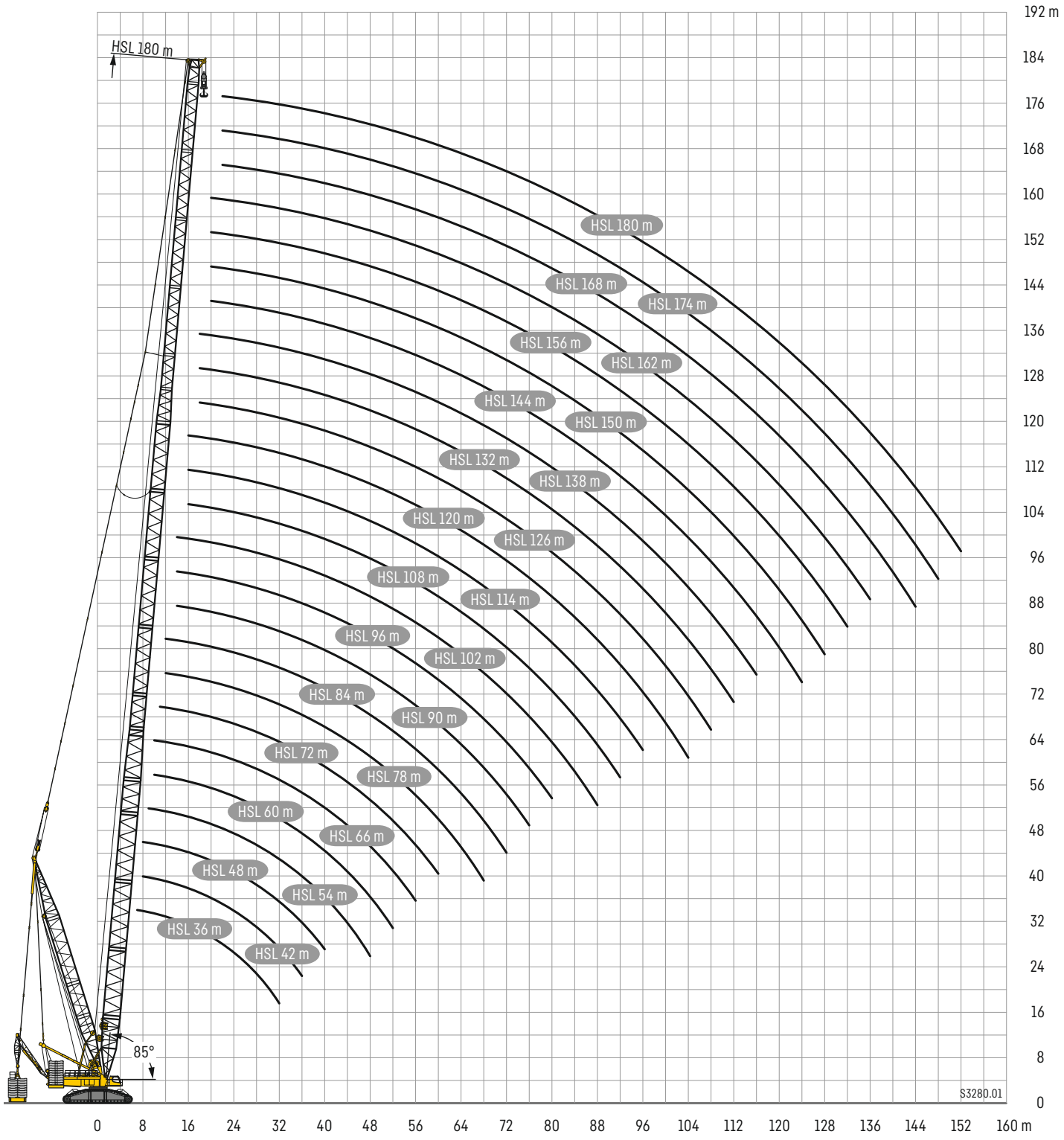

| m | | HSL 36 – 180 m | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 36 m | 42 m | 48 m | 54 m | 60 m | 66 m | 72 m | 78 m | 84 m | 90 m | 96 m | 102 m | 108 m | 114 m | 120 m | 126 m | 132 m | 138 m | 144 m | 150 m | 156 m | 162 m | 168 m | 174 m | 180 m |
| 7 | Ot | 450 | | | | | | | | | | | | | | | | | | | | | | | | |
| | B | 450 | | | | | | | | | | | | | | | | | | | | | | | | |
| | BV | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | Ot | 450 | 450 | 450 | | | | | | | | | | | | | | | | | | | | | | |
| | B | 450 | 450 | 450 | | | | | | | | | | | | | | | | | | | | | | |
| | BV | 450 | 450 | 450 | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Ot | 450 | 450 | 450 | 450 | | | | | | | | | | | | | | | | | | | | | |
| | B | 450 | 450 | 450 | 450 | | | | | | | | | | | | | | | | | | | | | |
| | BV | 450 | 450 | 450 | 450 | | | | | | | | | | | | | | | | | | | | | |
| 10 | Ot | 444 | 440 | 430 | 408 | 398 | 377 | | | | | | | | | | | | | | | | | | | |
| | B | 450 | 450 | 450 | 450 | 450 | 450 | | | | | | | | | | | | | | | | | | | |
| | BV | 450 | 450 | 450 | 450 | 450 | 450 | | | | | | | | | | | | | | | | | | | |
| 11 | Ot | 398 | 395 | 383 | 365 | 358 | 340 | 325 | | | | | | | | | | | | | | | | | | |
| | B | 450 | 450 | 450 | 450 | 450 | 450 | 450 | | | | | | | | | | | | | | | | | | |
| | BV | 450 | 450 | 450 | 450 | 450 | 450 | 450 | | | | | | | | | | | | | | | | | | |
| 12 | Ot | 360 | 357 | 345 | 330 | 324 | 309 | 295 | 283 | 305 | | | | | | | | | | | | | | | | |
| | B | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | | | | | | | | | | | | | | | | |
| | BV | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | | | | | | | | | | | | | | | | |
| 14 | Ot | 301 | 298 | 286 | 275 | 271 | 260 | 249 | 238 | 260 | 250 | 243 | 233 | | | | | | | | | | | | | |
| | B | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 420 | 378 | 340 | | | | | | | | | | | | | |
| | BV | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 430 | 386 | 345 | | | | | | | | | | | | | |
| 16 | Ot | 259 | 254 | 243 | 234 | 232 | 222 | 213 | 205 | 224 | 217 | 210 | 203 | 197 | 190 | 187 | | | | | | | | | | |
| | B | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 419 | 377 | 339 | 305 | 274 | 243 | | | | | | | | | | |
| | BV | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 432 | 386 | 346 | 309 | 277 | 234 | | | | | | | | | | |
| 18 | Ot | 225 | 220 | 211 | 203 | 201 | 193 | 185 | 178 | 196 | 190 | 184 | 178 | 173 | 166 | 164 | 160 | 158 | 152 | 143 | | | | | | |
| | B | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 418 | 376 | 337 | 304 | 273 | 242 | 218 | 184 | 167 | 145 | | | | | | |
| | BV | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 433 | 386 | 346 | 310 | 277 | 234 | 215 | 177 | 168 | | | | | | | |
| 20 | Ot | 196 | 192 | 185 | 178 | 177 | 170 | 163 | 157 | 173 | 167 | 163 | 157 | 153 | 147 | 146 | 142 | 141 | 135 | 133 | 123 | 106 | 101 | | | |
| | B | 441 | 436 | 429 | 431 | 448 | 450 | 449 | 440 | 438 | 414 | 374 | 333 | 304 | 273 | 241 | 217 | 183 | 165 | 144 | 123 | 106 | 101 | | | |
| | BV | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 422 | 384 | 346 | 310 | 277 | 234 | 215 | 176 | 167 | 134 | 115 | 100 | 102 | | | |
| 22 | Ot | 171 | 169 | 164 | 159 | 157 | 151 | 145 | 139 | 154 | 149 | 145 | 140 | 136 | 131 | 130 | 126 | 126 | 121 | 119 | 115 | 105 | 99,2 | 87,2 | | |
| | B | 400 | 397 | 394 | 392 | 429 | 425 | 419 | 413 | 413 | 396 | 371 | 323 | 302 | 272 | 239 | 215 | 181 | 164 | 142 | 122 | 105 | 99,6 | 87,4 | | |
| | BV | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 449 | 432 | 398 | 370 | 343 | 310 | 277 | 235 | 215 | 176 | 166 | 134 | 115 | 100 | 101 | 85 | 72,6 | 58,5 |
| 24 | Ot | 151 | 148 | 147 | 142 | 141 | 135 | 129 | 124 | 138 | 134 | 130 | 125 | 122 | 117 | 117 | 113 | 113 | 109 | 107 | 103 | 100 | 96,1 | 85,8 | | |
| | B | 366 | 362 | 360 | 358 | 393 | 389 | 384 | 379 | 381 | 373 | 358 | 316 | 300 | 271 | 237 | 213 | 179 | 162 | 140 | 121 | 103 | 98,2 | 86,2 | | |
| | BV | 438 | 449 | 449 | 447 | 442 | 442 | 434 | 424 | 407 | 376 | 350 | 338 | 309 | 277 | 237 | 216 | 176 | 165 | 134 | 115 | 100 | 99,5 | 85,1 | 72,9 | 58,8 |
| 26 | Ot | 134 | 132 | 130 | 128 | 127 | 122 | 116 | 111 | 124 | 120 | 117 | 113 | 110 | 105 | 105 | 102 | 102 | 97,8 | 96,3 | 93,3 | 92,4 | 87,5 | 83 | | |
| | B | 337 | 334 | 331 | 329 | 361 | 359 | 354 | 350 | 352 | 345 | 337 | 305 | 293 | 267 | 231 | 210 | 176 | 159 | 138 | 118 | 102 | 96,8 | 85,1 | | |
| | BV | 404 | 430 | 428 | 425 | 418 | 414 | 406 | 398 | 385 | 357 | 334 | 328 | 301 | 276 | 239 | 216 | 176 | 163 | 133 | 115 | 99,9 | 98,3 | 85,1 | 73,1 | 59,1 |
| 28 | Ot | 120 | 119 | 116 | 115 | 115 | 110 | 105 | 100 | 113 | 109 | 106 | 102 | 99,1 | 94,7 | 94,8 | 92 | 92,3 | 88,3 | 86,9 | 84,3 | 83,5 | 78,7 | 76,5 | | |
| | B | 311 | 309 | 306 | 304 | 334 | 331 | 328 | 324 | 327 | 320 | 313 | 297 | 286 | 262 | 227 | 206 | 173 | 157 | 137 | 116 | 99,6 | 95,3 | 83,8 | | |
| | BV | 360 | 395 | 397 | 394 | 389 | 386 | 380 | 373 | 365 | 340 | 318 | 312 | 288 | 269 | 240 | 216 | 176 | 161 | 133 | 114 | 99,6 | 96,9 | 85,1 | 72,6 | 59,3 |
| 30 | Ot | 109 | 107 | 105 | 103 | 104 | 100 | 95 | 90,9 | 102 | 98,7 | 95,9 | 92,1 | 89,7 | 85,5 | 85,8 | 83,2 | 83,8 | 79,9 | 78,8 | 76,2 | 75,5 | 71 | 68,8 | | |
| | B | 289 | 287 | 285 | 281 | 310 | 307 | 304 | 302 | 305 | 299 | 293 | 283 | 275 | 256 | 222 | 203 | 170 | 154 | 135 | 114 | 97,7 | 93,7 | 82,8 | | |
| | BV | 323 | 360 | 370 | 366 | 362 | 358 | 355 | 350 | 345 | 325 | 304 | 300 | 277 | 259 | 239 | 215 | 176 | 159 | 132 | 114 | 99,5 | 95,3 | 84,2 | 71,6 | 59,5 |
| 32 | Ot | 98,7 | 96,8 | 95 | 93,5 | 94,7 | 91,2 | 86,5 | 82,5 | 93,2 | 89,8 | 87,2 | 83,6 | 81,4 | 77,3 | 77,9 | 75,3 | 76,1 | 72,3 | 71,5 | 68,9 | 68,5 | 64 | 61,9 | | |
| | B | 269 | 267 | 265 | 263 | 289 | 287 | 283 | 281 | 285 | 280 | 274 | 266 | 260 | 247 | 218 | 199 | 167 | 150 | 132 | 112 | 96,3 | 91,9 | 81,5 | | |
| | BV | 288 | 326 | 345 | 343 | 338 | 335 | 331 | 328 | 324 | 311 | 292 | 288 | 267 | 249 | 235 | 212 | 174 | 156 | 132 | 114 | 98,1 | 93,5 | 82,9 | 70,6 | 59,5 |
| 34 | Ot | | 88,1 | 86,4 | 85,2 | 85,9 | 83,4 | 79 | 75,2 | 85,2 | 82 | 79,5 | 76 | 73,9 | 70,1 | 70,7 | 68,3 | 69,3 | 65,5 | 64,8 | 62,4 | 62,2 | 57,6 | 55,8 | | |
| | B | | 250 | 248 | 246 | 271 | 268 | 265 | 262 | 266 | 263 | 257 | 250 | 246 | 236 | 210 | 195 | 164 | 147 | 130 | 111 | 94,5 | 90,1 | 80 | | |
| | BV | | 297 | 319 | 322 | 317 | 314 | 311 | 307 | 305 | 297 | 281 | 276 | 257 | 240 | 227 | 209 | 172 | 154 | 132 | 114 | 96,5 | 91,8 | 81,5 | 69,5 | 59,5 |
| 36 | Ot | | 80,7 | 78,5 | 77,5 | 78,2 | 75,9 | 72,3 | 68,6 | 78,1 | 75 | 72,6 | 69,2 | 67,3 | 63,5 | 64,3 | 62 | 63,1 | 59,5 | 58,8 | 56,6 | 56,3 | 52 | 50,1 | | |
| | B | | 235 | 232 | 231 | 254 | 251 | 249 | 246 | 250 | 247 | 242 | 236 | 231 | 224 | 205 | 190 | 160 | 144 | 128 | 109 | 92,6 | 88,3 | 78,5 | | |
| | BV | | 270 | 294 | 302 | 298 | 295 | 292 | 289 | 287 | 282 | 270 | 265 | 249 | 232 | 220 | 206 | 169 | 151 | 132 | 112 | 94,7 | 90,1 | 80,1 | 68,3 | 59 |
| 38 | Ot | | | 72,3 | 71,1 | 71,5 | 69,4 | 66,3 | 62,7 | 71,7 | 68,7 | 66,5 | 63,1 | 61,2 | 57,6 | 58,6 | 56,3 | 57,4 | 54 | 53,3 | 51,3 | 51 | 46,8 | 44,9 | | |
| | B | | | 219 | 217 | 240 | 237 | 234 | 232 | 235 | 232 | 228 | 223 | 219 | 212 | 200 | 185 | 157 | 142 | 125 | 107 | 90,7 | 86,4 | 76,9 | | |
| | BV | | | 271 | 283 | 281 | 278 | 275 | 273 | 270 | 267 | 259 | 254 | 240 | 225 | 214 | 201 | 166 | 148 | 131 | 110 | 92,9 | 88,3 | 78,6 | 66,9 | 58,2 |
| 40 | Ot | | | 66,5 | 64,9 | 65,2 | 63,5 | 60,8 | 57,3 | 65,8 | 62,9 | 60,9 | 57,7 | 55,8 | 52,3 | 53,3 | 51,1 | 52,3 | 49 | 48,4 | 46,4 | 46,3 | 42 | 40,3 | | |
| | B | | | 207 | 205 | 226 | 224 | 221 | 218 | 221 | 218 | 215 | 210 | 207 | 201 | 196 | 182 | 152 | 139 | 123 | 105 | 88,9 | 84,6 | 75,5 | | |
| | BV | | | 250 | 264 | 264 | 263 | 259 | 257 | 255 | 251 | 247 | 243 | 232 | 218 | 207 | 195 | 163 | 146 | 129 | 108 | 91,1 | 86,6 | 77,1 | 65,6 | 57,2 |
| 44 | Ot | | | | 55 | 55 | 53,3 | 50,8 | 48,1 | 55,8 | 53,1 | 51,1 | 48 | 46,4 | 43,1 | 44,1 | 42 | 43,3 | 40,2 | 39,7 | 37,8 | 37,8 | 33,6 | 32 | | |
| | B | | | | 184 | 203 | 201 | 198 | 195 | 198 | 195 | 191 | 188 | 185 | 181 | 179 | 172 | 145 | 132 | 118 | 100 | 85,1 | 80,9 | 72,4 | | |
| | BV | | | | 229 | 235 | 234 | 232 | 229 | 227 | 225 | 222 | 219 | 214 | 204 | 195 | 185 | 157 | 140 | 124 | 104 | 87,4 | 83,1 | 74,2 | 62,8 | 55 |
| 48 | Ot | | | | 47,2 | 46,8 | 44,8 | 42,4 | 40,5 | 47,5 | 44,7 | 42,8 | 40 | 38,4 | 35,2 | 36,3 | 34,4 | 35,7 | 32,6 | 32,3 | 30,5 | 30,6 | 26,4 | 24,9 | | |
| | B | | | | 166 | 184 | 181 | 178 | 176 | 177 | 174 | 172 | 169 | 167 | 162 | 162 | 158 | 136 | 126 | 113 | 96,3 | 81,3 | 77,4 | 69,2 | | |
| | BV | | | | 196 | 212 | 210 | 208 | 206 | 204 | 201 | 200 | 197 | 194 | 189 | 184 | 175 | 150 | 135 | 120 | 99,7 | 83,6 | 79,5 | 71,2 | 60,1 | 52,9 |
| 52 | Ot | | | | | 40,1 | 38,2 | 35,5 | 33,5 | 40,3 | 37,8 | 36 | 33,1 | 31,6 | 28,4 | 29,7 | 27,8 | 29,3 | 26,3 | 25,9 | 24,2 | 24,4 | 20,3 | 18,7 | | |
| | B | | | | | 167 | 165 | 162 | 160 | 160 | 157 | 156 | 152 | 150 | 147 | 147 | 144 | 131 | 120 | 108 | 91,2 | 77,5 | 73,9 | 66,2 | | |
| | BV | | | | | 192 | 190 | 188 | 186 | 185 | 182 | 181 | 179 | 177 | 173 | 172 | 165 | 145 | 129 | 116 | 95,7 | 79,9 | 76 | 68,1 | 57,4 | 50,7 |
| 56 | Ot | | | | | | 32,6 | 29,9 | 27,7 | 33,8 | 31,8 | 30 | 27,2 | 25,8 | 22,6 | 24 | 22,1 | 23,6 | 20,7 | 20,4 | 18,8 | 18,9 | 14,9 | 13,4 | | |
| | B | | | | | | 150 | 148 | 146 | 144 | 143 | 141 | 139 | 136 | 133 | 134 | 131 | 126 | 114 | 103 | 86,8 | 74,3 | 70,8 | 63,1 | | |
| | BV | | | | | | 174 | 171 | 169 | 168 | 165 | 165 | 162 | 161 | 157 | 158 | 154 | 139 | 124 | 111 | 91,9 | 76,4 | 72,8 | 65,1 | 54,7 | 48,5 |

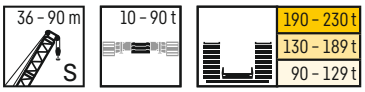



| m | | HSL 36 – 180 m | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 36 m | 42 m | 48 m | 54 m | 60 m | 66 m | 72 m | 78 m | 84 m | 90 m | 96 m | 102 m | 108 m | 114 m | 120 m | 126 m | 132 m | 138 m | 144 m | 150 m | 156 m | 162 m | 168 m | 174 m | 180 m |
| 60 | Ot | | | | | | | 25,1 | 23 | 28,2 | 26,5 | 24,9 | 22,1 | 20,6 | 17,5 | 19 | 17,1 | 18,7 | 15,8 | 15,6 | 14 | 14,2 | 10,2 | 8,7 | | |
| | B | | | | | | | 135 | 133 | 131 | 130 | 129 | 126 | 125 | 121 | 122 | 119 | 118 | 109 | 98,3 | 82,7 | 70,8 | 67,5 | 60,3 | | |
| | BV | | | | | | | 156 | 154 | 153 | 150 | 150 | 146 | 147 | 144 | 144 | 142 | 134 | 120 | 108 | 88,3 | 73,1 | 69,7 | 62,1 | 52,1 | 46,3 |
| 64 | Ot | | | | | | | | 18,5 | 23,7 | 21,8 | 20,4 | 17,7 | 16,2 | 13,2 | 14,6 | 12,7 | 14,3 | 11,4 | 11,3 | 9,7 | 10 | | | | |
| | B | | | | | | | | 122 | 120 | 118 | 117 | 116 | 114 | 111 | 111 | 109 | 109 | 104 | 95 | 78,7 | 67 | 63,8 | 57,4 | | |
| | BV | | | | | | | | 142 | 140 | 138 | 137 | 130 | 135 | 132 | 132 | 130 | 128 | 115 | 104 | 85 | 70 | 66,8 | 59,3 | 49,7 | 44,3 |
| 68 | Ot | | | | | | | | 15,3 | 19,7 | 17,7 | 16,5 | 13,8 | 12,3 | 9,3 | 10,7 | 8,8 | 10,4 | 7,6 | 7,4 | 5,9 | | | | | |
| | B | | | | | | | | 112 | 110 | 108 | 107 | 106 | 105 | 102 | 102 | 99,9 | 101 | 97,4 | 91,4 | 75,9 | 64,1 | 61,3 | 54,1 | | |
| | BV | | | | | | | | 131 | 129 | 127 | 126 | 116 | 124 | 121 | 122 | 120 | 120 | 111 | 100 | 81,8 | 67,2 | 64 | 56,7 | 47,4 | 42,4 |
| 72 | Ot | | | | | | | | | 16,1 | 14,3 | 13 | 10,4 | 8,8 | 5,8 | 7,3 | 5,3 | | | | | | | | | |
| | B | | | | | | | | | 101 | 99,5 | 98,4 | 96,7 | 95,9 | 93,3 | 94,2 | 91,7 | 92,5 | 89,3 | 87 | 72,3 | 61,4 | 58,2 | 51,6 | | |
| | BV | | | | | | | | | 119 | 117 | 116 | 105 | 114 | 111 | 113 | 111 | 111 | 107 | 97 | 78,7 | 64,4 | 61,5 | 54,2 | 45,3 | 40,6 |
| 76 | Ot | | | | | | | | | | 11,2 | 9,8 | 7,3 | 5,8 | | | | | | | | | | | | |
| | B | | | | | | | | | | 91,9 | 90,5 | 88,9 | 88 | 85,5 | 86,5 | 84,6 | 85,2 | 82,2 | 81,5 | 69,2 | 58,3 | 56 | 49,5 | | |
| | BV | | | | | | | | | | 108 | 107 | 96,2 | 105 | 103 | 104 | 103 | 103 | 99,6 | 93,7 | 75,9 | 61,9 | 59,2 | 51,9 | 43,4 | 38,9 |
| 80 | Ot | | | | | | | | | | | 7,1 | | | | | | | | | | | | | | |
| | B | | | | | | | | | | | 83,7 | 81,8 | 80,9 | 78,6 | 79,7 | 77,8 | 78,9 | 75,7 | 75,3 | 66,9 | 56 | 53,9 | 46,9 | | |
| | BV | | | | | | | | | | | 99,6 | 89,1 | 96,9 | 94,7 | 96,1 | 94,7 | 95,9 | 92,7 | 90,2 | 73,1 | 59,5 | 56,9 | 49,7 | 41,5 | 37,4 |
| 84 | Ot | | | | | | | | | | | | | | | | | | | | | | | | | |
| | B | | | | | | | | | | | | 75,5 | 74,5 | 72,2 | 73,6 | 71,8 | 72,7 | 70,1 | 69,5 | 64,5 | 53,6 | 51,7 | 44,8 | | |
| | BV | | | | | | | | | | | | 83,6 | 89,7 | 87,6 | 89,1 | 87,7 | 88,9 | 86,2 | 85,6 | 70,5 | 57,2 | 54,8 | 47,7 | 39,7 | 35,8 |
| 88 | Ot | | | | | | | | | | | | | | | | | | | | | | | | | |
| | B | | | | | | | | | | | | 69,9 | 68,8 | 66,5 | 67,9 | 66,3 | 67,3 | 64,5 | 64,2 | 61,2 | 51,3 | 49,7 | 42,9 | | |
| | BV | | | | | | | | | | | | 79,3 | 83,3 | 81,1 | 82,5 | 81,1 | 82,6 | 79,8 | 79,6 | 68,2 | 55,2 | 52,8 | 45,7 | 38,1 | 34,3 |
| 92 | Ot | | | | | | | | | | | | | | | | | | | | | | | | | |
| | B | | | | | | | | | | | | | 63,5 | 61,4 | 62,7 | 61 | 62,2 | 59,6 | 59 | 57 | 49,7 | 47,9 | 40,8 | | |
| | BV | | | | | | | | | | | | | 77,4 | 75,2 | 76,6 | 75,1 | 76,7 | 74,1 | 73,7 | 66 | 53,2 | 50,9 | 43,9 | 36,5 | 32,9 |
| 96 | Ot | | | | | | | | | | | | | | | | | | | | | | | | | |
| | B | | | | | | | | | | | | | | 56,6 | 57,9 | 56,3 | 57,5 | 55,1 | 54,5 | 52,9 | 48,3 | 45,8 | 39,5 | | |
| | BV | | | | | | | | | | | | | | 69,8 | 71,2 | 69,7 | 71,1 | 68,8 | 68,7 | 63,7 | 51,4 | 49,2 | 42,3 | 35,1 | 31,6 |
| 100 | Ot | | | | | | | | | | | | | | | | | | | | | | | | | |
| | B | | | | | | | | | | | | | | | 53,4 | 51,8 | 53,2 | 50,8 | 50,3 | 48,9 | 46,6 | 43,4 | 38,2 | | |
| | BV | | | | | | | | | | | | | | | 66,3 | 64,6 | 66,2 | 63,8 | 63,8 | 61 | 49,6 | 47,7 | 40,8 | 33,7 | 30,4 |
| 104 | Ot | | | | | | | | | | | | | | | | | | | | | | | | | |
| | B | | | | | | | | | | | | | | | 49,4 | 47,8 | 49 | 46,9 | 46,3 | 45,1 | 44,1 | 40,9 | 36,9 | | |
| | BV | | | | | | | | | | | | | | | 61,8 | 60 | 61,5 | 59,4 | 59,2 | 58,1 | 48,1 | 46,1 | 39,3 | 32,5 | 29,2 |
| 108 | Ot | | | | | | | | | | | | | | | | | | | | | | | | | |
| | B | | | | | | | | | | | | | | | | 44,1 | 45,3 | 43,1 | 42,8 | 41,5 | 41,1 | 38 | 35,3 | | |
| | BV | | | | | | | | | | | | | | | | 55,9 | 57,2 | 55 | 55 | 54,9 | 46,6 | 44,8 | 37,9 | 31,3 | 28,1 |
| 112 | Ot | | | | | | | | | | | | | | | | | | | | | | | | | |
| | B | | | | | | | | | | | | | | | | | 41,8 | 39,7 | 39,3 | 38,2 | 38,1 | 34,7 | 32,9 | | |
| | BV | | | | | | | | | | | | | | | | | 53,2 | 51,1 | 50,8 | 51 | 45,2 | 43,6 | 36,7 | 30,2 | 27,1 |
| 116 | Ot | | | | | | | | | | | | | | | | | | | | | | | | | |
| | B | | | | | | | | | | | | | | | | | | 36,4 | 36,1 | 35 | 35,1 | 31,5 | 30 | | |
| | BV | | | | | | | | | | | | | | | | | | 47,4 | 47,2 | 47,2 | 43,8 | 42,1 | 35,5 | 29,2 | 26,1 |
| 120 | Ot | | | | | | | | | | | | | | | | | | | | | | | | | |
| | B | | | | | | | | | | | | | | | | | | | 33 | 32 | 32,2 | 28,7 | 27,2 | | |
| | BV | | | | | | | | | | | | | | | | | | | 43,8 | 43,7 | 42,3 | 39,5 | 34,4 | 28,2 | 25,2 |
| 124 | Ot | | | | | | | | | | | | | | | | | | | | | | | | | |
| | B | | | | | | | | | | | | | | | | | | | 30,2 | 29,2 | 29,4 | 26 | 24,6 | | |
| | BV | | | | | | | | | | | | | | | | | | | 40,7 | 40,4 | 39,9 | 36,5 | 33 | 27,3 | 24,4 |
| 128 | Ot | | | | | | | | | | | | | | | | | | | | | | | | | |
| | B | | | | | | | | | | | | | | | | | | | | 26,6 | 26,7 | 23,5 | 22 | | |
| | BV | | | | | | | | | | | | | | | | | | | | 37,4 | 36,9 | 33,6 | 31,5 | 26,6 | 23,5 |
| 132 | Ot | | | | | | | | | | | | | | | | | | | | | | | | | |
| | B | | | | | | | | | | | | | | | | | | | | | 24,2 | 21,1 | 19,8 | | |
| | BV | | | | | | | | | | | | | | | | | | | | | 34,1 | 30,8 | 29,7 | 25,9 | 22,9 |
| 136 | Ot | | | | | | | | | | | | | | | | | | | | | | | | | |
| | B | | | | | | | | | | | | | | | | | | | | | | 19 | 18 | | |
| | BV | | | | | | | | | | | | | | | | | | | | | | 28 | 27,1 | 25 | 22,2 |
| 140 | Ot | | | | | | | | | | | | | | | | | | | | | | | | | |
| | B | | | | | | | | | | | | | | | | | | | | | | | 16,3 | | |
| | BV | | | | | | | | | | | | | | | | | | | | | | | 24,6 | 23 | 21,5 |
| 144 | Ot | | | | | | | | | | | | | | | | | | | | | | | | | |
| | B | | | | | | | | | | | | | | | | | | | | | | | 14,6 | | |
| | BV | | | | | | | | | | | | | | | | | | | | | | | 22,3 | 21 | 20,1 |
| 148 | Ot | | | | | | | | | | | | | | | | | | | | | | | | | |
| | B | | | | | | | | | | | | | | | | | | | | | | | | | |
| | BV | | | | | | | | | | | | | | | | | | | | | | | | 19,2 | 18,6 |
| 152 | Ot | | | | | | | | | | | | | | | | | | | | | | | | | |
| | B | | | | | | | | | | | | | | | | | | | | | | | | | |
| | BV | | | | | | | | | | | | | | | | | | | | | | | | | 17,1 |

005_HSLDB_033_HSLDBV

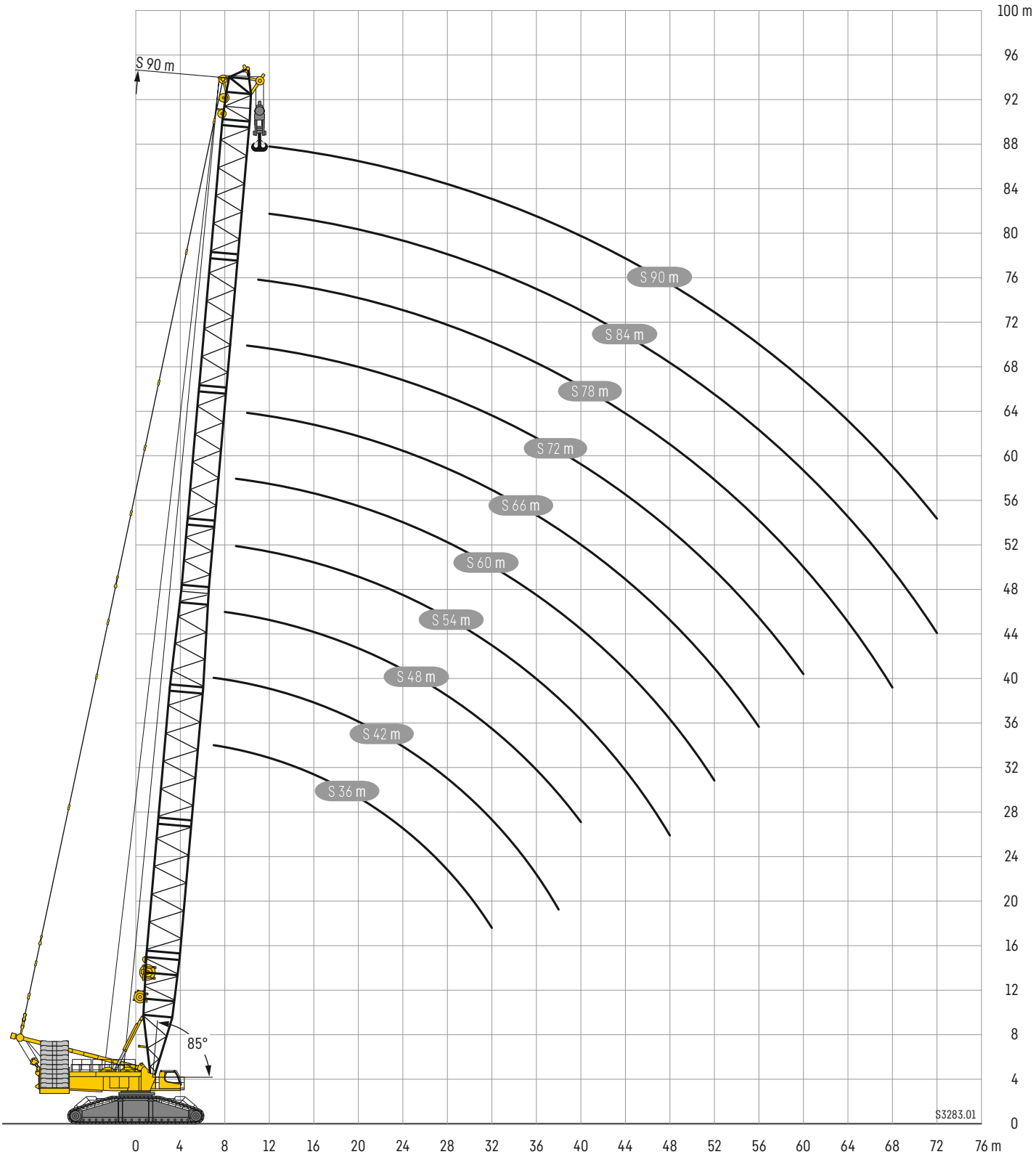
# HSLDB/HSLDBV






| m | S 36 – 90 m | | | | | | | | | | m |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 36 m | 42 m | 48 m | 54 m | 60 m | 66 m | 72 m | 78 m | 84 m | 90 m | |
| 7 | 634 | 642 | | | | | | | | | 7 |
| 8 | 573 | 571 | 562 | | | | | | | | 8 |
| 9 | 506 | 504 | 499 | 485 | 461 | | | | | | 9 |
| 10 | 450 | 444 | 444 | 429 | 410 | 390 | 228 | | | | 10 |
| 11 | 402 | 401 | 396 | 384 | 367 | 351 | 336 | 323 | | | 11 |
| 12 | 362 | 360 | 361 | 347 | 333 | 319 | 306 | 294 | 281 | 260 | 12 |
| 14 | 303 | 300 | 300 | 289 | 278 | 267 | 258 | 248 | 239 | 230 | 14 |
| 16 | 258 | 255 | 255 | 246 | 237 | 229 | 221 | 213 | 206 | 199 | 16 |
| 18 | 224 | 222 | 220 | 213 | 206 | 199 | 192 | 186 | 179 | 173 | 18 |
| 20 | 196 | 194 | 193 | 186 | 181 | 175 | 169 | 163 | 158 | 153 | 20 |
| 22 | 171 | 170 | 169 | 165 | 160 | 155 | 150 | 145 | 140 | 135 | 22 |
| 24 | 151 | 148 | 148 | 147 | 143 | 138 | 134 | 130 | 125 | 121 | 24 |
| 26 | 133 | 132 | 131 | 129 | 129 | 124 | 121 | 116 | 112 | 108 | 26 |
| 28 | 119 | 118 | 117 | 115 | 114 | 112 | 109 | 105 | 101 | 97,4 | 28 |
| 30 | 107 | 106 | 105 | 103 | 103 | 101 | 98,7 | 95,1 | 91,4 | 88,1 | 30 |
| 32 | 97 | 95,3 | 94,7 | 92,9 | 92,2 | 90,5 | 89,2 | 86,5 | 82,9 | 79,8 | 32 |
| 34 | | 86,7 | 85,9 | 84,5 | 83,2 | 81,6 | 80,6 | 78,5 | 75,5 | 72,3 | 34 |
| 36 | | 79,1 | 78 | 76,6 | 75,7 | 73,7 | 72,8 | 71,2 | 68,8 | 65,9 | 36 |
| 38 | | 72,4 | 71,6 | 70,1 | 69,1 | 67,2 | 65,9 | 64,5 | 62,6 | 60 | 38 |
| 40 | | | 65,6 | 63,9 | 62,9 | 61,4 | 59,9 | 58,3 | 56,7 | 54,5 | 40 |
| 44 | | | | 53,9 | 52,6 | 51 | 49,9 | 48 | 46,4 | 45 | 44 |
| 48 | | | | 46 | 44,7 | 42,9 | 41,5 | 40 | 38,1 | 36,4 | 48 |
| 52 | | | | | 38 | 36,2 | 34,6 | 32,9 | 31,3 | 29,6 | 52 |
| 56 | | | | | | 30,5 | 28,9 | 27,1 | 25,3 | 23,8 | 56 |
| 60 | | | | | | | 24 | 22,2 | 20,3 | 18,6 | 60 |
| 64 | | | | | | | | 17,9 | 16 | 14,3 | 64 |
| 68 | | | | | | | | 14,2 | 12,3 | 10,5 | 68 |
| 72 | | | | | | | | | 9,1 | 7,2 | 72 |

037_S


S 90 m
S 90 m
S 84 m
S 78 m
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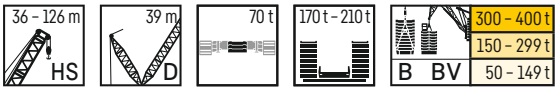
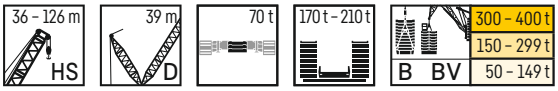


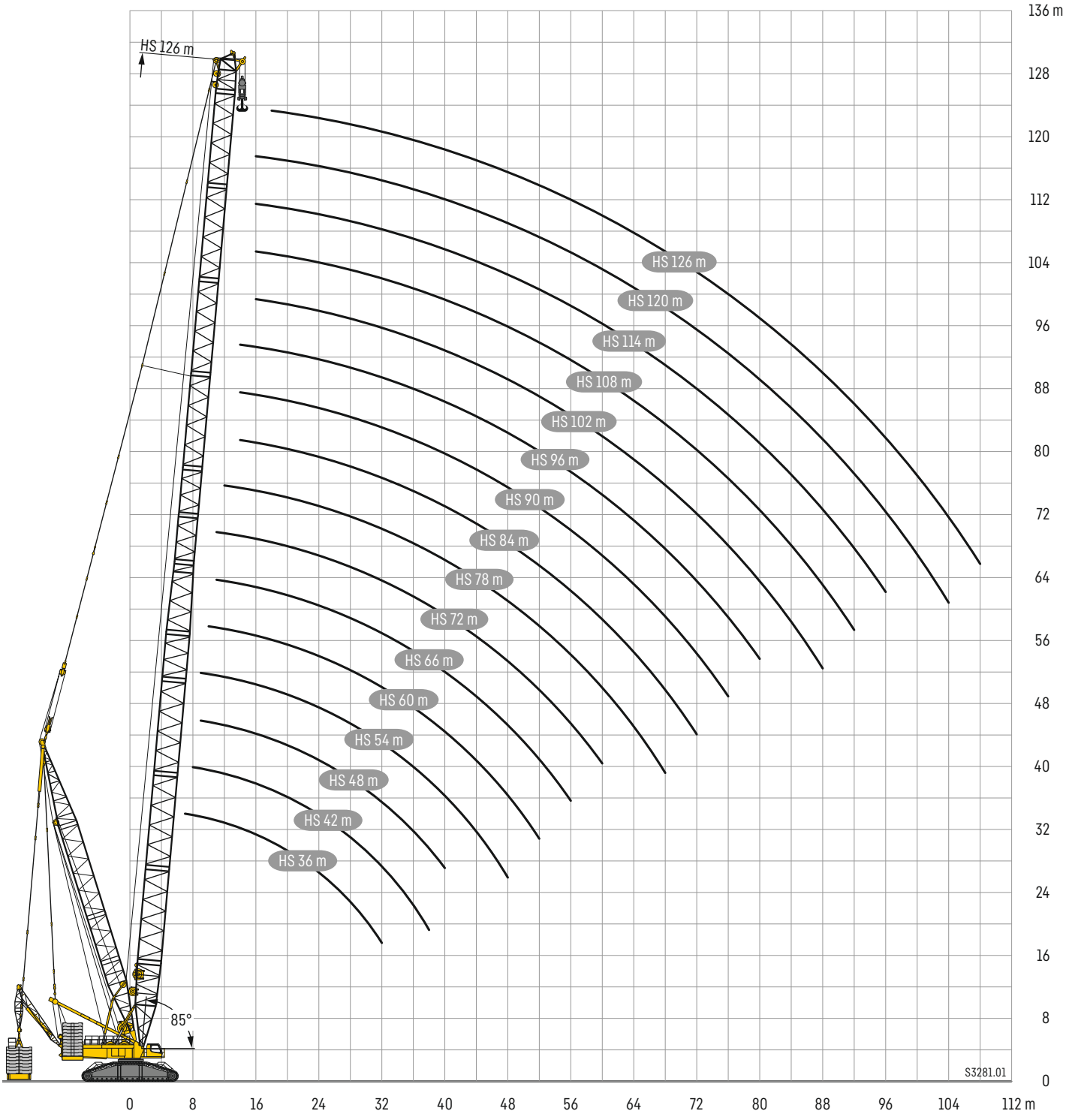

| m | | HS 36 – 126 m | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 36 m | 42 m | 48 m | 54 m | 60 m | 66 m | 72 m | 78 m | 84 m | 90 m | 96 m | 102 m | 108 m | 114 m | 120 m | 126 m |
| 7 | Ot | 636 | | | | | | | | | | | | | | | |
| | B | 650 | | | | | | | | | | | | | | | |
| | BV | 650 | | | | | | | | | | | | | | | |
| 8 | Ot | 563 | 557 | | | | | | | | | | | | | | |
| | B | 650 | 650 | | | | | | | | | | | | | | |
| | BV | 650 | 650 | | | | | | | | | | | | | | |
| 9 | Ot | 492 | 489 | 479 | 450 | | | | | | | | | | | | |
| | B | 650 | 650 | 650 | 650 | | | | | | | | | | | | |
| | BV | 650 | 650 | 650 | 650 | | | | | | | | | | | | |
| 10 | Ot | 435 | 433 | 420 | 398 | 388 | | | | | | | | | | | |
| | B | 650 | 650 | 650 | 650 | 650 | | | | | | | | | | | |
| | BV | 650 | 650 | 650 | 650 | 650 | | | | | | | | | | | |
| 11 | Ot | 389 | 387 | 374 | 355 | 347 | 372 | 356 | | | | | | | | | |
| | B | 650 | 650 | 650 | 650 | 650 | 650 | 614 | | | | | | | | | |
| | BV | 650 | 650 | 650 | 650 | 650 | 650 | 633 | | | | | | | | | |
| 12 | Ot | 351 | 349 | 336 | 320 | 314 | 337 | 324 | 312 | | | | | | | | |
| | B | 650 | 650 | 650 | 650 | 650 | 648 | 611 | 548 | | | | | | | | |
| | BV | 650 | 650 | 650 | 650 | 650 | 650 | 628 | 565 | | | | | | | | |
| 14 | Ot | 294 | 290 | 278 | 265 | 261 | 282 | 273 | 262 | 254 | 245 | 237 | 229 | | | | |
| | B | 620 | 616 | 611 | 604 | 608 | 605 | 576 | 541 | 486 | 433 | 387 | 346 | | | | |
| | BV | 650 | 650 | 650 | 650 | 646 | 625 | 594 | 558 | 503 | 447 | 399 | | | | | |
| 16 | Ot | 251 | 245 | 235 | 225 | 222 | 241 | 233 | 225 | 218 | 211 | 204 | 198 | 192 | 185 | 179 | |
| | B | 546 | 540 | 536 | 530 | 557 | 560 | 539 | 512 | 480 | 430 | 385 | 344 | 308 | 275 | 245 | |
| | BV | 650 | 650 | 648 | 634 | 603 | 582 | 558 | 531 | 498 | 447 | 399 | 355 | 316 | 281 | 251 | |
| 18 | Ot | 217 | 211 | 202 | 194 | 191 | 209 | 203 | 196 | 190 | 184 | 178 | 173 | 168 | 162 | 157 | 152 |
| | B | 483 | 481 | 476 | 472 | 511 | 517 | 502 | 483 | 459 | 427 | 383 | 342 | 306 | 273 | 244 | 218 |
| | BV | 621 | 615 | 600 | 582 | 558 | 542 | 524 | 502 | 476 | 442 | 399 | 355 | 316 | 281 | 251 | 223 |
| 20 | Ot | 189 | 184 | 177 | 169 | 167 | 183 | 178 | 172 | 167 | 161 | 157 | 152 | 148 | 142 | 138 | 134 |
| | B | 433 | 430 | 429 | 423 | 465 | 467 | 462 | 451 | 434 | 412 | 380 | 340 | 304 | 272 | 243 | 217 |
| | BV | 558 | 555 | 550 | 534 | 517 | 503 | 490 | 474 | 449 | 415 | 383 | 355 | 316 | 281 | 250 | 223 |
| 22 | Ot | 164 | 162 | 156 | 149 | 147 | 162 | 157 | 152 | 148 | 143 | 139 | 135 | 131 | 126 | 122 | 119 |
| | B | 393 | 390 | 388 | 385 | 421 | 426 | 421 | 416 | 408 | 392 | 371 | 338 | 303 | 270 | 242 | 216 |
| | BV | 497 | 505 | 501 | 495 | 477 | 468 | 459 | 445 | 422 | 389 | 361 | 340 | 316 | 281 | 250 | 222 |
| 24 | Ot | 144 | 141 | 139 | 133 | 131 | 144 | 141 | 136 | 132 | 127 | 124 | 120 | 117 | 112 | 109 | 105 |
| | B | 359 | 355 | 353 | 350 | 386 | 389 | 386 | 381 | 376 | 368 | 354 | 333 | 300 | 268 | 240 | 214 |
| | BV | 443 | 460 | 458 | 455 | 445 | 435 | 429 | 419 | 398 | 369 | 342 | 324 | 304 | 279 | 250 | 222 |
| 26 | Ot | 127 | 125 | 123 | 119 | 117 | 129 | 126 | 122 | 118 | 114 | 111 | 108 | 105 | 100 | 97,1 | 94 |
| | B | 330 | 327 | 324 | 321 | 354 | 358 | 355 | 352 | 348 | 339 | 331 | 319 | 296 | 265 | 235 | 211 |
| | BV | 396 | 424 | 422 | 418 | 413 | 406 | 401 | 394 | 376 | 349 | 325 | 309 | 289 | 272 | 249 | 221 |
| 28 | Ot | 113 | 111 | 110 | 107 | 106 | 117 | 114 | 110 | 106 | 102 | 99,4 | 96,6 | 94 | 89,5 | 86,8 | 83,9 |
| | B | 304 | 302 | 299 | 296 | 327 | 330 | 329 | 325 | 322 | 315 | 308 | 301 | 287 | 260 | 231 | 208 |
| | BV | 353 | 386 | 390 | 387 | 381 | 378 | 374 | 369 | 358 | 333 | 309 | 296 | 278 | 261 | 246 | 220 |
| 30 | Ot | 101 | 99,4 | 98,2 | 95,4 | 95,3 | 106 | 103 | 99 | 96,1 | 92,4 | 89,6 | 87 | 84,5 | 80,3 | 77,8 | 75,1 |
| | B | 282 | 280 | 278 | 274 | 303 | 306 | 305 | 302 | 299 | 294 | 287 | 281 | 273 | 255 | 227 | 204 |
| | BV | 316 | 352 | 363 | 359 | 355 | 350 | 349 | 345 | 339 | 319 | 297 | 283 | 266 | 250 | 237 | 218 |
| 32 | Ot | 91,8 | 89,3 | 88,3 | 85,9 | 86,3 | 95,9 | 93,5 | 89,9 | 87 | 83,6 | 80,9 | 78,4 | 76,2 | 72,1 | 69,8 | 67,2 |
| | B | 262 | 260 | 258 | 255 | 282 | 285 | 284 | 282 | 279 | 274 | 268 | 263 | 257 | 246 | 222 | 201 |
| | BV | 279 | 320 | 338 | 336 | 331 | 327 | 325 | 323 | 319 | 305 | 285 | 273 | 256 | 241 | 228 | 214 |
| 34 | Ot | | 81,2 | 79,7 | 77,6 | 78 | 87,4 | 85,2 | 81,7 | 79,1 | 75,6 | 73,2 | 70,8 | 68,7 | 64,8 | 62,7 | 60,1 |
| | B | | 244 | 242 | 239 | 264 | 266 | 265 | 263 | 261 | 257 | 251 | 246 | 242 | 234 | 218 | 197 |
| | BV | | 290 | 312 | 315 | 309 | 306 | 305 | 302 | 299 | 292 | 274 | 263 | 247 | 232 | 220 | 207 |
| 36 | Ot | | 73,9 | 72 | 69,8 | 70,5 | 79,7 | 77,8 | 74,4 | 71,9 | 68,7 | 66,2 | 64 | 62 | 58,2 | 56,2 | 53,8 |
| | B | | 228 | 226 | 224 | 247 | 249 | 249 | 246 | 245 | 241 | 236 | 232 | 227 | 221 | 212 | 194 |
| | BV | | 262 | 286 | 295 | 291 | 287 | 286 | 283 | 281 | 277 | 263 | 254 | 239 | 224 | 213 | 199 |
| 38 | Ot | | 67,5 | 65,7 | 63,3 | 64 | 72,5 | 71,2 | 67,9 | 65,4 | 62,4 | 60,1 | 57,8 | 55,9 | 52,3 | 50,4 | 48 |
| | B | | 215 | 213 | 210 | 233 | 234 | 233 | 231 | 229 | 226 | 222 | 219 | 214 | 208 | 203 | 189 |
| | BV | | 236 | 264 | 276 | 273 | 270 | 269 | 267 | 264 | 262 | 252 | 245 | 231 | 217 | 206 | 194 |
| 40 | Ot | | | 60 | 57,4 | 57,9 | 66 | 65,3 | 61,9 | 59,5 | 56,6 | 54,5 | 52,4 | 50,5 | 46,9 | 45,1 | 42,8 |
| | B | | | 201 | 198 | 219 | 221 | 220 | 217 | 216 | 212 | 209 | 206 | 202 | 197 | 192 | 183 |
| | BV | | | 242 | 256 | 256 | 254 | 253 | 251 | 249 | 246 | 240 | 235 | 223 | 210 | 199 | 188 |




| m | | HS 36 – 126 m | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 36 m | 42 m | 48 m | 54 m | 60 m | 66 m | 72 m | 78 m | 84 m | 90 m | 96 m | 102 m | 108 m | 114 m | 120 m | 126 m |
| 44 | Ot | | | | 47,7 | 48 | 54,8 | 54,5 | 51,8 | 49,6 | 46,7 | 44,7 | 42,7 | 41 | 37,6 | 35,8 | 33,7 |
| | B | | | | 177 | 196 | 196 | 196 | 194 | 192 | 189 | 186 | 183 | 181 | 176 | 173 | 168 |
| | BV | | | | 221 | 229 | 225 | 225 | 223 | 221 | 220 | 217 | 213 | 207 | 196 | 188 | 177 |
| 48 | Ot | | | | 40,3 | 40 | 45,7 | 45,3 | 43,5 | 41,2 | 38,4 | 36,4 | 34,5 | 33 | 29,7 | 28 | 26,1 |
| | B | | | | 159 | 177 | 175 | 175 | 173 | 172 | 169 | 166 | 164 | 162 | 158 | 155 | 152 |
| | BV | | | | 188 | 205 | 202 | 202 | 200 | 198 | 197 | 195 | 192 | 189 | 183 | 176 | 167 |
| 52 | Ot | | | | | 33,4 | 38,4 | 37,8 | 36 | 34,2 | 31,5 | 29,5 | 27,7 | 26,2 | 22,9 | 21,3 | 19,4 |
| | B | | | | | 161 | 158 | 157 | 155 | 154 | 152 | 150 | 148 | 146 | 142 | 140 | 137 |
| | BV | | | | | 186 | 183 | 182 | 180 | 179 | 177 | 176 | 174 | 171 | 168 | 165 | 157 |
| 56 | Ot | | | | | | 32,3 | 31,6 | 29,7 | 28,2 | 25,4 | 23,6 | 21,7 | 20,2 | 17 | 15,5 | 13,7 |
| | B | | | | | | 143 | 142 | 140 | 139 | 137 | 136 | 134 | 132 | 128 | 126 | 124 |
| | BV | | | | | | 166 | 165 | 164 | 161 | 161 | 159 | 157 | 155 | 153 | 150 | 146 |
| 60 | Ot | | | | | | | 26,4 | 24,3 | 22,8 | 20,3 | 18,4 | 16,5 | 15,1 | 11,9 | 10,5 | 8,6 |
| | B | | | | | | | 130 | 128 | 126 | 124 | 123 | 122 | 120 | 116 | 114 | 112 |
| | BV | | | | | | | 151 | 149 | 147 | 146 | 145 | 143 | 142 | 139 | 137 | 134 |
| 64 | Ot | | | | | | | | 19,7 | 18,2 | 15,9 | 14 | 12,1 | 10,6 | 7,5 | | |
| | B | | | | | | | | 116 | 115 | 113 | 112 | 111 | 109 | 106 | 104 | 102 |
| | BV | | | | | | | | 136 | 134 | 133 | 132 | 130 | 129 | 127 | 125 | 123 |
| 68 | Ot | | | | | | | | 15,9 | 14,2 | 12,1 | 10,1 | 8,1 | 6,7 | | | |
| | B | | | | | | | | 107 | 105 | 103 | 102 | 101 | 99,8 | 96,9 | 94,7 | 92,6 |
| | BV | | | | | | | | 125 | 123 | 122 | 121 | 119 | 118 | 117 | 115 | 112 |
| 72 | Ot | | | | | | | | | 10,7 | 8,7 | 6,7 | | | | | |
| | B | | | | | | | | | 96,2 | 94,1 | 93 | 91,8 | 91 | 88,5 | 86,7 | 84,4 |
| | BV | | | | | | | | | 114 | 112 | 111 | 109 | 108 | 107 | 106 | 103 |
| 76 | Ot | | | | | | | | | | 5,7 | | | | | | |
| | B | | | | | | | | | | 86,7 | 85,2 | 83,9 | 83 | 80,7 | 79,3 | 77,3 |
| | BV | | | | | | | | | | 103 | 102 | 100 | 99,4 | 97,7 | 96,8 | 95,2 |
| 80 | Ot | | | | | | | | | | | | | | | | |
| | B | | | | | | | | | | | 78,3 | 76,9 | 75,9 | 73,7 | 72,5 | 70,5 |
| | BV | | | | | | | | | | | 94,3 | 92,5 | 91,4 | 89,8 | 89 | 87,5 |
| 84 | Ot | | | | | | | | | | | | | | | | |
| | B | | | | | | | | | | | | 70,7 | 69,6 | 67,3 | 66,4 | 64,5 |
| | BV | | | | | | | | | | | | 85,4 | 84,2 | 82,6 | 81,9 | 80,4 |
| 88 | Ot | | | | | | | | | | | | | | | | |
| | B | | | | | | | | | | | | 65 | 63,8 | 61,6 | 60,6 | 59 |
| | BV | | | | | | | | | | | | 79 | 77,8 | 76,2 | 75,2 | 73,8 |
| 92 | Ot | | | | | | | | | | | | | | | | |
| | B | | | | | | | | | | | | | 58,6 | 56,3 | 55,3 | 53,8 |
| | BV | | | | | | | | | | | | | 71,9 | 70,3 | 69,2 | 67,7 |
| 96 | Ot | | | | | | | | | | | | | | | | |
| | B | | | | | | | | | | | | | | 51,5 | 50,5 | 48,9 |
| | BV | | | | | | | | | | | | | | 64,9 | 63,8 | 62,3 |
| 100 | Ot | | | | | | | | | | | | | | | | |
| | B | | | | | | | | | | | | | | | 46 | 44,4 |
| | BV | | | | | | | | | | | | | | | 59 | 57,3 |
| 104 | Ot | | | | | | | | | | | | | | | | |
| | B | | | | | | | | | | | | | | | 42,1 | 40,5 |
| | BV | | | | | | | | | | | | | | | 54,5 | 52,7 |
| 108 | Ot | | | | | | | | | | | | | | | | |
| | B | | | | | | | | | | | | | | | | 36,7 |
| | BV | | | | | | | | | | | | | | | | 48,4 |

002_HSDB_030_HSDBV

# HSDB/HSDBV


HS 126 m
HS 120 m
HS 114 m
HS 108 m
HS 102 m
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HS 78 m
HS 72 m
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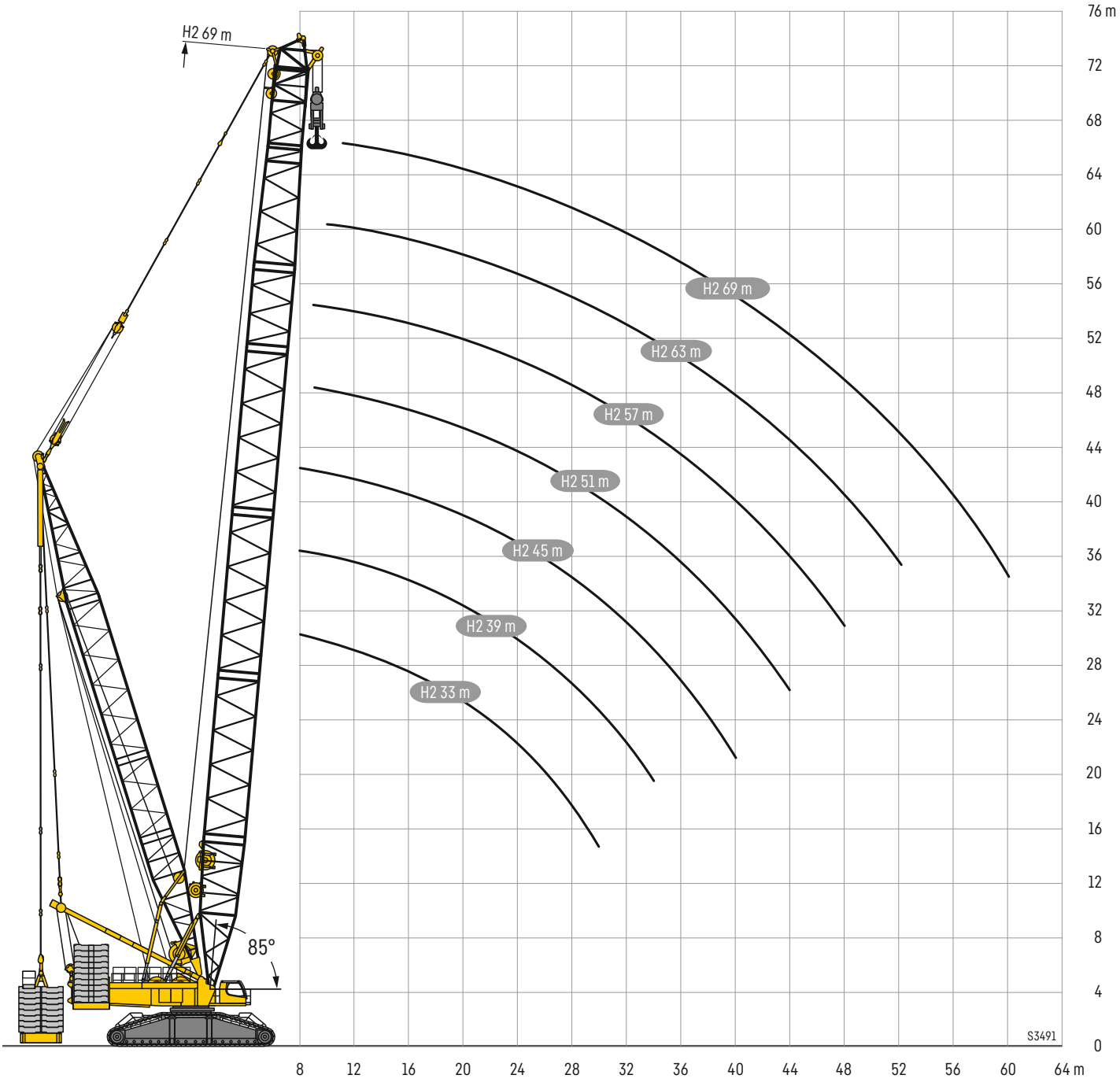
112 m

| m | | H2 33 – 69 m | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 33 m | 39 m | 45 m | 51 m | 57 m | 63 m | 69 m |
| 7 | B | 800 | | | | | | |
| | BV | 800 | | | | | | |
| | BW | 800 | | | | | | |
| 8 | B | 800 | 800 | 800 | | | | |
| | BV | 800 | 800 | 800 | | | | |
| | BW | 800 | 800 | 800 | | | | |
| 9 | B | 800 | 800 | 800 | 800 | 782 | | |
| | BV | 800 | 800 | 800 | 800 | 800 | | |
| | BW | 800 | 800 | 800 | 800 | 800 | | |
| 10 | B | 800 | 800 | 800 | 792 | 748 | 725 | |
| | BV | 800 | 800 | 800 | 800 | 796 | | |
| | BW | 800 | 800 | 800 | 800 | 797 | 745 | |
| 11 | B | 781 | 778 | 772 | 751 | 713 | 698 | 650 |
| | BV | 790 | 795 | 800 | 798 | 768 | 715 | |
| | BW | 780 | 798 | 800 | 800 | 771 | 719 | 671 |
| 12 | B | 725 | 719 | 713 | 702 | 679 | 671 | 634 |
| | BV | 756 | 775 | 785 | 779 | 738 | 690 | 651 |
| | BW | 765 | 785 | 791 | 782 | 740 | 694 | 654 |
| 14 | B | 626 | 620 | 615 | 608 | 600 | 618 | 591 |
| | BV | 715 | 728 | 735 | 712 | 679 | 640 | 611 |
| | BW | 726 | 745 | 738 | 714 | 681 | 643 | 614 |
| 16 | B | 547 | 544 | 540 | 534 | 527 | 569 | 549 |
| | BV | 685 | 678 | 670 | 651 | 624 | 592 | 571 |
| | BW | 691 | 679 | 671 | 653 | 626 | 595 | 573 |
| 18 | B | 486 | 482 | 480 | 475 | 469 | 521 | 510 |
| | BV | 614 | 616 | 610 | 596 | 575 | 549 | 533 |
| | BW | 614 | 617 | 611 | 597 | 576 | 551 | 535 |
| 20 | B | 436 | 433 | 430 | 427 | 422 | 471 | 465 |
| | BV | 537 | 558 | 555 | 545 | 529 | 509 | 496 |
| | BW | 537 | 559 | 556 | 547 | 530 | 510 | 498 |
| 22 | B | 395 | 392 | 389 | 386 | 383 | 428 | 424 |
| | BV | 473 | 507 | 503 | 499 | 489 | 471 | 463 |
| | BW | 473 | 508 | 505 | 501 | 490 | 472 | 465 |
| 24 | B | 361 | 358 | 355 | 351 | 349 | 392 | 388 |
| | BV | 417 | 460 | 460 | 456 | 452 | 438 | 431 |
| | BW | 417 | 460 | 462 | 457 | 454 | 439 | 432 |
| 26 | B | 331 | 329 | 326 | 323 | 320 | 360 | 357 |
| | BV | 369 | 415 | 424 | 421 | 416 | 408 | 403 |
| | BW | 370 | 415 | 424 | 421 | 417 | 409 | 404 |
| 28 | B | 306 | 303 | 301 | 298 | 295 | 332 | 331 |
| | BV | 327 | 373 | 392 | 389 | 385 | 379 | 376 |
| | BW | 327 | 373 | 392 | 389 | 386 | 380 | 377 |
| 30 | B | 279 | 281 | 280 | 276 | 273 | 308 | 306 |
| | BV | 287 | 336 | 361 | 361 | 358 | 353 | 351 |
| | BW | 287 | 336 | 361 | 362 | 359 | 354 | 351 |
| 32 | B | | 262 | 260 | 257 | 254 | 287 | 285 |
| | BV | | 304 | 332 | 337 | 333 | 329 | 327 |
| | BW | | 303 | 332 | 338 | 334 | 330 | 328 |
| 34 | B | | 245 | 243 | 240 | 237 | 268 | 267 |
| | BV | | 272 | 303 | 315 | 313 | 308 | 306 |
| | BW | | 272 | 303 | 315 | 313 | 309 | 307 |
| 36 | B | | | 228 | 225 | 223 | 251 | 250 |
| | BV | | | 278 | 293 | 294 | 289 | 287 |
| | BW | | | 278 | 293 | 295 | 290 | 288 |
| 38 | B | | | 215 | 212 | 209 | 236 | 234 |
| | BV | | | 254 | 271 | 277 | 272 | 270 |
| | BW | | | 254 | 271 | 277 | 272 | 270 |
| 40 | B | | | 203 | 200 | 197 | 223 | 221 |
| | BV | | | 230 | 251 | 259 | 256 | 254 |
| | BW | | | 230 | 252 | 260 | 257 | 255 |
| 44 | B | | | | 179 | 176 | 198 | 197 |
| | BV | | | | 214 | 227 | 228 | 226 |
| | BW | | | | 214 | 227 | 228 | 227 |
| 48 | B | | | | | 159 | 177 | 176 |
| | BV | | | | | 197 | 204 | 203 |
| | BW | | | | | 197 | 205 | 203 |
| 52 | B | | | | | | 160 | 158 |
| | BV | | | | | | 185 | 183 |
| | BW | | | | | | 185 | 184 |
| 56 | B | | | | | | | 143 |
| | BV | | | | | | | 166 |
| | BW | | | | | | | 167 |
| 60 | B | | | | | | | 131 |
| | BV | | | | | | | 152 |
| | BW | | | | | | | 153 |


H2 69 m
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H2 69 m
H2 63 m
H2 57 m
H2 51 m
H2 45 m
H2 39 m
H2 33 m
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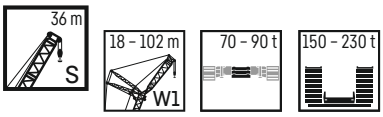
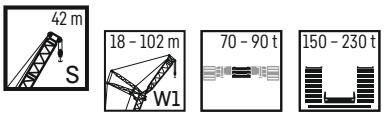
64 m



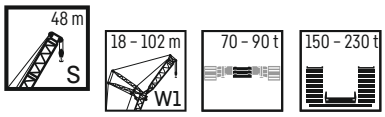

| m | S 36 m | | | | | | | | | | | | | | | | | | | | | | m |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W1 18 m | | W1 24 m | | W1 30 m | | W1 36 m | | W1 48 m | | W1 60 m | | W1 72 m | | W1 84 m | | W1 90 m | | W1 96 m | | W1 102 m | | |
| | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | |
| 10 | 448,0 | 448,0 | | | | | | | | | | | | | | | | | | | | | 10 |
| 11 | 409,0 | 409,0 | | | | | | | | | | | | | | | | | | | | | 11 |
| 12 | 372,0 | 372,0 | 356,0 | 356,0 | | | | | | | | | | | | | | | | | | | 12 |
| 14 | 315,0 | 315,0 | 303,0 | 303,0 | 292,0 | 292,0 | | | | | | | | | | | | | | | | | 14 |
| 16 | 273,0 | 273,0 | 263,0 | 263,0 | 254,0 | 254,0 | 246,0 | 246,0 | | | | | | | | | | | | | | | 16 |
| 18 | 239,0 | 239,0 | 232,0 | 232,0 | 225,0 | 225,0 | 218,0 | 218,0 | | | | | | | | | | | | | | | 18 |
| 20 | 212,0 | 212,0 | 207,0 | 207,0 | 201,0 | 201,0 | 195,0 | 195,0 | 184,0 | 184,0 | | | | | | | | | | | | | 20 |
| 22 | 189,0 | 189,0 | 187,0 | 187,0 | 182,0 | 182,0 | 176,0 | 176,0 | 166,0 | 166,0 | 158,0 | 158,0 | | | | | | | | | | | 22 |
| 24 | | 167,0[11] | 171,0 | 171,0 | 165,0 | 165,0 | 161,0 | 161,0 | 152,0 | 152,0 | 144,0 | 144,0 | | | | | | | | | | | 24 |
| 26 | | 148,0[11] | 155,0 | 155,0 | 152,0 | 152,0 | 147,0 | 147,0 | 139,0 | 139,0 | 132,0 | 132,0 | 125,0 | 125,0 | | | | | | | | | 26 |
| 28 | | 132,0[11] | 142,0 | 142,0 | 140,0 | 140,0 | 136,0 | 136,0 | 128,0 | 128,0 | 122,0 | 122,0 | 115,0 | 115,0 | 109,0 | 109,0 | | | | | | | 28 |
| 30 | | 117,0[10] | | 126,0[11] | 130,0 | 130,0 | 126,0 | 126,0 | 119,0 | 119,0 | 113,0 | 113,0 | 106,0 | 106,0 | 101,0 | 101,0 | 97,7 | 97,7 | | | | | 30 |
| 32 | | 104,0[9] | | 112,0[11] | 119,0 | 119,0 | 118,0 | 118,0 | 110,0 | 110,0 | 105,0 | 105,0 | 98,9 | 98,9 | 94,0 | 94,0 | 90,8 | 90,8 | 86,8 | 86,8 | | | 32 |
| 34 | | 93,0[9] | | 101,0[11] | 110,0 | 110,0 | 110,0 | 110,0 | 103,0 | 103,0 | 98,3 | 98,3 | 92,2 | 92,2 | 87,5 | 87,5 | 84,5 | 84,5 | 80,6 | 80,6 | 77,9 | 77,9 | 34 |
| 36 | | 82,9[8] | | 90,5[11] | | 97,9[11] | 102,0 | 102,0 | 96,6 | 96,6 | 92,0 | 92,0 | 86,1 | 86,1 | 81,8 | 81,8 | 78,8 | 78,8 | 75,0 | 75,0 | 72,4 | 72,4 | 36 |
| 38 | | 74,0[7] | | 81,3[10] | | 88,3[11] | 94,4 | 94,4 | 90,8 | 90,8 | 86,4 | 86,4 | 80,7 | 80,7 | 76,5 | 76,5 | 73,8 | 73,8 | 69,9 | 69,9 | 67,5 | 67,5 | 38 |
| 40 | | 66,7[7] | | 73,4[10] | | 80,3[11] | 88,0 | 88,0 | 85,6 | 85,6 | 81,2 | 81,2 | 75,7 | 75,7 | 71,7 | 71,7 | 69,0 | 69,0 | 65,4 | 65,4 | 62,9 | 62,9 | 40 |
| 44 | | 53,4[5] | | 59,1[8] | | 65,4[10] | | 71,1[11] | 75,6 | 75,6 | 72,3 | 72,3 | 67,0 | 67,0 | 63,4 | 63,4 | 60,8 | 60,8 | 57,3 | 57,3 | 55,0 | 55,0 | 44 |
| 48 | | | | 47,9[7] | | 53,4[9] | | 59,2[11] | 66,8 | 66,8 | 64,9 | 64,9 | 59,8 | 59,8 | 56,3 | 56,3 | 53,8 | 53,8 | 50,4 | 50,4 | 48,3 | 48,3 | 48 |
| 52 | | | | | | 43,5[8] | | 48,6[10] | 59,4 | 59,4 | 57,7 | 57,7 | 53,6 | 53,6 | 50,2 | 50,2 | 47,9 | 47,9 | 44,6 | 44,6 | 42,5 | 42,5 | 52 |
| 56 | | | | | | 34,8[6] | | 39,1[8] | | 47,7[11] | 51,3 | 51,3 | 48,2 | 48,2 | 45,0 | 45,0 | 42,7 | 42,7 | 39,4 | 39,4 | 37,5 | 37,5 | 56 |
| 60 | | | | | | | | 31,5[7] | | 39,9[11] | 45,9 | 45,9 | 43,2 | 43,2 | 40,4 | 40,4 | 38,2 | 38,2 | 35,0 | 35,0 | 33,1 | 33,1 | 60 |
| 64 | | | | | | | | | | 32,5[11] | 41,8 | 41,8 | 38,1 | 38,1 | 36,2 | 36,2 | 34,3 | 34,3 | 31,1 | 31,1 | 29,3 | 29,3 | 64 |
| 68 | | | | | | | | | | 26,1[9] | | 32,2[11] | 34,0 | 34,0 | 32,1 | 32,1 | 30,6 | 30,6 | 27,6 | 27,6 | 25,8 | 25,8 | 68 |
| 72 | | | | | | | | | | 20,4[8] | | 26,9[11] | 30,5 | 30,5 | 28,8 | 28,8 | 27,4 | 27,4 | 24,5 | 24,5 | 22,7 | 22,7 | 72 |
| 76 | | | | | | | | | | | | 22,2[11] | 27,9 | 27,9 | 25,9 | 25,9 | 24,7 | 24,7 | 21,8 | 21,8 | 20,0 | 20,0 | 76 |
| 80 | | | | | | | | | | | | 16,4[9] | | 20,4[11] | 23,4 | 23,4 | 22,0 | 22,0 | 19,0 | 19,0 | 17,5 | 17,5 | 80 |
| 84 | | | | | | | | | | | | 12,3[8] | | 16,1[11] | 20,9 | 20,9 | 18,8 | 18,8 | 16,8 | 16,8 | 15,3 | 15,3 | 84 |
| 88 | | | | | | | | | | | | | | 12,4[11] | 18,1 | 18,1 | 16,8 | 16,8 | 14,9 | 14,9 | 13,3 | 13,3 | 88 |
| 92 | | | | | | | | | | | | | | 7,4[8] | | 12,5[11] | 15,2 | 15,2 | 13,2 | 13,2 | 11,5 | 11,5 | 92 |
| 96 | | | | | | | | | | | | | | | | 9,3[11] | | 10,4[11] | 11,7 | 11,7 | 9,9 | 9,9 | 96 |
| 100 | | | | | | | | | | | | | | | | | | | 10,5 | 10,5 | 8,5 | 8,5 | 100 |
| 104 | | | | | | | | | | | | | | | | | | | | | 7,4 | 7,4 | 104 |

1) 12°; 2) 17°; 3) 22°; 4) 27°; 5) 32°; 6) 37°; 7) 42°; 8) 47°; 9) 52°; 10) 57°; 11) 62°



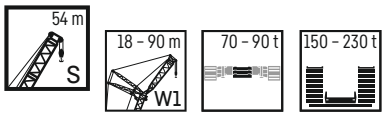

| m | S 42 m | | | | | | | | | | | | | | | | | | | | | | m |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W1 18 m | | W1 24 m | | W1 30 m | | W1 36 m | | W1 48 m | | W1 60 m | | W1 72 m | | W1 84 m | | W1 90 m | | W1 96 m | | W1 102 m | | |
| | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | |
| 11 | 388,0 | 388,0 | | | | | | | | | | | | | | | | | | | | | 11 |
| 12 | 355,0 | 355,0 | | | | | | | | | | | | | | | | | | | | | 12 |
| 14 | 302,0 | 302,0 | 291,0 | 291,0 | 280,0 | 280,0 | | | | | | | | | | | | | | | | | 14 |
| 16 | 262,0 | 262,0 | 254,0 | 254,0 | 245,0 | 245,0 | 237,0 | 237,0 | | | | | | | | | | | | | | | 16 |
| 18 | 232,0 | 232,0 | 224,0 | 224,0 | 217,0 | 217,0 | 210,0 | 210,0 | | | | | | | | | | | | | | | 18 |
| 20 | 208,0 | 208,0 | 201,0 | 201,0 | 194,0 | 194,0 | 189,0 | 189,0 | 179,0 | 179,0 | | | | | | | | | | | | | 20 |
| 22 | 187,0 | 187,0 | 182,0 | 182,0 | 176,0 | 176,0 | 171,0 | 171,0 | 162,0 | 162,0 | 153,0 | 153,0 | | | | | | | | | | | 22 |
| 24 | | 166,0[11] | 166,0 | 166,0 | 160,0 | 160,0 | 156,0 | 156,0 | 148,0 | 148,0 | 140,0 | 140,0 | | | | | | | | | | | 24 |
| 26 | | 147,0[11] | 153,0 | 153,0 | 147,0 | 147,0 | 143,0 | 143,0 | 136,0 | 136,0 | 129,0 | 129,0 | 121,0 | 121,0 | | | | | | | | | 26 |
| 28 | | 131,0[11] | 141,0 | 141,0 | 136,0 | 136,0 | 132,0 | 132,0 | 126,0 | 126,0 | 119,0 | 119,0 | 112,0 | 112,0 | | | | | | | | | 28 |
| 30 | | 117,0[11] | | 125,0[11] | 126,0 | 126,0 | 123,0 | 123,0 | 116,0 | 116,0 | 110,0 | 110,0 | 103,0 | 103,0 | 98,3 | 98,3 | 94,0 | 94,0 | | | | | 30 |
| 32 | | 104,0[10] | | 113,0[11] | 118,0 | 118,0 | 114,0 | 114,0 | 108,0 | 108,0 | 102,0 | 102,0 | 96,2 | 96,2 | 91,3 | 91,3 | 88,2 | 88,2 | 84,1 | 84,1 | | | 32 |
| 34 | | 91,9[9] | | 101,0[11] | 110,0 | 110,0 | 107,0 | 107,0 | 101,0 | 101,0 | 95,6 | 95,6 | 89,6 | 89,6 | 85,1 | 85,1 | 82,0 | 82,0 | 78,1 | 78,1 | 75,3 | 75,3 | 34 |
| 36 | | 82,4[9] | | 90,5[11] | | 97,6[11] | 101,0 | 101,0 | 94,9 | 94,9 | 89,5 | 89,5 | 83,7 | 83,7 | 79,5 | 79,5 | 76,5 | 76,5 | 72,7 | 72,7 | 70,1 | 70,1 | 36 |
| 38 | | 73,2[8] | | 81,2[11] | | 87,9[11] | 94,0 | 94,0 | 89,2 | 89,2 | 84,1 | 84,1 | 78,4 | 78,4 | 74,4 | 74,4 | 71,6 | 71,6 | 67,8 | 67,8 | 65,3 | 65,3 | 38 |
| 40 | | 65,9[8] | | 72,9[10] | | 79,6[11] | 87,5 | 87,5 | 84,0 | 84,0 | 79,1 | 79,1 | 73,6 | 73,6 | 69,6 | 69,6 | 67,0 | 67,0 | 63,4 | 63,4 | 60,9 | 60,9 | 40 |
| 44 | | 52,5[6] | | 58,7[9] | | 65,2[11] | | 70,6[11] | 75,2 | 75,2 | 70,4 | 70,4 | 65,1 | 65,1 | 61,6 | 61,6 | 59,0 | 59,0 | 55,5 | 55,5 | 53,2 | 53,2 | 44 |
| 48 | | 42,0[5] | | 47,5[8] | | 53,1[10] | | 58,5[11] | 66,9 | 66,9 | 63,2 | 63,2 | 58,1 | 58,1 | 54,6 | 54,6 | 52,1 | 52,1 | 48,7 | 48,7 | 46,7 | 46,7 | 48 |
| 52 | | | | 38,1[7] | | 42,9[9] | | 47,7[10] | 59,5 | 59,5 | 57,0 | 57,0 | 52,0 | 52,0 | 48,7 | 48,7 | 46,4 | 46,4 | 43,1 | 43,1 | 41,0 | 41,0 | 52 |
| 56 | | | | | | 33,9[7] | | 38,4[9] | | 47,3[11] | 50,8 | 50,8 | 46,9 | 46,9 | 43,6 | 43,6 | 41,3 | 41,3 | 38,1 | 38,1 | 36,1 | 36,1 | 56 |
| 60 | | | | | | 26,9[6] | | 30,7[8] | | 39,2[11] | 45,5 | 45,5 | 42,4 | 42,4 | 39,2 | 39,2 | 36,9 | 36,9 | 33,7 | 33,7 | 31,8 | 31,8 | 60 |
| 64 | | | | | | | | 24,4[7] | | 32,0[11] | 41,3 | 41,3 | 37,7 | 37,7 | 35,2 | 35,2 | 33,1 | 33,1 | 29,9 | 29,9 | 28,0 | 28,0 | 64 |
| 68 | | | | | | | | | | 26,0[10] | | 31,5[11] | 33,6 | 33,6 | 31,7 | 31,7 | 29,6 | 29,6 | 26,5 | 26,5 | 24,7 | 24,7 | 68 |
| 72 | | | | | | | | | | 20,3[9] | | 26,3[11] | 30,1 | 30,1 | 28,4 | 28,4 | 26,6 | 26,6 | 23,4 | 23,4 | 21,7 | 21,7 | 72 |
| 76 | | | | | | | | | | 15,0[8] | | 21,5[11] | 27,5 | 27,5 | 25,6 | 25,6 | 23,9 | 23,9 | 20,7 | 20,7 | 19,0 | 19,0 | 76 |
| 80 | | | | | | | | | | | | 16,0[10] | | 20,0[11] | 22,9 | 22,9 | 21,4 | 21,4 | 18,3 | 18,3 | 16,6 | 16,6 | 80 |
| 84 | | | | | | | | | | | | 11,9[9] | | 15,5[11] | 20,4 | 20,4 | 18,7 | 18,7 | 16,1 | 16,1 | 14,4 | 14,4 | 84 |
| 88 | | | | | | | | | | | | 7,7[8] | | 12,1[11] | 17,8 | 17,8 | 16,5 | 16,5 | 14,2 | 14,2 | 12,4 | 12,4 | 88 |
| 92 | | | | | | | | | | | | | | | | 12,0[11] | 14,9 | 14,9 | 12,4 | 12,4 | 10,6 | 10,6 | 92 |
| 96 | | | | | | | | | | | | | | | | 7,6[10] | | 9,5[11] | 10,9 | 10,9 | 9,1 | 9,1 | 96 |
| 100 | | | | | | | | | | | | | | | | | | 6,2[11] | 9,9 | 9,9 | 7,7 | 7,7 | 100 |
| 104 | | | | | | | | | | | | | | | | | | | | | 6,6 | 6,6 | 104 |

1) 12°; 2) 17°; 3) 22°; 4) 27°; 5) 32°; 6) 37°; 7) 42°; 8) 47°; 9) 52°; 10) 57°; 11) 62°



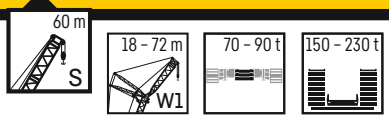

| m | S 48 m | | | | | | | | | | | | | | | | | | | | | | m |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W1 18 m | | W1 24 m | | W1 30 m | | W1 36 m | | W1 48 m | | W1 60 m | | W1 72 m | | W1 84 m | | W1 90 m | | W1 96 m | | W1 102 m | | |
| | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | |
| 11 | 370,0 | 370,0 | | | | | | | | | | | | | | | | | | | | | 11 |
| 12 | 339,0 | 349,0[1] | | | | | | | | | | | | | | | | | | | | | 12 |
| 14 | 290,0 | 303,0[1] | 279,0 | 279,0 | | | | | | | | | | | | | | | | | | | 14 |
| 16 | 253,0 | 258,0[1] | 244,0 | 244,0 | 237,0 | 237,0 | 229,0 | 229,0 | | | | | | | | | | | | | | | 16 |
| 18 | 224,0 | 224,0 | 216,0 | 216,0 | 210,0 | 210,0 | 204,0 | 204,0 | | | | | | | | | | | | | | | 18 |
| 20 | 201,0 | 201,0 | 194,0 | 194,0 | 189,0 | 189,0 | 183,0 | 183,0 | 173,0 | 173,0 | | | | | | | | | | | | | 20 |
| 22 | 182,0 | 182,0 | 176,0 | 176,0 | 171,0 | 171,0 | 166,0 | 166,0 | 157,0 | 157,0 | | | | | | | | | | | | | 22 |
| 24 | 162,0* | 162,0 | 160,0 | 160,0 | 156,0 | 156,0 | 152,0 | 152,0 | 143,0 | 143,0 | 136,0 | 136,0 | | | | | | | | | | | 24 |
| 26 | | 144,0[11] | 147,0 | 147,0 | 143,0 | 143,0 | 140,0 | 140,0 | 132,0 | 132,0 | 125,0 | 125,0 | 117,0 | 117,0 | | | | | | | | | 26 |
| 28 | | 128,0[11] | 135,0 | 135,0 | 133,0 | 133,0 | 129,0 | 129,0 | 122,0 | 122,0 | 115,0 | 115,0 | 108,0 | 108,0 | | | | | | | | | 28 |
| 30 | | 115,0[11] | 124,0* | 124,0 | 123,0 | 123,0 | 120,0 | 120,0 | 113,0 | 113,0 | 107,0 | 107,0 | 100,0 | 100,0 | 95,3 | 95,3 | | | | | | | 30 |
| 32 | | 102,0[10] | | 111[11] | 114,0 | 114,0 | 111,0 | 111,0 | 105,0 | 105,0 | 99,5 | 99,5 | 93,2 | 93,2 | 88,5 | 88,5 | 85,2 | 85,2 | 80,7 | 80,7 | | | 32 |
| 34 | | 91,9[10] | | 99,1[11] | 106,0 | 106,0 | 103,0 | 103,0 | 98,3 | 98,3 | 92,9 | 92,9 | 86,9 | 86,9 | 82,4 | 82,4 | 79,4 | 79,4 | 75,5 | 75,5 | 70,7 | 70,7 | 34 |
| 36 | | 81,6[9] | | 89,7[11] | 98,5* | 98,5 | 97,0 | 97,0 | 92,2 | 92,2 | 86,9 | 86,9 | 81,2 | 81,2 | 77,1 | 77,1 | 74,1 | 74,1 | 70,2 | 70,2 | 67,6 | 67,6 | 36 |
| 38 | | 73,3[9] | | 80,3[11] | | 87,7[11] | 90,8 | 90,8 | 86,6 | 86,6 | 81,6 | 81,6 | 76,0 | 76,0 | 72,0 | 72,0 | 69,3 | 69,3 | 65,5 | 65,5 | 63,0 | 63,0 | 38 |
| 40 | | 65,1[8] | | 72,4[11] | | 79,2[11] | 85,3 | 85,3 | 81,0 | 81,0 | 76,8 | 76,8 | 71,3 | 71,3 | 67,5 | 67,5 | 64,8 | 64,8 | 61,2 | 61,2 | 58,7 | 58,7 | 40 |
| 44 | | 51,9[7] | | 58,4[10] | | 64,8[11] | | 70,8[11] | 71,5 | 71,5 | 67,9 | 67,9 | 63,1 | 63,1 | 59,6 | 59,6 | 57,1 | 57,1 | 53,5 | 53,5 | 51,2 | 51,2 | 44 |
| 48 | | 41,2[6] | | 46,8[9] | | 52,6[10] | | 58,6[11] | 64,2 | 64,2 | 60,2 | 60,2 | 56,2 | 56,2 | 52,9 | 52,9 | 50,4 | 50,4 | 47,0 | 47,0 | 44,9 | 44,9 | 48 |
| 52 | | 32,6[5] | | 37,3[8] | | 42,4[9] | | 48,2[11] | 57,5 | 57,5 | 53,9 | 53,9 | 49,8 | 49,8 | 46,8 | 46,8 | 44,8 | 44,8 | 41,4 | 41,4 | 39,4 | 39,4 | 52 |
| 56 | | | | 29,3[7] | | 33,5[8] | | 38,7[10] | | 46,9[11] | 48,5 | 48,5 | 44,5 | 44,5 | 41,6 | 41,6 | 39,8 | 39,8 | 36,5 | 36,5 | 34,6 | 34,6 | 56 |
| 60 | | | | | | 26,4[7] | | 30,7[9] | | 38,7[11] | 43,8 | 43,8 | 39,8 | 39,8 | 36,8 | 36,8 | 35,1 | 35,1 | 32,2 | 32,2 | 30,4 | 30,4 | 60 |
| 64 | | | | | | 20,1[6] | | 24,1[8] | | 31,6[11] | 39,9 | 39,9 | 35,6 | 35,6 | 32,7 | 32,7 | 31,3 | 31,3 | 28,4 | 28,4 | 26,7 | 26,7 | 64 |
| 68 | | | | | | | | 18,2[7] | | 25,6[11] | | 30,8[11] | 32,0 | 32,0 | 29,3 | 29,3 | 27,6 | 27,6 | 24,9 | 24,9 | 23,4 | 23,4 | 68 |
| 72 | | | | | | | | | | 19,9[10] | | 25,8[11] | 29,0 | 29,0 | 26,1 | 26,1 | 24,6 | 24,6 | 21,8 | 21,8 | 20,4 | 20,4 | 72 |
| 76 | | | | | | | | | | 14,5[9] | | 20,6[11] | 26,3 | 26,3 | 23,5 | 23,5 | 21,8 | 21,8 | 19,2 | 19,2 | 17,9 | 17,9 | 76 |
| 80 | | | | | | | | | | 10,1[8] | | 15,7[11] | | 19,4[11] | 21,1 | 21,1 | 19,5 | 19,5 | 17,1 | 17,1 | 15,5 | 15,5 | 80 |
| 84 | | | | | | | | | | | | 11,5[10] | | 15,2[11] | 19,0 | 19,0 | 17,7 | 17,7 | 15,1 | 15,1 | 13,4 | 13,4 | 84 |
| 88 | | | | | | | | | | | | 7,3[9] | | 11,2[11] | 17,5 | 17,5 | 16,1 | 16,1 | 13,2 | 13,2 | 11,4 | 11,4 | 88 |
| 92 | | | | | | | | | | | | | | | | 11,1[11] | 14,6 | 14,6 | 11,5 | 11,5 | 9,7 | 9,7 | 92 |
| 96 | | | | | | | | | | | | | | | | 7,5[11] | 12,1* | 12,1 | 10,0 | 10,0 | 8,2 | 8,2 | 96 |
| 100 | | | | | | | | | | | | | | | | | | | 9,0 | 9,0 | 6,8 | 6,8 | 100 |
| 104 | | | | | | | | | | | | | | | | | | | | | 5,7 | 5,7 | 104 |

1) 12°; 2) 17°; 3) 22°; 4) 27°; 5) 32°; 6) 37°; 7) 42°; 8) 47°; 9) 52°; 10) 57°; 11) 62°



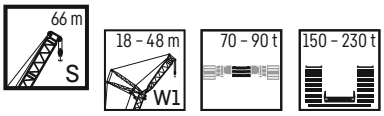

| m | S 54 m | | | | | | | | | | | | | | | | | | m |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W1 18 m | | W1 24 m | | W1 30 m | | W1 36 m | | W1 48 m | | W1 60 m | | W1 72 m | | W1 84 m | | W1 90 m | | |
| | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | |
| 11 | 353,0 | 353,0 | | | | | | | | | | | | | | | | | 11 |
| 12 | 324,0 | 324,0 | | | | | | | | | | | | | | | | | 12 |
| 14 | 279,0 | 305,0[1] | 268,0 | 268,0 | | | | | | | | | | | | | | | 14 |
| 16 | 244,0 | 280,0[1] | 235,0 | 235,0 | 228,0 | 228,0 | 221,0 | 221,0 | | | | | | | | | | | 16 |
| 18 | 216,0 | 255,0[1] | 209,0 | 209,0 | 203,0 | 203,0 | 197,0 | 197,0 | | | | | | | | | | | 18 |
| 20 | 192,0 | 231,0[1] | 188,0 | 188,0 | 182,0 | 182,0 | 177,0 | 177,0 | 168,0 | 168,0 | | | | | | | | | 20 |
| 22 | 173,0 | 206,0[1] | 170,0 | 170,0 | 165,0 | 165,0 | 161,0 | 161,0 | 153,0 | 153,0 | | | | | | | | | 22 |
| 24 | 156,0* | 181,0[1] | 153,0 | 153,0 | 151,0 | 151,0 | 147,0 | 147,0 | 140,0 | 140,0 | 133,0 | 133,0 | | | | | | | 24 |
| 26 | | 156,0[1] | 140,0 | 140,0 | 137,0 | 137,0 | 135,0 | 135,0 | 129,0 | 129,0 | 122,0 | 122,0 | 113,0 | 113,0 | | | | | 26 |
| 28 | | 132,0[1] | 129,0 | 129,0 | 126,0 | 126,0 | 124,0 | 124,0 | 119,0 | 119,0 | 113,0 | 113,0 | 105,0 | 105,0 | | | | | 28 |
| 30 | | 112,0[11] | 120,0* | 120,0 | 116,0 | 116,0 | 114,0 | 114,0 | 110,0 | 110,0 | 105,0 | 105,0 | 97,1 | 97,1 | 89,9 | 89,9 | | | 30 |
| 32 | | 101,0[11] | | 108,0[11] | 107,0* | 108,0[9] | 105,0 | 105,0 | 102,0 | 102,0 | 97,8 | 97,8 | 90,3 | 90,3 | 85,4 | 85,4 | 80,7 | 80,7 | 32 |
| 34 | | 89,0[10] | | 97,2[11] | 101,0* | 101,0 | 97,8 | 97,9[7] | 94,4 | 94,4 | 90,8 | 90,8 | 83,9 | 83,9 | 79,5 | 79,5 | 76,8 | 76,8 | 34 |
| 36 | | 80,7[10] | | 87,8[11] | 95,1* | 95,1 | 91,7* | 91,8[8] | 88,1 | 88,1 | 84,3 | 84,3 | 77,7 | 77,7 | 73,8 | 73,8 | 71,4 | 71,4 | 36 |
| 38 | | 71,9[9] | | 79,6[11] | | 85,8[11] | 86,4* | 86,4 | 82,4 | 82,4 | 78,3 | 78,4[4] | 72,5 | 72,5 | 68,7 | 68,7 | 66,3 | 66,3 | 38 |
| 40 | | 64,7[9] | | 71,5[11] | | 77,6[11] | 81,7* | 81,7 | 77,3 | 77,3 | 73,5 | 73,5 | 67,5 | 67,5 | 63,7 | 63,7 | 62,0 | 62,0 | 40 |
| 44 | | 51,4[8] | | 57,7[10] | | 64,1[11] | | 69,6[11] | 68,8* | 68,8 | 64,7 | 64,7 | 59,1 | 59,1 | 55,8 | 55,8 | 53,9 | 53,9 | 44 |
| 48 | | 40,5[7] | | 46,4[10] | | 52,3[11] | | 57,6[11] | 62,0* | 62,0 | 57,7* | 57,7 | 52,0 | 52,0 | 49,1 | 49,1 | 47,2 | 47,2 | 48 |
| 52 | | 31,7[6] | | 36,7[9] | | 41,7[10] | | 46,9[11] | 56,4* | 56,4 | 52,0* | 52,0 | 46,3 | 46,3 | 43,2 | 43,2 | 41,6 | 41,6 | 52 |
| 56 | | 24,2[5] | | 28,5[8] | | 32,8[9] | | 37,3[10] | | 47,1[11] | 47,1* | 47,1 | 41,3* | 41,3 | 38,2* | 38,3[5] | 36,6 | 36,6 | 56 |
| 60 | | | | 21,7[7] | | 25,6[8] | | 30,0[10] | | 38,7[11] | 42,9* | 42,9 | 37,1* | 37,1 | 34,0* | 34,0 | 32,2 | 32,2 | 60 |
| 64 | | | | | | 19,2[7] | | 23,3[9] | | 31,1[11] | 38,3* | 38,3 | 33,5* | 33,5 | 30,4* | 30,4 | 28,3 | 28,3 | 64 |
| 68 | | | | | | 13,6[6] | | 17,5[8] | | 25,4[11] | | 31,2[11] | 30,3* | 30,3 | 27,2* | 27,2 | 25,1* | 25,1 | 68 |
| 72 | | | | | | | | 12,2[7] | | 19,4[11] | | 25,6[11] | 27,6* | 27,6 | 24,4* | 24,4 | 22,2* | 22,2 | 72 |
| 76 | | | | | | | | | | 14,4[10] | | 20,6[11] | 25,1* | 25,1 | 21,9* | 21,9 | 19,7* | 19,7 | 76 |
| 80 | | | | | | | | | | 9,8[9] | | 15,7[11] | | 18,4[11] | 19,6* | 19,6 | 17,5* | 17,5 | 80 |
| 84 | | | | | | | | | | | | 11,3[11] | | 14,1[11] | 17,6* | 17,6 | 15,8 | 15,8 | 84 |
| 88 | | | | | | | | | | | | 6,7[10] | | 9,9[11] | 15,8* | 15,8 | 14,3 | 14,3 | 88 |
| 92 | | | | | | | | | | | | | | | | 7,2[9] | 12,9 | 12,9 | 92 |
| 96 | | | | | | | | | | | | | | | | | 10,9* | 10,9 | 96 |

1) 12°; 2) 17°; 3) 22°; 4) 27°; 5) 32°; 6) 37°; 7) 42°; 8) 47°; 9) 52°; 10) 57°; 11) 62°



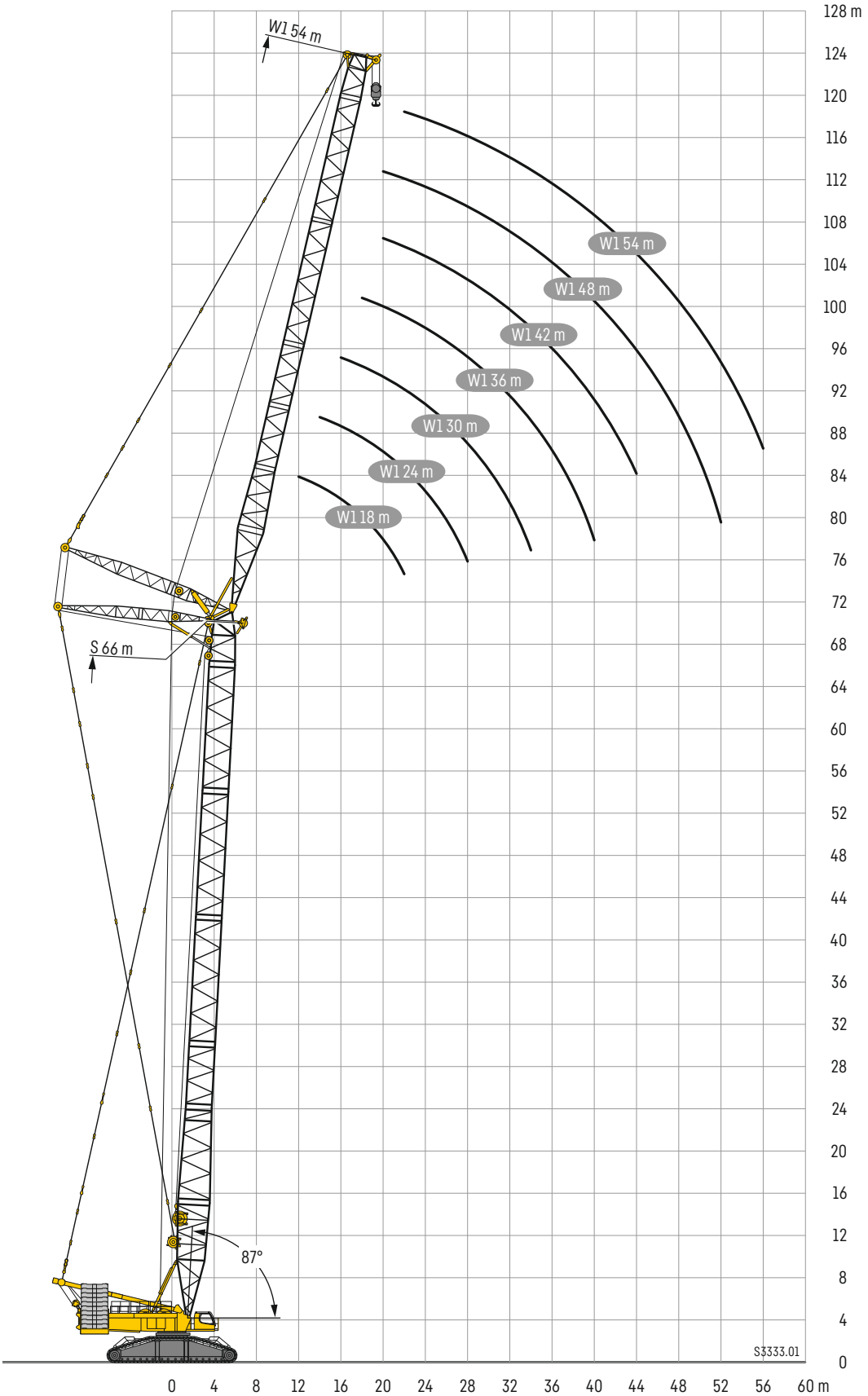

| m | S 60 m | | | | | | | | | | | | | | | m |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W1 18 m | | W1 24 m | | W1 30 m | | W1 36 m | | W1 48 m | | W1 60 m | | W1 72 m | | | |
| | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | | |
| 12 | 311,0 | 311,0 | | | | | | | | | | | | | 12 | 12 |
| 14 | 268,0 | 296,0[1] | | | | | | | | | | | | | 14 | 14 |
| 16 | 235,0 | 274,0[1] | | | | | | | | | | | | | 16 | 16 |
| 18 | 207,0 | 251,0[1] | 259,0 | 259,0 | | | | | | | | | | | 18 | 18 |
| 20 | 184,0 | 229,0[1] | 227,0 | 227,0 | 220,0 | 220,0 | | | | | | | | | 20 | 20 |
| 22 | 165,0 | 207,0[1] | 202,0 | 202,0 | 196,0 | 196,0 | 191,0 | 191,0 | | | | | | | 22 | 22 |
| 24 | 151,0* | 185,0[1] | 180,0 | 180,0 | 177,0 | 177,0 | 172,0 | 172,0 | 163,0 | 163,0 | | | | | 24 | 24 |
| 26 | | 162,0[1] | 162,0 | 162,0 | 159,0 | 159,0 | 156,0 | 156,0 | 148,0 | 148,0 | | | | | 26 | 26 |
| 28 | | 140,0[1] | 146,0* | 147,0[6] | 143,0 | 143,0 | 142,0 | 142,0 | 135,0 | 135,0 | 128,0 | 128,0 | | | 28 | 28 |
| 30 | | 118,0[1] | 134,0* | 134,0 | 131,0 | 131,0 | 129,0 | 129,0 | 123,0 | 123,0 | 118,0 | 118,0 | | | 30 | 30 |
| 32 | | 97,8[11] | 124,0* | 124,0 | 120,0* | 121,0[6] | 118,0 | 118,0 | 113,0 | 113,0 | 108,0 | 108,0 | 101,0 | 101,0 | 32 | 32 |
| 34 | | 87,9[11] | 116,0* | 116,0 | 112,0* | 112,0 | 109,0* | 109,0 | 104,0 | 104,0 | 99,2 | 99,2 | 93,2 | 93,2 | 34 | 34 |
| 36 | | 77,8[10] | | 106,0[11] | 104,0* | 104,0 | 102,0* | 102,0 | 96,3 | 96,8[4] | 91,8 | 91,8 | 86,2 | 86,2 | 36 | 36 |
| 38 | | 70,4[10] | | 95,4[11] | 97,8* | 97,8 | 95,0* | 95,0 | 89,4* | 89,6[4] | 85,2 | 85,3[3] | 80,1 | 80,1 | 38 | 38 |
| 40 | | 62,5[9] | | 85,1[11] | 92,2* | 92,2 | 89,2* | 89,2 | 83,8* | 83,9[5] | 79,3 | 79,3 | 73,9 | 73,9 | 40 | 40 |
| 44 | | 50,5[9] | | 77,5[11] | | 84,0[11] | 84,1* | 84,1 | 78,8* | 78,8 | 74,2* | 74,3[4] | 69,1 | 69,1 | 44 | 44 |
| 48 | | 39,9[8] | | 70,0[11] | | 76,2[11] | 79,4* | 79,4 | 74,2* | 74,2 | 69,8* | 69,8 | 64,4* | 64,8[3] | 48 | 48 |
| 52 | | 30,9[7] | | 56,9[11] | | 62,7[11] | | 68,3[11] | 66,3* | 66,3 | 62,0* | 62,0 | 57,0* | 57,0 | 52 | 52 |
| 56 | | 23,3[6] | | 45,4[10] | | 51,0[11] | | 56,3[11] | 59,7* | 59,7 | 55,5* | 55,5 | 50,6* | 50,6 | 56 | 56 |
| 60 | | 16,9[5] | | 35,8[9] | | 40,8[10] | | 46,5[11] | 54,2* | 54,2 | 50,0* | 50,0 | 45,2* | 45,2 | 60 | 60 |
| 64 | | | | 27,7[8] | | 32,6[10] | | 37,6[11] | | 46,0[11] | 45,2* | 45,2 | 40,5* | 40,5 | 64 | 64 |
| 68 | | | | 20,8[7] | | 25,1[9] | | 29,4[10] | | 37,8[11] | 41,2* | 41,2 | 36,4* | 36,4 | 68 | 68 |
| 72 | | | | 15,0[7] | | 18,6[8] | | 22,6[9] | | 30,6[11] | 37,5* | 37,5 | 32,9* | 32,9 | 72 | 72 |
| 76 | | | | 9,7[6] | | 12,9[7] | | 16,3[8] | | 24,5[11] | | 30,8[11] | 29,7* | 29,7 | 76 | 76 |
| 80 | | | | | | 6,5[3] | | 11,0[7] | | 18,8[11] | | 24,8[11] | 27,0* | 27,0 | 80 | 80 |
| 84 | | | | | | | | 6,6[7] | | 13,1[10] | | 19,2[11] | 24,6* | 24,6 | 84 | 84 |
| 88 | | | | | | | | | | | | 14,5[11] | | 18,4[11] | 88 | 88 |
| 92 | | | | | | | | | | | | 10,1[11] | | 13,8[11] | 92 | 92 |

1) 12°; 2) 17°; 3) 22°; 4) 27°; 5) 32°; 6) 37°; 7) 42°; 8) 47°; 9) 52°; 10) 57°; 11) 62°




| m | S 66 m | | | | | | | | | | | | m |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W1 18 m | | W1 24 m | | W1 30 m | | W1 36 m | | W1 48 m | | W1 54 m | | |
| | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | |
| 12 | 298,0 | 298,0 | | | | | | | | | | | 12 |
| 14 | 258,0 | 287,0[1] | 249,0 | 249,0 | | | | | | | | | 14 |
| 16 | 226,0 | 274,0[1] | 220,0 | 240,0[1] | 213,0 | 213,0 | | | | | | | 16 |
| 18 | 198,0 | 261,0[1] | 194,0 | 230,0[1] | 190,0 | 190,0 | 184,0 | 184,0 | | | | | 18 |
| 20 | 175,0* | 248,0[1] | 172,0 | 219,0[1] | 169,0 | 169,0 | 164,0 | 164,0 | 154,0 | 154,0 | | | 20 |
| 22 | 159,0* | 235,0[1] | 155,0 | 209,0[1] | 152,0 | 152,0 | 148,0 | 148,0 | 141,0 | 141,0 | 135,0 | 135,0 | 22 |
| 24 | 145,0* | 222,0[1] | 141,0* | 198,0[1] | 137,0* | 138,0[4] | 134,0 | 134,0 | 128,0 | 128,0 | 125,0 | 125,0 | 24 |
| 26 | 135,0* | 209,0[1] | 130,0* | 188,0[1] | 126,0* | 127,0[5] | 122,0* | 123,0[4] | 117,0 | 117,0 | 114,0 | 114,0 | 26 |
| 28 | | 195,0[1] | 120,0* | 177,0[1] | 117,0* | 117,0 | 113,0* | 113,0 | 107,0* | 107,0 | 105,0 | 105,0 | 28 |
| 30 | | 182,0[1] | 112,0* | 167,0[1] | 109,0* | 109,0 | 105,0* | 105,0 | 98,9* | 99,4[3] | 96,6* | 96,6 | 30 |
| 32 | | 169,0[1] | 105,0* | 156,0[1] | 101,0* | 101,0 | 97,8* | 97,8 | 92,1* | 92,1 | 90,0* | 90,2[3] | 32 |
| 34 | | 156,0[1] | | 146,0[1] | 95,0* | 95,0 | 91,5* | 91,5 | 86,1* | 86,1 | 84,1* | 84,1 | 34 |
| 36 | | 143,0[1] | | 135,0[1] | 89,5* | 89,5 | 85,9* | 85,9 | 80,6* | 80,6 | 78,7* | 78,7 | 36 |
| 38 | | 130,0[1] | | 125,0[1] | 85,1* | 85,1 | 80,9* | 80,9 | 75,8* | 75,8 | 73,9* | 73,9 | 38 |
| 40 | | 117,0[1] | | 114,0[1] | | 74,7[11] | 76,4* | 76,4 | 71,4* | 71,4 | 69,6* | 69,6 | 40 |
| 44 | | 90,5[1] | | 93,2[1] | | 60,9[11] | 69,5* | 69,5 | 63,7* | 63,7 | 62,0* | 62,0 | 44 |
| 48 | | 64,3[1] | | 72,2[1] | | 49,6[11] | | 54,2[11] | 57,3* | 57,3 | 55,6* | 55,6 | 48 |
| 52 | | 38,1[1] | | 51,2[1] | | 40,0[11] | | 44,6[11] | 52,0* | 52,0 | 50,2* | 50,2 | 52 |
| 56 | | 21,7[7] | | 30,2[1] | | 31,1[10] | | 35,7[11] | 48,2* | 48,2 | 45,6* | 45,6 | 56 |
| 60 | | 15,2[6] | | 19,2[8] | | 23,3[9] | | 27,5[10] | | 36,1[11] | 41,8* | 41,8 | 60 |
| 64 | | 9,6[5] | | 13,0[7] | | 17,3[9] | | 21,1[10] | | 29,3[11] | | 33,0[11] | 64 |
| 68 | | | | 8,0[7] | | 11,5[8] | | 14,8[9] | | 22,9[11] | | 26,6[11] | 68 |
| 72 | | | | | | | | | | 17,1[11] | | 20,6[11] | 72 |
| 76 | | | | | | | | | | 11,9[11] | | 15,4[11] | 76 |
| 80 | | | | | | | | | | | | 10,4[11] | 80 |

1) 12°; 2) 17°; 3) 22°; 4) 27°; 5) 32°; 6) 37°; 7) 42°; 8) 47°; 9) 52°; 10) 57°; 11) 62°


W1 54 m
W1 54 m
W1 48 m
W1 42 m
W1 36 m
W1 30 m
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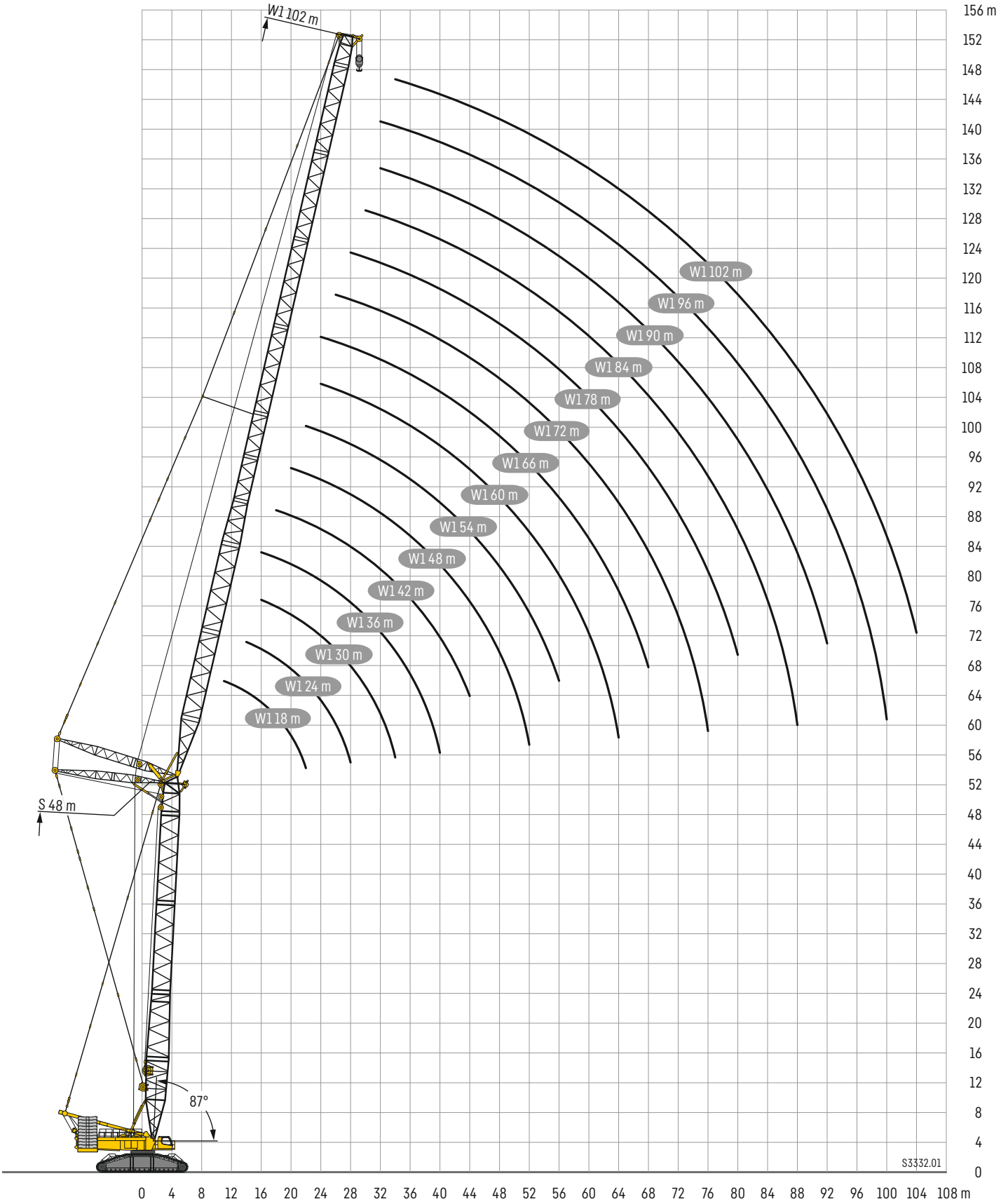
W1 102 m
W1 102 m
W1 96 m
W1 90 m
W1 84 m
W1 78 m
W1 72 m
W1 66 m
W1 60 m
W1 54 m
W1 48 m
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W1 36 m
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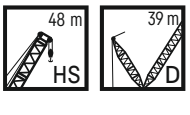
0 4 8 12 16 20 24 28 32 36 40 44 48 52 56 60 64 68 72 76 80 84 88 92 96 100 104 108 m

HS 42 m

| m | | W 18 m | | W 24 m | | W 30 m | | W 36 m | | W 48 m | | W 60 m | | W 72 m | | W 84 | | W 90 | | W 96 | | W 102 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax |
| 11 | B | 450,0 | 450,0 | | | | | | | | | | | | | | | | | | | | |
| | BV | 450,0 | 450,0 | | | | | | | | | | | | | | | | | | | | |
| 12 | B | 450,0 | 450,0 | 450,0 | 450,0 | | | | | | | | | | | | | | | | | | |
| | BV | 450,0 | 450,0 | 450,0 | 450,0 | | | | | | | | | | | | | | | | | | |
| 14 | B | 450,0* | 450,0 | 450,0* | 450,0 | 450,0 | 450,0 | | | | | | | | | | | | | | | | |
| | BV | 450,0* | 450,0 | 450,0* | 450,0 | 450,0 | 450,0 | | | | | | | | | | | | | | | | |
| 16 | B | 450,0* | 450,0 | 450,0* | 450,0 | 450,0* | 450,0 | 429,0 | 429,0 | | | | | | | | | | | | | | |
| | BV | 450,0* | 450,0 | 450,0* | 450,0 | 450,0* | 450,0 | 432,0 | 432,0 | | | | | | | | | | | | | | |
| 18 | B | 428,0* | 449,0[2] | 445,0* | 445,0 | 450,0* | 450,0 | 435,0* | 435,0 | 335,0 | 335,0 | | | | | | | | | | | | |
| | BV | 427,0* | 450,0[1] | 444,0* | 450,0[1] | 450,0* | 450,0 | 441,0* | 441,0 | 337,0 | 337,0 | | | | | | | | | | | | |
| 20 | B | 365,0* | 433,0[2] | 385,0* | 430,0[1] | 428,0* | 428,0 | 417,0* | 417,0 | 329,0 | 336,0[1] | | | | | | | | | | | | |
| | BV | 364,0* | 450,0[1] | 385,0* | 450,0[1] | 446,0* | 450,0[1] | 431,0* | 434,0[1] | 332,0 | 338,0[1] | | | | | | | | | | | | |
| 22 | B | 316,0* | 398,0[3] | 334,0* | 395,0[1] | 391,0* | 395,0[3] | 386,0* | 388,0[2] | 336,0* | 336,0 | 257,0 | 257,0 | | | | | | | | | | |
| | BV | 316,0* | 450,0[1] | 334,0* | 442,0[1] | 398,0* | 450,0[1] | 391,0* | 428,0[1] | 339,0* | 339,0 | 258,0 | 258,0 | | | | | | | | | | |
| 24 | B | | 365,0[5] | 294,0* | 362,0[2] | 351,0* | 363,0[3] | 346,0* | 359,0[2] | 325,0* | 325,0 | 260,0* | 260,0 | 193,0 | 193,0 | | | | | | | | |
| | BV | | 448,0[2] | 294,0* | 435,0[1] | 352,0* | 431,0[1] | 347,0* | 422,0[1] | 327,0* | 331,0[1] | 262,0* | 262,0 | 193,0 | 193,0 | | | | | | | | |
| 26 | B | | 335,0[5] | 261,0* | 334,0[3] | 313,0* | 333,0[4] | 310,0* | 330,0[2] | 302,0* | 307,0[2] | 258,0* | 258,0 | 190,0 | 191,0[1] | 145,0 | 145,0 | | | | | | |
| | BV | | 420,0[2] | 261,0* | 422,0[1] | 314,0* | 411,0[2] | 310,0* | 403,0[1] | 303,0* | 324,0[1] | 260,0* | 260,0 | 191,0 | 192,0[1] | 145,0 | 145,0 | | | | | | |
| 28 | B | | 307,0[6] | 234,0* | 308,0[4] | 283,0* | 308,0[4] | 280,0* | 305,0[3] | 273,0* | 292,0[1] | 253,0* | 253,0 | 191,0* | 191,0 | 142,0 | 142,0 | 124,0 | 124,0 | | | | |
| | BV | | 391,0[2] | 234,0* | 393,0[1] | 283,0* | 387,0[1] | 280,0* | 381,0[1] | 274,0* | 317,0[1] | 254,0* | 255,0[1] | 188,0 | 191,0[1] | 143,0 | 143,0 | 124,0 | 124,0 | | | | |
| 30 | B | | 286,0[8] | | 284,0[4] | 257,0* | 286,0[4] | 255,0* | 283,0[2] | 249,0* | 277,0[1] | 243,0* | 248,0[1] | 188,0* | 189,0[1] | 140,0 | 142,0[1] | 122,0 | 122,0 | 104,0 | 104,0 | | |
| | BV | | 365,0[2] | | 364,0[1] | 257,0* | 363,0[1] | 255,0* | 358,0[1] | 250,0* | 306,0[1] | 243,0* | 251,0[1] | 189,0* | 190,0[1] | 141,0 | 142,0[1] | 122,0 | 122,0 | 104,0 | 104,0 | | |
| 32 | B | | 267,0[11] | | 265,0[5] | 235,0* | 267,0[5] | 233,0* | 265,0[3] | 229,0* | 259,0[1] | 223,0* | 244,0[1] | 186,0* | 188,0[1] | 140,0* | 140,0 | 119,0 | 121,0[1] | 103,0 | 103,0 | 88,1 | 88,1 |
| | BV | | 342,0[4] | | 339,0[1] | 235,0* | 340,0[2] | 233,0* | 336,0[1] | 229,0* | 291,0[1] | 224,0* | 247,0[1] | 187,0* | 189,0[1] | 141,0* | 141,0 | 120,0 | 121,0[1] | 103,0 | 103,0 | 88,2 | 88,2 |
| 34 | B | | 248,0[11] | | 249,0[6] | 210,0* | 250,0[6] | 214,0* | 248,0[4] | 211,0* | 244,0[2] | 206,0* | 237,0[1] | 182,0* | 186,0[1] | 139,0* | 139,0 | 119,0* | 119,0 | 102,0* | 102,0 | 87,0 | 87,4[1] |
| | BV | | 319,0[4] | | 318,0[2] | 210,0* | 318,0[2] | 215,0* | 316,0[1] | 211,0* | 277,0[1] | 206,0* | 242,0[1] | 184,0* | 188,0[1] | 140,0* | 140,0 | 120,0* | 120,0 | 103,0* | 103,0 | 87,1 | 87,4[1] |
| 36 | B | | 231,0[11] | | 234,0[7] | | 235,0[7] | 198,0* | 233,0[5] | 195,0* | 229,0[2] | 191,0* | 225,0[1] | 178,0* | 185,0[1] | 138,0* | 138,0 | 118,0* | 118,0 | 101,0* | 101,0 | 86,8* | 86,8 |
| | BV | | 299,0[5] | | 298,0[2] | | 297,0[3] | 199,0* | 296,0[1] | 195,0* | 262,0[1] | 191,0* | 232,0[1] | 179,0* | 187,0[1] | 138,0* | 139,0[1] | 118,0* | 118,0 | 102,0* | 102,0 | 86,8* | 86,8 |
| 38 | B | | 215,0[10] | | 219,0[8] | | 220,0[8] | 184,0* | 219,0[5] | 181,0* | 214,0[2] | 178,0* | 212,0[1] | 172,0* | 183,0[1] | 136,0* | 137,0[1] | 116,0* | 117,0[1] | 100,0* | 100,0 | 85,8* | 85,9[1] |
| | BV | | 282,0[8] | | 279,0[3] | | 280,0[3] | 184,0* | 277,0[1] | 181,0* | 251,0[1] | 178,0* | 221,0[1] | 173,0* | 185,0[1] | 137,0* | 138,0[1] | 116,0* | 117,0[1] | 100,0* | 101,0[1] | 85,9* | 85,9 |
| 40 | B | | 202,0[10] | | 206,0[9] | | 207,0[8] | 164,0* | 205,0[5] | 169,0* | 202,0[3] | 166,0* | 199,0[1] | 164,0* | 178,0[1] | 135,0* | 136,0[1] | 114,0* | 115,0[1] | 99,3* | 99,4[1] | 84,9* | 85,0[1] |
| | BV | | 262,0[10] | | 264,0[4] | | 264,0[4] | 164,0* | 262,0[2] | 169,0* | 241,0[1] | 166,0* | 211,0[1] | 163,0* | 180,0[1] | 136,0* | 137,0[1] | 115,0* | 116,0[1] | 99,5* | 99,7[1] | 85,0* | 85,1[1] |
| 44 | B | | 178,0[8] | | 182,0[10] | | 186,0[11] | | 184,0[7] | 148,0* | 180,0[3] | 146,0* | 177,0[1] | 144,0* | 169,0[1] | 132,0* | 133,0[1] | 111,0* | 112,0[1] | 97,2* | 97,4[1] | 83,1* | 83,2[1] |
| | BV | | 224,0[8] | | 231,0[5] | | 235,0[5] | | 231,0[2] | 148,0* | 220,0[1] | 146,0* | 194,0[1] | 144,0* | 171,0[1] | 132,0* | 134,0[1] | 111,0* | 113,0[1] | 97,7* | 97,8[1] | 83,3* | 83,4[1] |
| 48 | B | | 157,0[7] | | 162,0[9] | | 165,0[11] | | 167,0[9] | 131,0* | 163,0[4] | 130,0* | 161,0[2] | 128,0* | 158,0[1] | 123,0* | 130,0[2] | 108,0* | 110,0[2] | 95,3* | 95,9[2] | 81,3* | 81,5[2] |
| | BV | | 190,0[7] | | 205,0[9] | | 209,0[7] | | 207,0[3] | 132,0* | 201,0[1] | 130,0* | 179,0[1] | 128,0* | 161,0[1] | 123,0* | 131,0[1] | 108,0* | 110,0[2] | 95,8* | 96,4[2] | 81,6* | 81,8[2] |
| 52 | B | | | | 145,0[8] | | 146,0[10] | | 150,0[10] | 108,0* | 148,0[5] | 116,0* | 145,0[2] | 114,0* | 144,0[1] | 111,0* | 127,0[1] | 104,0* | 108,0[2] | 93,6* | 94,5[2] | 79,6* | 80,2[2] |
| | BV | | | | 177,0[8] | | 187,0[10] | | 188,0[5] | 108,0* | 182,0[1] | 116,0* | 165,0[1] | 114,0* | 150,0[1] | 111,0* | 128,0[1] | 104,0* | 108,0[2] | 94,0* | 95,0[2] | 79,9* | 80,5[2] |
| 56 | B | | | | | | 130,0[8] | | 135,0[10] | | 134,0[6] | 105,0* | 132,0[3] | 103,0* | 129,0[1] | 100,0* | 121,0[1] | 96,9* | 104,0[2] | 91,0* | 92,9[2] | 78,0* | 78,9[2] |
| | BV | | | | | | 162,0[8] | | 167,0[6] | | 164,0[2] | 105,0* | 154,0[1] | 103,0* | 138,0[1] | 100,0* | 122,0[1] | 97,1* | 105,0[2] | 91,4* | 93,4[2] | 78,3* | 79,2[2] |
| 60 | B | | | | | | 117,0[7] | | 121,0[9] | | 124,0[7] | 94,8* | 121,0[4] | 93,3* | 119,0[2] | 90,9* | 115,0[1] | 88,7* | 101,0[2] | 87,2* | 90,7[2] | 76,4* | 77,2[2] |
| | BV | | | | | | 139,0[7] | | 151,0[9] | | 148,0[3] | 94,7* | 143,0[1] | 93,3* | 129,0[1] | 91,0* | 116,0[1] | 88,7* | 101,0[2] | 87,4* | 91,2[2] | 76,8* | 77,6[3] |
| 64 | B | | | | | | | | 108,0[8] | | 114,0[10] | 72,7* | 111,0[5] | 84,9* | 109,0[2] | 82,7* | 107,0[1] | 80,5* | 96,7[2] | 80,2* | 88,5[2] | 74,3* | 76,1[3] |
| | BV | | | | | | | | 131,0[8] | | 136,0[4] | 72,7* | 134,0[1] | 84,9* | 121,0[1] | 82,6* | 110,0[1] | 80,5* | 97,3[1] | 80,3* | 89,0[2] | 74,6* | 76,6[3] |
| 68 | B | | | | | | | | | | 103,0[10] | | 102,0[5] | 77,6* | 101,0[3] | 75,5* | 97,9[1] | 73,3* | 91,9[1] | 73,2* | 85,4[2] | 70,3* | 74,1[3] |
| | BV | | | | | | | | | | 124,0[5] | | 122,0[1] | 77,6* | 114,0[1] | 75,5* | 103,0[1] | 73,4* | 93,4[1] | 73,3* | 85,8[2] | 70,4* | 74,4[3] |
| 72 | B | | | | | | | | | | 92,1[9] | | 93,9[6] | 68,4* | 92,0[3] | 69,1* | 89,9[2] | 67,2* | 86,1[1] | 67,1* | 81,8[2] | 65,1* | 71,8[3] |
| | BV | | | | | | | | | | 112,0[7] | | 111,0[2] | 68,5* | 107,0[1] | 69,1* | 96,1[1] | 67,2* | 89,1[1] | 67,1* | 82,1[2] | 65,2* | 72,0[2] |
| 76 | B | | | | | | | | | | 82,4[8] | | 86,8[7] | 54,2* | 85,1[4] | 63,3* | 82,8[2] | 61,4* | 80,3[2] | 61,4* | 78,1[2] | 59,5* | 69,5[2] |
| | BV | | | | | | | | | | 101,0[8] | | 102,0[5] | 54,2* | 99,6[1] | 63,4* | 90,7[1] | 61,6* | 84,8[1] | 61,3* | 78,4[2] | 59,6* | 69,9[2] |
| 80 | B | | | | | | | | | | | | 80,7[9] | | 78,9[5] | 58,2* | 76,3[3] | 56,5* | 74,7[2] | 56,2* | 73,6[2] | 54,6* | 67,3[2] |
| | BV | | | | | | | | | | | | 94,5[4] | | 92,7[1] | 58,2* | 85,3[1] | 56,6* | 80,2[1] | 56,4* | 75,2[1] | 54,6* | 67,6[2] |
| 84 | B | | | | | | | | | | | | 72,9[9] | | 73,8[6] | 51,3* | 71,0[3] | 52,2* | 69,0[2] | 51,9* | 69,1[2] | 50,1* | 64,4[2] |
| | BV | | | | | | | | | | | | 88,3[6] | | 86,4[2] | 51,3* | 80,6[1] | 52,1* | 75,7[1] | 51,8* | 71,9[1] | 50,2* | 64,7[2] |
| 88 | B | | | | | | | | | | | | 65,2[8] | | 68,8[7] | 40,1* | 66,5[4] | 47,0* | 64,4[3] | 47,8* | 64,0[2] | 46,1* | 61,5[2] |
| | BV | | | | | | | | | | | | 80,3[8] | | 79,4[3] | 40,1* | 76,1[1] | 47,0* | 71,6[1] | 47,8* | 68,7[1] | 46,1* | 61,7[2] |
| 92 | B | | | | | | | | | | | | | | 63,6[9] | | 61,5[5] | 39,4* | 59,4[4] | 43,6* | 59,2[3] | 42,5* | 57,5[2] |
| | BV | | | | | | | | | | | | | | 73,0[4] | | 70,5[1] | 39,4* | 67,6[1] | 43,7* | 65,1[1] | 42,4* | 58,7[2] |
| 96 | B | | | | | | | | | | | | | | 58,2[9] | | 56,8[6] | | 55,1[4] | 38,4* | 54,7[3] | 38,9* | 52,8[2] |
| | BV | | | | | | | | | | | | | | 67,5[5] | | 65,1[2] | | 63,1[1] | 38,4* | 61,4[1] | 38,9* | 55,9[1] |
| 100 | B | | | | | | | | | | | | | | 51,9[8] | | 52,8[6] | | 51,1[5] | 29,1* | 50,8[4] | 34,9* | 49,1[3] |
| | BV | | | | | | | | | | | | | | 62,8[6] | | 60,2[3] | | 58,3[1] | 29,1* | 57,7[1] | 34,9* | 53,6[1] |
| 104 | B | | | | | | | | | | | | | | | | 49,4[7] | | 47,6[6] | | 47,2[4] | 28,5* | 45,5[3] |
| | BV | | | | | | | | | | | | | | | | 56,3[3] | | 54,4[2] | | 54,0[1] | 28,5* | 51,0[1] |
| 108 | B | | | | | | | | | | | | | | | | 46,3[9] | | 44,5[7] | | 44,1[5] | | 42,4[4] |
| | BV | | | | | | | | | | | | | | | | 52,5[4] | | 50,7[3] | | 50,2[2] | | 48,2[1] |
| 112 | B | | | | | | | | | | | | | | | | 40,9[8] | | 42,1[8] | | 41,2[6] | | 39,4[5] |
| | BV | | | | | | | | | | | | | | | | 49,4[6] | | 47,4[4] | | 46,5[2] | | 44,8[1] |
| 116 | B | | | | | | | | | | | | | | | | | | 37,8[8] | | 38,4[7] | | 36,7[5] |
| | BV | | | | | | | | | | | | | | | | | | 44,0[5] | | 43,4[3] | | 42,2[2] |
| 120 | B | | | | | | | | | | | | | | | | | | 33,1[7] | | 35,2[9] | | 33,9[6] |
| | BV | | | | | | | | | | | | | | | | | | 40,1[7] | | 39,8[4] | | 38,7[3] |
| 124 | B | | | | | | | | | | | | | | | | | | | | 31,6[8] | | 31,3[7] |
| | BV | | | | | | | | | | | | | | | | | | | | 36,8[6] | | 35,5[4] |
| 128 | B | | | | | | | | | | | | | | | | | | | | | | 28,9[8] |
| | BV | | | | | | | | | | | | | | | | | | | | | | 32,3[5] |
| 132 | B | | | | | | | | | | | | | | | | | | | | | | 24,8[7] |
| | BV | | | | | | | | | | | | | | | | | | | | | | 29,5[7] |

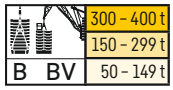
1) 12°; 2) 17°; 3) 22°; 4) 27°; 5) 32°; 6) 37°; 7) 42°; 8) 47°; 9) 52°; 10) 57°; 11) 62°

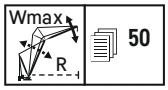



HS 48 m

| m | | W 18 m | | W 24 m | | W 30 m | | W 36 m | | W 48 m | | W 60 m | | W 72 m | | W 84 | | W 90 | | W 96 | | W 102 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax |
| 11 | B | 450,0 | 450,0 | | | | | | | | | | | | | | | | | | | | |
| | BV | 450,0 | 450,0 | | | | | | | | | | | | | | | | | | | | |
| 12 | B | 450,0 | 450,0 | 450,0 | 450,0 | | | | | | | | | | | | | | | | | | |
| | BV | 450,0 | 450,0 | 450,0 | 450,0 | | | | | | | | | | | | | | | | | | |
| 14 | B | 450,0* | 450,0 | 450,0 | 450,0 | 450,0 | 450,0 | | | | | | | | | | | | | | | | |
| | BV | 450,0* | 450,0 | 450,0 | 450,0 | 450,0 | 450,0 | | | | | | | | | | | | | | | | |
| 16 | B | 450,0* | 450,0 | 450,0* | 450,0 | 448,0 | 450,0[1] | 401,0 | 401,0 | | | | | | | | | | | | | | |
| | BV | 450,0* | 450,0 | 450,0* | 450,0 | 450,0 | 450,0 | 404,0 | 404,0 | | | | | | | | | | | | | | |
| 18 | B | 443,0* | 450,0[1] | 450,0* | 450,0 | 450,0* | 450,0 | 408,0* | 408,0 | 314,0 | 314,0 | | | | | | | | | | | | |
| | BV | 443,0* | 450,0[1] | 450,0* | 450,0 | 450,0* | 450,0 | 413,0* | 413,0 | 316,0 | 316,0 | | | | | | | | | | | | |
| 20 | B | 378,0* | 428,0[1] | 403,0* | 420,0[3] | 419,0* | 421,0[2] | 399,0* | 399,0 | 308,0 | 313,0[1] | | | | | | | | | | | | |
| | BV | 378,0* | 450,0[2] | 404,0* | 450,0[1] | 450,0* | 450,0 | 406,0* | 410,0[1] | 311,0 | 316,0[1] | | | | | | | | | | | | |
| 22 | B | 327,0* | 394,0[2] | 348,0* | 389,0[1] | 385,0* | 389,0[2] | 378,0* | 379,0[2] | 315,0* | 315,0 | 242,0 | 242,0 | | | | | | | | | | |
| | BV | 327,0* | 448,0[1] | 349,0* | 443,0[2] | 424,0* | 446,0[1] | 399,0* | 407,0[1] | 318,0* | 318,0 | 243,0 | 243,0 | | | | | | | | | | |
| 24 | B | 283,0* | 361,0[4] | 306,0* | 358,0[2] | 356,0* | 358,0[3] | 350,0* | 352,0[2] | 310,0* | 310,0 | 238,0 | 243,0[2] | 184,0 | 184,0 | | | | | | | | |
| | BV | 283,0* | 447,0[1] | 306,0* | 430,0[2] | 378,0* | 437,0[1] | 374,0* | 405,0[1] | 314,0* | 317,0[1] | 240,0 | 244,0[1] | 185,0 | 185,0 | | | | | | | | |
| 26 | B | | 333,0[6] | 271,0* | 330,0[3] | 330,0* | 331,0[4] | 325,0* | 327,0[3] | 302,0* | 302,0 | 243,0* | 243,0 | 182,0 | 183,0[1] | | | | | | | | |
| | BV | | 421,0[1] | 271,0* | 408,0[1] | 337,0* | 413,0[2] | 334,0* | 399,0[1] | 306,0* | 317,0[1] | 245,0* | 245,0 | 183,0 | 184,0[1] | | | | | | | | |
| 28 | B | | 308,0[7] | 242,0* | 306,0[4] | 303,0* | 308,0[5] | 301,0* | 304,0[4] | 288,0* | 288,0 | 240,0* | 240,0 | 183,0* | 183,0 | 137,0 | 137,0 | 119,0 | 119,0 | | | | |
| | BV | | 391,0[3] | 242,0* | 387,0[1] | 303,0* | 387,0[2] | 301,0* | 376,0[1] | 289,0* | 316,0[1] | 242,0* | 244,0[2] | 180,0 | 183,0[1] | 137,0 | 137,0 | 119,0 | 119,0 | | | | |
| 30 | B | | 284,0[7] | 207,0* | 285,0[5] | 275,0* | 286,0[6] | 273,0* | 284,0[4] | 266,0* | 271,0[1] | 235,0* | 237,0[1] | 181,0* | 181,0 | 135,0 | 136,0[1] | 117,0 | 117,0 | 101,0 | 101,0 | | |
| | BV | | 364,0[3] | 207,0* | 362,0[2] | 275,0* | 361,0[2] | 273,0* | 354,0[1] | 267,0* | 315,0[1] | 238,0* | 243,0[1] | 182,0* | 183,0[1] | 135,0 | 136,0[1] | 117,0 | 117,0 | 100,0 | 100,0 | | |
| 32 | B | | 264,0[9] | | 264,0[5] | 251,0* | 266,0[6] | 250,0* | 265,0[4] | 244,0* | 256,0[1] | 229,0* | 234,0[1] | 178,0* | 180,0[1] | 135,0* | 135,0 | 115,0 | 116,0[1] | 99,2 | 99,2 | 85,2 | 85,2 |
| | BV | | 339,0[4] | | 339,0[2] | 251,0* | 337,0[3] | 250,0* | 331,0[2] | 244,0* | 303,0[1] | 230,0* | 243,0[1] | 180,0* | 181,0[1] | 135,0* | 135,0 | 115,0 | 116,0[1] | 99,2 | 99,2 | 85,2 | 85,2 |
| 34 | B | | 247,0[11] | | 246,0[6] | 229,0* | 248,0[6] | 230,0* | 247,0[5] | 224,0* | 241,0[3] | 219,0* | 231,0[1] | 176,0* | 179,0[1] | 134,0* | 134,0 | 115,0* | 115,0 | 97,9 | 98,8[1] | 84,1 | 84,4[1] |
| | BV | | 317,0[5] | | 315,0[2] | 229,0* | 315,0[2] | 230,0* | 311,0[1] | 225,0* | 290,0[1] | 220,0* | 242,0[1] | 178,0* | 180,0[1] | 134,0* | 135,0[1] | 115,0* | 115,0 | 97,9 | 98,9[1] | 84,1 | 84,4[1] |
| 36 | B | | 230,0[11] | | 231,0[7] | 186,0* | 233,0[7] | 213,0* | 232,0[5] | 208,0* | 227,0[3] | 204,0* | 221,0[1] | 174,0* | 178,0[1] | 132,0* | 133,0[1] | 113,0* | 114,0[1] | 98,1* | 98,1 | 84,1* | 84,1 |
| | BV | | 298,0[7] | | 296,0[3] | 186,0* | 296,0[3] | 213,0* | 293,0[1] | 208,0* | 278,0[1] | 204,0* | 236,0[1] | 176,0* | 179,0[1] | 133,0* | 134,0[1] | 114,0* | 114,0 | 98,2* | 98,2 | 84,1* | 84,1 |
| 38 | B | | 215,0[11] | | 218,0[9] | | 221,0[9] | 197,0* | 219,0[6] | 193,0* | 214,0[3] | 189,0* | 209,0[1] | 172,0* | 176,0[1] | 131,0* | 132,0[1] | 112,0* | 113,0[1] | 97,2* | 97,2 | 83,1* | 83,1 |
| | BV | | 280,0[7] | | 280,0[4] | | 278,0[4] | 198,0* | 276,0[2] | 194,0* | 265,0[1] | 190,0* | 229,0[1] | 173,0* | 178,0[1] | 132,0* | 133,0[1] | 112,0* | 113,0[1] | 97,3* | 97,4[1] | 83,3* | 83,3 |
| 40 | B | | 201,0[10] | | 206,0[11] | | 208,0[10] | 181,0* | 207,0[7] | 180,0* | 202,0[3] | 177,0* | 199,0[2] | 167,0* | 174,0[1] | 130,0* | 131,0[1] | 110,0* | 111,0[1] | 96,2* | 96,3[1] | 82,3* | 82,3 |
| | BV | | 263,0[8] | | 263,0[4] | | 263,0[5] | 182,0* | 260,0[3] | 180,0* | 252,0[1] | 177,0* | 222,0[1] | 169,0* | 177,0[1] | 131,0* | 132,0[1] | 111,0* | 112,0[1] | 96,4* | 96,6[1] | 82,4* | 82,5[1] |
| 44 | B | | 176,0[9] | | 182,0[11] | | 184,0[11] | | 186,0[9] | 158,0* | 181,0[4] | 156,0* | 179,0[2] | 153,0* | 170,0[2] | 128,0* | 129,0[2] | 107,0* | 109,0[1] | 94,3* | 94,5[1] | 80,6* | 80,7[1] |
| | BV | | 233,0[9] | | 233,0[5] | | 235,0[6] | | 232,0[3] | 158,0* | 228,0[1] | 156,0* | 208,0[1] | 153,0* | 173,0[1] | 129,0* | 130,0[2] | 108,0* | 109,0[1] | 94,6* | 94,9[1] | 80,8* | 81,0[1] |
| 48 | B | | 156,0[8] | | 161,0[10] | | 163,0[11] | | 167,0[10] | 140,0* | 163,0[5] | 138,0* | 161,0[3] | 136,0* | 157,0[2] | 125,0* | 128,0[2] | 104,0* | 106,0[2] | 92,5* | 93,1[2] | 79,0* | 79,2[2] |
| | BV | | 203,0[8] | | 211,0[8] | | 212,0[9] | | 210,0[5] | 140,0* | 205,0[1] | 138,0* | 194,0[1] | 136,0* | 168,0[1] | 126,0* | 129,0[2] | 105,0* | 107,0[2] | 92,9* | 93,5[2] | 79,3* | 79,5[2] |
| 52 | B | | 139,0[6] | | 143,0[9] | | 145,0[10] | | 150,0[11] | 122,0* | 146,0[6] | 124,0* | 144,0[3] | 122,0* | 143,0[2] | 117,0* | 125,0[2] | 101,0* | 104,0[2] | 90,8* | 91,9[2] | 77,4* | 78,0[2] |
| | BV | | 175,0[7] | | 187,0[9] | | 191,0[10] | | 191,0[6] | 122,0* | 186,0[2] | 124,0* | 179,0[1] | 122,0* | 160,0[1] | 118,0* | 127,0[2] | 102,0* | 105,0[2] | 91,3* | 92,4[2] | 77,7* | 78,3[2] |
| 56 | B | | | | 128,0[8] | | 129,0[9] | | 135,0[11] | | 133,0[7] | 112,0* | 131,0[3] | 110,0* | 130,0[2] | 107,0* | 120,0[2] | 98,0* | 102,0[2] | 89,1* | 90,6[2] | 75,9* | 76,8[2] |
| | BV | | | | 163,0[8] | | 169,0[9] | | 173,0[7] | | 168,0[3] | 111,0* | 165,0[1] | 110,0* | 150,0[1] | 107,0* | 123,0[2] | 98,7* | 103,0[2] | 89,6* | 91,2[2] | 76,2* | 77,2[2] |
| 60 | B | | | | | | 116,0[8] | | 120,0[10] | | 123,0[9] | 104,0* | 120,0[5] | 99,6* | 119,0[3] | 97,1* | 115,0[2] | 93,6* | 99,8[3] | 87,2* | 89,2[3] | 74,4* | 75,5[2] |
| | BV | | | | | | 149,0[8] | | 158,0[10] | | 153,0[4] | 103,0* | 151,0[1] | 99,8* | 141,0[1] | 97,2* | 119,0[1] | 94,1* | 101,0[3] | 87,8* | 89,8[3] | 74,7* | 75,8[2] |
| 64 | B | | | | | | 103,0[7] | | 108,0[9] | | 113,0[11] | 81,9* | 111,0[6] | 90,7* | 109,0[3] | 88,4* | 107,0[2] | 87,6* | 97,2[2] | 83,7* | 87,9[3] | 72,9* | 74,3[3] |
| | BV | | | | | | 130,0[7] | | 140,0[9] | | 142,0[5] | 81,9* | 139,0[2] | 90,7* | 132,0[1] | 88,5* | 116,0[1] | 87,8* | 98,3[2] | 84,0* | 88,5[3] | 73,2* | 74,8[3] |
| 68 | B | | | | | | | | 96,0[8] | | 103,0[11] | | 103,0[7] | 83,0* | 101,0[4] | 80,7* | 98,3[3] | 80,1* | 93,3[3] | 78,4* | 85,5[3] | 71,3* | 73,1[3] |
| | BV | | | | | | | | 123,0[8] | | 129,0[6] | | 127,0[2] | 83,0* | 124,0[1] | 80,7* | 110,0[1] | 80,2* | 95,0[2] | 78,6* | 85,9[3] | 71,7* | 73,6[3] |
| 72 | B | | | | | | | | | | 91,8[10] | | 94,9[10] | 74,8* | 93,2[5] | 74,0* | 90,9[3] | 73,3* | 88,9[3] | 71,9* | 83,1[3] | 68,3* | 71,6[3] |
| | BV | | | | | | | | | | 118,0[7] | | 116,0[3] | 74,9* | 115,0[1] | 73,9* | 105,0[1] | 73,4* | 91,8[2] | 71,9* | 83,5[2] | 68,7* | 72,1[3] |
| 76 | B | | | | | | | | | | 82,0[9] | | 88,6[10] | 61,3* | 86,1[5] | 68,0* | 83,6[3] | 67,3* | 82,9[3] | 65,9* | 79,5[2] | 64,0* | 70,2[3] |
| | BV | | | | | | | | | | 108,0[9] | | 108,0[4] | 61,4* | 106,0[1] | 68,0* | 99,0[1] | 67,5* | 88,3[2] | 66,0* | 81,2[2] | 64,2* | 70,7[3] |
| 80 | B | | | | | | | | | | 73,2[8] | | 80,8[10] | | 80,2[6] | 62,7* | 77,8[4] | 61,8* | 77,0[3] | 60,7* | 74,9[2] | 58,8* | 68,2[3] |
| | BV | | | | | | | | | | 94,5[8] | | 101,0[5] | | 98,9[2] | 62,6* | 93,8[1] | 62,1* | 84,5[2] | 60,7* | 78,4[2] | 59,0* | 68,8[3] |
| 84 | B | | | | | | | | | | | | 72,8[10] | | 74,7[7] | 57,0* | 72,2[5] | 57,2* | 71,6[4] | 56,1* | 70,3[3] | 54,3* | 65,9[3] |
| | BV | | | | | | | | | | | | 93,0[7] | | 91,1[3] | 57,0* | 88,6[1] | 57,3* | 80,6[2] | 56,0* | 75,3[2] | 54,3* | 66,6[3] |
| 88 | B | | | | | | | | | | | | 64,9[9] | | 70,2[9] | 46,2* | 67,2[5] | 52,6* | 66,4[4] | 51,9* | 65,3[4] | 50,0* | 63,7[3] |
| | BV | | | | | | | | | | | | 85,1[9] | | 83,8[4] | 46,2* | 81,5[1] | 52,6* | 77,6[1] | 51,7* | 72,3[2] | 50,0* | 64,5[3] |
| 92 | B | | | | | | | | | | | | 58,0[8] | | 64,6[10] | | 62,9[6] | 46,3* | 62,3[5] | 47,8* | 60,9[4] | 46,2* | 58,7[3] |
| | BV | | | | | | | | | | | | 75,7[8] | | 77,3[5] | | 75,2[2] | 46,3* | 73,1[1] | 47,7* | 68,9[2] | 46,2* | 62,6[2] |
| 96 | B | | | | | | | | | | | | | | 58,2[10] | | 58,4[7] | 32,3* | 57,9[6] | 43,6* | 56,5[5] | 42,6* | 54,7[4] |
| | BV | | | | | | | | | | | | | | 71,9[5] | | 69,5[2] | 32,3* | 68,8[2] | 43,6* | 65,5[2] | 42,6* | 60,1[2] |
| 100 | B | | | | | | | | | | | | | | 51,8[9] | | 54,3[9] | | 53,5[7] | 34,4* | 52,3[6] | 39,0* | 50,7[5] |
| | BV | | | | | | | | | | | | | | 67,5[7] | | 64,9[3] | | 64,3[2] | 34,4* | 62,0[2] | 39,0* | 57,6[2] |
| 104 | B | | | | | | | | | | | | | | 45,9[8] | | 50,9[10] | | 49,6[8] | | 48,5[6] | 33,2* | 46,9[5] |
| | BV | | | | | | | | | | | | | | 61,1[8] | | 60,8[4] | | 59,9[3] | | 58,5[2] | 33,2* | 55,1[2] |
| 108 | B | | | | | | | | | | | | | | | | 46,2[10] | | 46,7[10] | | 45,0[7] | 22,5* | 43,5[6] |
| | BV | | | | | | | | | | | | | | | | 57,3[5] | | 55,9[4] | | 54,4[2] | 22,5* | 52,5[2] |
| 112 | B | | | | | | | | | | | | | | | | 40,7[9] | | 43,4[10] | | 41,9[8] | | 40,3[6] |
| | BV | | | | | | | | | | | | | | | | 53,3[7] | | 52,2[5] | | 51,4[3] | | 49,7[2] |
| 116 | B | | | | | | | | | | | | | | | | 35,7[8] | | 38,2[9] | | 39,4[9] | | 37,7[7] |
| | BV | | | | | | | | | | | | | | | | 48,3[8] | | 48,9[6] | | 47,7[4] | | 46,1[3] |
| 120 | B | | | | | | | | | | | | | | | | | | 33,4[8] | | 36,2[10] | | 35,4[8] |
| | BV | | | | | | | | | | | | | | | | | | 44,9[8] | | 44,0[5] | | 42,3[4] |
| 124 | B | | | | | | | | | | | | | | | | | | 28,8[7] | | 31,4[9] | | 33,5[10] |
| | BV | | | | | | | | | | | | | | | | | | 39,5[7] | | 40,6[7] | | 38,9[5] |
| 128 | B | | | | | | | | | | | | | | | | | | | | 27,0[8] | | 28,8[9] |
| | BV | | | | | | | | | | | | | | | | | | | | 37,2[8] | | 36,1[6] |
| 132 | B | | | | | | | | | | | | | | | | | | | | | | 24,5[8] |
| | BV | | | | | | | | | | | | | | | | | | | | | | 33,1[7] |
| 136 | B | | | | | | | | | | | | | | | | | | | | | | 20,7[7] |
| | BV | | | | | | | | | | | | | | | | | | | | | | 29,4[7] |

1) 12°; 2) 17°; 3) 22°; 4) 27°; 5) 32°; 6) 37°; 7) 42°; 8) 47°; 9) 52°; 10) 57°; 11) 62°

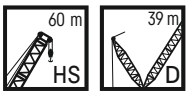


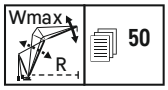



HS 54 m

| m | | W 18 m | | W 24 m | | W 30 m | | W 36 m | | W 48 m | | W 60 m | | W 72 m | | W 84 | | W 90 | | W 96 | | W 102 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax |
| 11 | B | 450,0 | 450,0 | | | | | | | | | | | | | | | | | | | | |
| | BV | 450,0 | 450,0 | | | | | | | | | | | | | | | | | | | | |
| 12 | B | 450,0 | 450,0 | | | | | | | | | | | | | | | | | | | | |
| | BV | 450,0 | 450,0 | | | | | | | | | | | | | | | | | | | | |
| 14 | B | 450,0* | 450,0 | 450,0 | 450,0 | 427,0 | 427,0 | | | | | | | | | | | | | | | | |
| | BV | 450,0* | 450,0 | 450,0 | 450,0 | 433,0 | 433,0 | | | | | | | | | | | | | | | | |
| 16 | B | 450,0* | 450,0 | 450,0* | 450,0 | 411,0 | 427,0[1] | 373,0 | 373,0 | | | | | | | | | | | | | | |
| | BV | 450,0* | 450,0 | 450,0* | 450,0 | 416,0 | 434,0[1] | 375,0 | 375,0 | | | | | | | | | | | | | | |
| 18 | B | 450,0* | 450,0 | 446,0* | 446,0 | 423,0* | 423,0 | 362,0 | 376,0[1] | 293,0 | 293,0 | | | | | | | | | | | | |
| | BV | 450,0* | 450,0 | 450,0* | 450,0 | 431,0* | 435,0[1] | 366,0 | 380,0[1] | 294,0 | 294,0 | | | | | | | | | | | | |
| 20 | B | 394,0* | 423,0[1] | 414,0* | 417,0[3] | 402,0* | 402,0 | 373,0* | 373,0 | 288,0 | 291,0[1] | | | | | | | | | | | | |
| | BV | 394,0* | 450,0[2] | 422,0* | 450,0[1] | 414,0* | 429,0[1] | 378,0* | 381,0[1] | 289,0 | 293,0[1] | | | | | | | | | | | | |
| 22 | B | 338,0* | 389,0[1] | 367,0* | 386,0[3] | 375,0* | 375,0 | 359,0* | 359,0 | 294,0* | 294,0 | 227,0 | 227,0 | | | | | | | | | | |
| | BV | 338,0* | 450,0[3] | 366,0* | 450,0[1] | 393,0* | 423,0[1] | 367,0* | 379,0[1] | 297,0* | 297,0 | 227,0 | 227,0 | | | | | | | | | | |
| 24 | B | 296,0* | 356,0[3] | 321,0* | 354,0[3] | 348,0* | 350,0[3] | 340,0* | 340,0 | 289,0* | 289,0 | 223,0 | 227,0[1] | 176,0 | 176,0 | | | | | | | | |
| | BV | 296,0* | 432,0[3] | 321,0* | 434,0[2] | 370,0* | 417,0[1] | 353,0* | 378,0[1] | 293,0* | 296,0[1] | 224,0 | 229,0[1] | 176,0 | 176,0 | | | | | | | | |
| 26 | B | | 329,0[4] | 285,0* | 326,0[4] | 323,0* | 325,0[4] | 318,0* | 319,0[3] | 284,0* | 284,0 | 228,0* | 228,0 | 173,0 | 173,0 | | | | | | | | |
| | BV | | 413,0[1] | 285,0* | 407,0[2] | 346,0* | 395,0[1] | 334,0* | 376,0[1] | 289,0* | 296,0[1] | 230,0* | 230,0 | 174,0 | 174,0 | | | | | | | | |
| 28 | B | | 305,0[7] | 252,0* | 302,0[3] | 302,0* | 303,0[5] | 298,0* | 299,0[3] | 278,0* | 278,0 | 225,0* | 226,0[1] | 171,0 | 173,0[1] | 131,0 | 131,0 | 114,0 | 114,0 | | | | |
| | BV | | 386,0[1] | 252,0* | 380,0[2] | 313,0* | 371,0[1] | 311,0* | 361,0[1] | 284,0* | 297,0[1] | 228,0* | 230,0[1] | 172,0 | 174,0[1] | 131,0 | 131,0 | 114,0 | 114,0 | | | | |
| 30 | B | | 284,0[9] | 216,0* | 282,0[5] | 281,0* | 283,0[6] | 278,0* | 280,0[4] | 267,0* | 267,0 | 221,0* | 224,0[1] | 172,0* | 173,0[1] | 129,0 | 130,0[1] | 112,0 | 112,0 | 96,5 | 96,5 | | |
| | BV | | 360,0[3] | 216,0* | 355,0[1] | 284,0* | 346,0[1] | 283,0* | 340,0[1] | 271,0* | 297,0[1] | 224,0* | 229,0[1] | 173,0* | 174,0[1] | 129,0 | 130,0[1] | 112,0 | 112,0 | 96,5 | 96,5 | | |
| 32 | B | | 263,0[9] | | 264,0[7] | 259,0* | 264,0[7] | 259,0* | 263,0[5] | 251,0* | 253,0[3] | 218,0* | 222,0[1] | 170,0* | 172,0[1] | 129,0* | 129,0 | 110,0 | 111,0[1] | 95,3 | 95,3 | 82,0 | 82,0 |
| | BV | | 337,0[4] | | 333,0[1] | 259,0* | 323,0[1] | 259,0* | 319,0[1] | 253,0* | 292,0[1] | 221,0* | 229,0[1] | 171,0* | 173,0[1] | 130,0* | 130,0 | 110,0 | 111,0[1] | 95,3 | 95,3 | 81,9 | 81,9 |
| 34 | B | | 244,0[11] | | 247,0[7] | 236,0* | 247,0[7] | 238,0* | 246,0[5] | 233,0* | 239,0[3] | 213,0* | 221,0[1] | 168,0* | 171,0[1] | 128,0* | 128,0 | 110,0* | 110,0 | 94,1 | 95,0[1] | 81,0 | 81,2[1] |
| | BV | | 315,0[5] | | 312,0[2] | 237,0* | 306,0[1] | 238,0* | 299,0[2] | 233,0* | 279,0[1] | 217,0* | 229,0[1] | 169,0* | 172,0[1] | 129,0* | 129,0 | 108,0 | 111,0[1] | 94,2 | 95,0[1] | 81,0 | 81,2[1] |
| 36 | B | | 228,0[11] | | 231,0[8] | 203,0* | 232,0[8] | 219,0* | 231,0[6] | 215,0* | 225,0[3] | 206,0* | 217,0[1] | 166,0* | 170,0[1] | 127,0* | 127,0 | 109,0* | 109,0 | 94,5* | 94,5 | 80,1 | 80,7[1] |
| | BV | | 295,0[6] | | 293,0[3] | 204,0* | 288,0[1] | 220,0* | 283,0[1] | 215,0* | 266,0[1] | 208,0* | 227,0[1] | 168,0* | 171,0[1] | 128,0* | 128,0 | 109,0* | 110,0[1] | 94,6* | 94,6 | 80,1 | 80,8[1] |
| 38 | B | | 213,0[11] | | 215,0[8] | | 218,0[9] | 203,0* | 217,0[6] | 200,0* | 212,0[4] | 195,0* | 206,0[1] | 164,0* | 169,0[1] | 126,0* | 127,0[1] | 108,0* | 108,0 | 93,6* | 93,7[1] | 80,3* | 80,3 |
| | BV | | 278,0[8] | | 276,0[4] | | 272,0[2] | 204,0* | 269,0[1] | 200,0* | 254,0[1] | 196,0* | 223,0[1] | 166,0* | 171,0[1] | 127,0* | 127,0 | 108,0* | 109,0[1] | 93,8* | 93,9[1] | 80,4* | 80,4 |
| 40 | B | | 199,0[11] | | 204,0[11] | | 206,0[10] | 188,0* | 205,0[7] | 186,0* | 200,0[4] | 183,0* | 195,0[2] | 162,0* | 168,0[1] | 125,0* | 126,0[1] | 106,0* | 107,0[1] | 92,8* | 92,9[1] | 79,5* | 79,5 |
| | BV | | 263,0[11] | | 261,0[4] | | 256,0[5] | 188,0* | 254,0[1] | 186,0* | 242,0[1] | 183,0* | 218,0[1] | 164,0* | 170,0[1] | 126,0* | 127,0[1] | 107,0* | 108,0[1] | 93,0* | 93,2[1] | 79,6* | 79,7[1] |
| 44 | B | | 175,0[10] | | 180,0[11] | | 183,0[11] | | 185,0[8] | 163,0* | 180,0[4] | 160,0* | 177,0[3] | 156,0* | 164,0[2] | 123,0* | 124,0[1] | 103,0* | 105,0[1] | 91,0* | 91,3[1] | 78,0* | 78,1[1] |
| | BV | | 231,0[10] | | 234,0[7] | | 230,0[5] | | 229,0[3] | 163,0* | 221,0[1] | 161,0* | 208,0[1] | 156,0* | 167,0[1] | 124,0* | 125,0[1] | 104,0* | 106,0[1] | 91,4* | 91,7[1] | 78,2* | 78,3[1] |
| 48 | B | | 155,0[9] | | 160,0[11] | | 162,0[11] | | 166,0[10] | 144,0* | 163,0[6] | 142,0* | 161,0[3] | 139,0* | 155,0[2] | 120,0* | 123,0[2] | 100,0* | 103,0[1] | 89,3* | 89,9[2] | 76,5* | 76,6[1] |
| | BV | | 205,0[9] | | 209,0[8] | | 209,0[7] | | 207,0[4] | 144,0* | 200,0[2] | 143,0* | 194,0[1] | 139,0* | 164,0[1] | 121,0* | 124,0[2] | 101,0* | 103,0[1] | 89,8* | 90,4[2] | 76,7* | 76,9[1] |
| 52 | B | | 137,0[8] | | 142,0[10] | | 144,0[11] | | 148,0[11] | 128,0* | 148,0[7] | 127,0* | 146,0[4] | 124,0* | 142,0[3] | 116,0* | 122,0[2] | 97,5* | 101,0[2] | 87,7* | 88,9[2] | 75,0* | 75,6[2] |
| | BV | | 181,0[8] | | 188,0[10] | | 189,0[11] | | 189,0[6] | 128,0* | 182,0[3] | 127,0* | 178,0[1] | 125,0* | 160,0[1] | 117,0* | 123,0[2] | 98,1* | 102,0[2] | 88,2* | 89,4[2] | 75,3* | 75,9[2] |
| 56 | B | | 123,0[6] | | 127,0[9] | | 128,0[10] | | 133,0[11] | | 133,0[8] | 115,0* | 132,0[5] | 112,0* | 130,0[3] | 109,0* | 117,0[3] | 94,6* | 99,1[2] | 86,0* | 87,8[2] | 73,5* | 74,5[2] |
| | BV | | 159,0[7] | | 167,0[9] | | 170,0[10] | | 173,0[9] | | 167,0[3] | 115,0* | 163,0[1] | 112,0* | 153,0[1] | 109,0* | 121,0[2] | 95,3* | 99,0[2] | 86,6* | 88,5[2] | 73,9* | 74,9[2] |
| 60 | B | | | | 114,0[8] | | 114,0[9] | | 120,0[11] | | 122,0[10] | 106,0* | 120,0[5] | 102,0* | 117,0[3] | 99,3* | 112,0[3] | 91,6* | 96,9[3] | 84,5* | 86,4[3] | 72,1* | 73,4[2] |
| | BV | | | | 148,0[8] | | 151,0[9] | | 158,0[11] | | 154,0[5] | 106,0* | 151,0[2] | 102,0* | 145,0[1] | 99,1* | 118,0[2] | 92,5* | 97,8[3] | 85,2* | 87,0[3] | 72,5* | 73,8[2] |
| 64 | B | | | | | | 102,0[8] | | 107,0[10] | | 112,0[11] | 89,4* | 110,0[6] | 92,5* | 108,0[4] | 90,4* | 104,0[2] | 88,0* | 94,6[2] | 82,8* | 85,7[3] | 70,6* | 72,2[3] |
| | BV | | | | | | 134,0[8] | | 142,0[10] | | 141,0[5] | 89,5* | 138,0[2] | 92,7* | 134,0[1] | 90,3* | 114,0[2] | 88,7* | 95,8[3] | 83,5* | 86,4[3] | 71,0* | 72,6[3] |
| 68 | B | | | | | | 90,7[7] | | 95,3[9] | | 102,0[11] | | 101,0[7] | 84,6* | 98,9[5] | 82,4* | 96,7[3] | 81,9* | 91,3[3] | 79,8* | 83,8[3] | 69,2* | 71,3[3] |
| | BV | | | | | | 118,0[7] | | 127,0[9] | | 129,0[6] | | 127,0[3] | 84,8* | 123,0[1] | 82,6* | 110,0[1] | 81,8* | 93,6[3] | 80,2* | 84,9[3] | 69,6* | 71,8[3] |
| 72 | B | | | | | | | | 85,0[8] | | 91,9[11] | | 94,2[9] | 76,9* | 91,7[5] | 75,6* | 89,3[3] | 75,1* | 88,2[3] | 73,5* | 81,9[3] | 67,3* | 70,0[3] |
| | BV | | | | | | | | 112,0[8] | | 120,0[8] | | 118,0[4] | 77,3* | 114,0[2] | 75,6* | 106,0[1] | 75,1* | 91,3[3] | 73,4* | 83,4[3] | 67,8* | 70,5[3] |
| 76 | B | | | | | | | | | | 81,7[10] | | 87,4[10] | 66,4* | 85,1[6] | 69,5* | 82,9[4] | 69,0* | 81,8[4] | 67,6* | 79,4[3] | 65,3* | 68,7[4] |
| | BV | | | | | | | | | | 110,0[10] | | 110,0[5] | 66,4* | 106,0[2] | 69,4* | 101,0[1] | 69,0* | 88,1[2] | 67,5* | 81,6[3] | 65,4* | 69,2[3] |
| 80 | B | | | | | | | | | | 72,7[9] | | 80,9[11] | | 79,3[7] | 63,9* | 77,3[5] | 63,4* | 76,6[4] | 62,1* | 74,2[4] | 60,4* | 67,2[4] |
| | BV | | | | | | | | | | 98,3[9] | | 101,0[5] | | 98,6[3] | 64,0* | 94,3[1] | 63,4* | 85,2[2] | 62,1* | 78,2[3] | 60,4* | 67,9[3] |
| 84 | B | | | | | | | | | | 64,6[8] | | 73,0[11] | | 74,1[9] | 58,5* | 71,6[6] | 58,4* | 71,1[5] | 57,1* | 69,7[4] | 55,5* | 65,7[4] |
| | BV | | | | | | | | | | 86,8[8] | | 93,4[7] | | 91,0[3] | 58,6* | 87,8[2] | 58,6* | 82,2[2] | 57,3* | 75,6[2] | 55,5* | 66,6[3] |
| 88 | B | | | | | | | | | | | | 64,9[10] | | 68,6[9] | 50,2* | 66,5[6] | 53,8* | 65,9[5] | 52,8* | 64,6[4] | 51,2* | 62,6[4] |
| | BV | | | | | | | | | | | | 87,2[8] | | 84,7[4] | 50,2* | 81,6[2] | 53,8* | 78,8[2] | 52,9* | 73,2[2] | 51,2* | 65,2[3] |
| 92 | B | | | | | | | | | | | | 57,7[9] | | 64,2[11] | | 61,8[7] | 48,6* | 61,2[6] | 48,8* | 59,9[5] | 47,1* | 58,2[4] |
| | BV | | | | | | | | | | | | 79,2[9] | | 79,0[5] | | 75,5[3] | 48,6* | 74,4[2] | 48,7* | 70,5[2] | 47,3* | 63,3[3] |
| 96 | B | | | | | | | | | | | | 51,1[8] | | 57,9[11] | | 57,6[8] | 36,9* | 57,0[6] | 44,5* | 55,7[5] | 43,4* | 53,8[4] |
| | BV | | | | | | | | | | | | 69,7[8] | | 74,1[6] | | 71,0[3] | 36,9* | 69,9[2] | 44,5* | 67,1[2] | 43,6* | 60,7[3] |
| 100 | B | | | | | | | | | | | | | | 51,4[10] | | 54,1[9] | | 53,2[7] | 37,7* | 51,9[6] | 39,8* | 50,3[5] |
| | BV | | | | | | | | | | | | | | 69,8[8] | | 66,8[4] | | 65,8[3] | 37,8* | 63,6[2] | 39,9* | 58,1[3] |
| 104 | B | | | | | | | | | | | | | | 45,3[9] | | 50,7[11] | | 49,9[8] | | 48,4[7] | 35,1* | 46,6[6] |
| | BV | | | | | | | | | | | | | | 63,3[9] | | 62,5[5] | | 61,1[3] | | 59,4[3] | 35,3* | 56,1[2] |
| 108 | B | | | | | | | | | | | | | | 39,8[8] | | 45,9[11] | | 46,8[10] | | 45,3[8] | 26,1* | 43,7[6] |
| | BV | | | | | | | | | | | | | | 55,7[8] | | 58,2[6] | | 57,3[4] | | 55,8[3] | 26,2* | 53,0[3] |
| 112 | B | | | | | | | | | | | | | | | | 40,3[10] | | 42,9[11] | | 42,8[9] | | 41,0[7] |
| | BV | | | | | | | | | | | | | | | | 53,7[7] | | 53,1[6] | | 51,8[4] | | 50,1[3] |
| 116 | B | | | | | | | | | | | | | | | | 35,2[9] | | 38,1[10] | | 39,3[10] | | 38,3[8] |
| | BV | | | | | | | | | | | | | | | | 49,9[9] | | 49,3[6] | | 48,0[5] | | 46,3[4] |
| 120 | B | | | | | | | | | | | | | | | | 30,4[8] | | 33,0[9] | | 35,6[11] | | 35,1[9] |
| | BV | | | | | | | | | | | | | | | | 44,1[8] | | 45,9[7] | | 44,6[5] | | 43,0[4] |
| 124 | B | | | | | | | | | | | | | | | | | | 28,3[8] | | 31,2[10] | | 32,1[10] |
| | BV | | | | | | | | | | | | | | | | | | 42,2[8] | | 41,7[6] | | 40,0[5] |
| 128 | B | | | | | | | | | | | | | | | | | | 23,9[7] | | 26,6[9] | | 28,7[10] |
| | BV | | | | | | | | | | | | | | | | | | 35,7[7] | | 39,0[8] | | 37,2[5] |
| 132 | B | | | | | | | | | | | | | | | | | | | | 22,3[8] | | 24,2[9] |
| | BV | | | | | | | | | | | | | | | | | | | | 34,4[8] | | 34,9[7] |
| 136 | B | | | | | | | | | | | | | | | | | | | | | | 20,1[8] |
| | BV | | | | | | | | | | | | | | | | | | | | | | 32,1[8] |
| 140 | B | | | | | | | | | | | | | | | | | | | | | | 16,7[7] |
| | BV | | | | | | | | | | | | | | | | | | | | | | 26,1[7] |

1) 12°; 2) 17°; 3) 22°; 4) 27°; 5) 32°; 6) 37°; 7) 42°; 8) 47°; 9) 52°; 10) 57°; 11) 62°

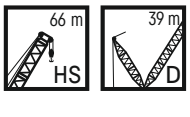



HS 60 m

| m | | W 18 m | | W 24 m | | W 30 m | | W 36 m | | W 48 m | | W 60 m | | W 72 m | | W 84 | | W 90 | | W 96 | | W 102 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax |
| 12 | B | 449,0 | 449,0 | | | | | | | | | | | | | | | | | | | | |
| | BV | 450,0 | 450,0 | | | | | | | | | | | | | | | | | | | | |
| 14 | B | 450,0* | 450,0 | 422,0 | 422,0 | 393,0 | 393,0 | | | | | | | | | | | | | | | | |
| | BV | 450,0* | 450,0 | 428,0 | 428,0 | 400,0 | 400,0 | | | | | | | | | | | | | | | | |
| 16 | B | 450,0* | 450,0 | 431,0* | 431,0 | 376,0 | 389,0[1] | 344,0 | 344,0 | | | | | | | | | | | | | | |
| | BV | 450,0* | 450,0 | 440,0* | 441,0[1] | 385,0 | 398,0[1] | 350,0 | 350,0 | | | | | | | | | | | | | | |
| 18 | B | 444,0* | 444,0 | 411,0* | 419,0[1] | 388,0* | 389,0[1] | 333,0 | 345,0[1] | | | | | | | | | | | | | | |
| | BV | 450,0* | 450,0 | 420,0* | 437,0[1] | 399,0* | 400,0[1] | 339,0 | 352,0[1] | | | | | | | | | | | | | | |
| 20 | B | 407,0* | 436,0[1] | 391,0* | 407,0[1] | 374,0* | 378,0[1] | 344,0* | 345,0[1] | 269,0 | 269,0 | | | | | | | | | | | | |
| | BV | 409,0* | 450,0[1] | 401,0* | 433,0[1] | 384,0* | 397,0[1] | 352,0* | 355,0[1] | 271,0 | 271,0 | | | | | | | | | | | | |
| 22 | B | 350,0* | 417,0[1] | 367,0* | 395,0[1] | 357,0* | 368,0[1] | 332,0* | 338,0[1] | 263,0 | 272,0[1] | 212,0 | 212,0 | | | | | | | | | | |
| | BV | 350,0* | 450,0[2] | 376,0* | 429,0[1] | 368,0* | 394,0[1] | 341,0* | 354,0[1] | 267,0 | 276,0[1] | 214,0 | 214,0 | | | | | | | | | | |
| 24 | B | 305,0* | 385,0[2] | 330,0* | 378,0[1] | 335,0* | 358,0[1] | 319,0* | 331,0[1] | 271,0* | 272,0[1] | 209,0 | 212,0[1] | | | | | | | | | | |
| | BV | 305,0* | 436,0[3] | 330,0* | 417,0[1] | 348,0* | 391,0[1] | 329,0* | 354,0[1] | 275,0* | 277,0[1] | 211,0 | 215,0[1] | | | | | | | | | | |
| 26 | B | | 356,0[3] | 293,0* | 351,0[1] | 315,0* | 344,0[1] | 303,0* | 325,0[1] | 266,0* | 270,0[1] | 208,0* | 213,0[1] | 164,0 | 164,0 | | | | | | | | |
| | BV | | 408,0[3] | 293,0* | 396,0[2] | 327,0* | 382,0[1] | 314,0* | 353,0[1] | 271,0* | 278,0[1] | 209,0 | 216,0[1] | 165,0 | 165,0 | | | | | | | | |
| 28 | B | | 331,0[5] | 261,0* | 327,0[2] | 296,0* | 322,0[1] | 284,0* | 316,0[1] | 258,0* | 268,0[1] | 210,0* | 212,0[1] | 161,0 | 164,0[1] | 125,0 | 125,0 | | | | | | |
| | BV | | 380,0[4] | 261,0* | 372,0[2] | 309,0* | 366,0[2] | 298,0* | 350,0[1] | 265,0* | 278,0[1] | 215,0* | 216,0[1] | 163,0 | 165,0[1] | 125,0 | 125,0 | | | | | | |
| 30 | B | | 309,0[7] | 226,0* | 306,0[4] | 277,0* | 302,0[2] | 267,0* | 297,0[1] | 248,0* | 267,0[1] | 207,0* | 211,0[1] | 163,0* | 163,0 | 123,0 | 124,0[1] | 107,0 | 107,0 | 92,6 | 92,6 | | |
| | BV | | 353,0[4] | 226,0* | 349,0[3] | 291,0* | 347,0[3] | 281,0* | 334,0[2] | 257,0* | 278,0[1] | 211,0* | 216,0[1] | 166,0* | 166,0 | 124,0 | 125,0[1] | 108,0 | 108,0 | 92,8 | 92,8 | | |
| 32 | B | | 287,0[7] | | 287,0[5] | 262,0* | 283,0[3] | 253,0* | 279,0[2] | 236,0* | 265,0[1] | 204,0* | 210,0[1] | 161,0* | 162,0[1] | 121,0 | 123,0[1] | 105,0 | 106,0[1] | 91,6 | 91,6 | 78,9 | 78,9 |
| | BV | | 329,0[3] | | 326,0[1] | 267,0* | 326,0[4] | 267,0* | 319,0[2] | 246,0* | 279,0[1] | 209,0* | 216,0[1] | 164,0* | 165,0[1] | 122,0 | 124,0[1] | 106,0 | 107,0[1] | 91,7 | 91,7 | 78,9 | 78,9 |
| 34 | B | | 267,0[8] | | 268,0[5] | 243,0* | 266,0[5] | 241,0* | 263,0[3] | 225,0* | 252,0[1] | 200,0* | 209,0[1] | 160,0* | 162,0[1] | 123,0* | 123,0 | 104,0 | 106,0[1] | 90,4 | 91,2[1] | 77,9 | 77,9 |
| | BV | | 308,0[4] | | 305,0[2] | 244,0* | 307,0[4] | 250,0* | 304,0[3] | 235,0* | 271,0[2] | 206,0* | 215,0[1] | 162,0* | 164,0[1] | 124,0* | 124,0 | 104,0 | 106,0[1] | 90,7 | 91,5[1] | 78,0 | 78,0 |
| 36 | B | | 251,0[11] | | 250,0[6] | 209,0* | 251,0[6] | 229,0* | 249,0[4] | 215,0* | 241,0[2] | 196,0* | 208,0[1] | 158,0* | 161,0[1] | 121,0* | 122,0[1] | 105,0* | 105,0 | 89,3 | 90,8[1] | 77,0 | 77,7[1] |
| | BV | | 289,0[7] | | 286,0[3] | 210,0* | 288,0[5] | 231,0* | 286,0[4] | 223,0* | 271,0[2] | 203,0* | 215,0[1] | 161,0* | 164,0[1] | 123,0* | 123,0 | 105,0* | 105,0 | 89,7 | 91,1[1] | 77,2 | 77,9[1] |
| 38 | B | | 236,0[11] | | 234,0[5] | | 237,0[7] | 212,0* | 235,0[5] | 205,0* | 229,0[2] | 191,0* | 204,0[2] | 156,0* | 160,0[1] | 120,0* | 121,0[1] | 103,0* | 104,0[1] | 90,1* | 90,2[1] | 76,2 | 77,3[1] |
| | BV | | 271,0[8] | | 270,0[4] | | 270,0[5] | 213,0* | 270,0[4] | 209,0* | 258,0[2] | 198,0* | 213,0[1] | 159,0* | 163,0[1] | 122,0* | 122,0 | 104,0* | 105,0[1] | 90,5* | 90,6[1] | 76,4 | 77,5[1] |
| 40 | B | | 221,0[11] | | 221,0[7] | | 223,0[9] | 192,0* | 222,0[5] | 195,0* | 217,0[3] | 184,0* | 204,0[2] | 154,0* | 160,0[1] | 119,0* | 120,0[1] | 102,0* | 103,0[1] | 89,3* | 89,4[1] | 76,7* | 76,7 |
| | BV | | 255,0[9] | | 254,0[6] | | 253,0[6] | 192,0* | 253,0[4] | 195,0* | 245,0[2] | 189,0* | 211,0[2] | 157,0* | 163,0[1] | 121,0* | 122,0[1] | 103,0* | 104,0[1] | 89,8* | 89,9[1] | 77,0* | 77,0 |
| 44 | B | | 195,0[11] | | 199,0[11] | | 199,0[10] | | 199,0[8] | 172,0* | 196,0[4] | 167,0* | 191,0[2] | 151,0* | 158,0[2] | 117,0* | 119,0[1] | 99,1* | 101,0[1] | 87,5* | 88,0[1] | 75,2* | 75,3[1] |
| | BV | | 226,0[11] | | 226,0[7] | | 225,0[6] | | 225,0[5] | 171,0* | 219,0[1] | 168,0* | 205,0[1] | 153,0* | 161,0[2] | 119,0* | 121,0[1] | 100,0* | 102,0[1] | 88,3* | 88,7[1] | 75,6* | 75,8[1] |
| 48 | B | | 172,0[10] | | 177,0[11] | | 177,0[11] | | 179,0[9] | 151,0* | 176,0[5] | 149,0* | 174,0[3] | 144,0* | 155,0[2] | 115,0* | 118,0[2] | 96,2* | 98,0[1] | 86,0* | 86,6[1] | 73,7* | 74,0[1] |
| | BV | | 200,0[10] | | 205,0[10] | | 204,0[11] | | 202,0[6] | 150,0* | 198,0[2] | 149,0* | 195,0[1] | 145,0* | 160,0[2] | 117,0* | 120,0[2] | 97,4* | 100,0[1] | 86,8* | 87,4[1] | 74,3* | 74,5[1] |
| 52 | B | | 152,0[9] | | 157,0[10] | | 159,0[11] | | 160,0[10] | 130,0* | 160,0[6] | 134,0* | 157,0[4] | 130,0* | 149,0[1] | 113,0* | 117,0[2] | 93,5* | 96,9[2] | 84,4* | 85,6[2] | 72,3* | 72,9[2] |
| | BV | | 178,0[9] | | 182,0[10] | | 185,0[11] | | 185,0[8] | 129,0* | 180,0[4] | 134,0* | 178,0[2] | 131,0* | 156,0[1] | 115,0* | 119,0[2] | 94,7* | 98,3[2] | 85,3* | 86,5[2] | 72,9* | 73,5[2] |
| 56 | B | | 136,0[8] | | 139,0[9] | | 142,0[11] | | 146,0[11] | | 145,0[7] | 120,0* | 142,0[4] | 118,0* | 138,0[3] | 110,0* | 116,0[3] | 90,8* | 95,5[2] | 82,9* | 84,8[2] | 71,0* | 72,0[2] |
| | BV | | 159,0[8] | | 163,0[9] | | 166,0[11] | | 168,0[9] | | 165,0[5] | 120,0* | 163,0[2] | 118,0* | 152,0[2] | 112,0* | 118,0[2] | 92,1* | 96,9[2] | 83,8* | 85,8[2] | 71,6* | 72,7[2] |
| 60 | B | | 121,0[7] | | 125,0[9] | | 127,0[10] | | 132,0[11] | | 132,0[8] | 107,0* | 129,0[5] | 107,0* | 127,0[3] | 103,0* | 114,0[3] | 88,0* | 93,5[2] | 81,4* | 83,5[2] | 69,6* | 71,1[2] |
| | BV | | 143,0[7] | | 147,0[9] | | 149,0[10] | | 154,0[11] | | 151,0[5] | 107,0* | 149,0[3] | 107,0* | 144,0[2] | 104,0* | 116,0[2] | 89,4* | 94,9[2] | 82,4* | 84,6[2] | 70,3* | 71,9[2] |
| 64 | B | | | | 112,0[8] | | 113,0[9] | | 117,0[10] | | 121,0[10] | 90,8* | 118,0[6] | 96,9* | 116,0[3] | 94,6* | 111,0[2] | 85,3* | 91,7[3] | 79,7* | 82,8[3] | 68,2* | 69,8[3] |
| | BV | | | | 133,0[8] | | 134,0[9] | | 138,0[10] | | 138,0[6] | 91,0* | 136,0[3] | 97,2* | 134,0[2] | 94,8* | 115,0[2] | 86,6* | 93,3[3] | 80,8* | 83,9[3] | 68,9* | 70,6[3] |
| 68 | B | | | | 101,0[7] | | 101,0[8] | | 105,0[9] | | 112,0[11] | | 110,0[6] | 87,8* | 107,0[4] | 86,7* | 104,0[3] | 82,4* | 90,0[3] | 77,6* | 81,7[3] | 66,7* | 69,2[3] |
| | BV | | | | 120,0[7] | | 120,0[8] | | 124,0[9] | | 129,0[8] | | 126,0[4] | 87,9* | 124,0[2] | 86,6* | 111,0[2] | 83,5* | 91,6[3] | 78,8* | 82,8[3] | 67,5* | 70,0[3] |
| 72 | B | | | | | | 90,4[7] | | 94,5[9] | | 102,0[11] | | 102,0[8] | 77,4* | 99,7[5] | 79,5* | 97,3[3] | 78,1* | 88,2[3] | 75,1* | 80,4[3] | 65,1* | 68,0[3] |
| | BV | | | | | | 109,0[7] | | 113,0[9] | | 118,0[9] | | 118,0[5] | 77,3* | 115,0[3] | 79,3* | 108,0[2] | 78,4* | 89,9[3] | 76,3* | 81,5[3] | 66,0* | 68,8[3] |
| 76 | B | | | | | | | | 84,7[8] | | 90,9[10] | | 94,6[9] | 67,6* | 92,9[6] | 72,9* | 90,5[4] | 72,7* | 85,7[4] | 70,7* | 79,1[3] | 63,3* | 67,1[4] |
| | BV | | | | | | | | 102,0[8] | | 108,0[10] | | 109,0[6] | 67,6* | 106,0[3] | 73,0* | 103,0[2] | 72,5* | 88,0[3] | 71,0* | 80,3[3] | 64,1* | 67,9[4] |
| 80 | B | | | | | | | | 76,0[7] | | 81,6[9] | | 87,5[10] | | 86,4[7] | 65,6* | 83,8[4] | 66,7* | 83,3[4] | 65,4* | 77,1[4] | 61,4* | 66,1[4] |
| | BV | | | | | | | | 92,5[7] | | 97,5[9] | | 100,0[7] | | 98,0[4] | 65,7* | 95,5[2] | 66,8* | 86,0[3] | 65,4* | 78,7[3] | 62,0* | 66,9[4] |
| 84 | B | | | | | | | | | | 73,3[9] | | 80,8[11] | | 80,1[7] | 58,6* | 77,8[5] | 60,6* | 77,4[4] | 60,3* | 75,0[4] | 58,3* | 65,1[4] |
| | BV | | | | | | | | | | 88,5[9] | | 93,2[8] | | 90,6[4] | 58,7* | 88,0[2] | 60,7* | 84,0[3] | 60,3* | 76,9[3] | 58,6* | 65,9[4] |
| 88 | B | | | | | | | | | | 65,5[8] | | 72,4[10] | | 74,5[8] | 50,5* | 72,1[5] | 54,4* | 71,5[4] | 55,1* | 70,1[4] | 54,0* | 63,8[4] |
| | BV | | | | | | | | | | 80,1[8] | | 87,1[10] | | 84,7[5] | 50,6* | 82,3[3] | 54,4* | 80,1[5] | 55,3* | 75,2[3] | 54,1* | 64,8[4] |
| 92 | B | | | | | | | | | | 58,5[7] | | 64,8[9] | | 69,8[9] | | 67,4[6] | 48,5* | 66,8[5] | 49,5* | 65,4[4] | 49,7* | 61,9[3] |
| | BV | | | | | | | | | | 72,5[7] | | 79,1[9] | | 79,7[6] | | 76,7[4] | 48,4* | 75,9[3] | 49,5* | 72,2[3] | 49,8* | 63,0[4] |
| 96 | B | | | | | | | | | | | | 58,2[9] | | 64,3[10] | | 63,1[7] | 38,8* | 62,1[6] | 44,3* | 60,9[5] | 44,6* | 58,4[4] |
| | BV | | | | | | | | | | | | 72,0[9] | | 74,7[7] | | 72,2[4] | 38,9* | 71,4[3] | 44,3* | 69,2[3] | 44,6* | 61,3[3] |
| 100 | B | | | | | | | | | | | | 51,8[8] | | 57,9[10] | | 59,4[8] | | 58,3[6] | 37,6* | 57,0[5] | 39,8* | 55,0[4] |
| | BV | | | | | | | | | | | | 65,1[8] | | 69,4[8] | | 68,2[5] | | 67,5[4] | 37,7* | 65,7[3] | 39,8* | 59,7[3] |
| 104 | B | | | | | | | | | | | | 46,0[7] | | 51,5[9] | | 55,5[9] | | 54,9[7] | | 53,6[6] | 35,1* | 51,9[5] |
| | BV | | | | | | | | | | | | 58,8[7] | | 64,2[9] | | 63,4[6] | | 62,5[5] | | 60,8[4] | 35,1* | 57,9[3] |
| 108 | B | | | | | | | | | | | | | | 46,2[9] | | 50,9[10] | | 51,3[8] | | 50,4[7] | 27,3* | 48,6[6] |
| | BV | | | | | | | | | | | | | | 58,4[9] | | 59,1[7] | | 58,3[5] | | 56,8[4] | 27,3* | 54,3[3] |
| 112 | B | | | | | | | | | | | | | | 40,7[8] | | 46,2[10] | | 47,0[9] | | 47,6[8] | | 45,3[7] |
| | BV | | | | | | | | | | | | | | 52,5[8] | | 55,2[8] | | 54,4[6] | | 53,0[5] | | 51,2[4] |
| 116 | B | | | | | | | | | | | | | | 35,7[7] | | 40,8[9] | | 43,4[10] | | 43,2[8] | | 42,4[7] |
| | BV | | | | | | | | | | | | | | 47,1[7] | | 52,0[9] | | 51,0[7] | | 49,6[5] | | 47,9[4] |
| 120 | B | | | | | | | | | | | | | | | | 35,7[8] | | 39,0[10] | | 39,6[9] | | 39,0[8] |
| | BV | | | | | | | | | | | | | | | | 46,6[8] | | 48,2[8] | | 46,7[6] | | 44,9[5] |
| 124 | B | | | | | | | | | | | | | | | | 31,5[8] | | 34,0[9] | | 36,6[10] | | 35,6[9] |
| | BV | | | | | | | | | | | | | | | | 42,1[8] | | 44,6[9] | | 44,2[7] | | 42,1[5] |
| 128 | B | | | | | | | | | | | | | | | | 27,0[7] | | 29,4[8] | | 31,7[9] | | 33,0[10] |
| | BV | | | | | | | | | | | | | | | | 37,4[7] | | 39,7[8] | | 41,3[9] | | 39,7[6] |
| 132 | B | | | | | | | | | | | | | | | | | | 25,1[7] | | 27,2[8] | | 29,8[10] |
| | BV | | | | | | | | | | | | | | | | | | 35,1[7] | | 37,2[8] | | 37,2[8] |
| 136 | B | | | | | | | | | | | | | | | | | | | | 23,5[8] | | 25,4[9] |
| | BV | | | | | | | | | | | | | | | | | | | | 33,2[8] | | 34,1[8] |
| 140 | B | | | | | | | | | | | | | | | | | | | | 19,9[7] | | 21,4[8] |
| | BV | | | | | | | | | | | | | | | | | | | | 29,0[7] | | 30,6[8] |
| 144 | B | | | | | | | | | | | | | | | | | | | | | | 18,0[7] |
| | BV | | | | | | | | | | | | | | | | | | | | | | 26,5[7] |

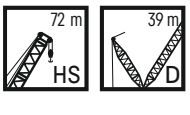
1) 12°; 2) 17°; 3) 22°; 4) 27°; 5) 32°; 6) 37°; 7) 42°; 8) 47°; 9) 52°; 10) 57°; 11) 62°




HS 66 m

| m | | W 18 m | | W 24 m | | W 30 m | | W 36 m | | W 48 m | | W 60 m | | W 72 m | | W 84 | | W 90 | | W 96 | | W 102 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax |
| 12 | B | 421,0 | 421,0 | | | | | | | | | | | | | | | | | | | | |
| | BV | 423,0 | 423,0 | | | | | | | | | | | | | | | | | | | | |
| 14 | B | 416,0 | 427,0[1] | 382,0 | 382,0 | | | | | | | | | | | | | | | | | | |
| | BV | 422,0 | 433,0[1] | 386,0 | 386,0 | | | | | | | | | | | | | | | | | | |
| 16 | B | 427,0* | 427,0 | 362,0 | 387,0[1] | 343,0 | 350,0[1] | 314,0 | 314,0 | | | | | | | | | | | | | | |
| | BV | 436,0* | 438,0[1] | 367,0 | 394,0[1] | 347,0 | 356,0[1] | 318,0 | 318,0 | | | | | | | | | | | | | | |
| 18 | B | 404,0* | 419,0[1] | 374,0* | 383,0[1] | 352,0* | 352,0 | 302,0 | 311,0[1] | | | | | | | | | | | | | | |
| | BV | 413,0* | 439,0[1] | 381,0* | 395,0[1] | 360,0* | 360,0 | 306,0 | 317,0[1] | | | | | | | | | | | | | | |
| 20 | B | 383,0* | 412,0[1] | 356,0* | 377,0[1] | 339,0* | 346,0[1] | 312,0* | 312,0 | 248,0 | 248,0 | | | | | | | | | | | | |
| | BV | 391,0* | 440,0[1] | 363,0* | 395,0[1] | 347,0* | 359,0[1] | 319,0* | 319,0 | 251,0 | 251,0 | | | | | | | | | | | | |
| 22 | B | 359,0* | 405,0[1] | 339,0* | 371,0[1] | 325,0* | 341,0[1] | 302,0* | 310,0[1] | 242,0 | 250,0[1] | 197,0 | 197,0 | | | | | | | | | | |
| | BV | 363,0* | 441,0[1] | 346,0* | 396,0[1] | 334,0* | 360,0[1] | 309,0* | 320,0[1] | 245,0 | 255,0[1] | | | | | | | | | | | | |
| 24 | B | 315,0* | 377,0[1] | 323,0* | 365,0[1] | 312,0* | 336,0[1] | 291,0* | 307,0[1] | 250,0* | 251,0[1] | 195,0 | 197,0[1] | | | | | | | | | | |
| | BV | 315,0* | 418,0[2] | 329,0* | 397,0[1] | 320,0* | 361,0[1] | 298,0* | 322,0[1] | 255,0* | 256,0[1] | 197,0 | 199,0[1] | | | | | | | | | | |
| 26 | B | 247,0* | 349,0[2] | 301,0* | 344,0[2] | 295,0* | 332,0[1] | 279,0* | 305,0[1] | 242,0* | 250,0[1] | 192,0 | 197,0[1] | 154,0 | 154,0 | | | | | | | | |
| | BV | 249,0* | 397,0[4] | 302,0* | 380,0[2] | 305,0* | 361,0[1] | 287,0* | 324,0[1] | 249,0* | 256,0[1] | 194,0 | 200,0[1] | 155,0 | 155,0 | | | | | | | | |
| 28 | B | | 325,0[4] | 270,0* | 321,0[2] | 278,0* | 315,0[1] | 266,0* | 302,0[1] | 234,0* | 249,0[1] | 196,0* | 197,0[1] | 152,0 | 154,0[1] | 119,0 | 119,0 | | | | | | |
| | BV | | 373,0[4] | 270,0* | 363,0[3] | 289,0* | 348,0[1] | 276,0* | 325,0[1] | 241,0* | 257,0[1] | 200,0* | 201,0[1] | 153,0 | 155,0[1] | 119,0 | 119,0 | | | | | | |
| 30 | B | | 304,0[8] | 236,0* | 301,0[3] | 262,0* | 296,0[2] | 251,0* | 290,0[1] | 226,0* | 248,0[1] | 192,0* | 196,0[1] | 149,0 | 153,0[1] | 117,0 | 118,0[1] | 102,0 | 102,0 | | | | |
| | BV | | 348,0[5] | 236,0* | 342,0[3] | 273,0* | 333,0[2] | 263,0* | 317,0[1] | 233,0* | 257,0[1] | 197,0* | 201,0[1] | 151,0 | 155,0[1] | 118,0 | 119,0[1] | 102,0 | 102,0 | | | | |
| 32 | B | | 285,0[9] | 184,0* | 282,0[5] | 247,0* | 278,0[3] | 238,0* | 274,0[2] | 217,0* | 247,0[1] | 188,0* | 195,0[1] | 152,0* | 153,0[1] | 116,0 | 118,0[1] | 100,0 | 101,0[1] | 87,3 | 87,3 | 75,2 | 75,2 |
| | BV | | 325,0[5] | 184,0* | 322,0[4] | 259,0* | 319,0[3] | 249,0* | 308,0[2] | 225,0* | 258,0[1] | 193,0* | 201,0[1] | 154,0* | 155,0[1] | 116,0 | 118,0[1] | 101,0 | 101,0 | 87,5 | 87,5 | 75,4 | 75,4 |
| 34 | B | | 266,0[9] | | 266,0[7] | 235,0* | 262,0[4] | 227,0* | 258,0[2] | 209,0* | 242,0[1] | 184,0* | 195,0[1] | 150,0* | 152,0[1] | 117,0* | 117,0 | 98,5 | 100,0[1] | 86,3 | 87,0[1] | 74,4 | 74,4 |
| | BV | | 304,0[3] | | 302,0[4] | 245,0* | 302,0[4] | 237,0* | 295,0[3] | 217,0* | 255,0[1] | 189,0* | 200,0[1] | 153,0* | 155,0[1] | 118,0* | 118,0 | 99,0 | 101,0[1] | 86,5 | 87,3[1] | 74,6 | 74,6 |
| 36 | B | | 248,0[10] | | 250,0[7] | 214,0* | 247,0[5] | 217,0* | 244,0[3] | 200,0* | 231,0[1] | 180,0* | 194,0[1] | 149,0* | 152,0[1] | 116,0* | 117,0[1] | 99,8* | 99,9[1] | 85,2 | 86,7[1] | 73,7 | 74,2[1] |
| | BV | | 285,0[5] | | 283,0[2] | 218,0* | 286,0[5] | 227,0* | 281,0[3] | 209,0* | 251,0[2] | 185,0* | 200,0[1] | 152,0* | 155,0[1] | 117,0* | 118,0[1] | 100,0* | 100,0 | 85,6 | 87,0[1] | 73,8 | 74,4[1] |
| 38 | B | | 233,0[11] | | 234,0[7] | 168,0* | 233,0[6] | 206,0* | 231,0[4] | 192,0* | 224,0[2] | 175,0* | 193,0[1] | 148,0* | 151,0[1] | 115,0* | 116,0[1] | 98,5* | 99,0[1] | 86,3* | 86,3 | 72,9 | 73,9[1] |
| | BV | | 268,0[9] | | 266,0[5] | 168,0* | 270,0[6] | 217,0* | 266,0[4] | 201,0* | 246,0[2] | 180,0* | 200,0[1] | 150,0* | 154,0[1] | 116,0* | 117,0[1] | 99,3* | 99,7[1] | 86,7* | 86,7 | 73,1 | 74,2[1] |
| 40 | B | | 219,0[11] | | 220,0[8] | | 221,0[8] | 196,0* | 219,0[5] | 184,0* | 212,0[2] | 169,0* | 189,0[2] | 146,0* | 151,0[1] | 114,0* | 115,0[1] | 97,2* | 98,1[1] | 85,4* | 85,7[1] | 73,5* | 73,5 |
| | BV | | 253,0[11] | | 251,0[5] | | 255,0[7] | 198,0* | 252,0[5] | 193,0* | 237,0[3] | 176,0* | 198,0[1] | 149,0* | 154,0[1] | 116,0* | 117,0[1] | 98,1* | 99,0[1] | 86,0* | 86,1[1] | 73,8* | 73,8 |
| 44 | B | | 193,0[11] | | 196,0[11] | | 198,0[10] | 144,0* | 197,0[7] | 170,0* | 193,0[4] | 158,0* | 183,0[2] | 141,0* | 149,0[2] | 112,0* | 114,0[1] | 94,6* | 96,3[1] | 83,9* | 84,4[1] | 72,2* | 72,3[1] |
| | BV | | 224,0[11] | | 226,0[8] | | 225,0[7] | 144,0* | 225,0[6] | 175,0* | 219,0[3] | 165,0* | 195,0[2] | 145,0* | 153,0[1] | 114,0* | 116,0[1] | 95,6* | 97,5[1] | 84,6* | 85,1[1] | 72,6* | 72,8[1] |
| 48 | B | | 170,0[10] | | 176,0[11] | | 176,0[11] | | 179,0[10] | 155,0* | 174,0[5] | 147,0* | 171,0[3] | 135,0* | 149,0[2] | 110,0* | 113,0[2] | 91,9* | 94,7[1] | 82,4* | 83,1[1] | 70,8* | 71,1[1] |
| | BV | | 198,0[10] | | 202,0[9] | | 202,0[9] | | 201,0[7] | 155,0* | 197,0[3] | 151,0* | 190,0[1] | 139,0* | 153,0[2] | 112,0* | 115,0[2] | 93,1* | 96,0[1] | 83,2* | 84,0[1] | 71,3* | 71,7[1] |
| 52 | B | | 151,0[9] | | 157,0[11] | | 158,0[11] | | 160,0[10] | 133,0* | 158,0[6] | 135,0* | 156,0[4] | 128,0* | 146,0[3] | 108,0* | 112,0[2] | 89,4* | 92,8[2] | 80,8* | 82,2[2] | 69,5* | 70,0[2] |
| | BV | | 176,0[10] | | 182,0[11] | | 183,0[11] | | 182,0[8] | 133,0* | 178,0[4] | 135,0* | 174,0[1] | 132,0* | 151,0[2] | 110,0* | 115,0[2] | 90,6* | 94,2[2] | 81,7* | 83,1[2] | 70,1* | 70,7[2] |
| 56 | B | | 134,0[8] | | 139,0[10] | | 141,0[11] | | 144,0[11] | 98,1* | 145,0[8] | 122,0* | 142,0[5] | 120,0* | 138,0[3] | 105,0* | 111,0[2] | 86,7* | 91,8[2] | 79,3* | 81,4[2] | 68,2* | 69,2[2] |
| | BV | | 158,0[9] | | 162,0[10] | | 165,0[11] | | 168,0[11] | 98,2* | 163,0[5] | 122,0* | 160,0[2] | 121,0* | 149,0[2] | 108,0* | 114,0[2] | 88,0* | 93,3[2] | 80,3* | 82,5[2] | 68,8* | 70,0[2] |
| 60 | B | | 119,0[8] | | 123,0[9] | | 126,0[10] | | 131,0[11] | | 131,0[8] | 109,0* | 129,0[5] | 110,0* | 128,0[4] | 102,0* | 111,0[3] | 83,9* | 89,9[2] | 77,9* | 80,4[2] | 66,8* | 68,5[2] |
| | BV | | 142,0[8] | | 146,0[9] | | 148,0[10] | | 153,0[11] | | 150,0[6] | 109,0* | 147,0[3] | 110,0* | 145,0[2] | 105,0* | 113,0[3] | 85,4* | 91,5[2] | 79,0* | 81,6[2] | 67,6* | 69,3[2] |
| 64 | B | | 107,0[6] | | 110,0[8] | | 112,0[10] | | 117,0[11] | | 119,0[10] | 93,5* | 118,0[6] | 99,8* | 117,0[4] | 96,6* | 107,0[2] | 81,2* | 88,2[3] | 76,0* | 79,4[3] | 65,4* | 67,4[2] |
| | BV | | 128,0[7] | | 131,0[8] | | 133,0[10] | | 138,0[11] | | 138,0[7] | 93,5* | 136,0[4] | 99,9* | 134,0[2] | 97,6* | 111,0[2] | 82,7* | 89,8[3] | 77,3* | 80,7[3] | 66,3* | 68,2[2] |
| 68 | B | | | | 99,1[8] | | 100,0[9] | | 105,0[10] | | 110,0[11] | 66,8* | 108,0[7] | 90,6* | 107,0[5] | 89,4* | 103,0[4] | 78,1* | 86,6[3] | 73,8* | 78,7[3] | 63,9* | 66,7[3] |
| | BV | | | | 119,0[8] | | 120,0[9] | | 124,0[10] | | 127,0[8] | 66,8* | 125,0[4] | 90,7* | 123,0[3] | 89,5* | 109,0[3] | 79,5* | 88,4[3] | 75,1* | 80,0[3] | 64,8* | 67,5[3] |
| 72 | B | | | | 89,1[7] | | 89,3[8] | | 93,3[9] | | 100,0[11] | | 100,0[8] | 79,9* | 98,9[5] | 82,2* | 96,4[3] | 75,0* | 85,0[3] | 71,6* | 77,5[3] | 62,0* | 65,8[3] |
| | BV | | | | 108,0[7] | | 108,0[8] | | 112,0[9] | | 118,0[10] | | 115,0[5] | 79,8* | 114,0[3] | 82,0* | 106,0[3] | 76,6* | 86,9[3] | 72,8* | 78,9[3] | 63,0* | 66,7[3] |
| 76 | B | | | | | | 79,8[7] | | 83,3[8] | | 90,5[11] | | 93,1[9] | 70,6* | 91,9[6] | 75,3* | 89,8[4] | 72,0* | 82,6[3] | 69,2* | 76,4[3] | 60,3* | 64,7[3] |
| | BV | | | | | | 97,3[7] | | 101,0[8] | | 108,0[11] | | 107,0[6] | 70,6* | 106,0[4] | 75,4* | 102,0[2] | 72,9* | 85,3[3] | 70,2* | 77,8[3] | 61,2* | 65,7[4] |
| 80 | B | | | | | | | | 74,9[8] | | 80,8[10] | | 86,4[10] | 50,7* | 85,6[7] | 68,0* | 83,4[5] | 67,8* | 80,8[4] | 65,8* | 75,0[4] | 58,5* | 63,9[4] |
| | BV | | | | | | | | 91,5[8] | | 97,3[10] | | 100,0[7] | 50,7* | 98,5[4] | 68,0* | 95,9[3] | 67,8* | 83,6[3] | 66,3* | 76,6[3] | 59,5* | 64,9[4] |
| 84 | B | | | | | | | | 67,0[7] | | 72,0[9] | | 79,4[11] | | 80,2[8] | 60,8* | 77,8[5] | 61,9* | 75,8[4] | 61,1* | 73,9[4] | 56,7* | 63,0[4] |
| | BV | | | | | | | | 82,8[7] | | 87,7[9] | | 92,8[8] | | 92,4[5] | 60,9* | 90,1[3] | 61,8* | 81,8[3] | 61,1* | 75,3[4] | 57,5* | 64,1[4] |
| 88 | B | | | | | | | | | | 64,1[8] | | 72,1[11] | | 74,2[9] | 53,4* | 73,0[6] | 55,4* | 71,2[5] | 56,2* | 69,5[4] | 54,6* | 62,1[4] |
| | BV | | | | | | | | | | 79,1[8] | | 85,2[9] | | 86,2[6] | 53,3* | 84,2[4] | 55,4* | 78,9[3] | 56,1* | 73,5[3] | 54,8* | 63,2[4] |
| 92 | B | | | | | | | | | | 57,2[8] | | 64,3[10] | | 68,9[9] | 38,1* | 68,4[7] | 49,6* | 66,7[6] | 50,4* | 65,4[5] | 50,5* | 60,0[5] |
| | BV | | | | | | | | | | 71,7[8] | | 78,6[10] | | 79,8[7] | 38,1* | 77,9[4] | 49,6* | 75,5[4] | 50,4* | 71,1[5] | 50,6* | 62,0[4] |
| 96 | B | | | | | | | | | | 50,7[7] | | 57,0[9] | | 64,2[11] | | 63,8[8] | 40,9* | 62,2[7] | 45,2* | 60,8[6] | 45,4* | 58,3[5] |
| | BV | | | | | | | | | | 64,6[7] | | 70,8[9] | | 74,2[8] | | 72,4[5] | 41,0* | 70,5[4] | 45,1* | 67,8[4] | 45,4* | 60,6[4] |
| 100 | B | | | | | | | | | | | | 50,4[8] | | 58,4[11] | | 59,1[8] | | 57,8[7] | 38,9* | 56,6[6] | 40,7* | 54,3[5] |
| | BV | | | | | | | | | | | | 63,7[8] | | 69,3[9] | | 67,3[5] | | 65,6[4] | 39,0* | 64,0[4] | 40,6* | 59,2[4] |
| 104 | B | | | | | | | | | | | | 45,0[8] | | 51,7[10] | | 55,0[9] | | 53,8[8] | | 52,5[7] | 36,1* | 50,8[6] |
| | BV | | | | | | | | | | | | 57,7[8] | | 64,4[10] | | 63,2[6] | | 61,5[5] | | 60,1[4] | 36,1* | 56,8[4] |
| 108 | B | | | | | | | | | | | | 39,5[7] | | 45,7[9] | | 51,4[10] | | 50,0[8] | | 48,9[7] | 28,9* | 47,3[6] |
| | BV | | | | | | | | | | | | 51,8[7] | | 57,8[9] | | 59,7[7] | | 57,7[6] | | 56,1[5] | 28,9* | 54,1[4] |
| 112 | B | | | | | | | | | | | | | | 40,1[8] | | 46,4[11] | | 46,8[10] | | 45,7[8] | | 44,1[7] |
| | BV | | | | | | | | | | | | | | 51,8[8] | | 56,0[8] | | 54,3[7] | | 53,1[5] | | 51,3[4] |
| 116 | B | | | | | | | | | | | | | | 35,3[8] | | 41,0[10] | | 42,9[10] | | 42,9[9] | | 41,2[8] |
| | BV | | | | | | | | | | | | | | 46,7[8] | | 51,5[9] | | 51,7[8] | | 50,2[6] | | 48,4[5] |
| 120 | B | | | | | | | | | | | | | | 30,6[7] | | 35,8[9] | | 38,2[10] | | 39,1[9] | | 38,6[8] |
| | BV | | | | | | | | | | | | | | 41,6[7] | | 46,8[9] | | 47,5[9] | | 47,2[7] | | 45,3[6] |
| 124 | B | | | | | | | | | | | | | | | | 30,9[8] | | 33,6[10] | | 35,4[10] | | 36,0[9] |
| | BV | | | | | | | | | | | | | | | | 41,5[8] | | 43,5[9] | | 43,7[8] | | 42,2[6] |
| 128 | B | | | | | | | | | | | | | | | | 26,8[8] | | 28,9[9] | | 31,4[10] | | 32,1[10] |
| | BV | | | | | | | | | | | | | | | | 37,1[8] | | 39,2[9] | | 40,0[9] | | 39,1[7] |
| 132 | B | | | | | | | | | | | | | | | | 22,5[7] | | 24,5[8] | | 26,8[9] | | 28,9[10] |
| | BV | | | | | | | | | | | | | | | | 32,6[7] | | 34,5[8] | | 36,7[9] | | 36,2[8] |
| 136 | B | | | | | | | | | | | | | | | | | | 20,5[7] | | 22,5[8] | | 25,0[10] |
| | BV | | | | | | | | | | | | | | | | | | 30,0[7] | | 32,1[8] | | 33,6[9] |
| 140 | B | | | | | | | | | | | | | | | | | | | | 19,3[8] | | 21,0[9] |
| | BV | | | | | | | | | | | | | | | | | | | | 28,3[8] | | 30,1[9] |
| 144 | B | | | | | | | | | | | | | | | | | | | | 16,2[7] | | 17,5[8] |
| | BV | | | | | | | | | | | | | | | | | | | | 24,3[7] | | 25,9[8] |
| 148 | B | | | | | | | | | | | | | | | | | | | | | | 14,5[7] |
| | BV | | | | | | | | | | | | | | | | | | | | | | 22,1[7] |

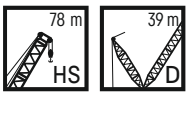
1) 12°; 2) 17°; 3) 22°; 4) 27°; 5) 32°; 6) 37°; 7) 42°; 8) 47°; 9) 52°; 10) 57°; 11) 62°




HS 72 m

| m | | W 18 m | | W 24 m | | W 30 m | | W 36 m | | W 48 m | | W 60 m | | W 72 m | | W 84 | | W 90 | | W 96 | | W 102 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax |
| 12 | B | 385,0 | 385,0 | | | | | | | | | | | | | | | | | | | | |
| | BV | 387,0 | 387,0 | | | | | | | | | | | | | | | | | | | | |
| 14 | B | 372,0 | 387,0[1] | 340,0 | 340,0 | | | | | | | | | | | | | | | | | | |
| | BV | 377,0 | 393,0[1] | 343,0 | 343,0 | | | | | | | | | | | | | | | | | | |
| 16 | B | 382,0* | 387,0[1] | 324,0 | 342,0[1] | 305,0 | 305,0 | 278,0 | 278,0 | | | | | | | | | | | | | | |
| | BV | 389,0* | 396,0[1] | 328,0 | 347,0[1] | 307,0 | 307,0 | 280,0 | 280,0 | | | | | | | | | | | | | | |
| 18 | B | 364,0* | 384,0[1] | 335,0* | 341,0[1] | 291,0 | 309,0[1] | 269,0 | 274,0[1] | | | | | | | | | | | | | | |
| | BV | 371,0* | 397,0[1] | 340,0* | 348,0[1] | 294,0 | 314,0[1] | 271,0 | 278,0[1] | | | | | | | | | | | | | | |
| 20 | B | 345,0* | 381,0[1] | 320,0* | 340,0[1] | 302,0* | 308,0[1] | 278,0* | 278,0 | 220,0 | 220,0 | | | | | | | | | | | | |
| | BV | 352,0* | 398,0[1] | 326,0* | 349,0[1] | 308,0* | 316,0[1] | 282,0* | 282,0 | 222,0 | 222,0 | | | | | | | | | | | | |
| 22 | B | 325,0* | 378,0[1] | 306,0* | 339,0[1] | 291,0* | 307,0[1] | 269,0* | 274,0[1] | 214,0 | 221,0[1] | 177,0 | 177,0 | | | | | | | | | | |
| | BV | 334,0* | 399,0[1] | 311,0* | 350,0[1] | 297,0* | 317,0[1] | 274,0* | 280,0[1] | 216,0 | 224,0[1] | 178,0 | 178,0 | | | | | | | | | | |
| 24 | B | 306,0* | 365,0[1] | 290,0* | 338,0[1] | 277,0* | 305,0[1] | 260,0* | 273,0[1] | 222,0* | 222,0 | 175,0 | 176,0[1] | | | | | | | | | | |
| | BV | 315,0* | 391,0[1] | 297,0* | 351,0[1] | 285,0* | 318,0[1] | 265,0* | 281,0[1] | 226,0* | 226,0 | 176,0 | 177,0[1] | | | | | | | | | | |
| 26 | B | 284,0* | 342,0[2] | 274,0* | 330,0[1] | 263,0* | 304,0[1] | 249,0* | 272,0[1] | 216,0* | 221,0[1] | 171,0 | 176,0[1] | 138,0 | 138,0 | | | | | | | | |
| | BV | 284,0* | 375,0[3] | 281,0* | 347,0[1] | 271,0* | 319,0[1] | 256,0* | 282,0[1] | 220,0* | 225,0[1] | 173,0 | 178,0[1] | 139,0 | 139,0 | | | | | | | | |
| 28 | B | | 320,0[3] | 260,0* | 314,0[2] | 248,0* | 300,0[1] | 236,0* | 270,0[1] | 208,0* | 220,0[1] | 175,0* | 176,0[1] | 136,0 | 138,0[1] | 107,0 | 107,0 | | | | | | |
| | BV | | 359,0[5] | 267,0* | 335,0[1] | 257,0* | 317,0[1] | 244,0* | 282,0[1] | 214,0* | 225,0[1] | 178,0* | 179,0[1] | 137,0 | 139,0[1] | 108,0 | 108,0 | | | | | | |
| 30 | B | | 299,0[5] | 243,0* | 295,0[2] | 234,0* | 288,0[2] | 223,0* | 268,0[1] | 201,0* | 219,0[1] | 172,0* | 175,0[1] | 134,0 | 137,0[1] | 106,0 | 106,0 | 92,4 | 92,4 | | | | |
| | BV | | 339,0[5] | 244,0* | 323,0[1] | 243,0* | 307,0[2] | 232,0* | 282,0[1] | 207,0* | 225,0[1] | 175,0* | 178,0[1] | 135,0 | 139,0[1] | 106,0 | 106,0 | 92,6 | 92,6 | | | | |
| 32 | B | | 281,0[9] | 208,0* | 278,0[4] | 222,0* | 272,0[2] | 212,0* | 259,0[2] | 194,0* | 218,0[1] | 167,0* | 174,0[1] | 137,0* | 137,0 | 104,0 | 106,0[1] | 91,2 | 91,7[1] | 79,8 | 79,8 | 68,7 | 68,7 |
| | BV | | 320,0[5] | 207,0* | 311,0[1] | 230,0* | 297,0[3] | 220,0* | 275,0[1] | 199,0* | 224,0[1] | 171,0* | 178,0[1] | 138,0* | 139,0[1] | 105,0 | 107,0[1] | 91,5 | 92,1[1] | 80,0 | 80,0 | 68,8 | 68,8 |
| 34 | B | | 265,0[11] | | 262,0[5] | 212,0* | 257,0[3] | 202,0* | 249,0[2] | 185,0* | 217,0[1] | 164,0* | 174,0[1] | 135,0* | 136,0[1] | 104,0* | 106,0[1] | 89,8 | 91,4[1] | 79,1 | 79,5[1] | 68,1 | 68,1 |
| | BV | | 300,0[2] | | 297,0[1] | 220,0* | 286,0[1] | 211,0* | 268,0[1] | 191,0* | 224,0[1] | 168,0* | 178,0[1] | 137,0* | 139,0[1] | 104,0 | 107,0[1] | 90,3 | 91,9[1] | 79,3 | 79,8[1] | 68,3 | 68,3 |
| 36 | B | | 248,0[11] | | 248,0[8] | 202,0* | 243,0[5] | 194,0* | 239,0[3] | 177,0* | 211,0[1] | 160,0* | 173,0[1] | 134,0* | 136,0[1] | 106,0* | 106,0 | 88,6 | 91,1[1] | 78,3 | 79,4[1] | 67,6 | 68,0[1] |
| | BV | | 282,0[3] | | 280,0[1] | 210,0* | 275,0[1] | 202,0* | 261,0[1] | 184,0* | 222,0[1] | 164,0* | 177,0[1] | 136,0* | 138,0[1] | 106,0* | 107,0[1] | 89,1 | 91,8[1] | 78,6 | 79,7[1] | 67,7 | 68,2[1] |
| 38 | B | | 232,0[11] | | 234,0[8] | 185,0* | 230,0[6] | 186,0* | 227,0[4] | 170,0* | 209,0[2] | 155,0* | 173,0[1] | 132,0* | 135,0[1] | 105,0* | 105,0 | 90,2* | 90,5[1] | 79,3* | 79,3 | 67,0* | 67,8[1] |
| | BV | | 266,0[5] | | 264,0[2] | 187,0* | 261,0[1] | 193,0* | 254,0[1] | 176,0* | 220,0[1] | 159,0* | 177,0[1] | 134,0* | 138,0[1] | 106,0* | 106,0 | 90,9* | 91,2[1] | 79,7* | 79,7 | 67,2 | 68,1[1] |
| 40 | B | | 217,0[11] | | 221,0[9] | | 219,0[7] | 178,0* | 216,0[5] | 163,0* | 200,0[2] | 150,0* | 171,0[1] | 130,0* | 135,0[1] | 104,0* | 104,0 | 89,2* | 89,7[1] | 78,7* | 78,8[1] | 67,7* | 67,7 |
| | BV | | 251,0[10] | | 249,0[4] | | 246,0[2] | 186,0* | 244,0[1] | 170,0* | 217,0[1] | 154,0* | 176,0[1] | 132,0* | 138,0[1] | 105,0* | 106,0[1] | 89,9* | 90,6[1] | 79,1* | 79,2[1] | 68,0* | 68,0 |
| 44 | B | | 192,0[11] | | 195,0[8] | | 197,0[10] | 158,0* | 195,0[7] | 152,0* | 188,0[5] | 139,0* | 167,0[2] | 125,0* | 134,0[1] | 102,0* | 104,0[1] | 86,8* | 88,3[1] | 77,3* | 77,7[1] | 66,6* | 66,7[1] |
| | BV | | 223,0[11] | | 224,0[9] | | 220,0[4] | 159,0* | 219,0[2] | 157,0* | 212,0[1] | 144,0* | 174,0[1] | 127,0* | 137,0[1] | 104,0* | 105,0[1] | 87,8* | 89,4[1] | 77,9* | 78,3[1] | 67,0* | 67,1[1] |
| 48 | B | | 170,0[11] | | 175,0[11] | | 176,0[11] | | 177,0[9] | 141,0* | 173,0[5] | 130,0* | 162,0[3] | 118,0* | 133,0[2] | 99,9* | 103,0[2] | 84,5* | 86,9[1] | 76,0* | 76,6[1] | 65,4* | 65,7[1] |
| | BV | | 198,0[11] | | 202,0[10] | | 199,0[8] | | 198,0[4] | 146,0* | 194,0[2] | 135,0* | 172,0[1] | 122,0* | 136,0[2] | 101,0* | 105,0[2] | 85,5* | 88,2[1] | 76,7* | 77,5[1] | 65,9* | 66,3[1] |
| 52 | B | | 150,0[10] | | 157,0[11] | | 157,0[11] | | 160,0[11] | 131,0* | 158,0[6] | 122,0* | 154,0[4] | 111,0* | 130,0[1] | 97,3* | 103,0[2] | 82,2* | 85,3[1] | 74,6* | 75,7[2] | 64,2* | 64,7[2] |
| | BV | | 176,0[10] | | 181,0[11] | | 182,0[11] | | 181,0[7] | 135,0* | 177,0[3] | 126,0* | 167,0[2] | 115,0* | 136,0[2] | 98,5* | 105,0[2] | 83,3* | 86,7[1] | 75,4* | 76,7[2] | 64,8* | 65,4[1] |
| 56 | B | | 134,0[9] | | 139,0[10] | | 141,0[11] | | 143,0[11] | 109,0* | 145,0[8] | 114,0* | 142,0[5] | 105,0* | 127,0[3] | 93,6* | 102,0[2] | 79,7* | 84,5[2] | 73,2* | 75,2[2] | 63,0* | 64,1[2] |
| | BV | | 157,0[9] | | 162,0[10] | | 165,0[11] | | 166,0[10] | 109,0* | 162,0[4] | 118,0* | 159,0[2] | 109,0* | 135,0[2] | 95,3* | 104,0[2] | 80,9* | 86,0[2] | 74,1* | 76,2[2] | 63,7* | 64,8[2] |
| 60 | B | | 119,0[9] | | 124,0[10] | | 126,0[11] | | 130,0[11] | | 132,0[9] | 106,0* | 131,0[6] | 99,2* | 124,0[4] | 88,9* | 101,0[3] | 77,2* | 83,0[2] | 71,6* | 74,6[2] | 61,8* | 63,5[2] |
| | BV | | 141,0[9] | | 146,0[10] | | 148,0[11] | | 152,0[11] | | 149,0[6] | 110,0* | 146,0[3] | 103,0* | 134,0[2] | 91,7* | 103,0[5] | 78,5* | 84,6[2] | 72,6* | 75,7[2] | 62,5* | 64,3[2] |
| 64 | B | | 107,0[8] | | 111,0[9] | | 112,0[10] | | 117,0[11] | | 120,0[10] | 95,7* | 120,0[7] | 92,6* | 117,0[5] | 84,2* | 99,4[2] | 74,7* | 81,5[3] | 69,7* | 73,3[2] | 60,4* | 62,7[2] |
| | BV | | 127,0[8] | | 131,0[9] | | 133,0[10] | | 138,0[11] | | 138,0[8] | 96,9* | 135,0[4] | 95,8* | 129,0[3] | 87,3* | 103,0[3] | 76,0* | 83,2[3] | 70,9* | 74,6[3] | 61,2* | 63,6[2] |
| 68 | B | | 95,4[6] | | 99,3[8] | | 99,8[9] | | 105,0[10] | | 109,0[11] | 75,3* | 110,0[7] | 86,1* | 108,0[5] | 79,1* | 96,7[2] | 72,1* | 80,1[3] | 67,4* | 72,9[3] | 58,8* | 61,9[3] |
| | BV | | 115,0[7] | | 118,0[8] | | 119,0[9] | | 124,0[10] | | 127,0[9] | 75,3* | 125,0[5] | 88,8* | 123,0[3] | 82,3* | 102,0[3] | 73,5* | 81,8[3] | 68,7* | 74,3[3] | 59,7* | 62,8[3] |
| 72 | B | | | | 89,5[7] | | 89,5[9] | | 93,8[10] | | 100,0[11] | | 100,0[8] | 79,9* | 98,8[6] | 73,9* | 93,7[3] | 69,1* | 78,7[3] | 64,8* | 71,8[3] | 56,9* | 61,2[3] |
| | BV | | | | 107,0[7] | | 108,0[9] | | 112,0[10] | | 117,0[9] | | 117,0[6] | 80,9* | 114,0[4] | 76,9* | 101,0[3] | 71,0* | 80,5[3] | 66,6* | 73,2[3] | 57,9* | 62,2[3] |
| 76 | B | | | | 80,5[7] | | 79,9[8] | | 83,7[9] | | 90,6[11] | | 92,4[9] | 72,1* | 91,0[6] | 68,7* | 88,0[5] | 65,2* | 77,3[3] | 61,4* | 70,7[3] | 55,2* | 60,2[3] |
| | BV | | | | 97,5[7] | | 97,4[8] | | 101,0[9] | | 108,0[11] | | 107,0[6] | 72,3* | 106,0[4] | 71,8* | 97,0[3] | 67,7* | 79,1[3] | 63,6* | 72,2[3] | 56,1* | 61,3[3] |
| 80 | B | | | | | | 71,4[7] | | 74,8[8] | | 80,8[10] | | 86,4[11] | 56,4* | 84,5[7] | 64,0* | 82,2[5] | 60,7* | 75,6[4] | 57,6* | 69,6[3] | 53,0* | 59,2[3] |
| | BV | | | | | | 87,9[7] | | 91,3[8] | | 97,4[10] | | 99,6[7] | 56,4* | 97,4[5] | 66,9* | 93,2[4] | 63,2* | 77,7[4] | 60,0* | 71,1[3] | 54,5* | 60,3[3] |
| 84 | B | | | | | | | | 66,7[7] | | 72,5[10] | | 79,4[11] | | 78,7[8] | 59,6* | 76,6[6] | 56,4* | 72,9[4] | 53,7* | 68,5[4] | 50,5* | 58,2[4] |
| | BV | | | | | | | | 82,5[7] | | 88,3[10] | | 93,2[9] | | 90,9[5] | 61,9* | 88,3[5] | 58,9* | 76,6[4] | 56,0* | 70,3[4] | 52,4* | 59,5[4] |
| 88 | B | | | | | | | | 59,7[7] | | 64,5[9] | | 72,2[11] | | 73,8[9] | 54,7* | 71,7[6] | 52,4* | 69,8[5] | 50,0* | 66,2[4] | 47,0* | 57,5[4] |
| | BV | | | | | | | | 74,8[7] | | 79,5[9] | | 86,6[10] | | 85,3[6] | 54,9* | 83,1[4] | 54,8* | 75,2[4] | 52,1* | 69,4[4] | 48,9* | 58,7[4] |
| 92 | B | | | | | | | | | | 57,2[8] | | 64,3[10] | | 68,7[10] | 42,4* | 67,1[7] | 48,7* | 65,0[6] | 46,4* | 63,8[5] | 43,6* | 56,4[5] |
| | BV | | | | | | | | | | 71,6[8] | | 78,7[10] | | 80,1[7] | 42,5* | 77,5[5] | 50,2* | 73,7[4] | 48,5* | 68,1[4] | 45,6* | 58,0[4] |
| 96 | B | | | | | | | | | | 50,6[7] | | 57,7[10] | | 63,2[11] | | 63,1[8] | 42,3* | 61,0[7] | 43,0* | 59,3[6] | 40,4* | 56,0[5] |
| | BV | | | | | | | | | | 64,4[7] | | 71,4[10] | | 74,8[8] | | 72,9[5] | 42,5* | 70,2[4] | 45,0* | 66,8[4] | 42,4* | 57,3[5] |
| 100 | B | | | | | | | | | | 44,9[7] | | 51,0[9] | | 57,9[11] | | 58,7[9] | | 57,3[8] | 39,1* | 55,7[6] | 37,3* | 52,9[6] |
| | BV | | | | | | | | | | 58,2[7] | | 64,2[9] | | 68,7[9] | | 68,5[6] | | 67,1[5] | 40,2* | 64,1[4] | 39,2* | 56,3[5] |
| 104 | B | | | | | | | | | | | | 44,9[8] | | 51,3[10] | | 54,2[9] | | 53,6[8] | 30,6* | 52,4[7] | 34,6* | 50,7[6] |
| | BV | | | | | | | | | | | | 57,6[8] | | 63,7[10] | | 63,7[7] | | 62,0[6] | 30,6* | 60,5[5] | 36,1* | 55,1[5] |
| 108 | B | | | | | | | | | | | | 39,4[7] | | 45,7[10] | | 50,2[10] | | 49,8[9] | | 49,2[8] | 30,2* | 47,9[7] |
| | BV | | | | | | | | | | | | 51,6[7] | | 57,9[10] | | 59,2[8] | | 57,5[7] | | 56,2[5] | 30,3* | 54,0[5] |
| 112 | B | | | | | | | | | | | | 34,6[7] | | 40,1[9] | | 46,4[11] | | 45,8[9] | | 45,4[9] | | 44,5[6] |
| | BV | | | | | | | | | | | | 46,4[7] | | 51,8[9] | | 54,9[8] | | 53,7[7] | | 52,4[6] | | 50,7[5] |
| 116 | B | | | | | | | | | | | | | | 34,8[8] | | 40,7[10] | | 42,9[11] | | 42,1[9] | | 41,1[8] |
| | BV | | | | | | | | | | | | | | 46,2[8] | | 51,7[10] | | 50,2[8] | | 48,8[7] | | 47,2[5] |
| 120 | B | | | | | | | | | | | | | | 29,9[7] | | 35,9[10] | | 38,4[11] | | 39,0[10] | | 37,9[9] |
| | BV | | | | | | | | | | | | | | 40,9[7] | | 46,9[10] | | 47,1[9] | | 45,9[7] | | 44,2[6] |
| 124 | B | | | | | | | | | | | | | | 25,8[7] | | 31,0[9] | | 33,2[10] | | 35,9[11] | | 35,2[9] |
| | BV | | | | | | | | | | | | | | 36,5[7] | | 41,6[9] | | 43,9[10] | | 43,2[8] | | 41,4[7] |
| 128 | B | | | | | | | | | | | | | | | | 26,2[8] | | 28,3[9] | | 30,9[10] | | 32,6[11] |
| | BV | | | | | | | | | | | | | | | | 36,6[8] | | 38,7[9] | | 40,3[9] | | 38,9[7] |
| 132 | B | | | | | | | | | | | | | | | | 22,0[7] | | 24,4[9] | | 26,9[10] | | 29,0[11] |
| | BV | | | | | | | | | | | | | | | | 32,0[7] | | 34,4[9] | | 36,6[10] | | 36,3[9] |
| 136 | B | | | | | | | | | | | | | | | | 18,9[7] | | 20,5[8] | | 22,6[9] | | 24,5[10] |
| | BV | | | | | | | | | | | | | | | | 28,2[7] | | 29,9[8] | | 32,2[9] | | 33,2[9] |
| 140 | B | | | | | | | | | | | | | | | | | | 17,1[7] | | 18,7[8] | | 20,3[9] |
| | BV | | | | | | | | | | | | | | | | | | 25,7[7] | | 27,8[8] | | 29,6[9] |
| 144 | B | | | | | | | | | | | | | | | | | | | | 15,7[7] | | 17,5[9] |
| | BV | | | | | | | | | | | | | | | | | | | | 23,7[7] | | 25,9[9] |
| 148 | B | | | | | | | | | | | | | | | | | | | | 13,1[7] | | 14,5[8] |
| | BV | | | | | | | | | | | | | | | | | | | | 20,5[7] | | 22,0[8] |
| 152 | B | | | | | | | | | | | | | | | | | | | | | | 11,6[7] |
| | BV | | | | | | | | | | | | | | | | | | | | | | 18,6[7] |

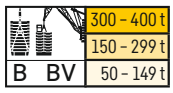
1) 12°; 2) 17°; 3) 22°; 4) 27°; 5) 32°; 6) 37°; 7) 42°; 8) 47°; 9) 52°; 10) 57°; 11) 62°

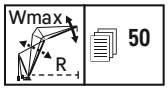



HS 78 m

| m | | W 18 m | | W 24 m | | W 30 m | | W 36 m | | W 48 m | | W 60 m | | W 72 m | | W 84 | | W 90 | | W 96 | | W 102 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax |
| 14 | B | 339,0 | 352,0[1] | 310,0 | 310,0 | | | | | | | | | | | | | | | | | | |
| | BV | 342,0 | 356,0[1] | 312,0 | 312,0 | | | | | | | | | | | | | | | | | | |
| 16 | B | 349,0* | 350,0[1] | 296,0 | 309,0[1] | 277,0 | 277,0 | | | | | | | | | | | | | | | | |
| | BV | 355,0* | 356,0[1] | 299,0 | 313,0[1] | 280,0 | 280,0 | | | | | | | | | | | | | | | | |
| 18 | B | 333,0* | 349,0[1] | 307,0* | 308,0[1] | 266,0 | 280,0[1] | 245,0 | 245,0 | | | | | | | | | | | | | | |
| | BV | 339,0* | 357,0[1] | 311,0* | 314,0[1] | 269,0 | 284,0[1] | 248,0 | 248,0 | | | | | | | | | | | | | | |
| 20 | B | 317,0* | 347,0[1] | 294,0* | 307,0[1] | 277,0* | 279,0[1] | 237,0 | 250,0[1] | 201,0 | 201,0 | | | | | | | | | | | | |
| | BV | 323,0* | 357,0[1] | 298,0* | 314,0[1] | 281,0* | 285,0[1] | 239,0 | 253,0[1] | 203,0 | 203,0 | | | | | | | | | | | | |
| 22 | B | 301,0* | 346,0[1] | 280,0* | 305,0[1] | 266,0* | 277,0[1] | 246,0* | 249,0[1] | 195,0 | 201,0[1] | | | | | | | | | | | | |
| | BV | 307,0* | 357,0[1] | 286,0* | 314,0[1] | 271,0* | 285,0[1] | 250,0* | 254,0[1] | 197,0 | 203,0[1] | | | | | | | | | | | | |
| 24 | B | 285,0* | 344,0[1] | 269,0* | 304,0[1] | 256,0* | 276,0[1] | 238,0* | 247,0[1] | 191,0* | 201,0[1] | 161,0 | 161,0 | | | | | | | | | | |
| | BV | 293,0* | 358,0[1] | 273,0* | 315,0[1] | 261,0* | 285,0[1] | 243,0* | 254,0[1] | 191,0 | 204,0[1] | 162,0 | 162,0 | | | | | | | | | | |
| 26 | B | 271,0* | 328,0[2] | 254,0* | 303,0[1] | 245,0* | 275,0[1] | 229,0* | 246,0[1] | 197,0* | 201,0[1] | 156,0 | 161,0[1] | 128,0 | 128,0 | | | | | | | | |
| | BV | 279,0* | 346,0[1] | 261,0* | 315,0[1] | 250,0* | 285,0[1] | 234,0* | 253,0[1] | 201,0* | 204,0[1] | 158,0 | 164,0[1] | 129,0 | 129,0 | | | | | | | | |
| 28 | B | | 311,0[3] | 240,0* | 291,0[2] | 232,0* | 274,0[1] | 220,0* | 245,0[1] | 191,0* | 199,0[1] | 161,0* | 161,0 | 127,0 | 128,0[1] | 100,0 | 100,0 | | | | | | |
| | BV | | 335,0[1] | 249,0* | 309,0[1] | 239,0* | 285,0[1] | 226,0* | 253,0[1] | 194,0* | 204,0[1] | 164,0* | 164,0 | 127,0 | 129,0[1] | 100,0 | 100,0 | | | | | | |
| 30 | B | | 293,0[4] | 227,0* | 279,0[3] | 218,0* | 265,0[1] | 208,0* | 243,0[1] | 184,0* | 198,0[1] | 158,0* | 161,0[1] | 124,0 | 127,0[1] | 98,9 | 98,9 | 86,3 | 86,3 | | | | |
| | BV | | 323,0[1] | 236,0* | 302,0[1] | 226,0* | 281,0[1] | 215,0* | 253,0[1] | 188,0* | 203,0[1] | 160,0* | 163,0[1] | 125,0 | 129,0[1] | 99,3 | 99,3 | 86,6 | 86,6 | | | | |
| 32 | B | | 276,0[8] | 215,0* | 268,0[4] | 206,0* | 255,0[2] | 198,0* | 238,0[1] | 177,0* | 197,0[1] | 153,0* | 160,0[1] | 127,0* | 127,0 | 97,6 | 99,2[1] | 85,6 | 85,6 | 74,7 | 74,7 | | |
| | BV | | 312,0[1] | 222,0* | 294,0[1] | 214,0* | 275,0[1] | 205,0* | 251,0[1] | 182,0* | 203,0[1] | 156,0* | 163,0[1] | 128,0* | 129,0[1] | 98,2 | 99,8[1] | 85,8 | 85,8 | 74,9 | 74,9 | | |
| 34 | B | | 260,0[11] | | 256,0[5] | 197,0* | 247,0[3] | 190,0* | 233,0[2] | 171,0* | 196,0[1] | 150,0* | 159,0[1] | 126,0* | 127,0[1] | 96,7 | 99,1[1] | 84,6 | 85,8[1] | 74,2 | 74,5[1] | 64,1 | 64,1 |
| | BV | | 295,0[2] | | 287,0[1] | 205,0* | 269,0[1] | 195,0* | 247,0[1] | 176,0* | 203,0[1] | 153,0* | 162,0[1] | 127,0* | 128,0[1] | 97,3 | 99,9[1] | 85,0 | 86,2[1] | 74,4 | 74,8[1] | 64,3 | 64,3 |
| 36 | B | | 245,0[11] | | 242,0[7] | 189,0* | 237,0[4] | 181,0* | 225,0[3] | 164,0* | 194,0[1] | 146,0* | 159,0[1] | 124,0* | 126,0[1] | 98,8* | 98,9[1] | 83,4 | 85,7[1] | 73,7 | 74,6[1] | 63,7 | 64,0[1] |
| | BV | | 278,0[3] | | 275,0[1] | 197,0* | 263,0[1] | 187,0* | 244,0[1] | 169,0* | 202,0[1] | 149,0* | 162,0[1] | 125,0* | 128,0[1] | 99,7* | 99,8[1] | 83,9 | 86,3[1] | 73,9 | 74,9[1] | 63,9 | 64,3[1] |
| 38 | B | | 230,0[11] | | 230,0[9] | 182,0* | 225,0[5] | 173,0* | 217,0[4] | 158,0* | 190,0[1] | 142,0* | 158,0[1] | 121,0* | 126,0[1] | 98,1* | 98,5[1] | 85,1* | 85,3[1] | 73,1 | 74,6[1] | 63,2 | 64,0[1] |
| | BV | | 262,0[4] | | 260,0[2] | 188,0* | 256,0[1] | 180,0* | 241,0[1] | 163,0* | 201,0[1] | 146,0* | 162,0[1] | 123,0* | 128,0[1] | 99,1* | 99,6[1] | 85,8* | 86,0[1] | 73,3 | 75,0[1] | 63,4 | 64,3[1] |
| 40 | B | | 215,0[11] | | 218,0[10] | | 214,0[6] | 167,0* | 211,0[4] | 152,0* | 186,0[2] | 138,0* | 158,0[1] | 119,0* | 126,0[1] | 97,2* | 98,1[1] | 84,3* | 84,7[1] | 74,4* | 74,4 | 62,7 | 63,9[1] |
| | BV | | 247,0[6] | | 246,0[2] | | 242,0[1] | 174,0* | 237,0[1] | 156,0* | 199,0[1] | 142,0* | 161,0[1] | 121,0* | 128,0[1] | 98,3* | 99,3[1] | 84,9* | 85,5[1] | 74,8* | 74,8 | 62,8 | 64,3[1] |
| 44 | B | | 191,0[11] | | 194,0[10] | | 195,0[10] | 156,0* | 192,0[6] | 140,0* | 176,0[1] | 129,0* | 154,0[1] | 115,0* | 125,0[1] | 95,4* | 97,3[1] | 82,0* | 83,5[1] | 73,2* | 73,4[1] | 63,2* | 63,2 |
| | BV | | 221,0[11] | | 221,0[6] | | 217,0[5] | 160,0* | 215,0[2] | 145,0* | 197,0[1] | 133,0* | 159,0[1] | 117,0* | 127,0[1] | 96,2* | 98,8[1] | 82,9* | 84,6[1] | 73,8* | 74,1[1] | 63,6* | 63,6 |
| 48 | B | | 169,0[11] | | 172,0[10] | | 175,0[11] | | 176,0[8] | 130,0* | 166,0[4] | 120,0* | 150,0[1] | 109,0* | 123,0[1] | 92,7* | 96,5[1] | 79,9* | 82,3[1] | 71,9* | 72,6[1] | 62,0* | 62,3[1] |
| | BV | | 197,0[11] | | 200,0[11] | | 197,0[6] | | 195,0[3] | 136,0* | 186,0[1] | 124,0* | 157,0[1] | 112,0* | 125,0[1] | 93,7* | 98,3[1] | 80,8* | 83,6[1] | 72,6* | 73,5[1] | 62,5* | 62,9[1] |
| 52 | B | | 149,0[11] | | 155,0[11] | | 155,0[11] | | 160,0[11] | 123,0* | 156,0[4] | 112,0* | 145,0[1] | 103,0* | 121,0[2] | 89,5* | 95,9[2] | 77,5* | 81,0[1] | 70,5* | 71,8[1] | 61,0* | 61,5[1] |
| | BV | | 175,0[11] | | 180,0[11] | | 180,0[10] | | 178,0[6] | 128,0* | 171,0[2] | 117,0* | 154,0[1] | 106,0* | 124,0[2] | 90,8* | 97,3[2] | 78,6* | 82,4[1] | 71,4* | 72,8[1] | 61,5* | 62,2[1] |
| 56 | B | | 133,0[10] | | 138,0[11] | | 140,0[11] | | 143,0[11] | 114,0* | 142,0[7] | 105,0* | 133,0[5] | 96,8* | 119,0[1] | 86,1* | 95,7[2] | 75,2* | 79,9[2] | 69,2* | 71,2[2] | 59,8* | 60,9[2] |
| | BV | | 156,0[10] | | 162,0[11] | | 163,0[11] | | 163,0[8] | 115,0* | 157,0[3] | 110,0* | 151,0[2] | 99,9* | 123,0[2] | 87,7* | 97,2[2] | 76,5* | 81,4[2] | 70,1* | 72,3[2] | 60,4* | 61,6[2] |
| 60 | B | | 117,0[9] | | 122,0[10] | | 125,0[11] | | 128,0[11] | | 131,0[9] | 99,0* | 126,0[5] | 91,0* | 116,0[2] | 82,1* | 94,3[2] | 72,8* | 78,9[2] | 67,5* | 70,8[2] | 58,6* | 60,4[2] |
| | BV | | 140,0[9] | | 144,0[10] | | 147,0[11] | | 150,0[11] | | 144,0[5] | 103,0* | 140,0[2] | 94,5* | 123,0[2] | 84,3* | 96,0[2] | 74,2* | 80,5[2] | 68,5* | 72,0[2] | 59,3* | 61,2[2] |
| 64 | B | | 105,0[9] | | 110,0[10] | | 112,0[11] | | 116,0[11] | | 119,0[10] | 92,4* | 119,0[7] | 85,6* | 110,0[2] | 77,7* | 93,0[2] | 70,5* | 77,4[2] | 65,5* | 69,8[2] | 57,0* | 59,8[2] |
| | BV | | 126,0[9] | | 130,0[10] | | 132,0[11] | | 137,0[11] | | 134,0[7] | 95,5* | 129,0[3] | 88,9* | 119,0[2] | 80,1* | 94,9[2] | 71,9* | 79,1[2] | 66,5* | 71,1[2] | 57,9* | 60,7[2] |
| 68 | B | | 93,9[8] | | 97,9[9] | | 99,3[10] | | 104,0[11] | | 108,0[11] | 79,9* | 110,0[8] | 79,7* | 103,0[5] | 73,1* | 91,7[2] | 67,8* | 76,0[3] | 63,0* | 69,0[3] | 55,4* | 58,6[3] |
| | BV | | 114,0[8] | | 117,0[9] | | 119,0[10] | | 124,0[11] | | 125,0[9] | 79,8* | 120,0[4] | 83,0* | 116,0[3] | 75,6* | 94,1[3] | 69,5* | 77,9[3] | 64,2* | 70,5[3] | 56,3* | 59,7[2] |
| 72 | B | | 84,1[7] | | 87,6[8] | | 88,1[9] | | 92,7[10] | | 98,1[11] | | 99,8[8] | 74,1* | 98,6[6] | 68,4* | 88,8[3] | 64,4* | 74,8[3] | 60,0* | 68,0[3] | 53,5* | 58,2[3] |
| | BV | | 103,0[7] | | 106,0[8] | | 107,0[9] | | 111,0[10] | | 116,0[11] | | 112,0[6] | 77,3* | 108,0[3] | 71,1* | 93,3[3] | 66,4* | 76,8[3] | 61,6* | 69,6[3] | 54,5* | 59,3[3] |
| 76 | B | | | | 78,4[7] | | 78,8[9] | | 83,1[10] | | 89,1[11] | 68,9* | 91,2[9] | 68,9* | 91,7[7] | 63,6* | 84,9[3] | 60,6* | 73,6[3] | 56,8* | 67,0[3] | 51,6* | 57,3[3] |
| | BV | | | | 95,9[7] | | 96,3[9] | | 100,0[10] | | 106,0[11] | 72,0* | 105,0[8] | 72,0* | 101,0[4] | 66,2* | 91,5[3] | 62,5* | 75,7[3] | 58,5* | 68,6[3] | 52,7* | 58,4[3] |
| 80 | B | | | | 70,4[7] | | 70,3[8] | | 74,0[9] | | 80,2[11] | 59,5* | 84,2[10] | 59,5* | 84,2[8] | 59,3* | 80,6[6] | 56,4* | 71,9[4] | 53,4* | 66,0[3] | 49,3* | 56,3[3] |
| | BV | | | | 87,0[7] | | 86,8[8] | | 90,6[9] | | 96,7[11] | | 97,8[8] | | 94,5[5] | 61,8* | 90,5[4] | 58,3* | 74,4[3] | 55,1* | 67,7[3] | 50,7* | 57,6[3] |
| 84 | B | | | | | | 62,4[7] | | 65,8[8] | | 71,2[10] | | 77,8[11] | | 77,6[8] | 55,2* | 75,5[7] | 52,5* | 70,9[4] | 49,8* | 64,8[4] | 46,4* | 55,4[3] |
| | BV | | | | | | 78,2[7] | | 81,5[8] | | 86,8[10] | | 91,2[9] | | 88,7[6] | 57,6* | 85,5[4] | 54,4* | 73,4[4] | 51,4* | 66,7[4] | 48,2* | 56,7[3] |
| 88 | B | | | | | | | | 58,4[7] | | 63,4[10] | | 70,8[11] | | 71,9[9] | 51,3* | 70,6[7] | 48,8* | 66,8[5] | 46,4* | 64,0[4] | 43,3* | 54,5[4] |
| | BV | | | | | | | | 73,5[7] | | 78,5[10] | | 85,2[10] | | 83,3[7] | 53,4* | 80,5[4] | 50,6* | 71,9[4] | 47,9* | 66,1[4] | 44,9* | 55,9[4] |
| 92 | B | | | | | | | | 51,9[7] | | 56,1[9] | | 63,8[11] | | 67,2[10] | 44,8* | 65,6[7] | 45,3* | 62,9[5] | 43,1* | 60,7[5] | 40,2* | 53,9[4] |
| | BV | | | | | | | | 66,4[7] | | 70,5[9] | | 78,2[11] | | 78,0[7] | 44,7* | 75,6[5] | 47,0* | 70,4[4] | 44,6* | 64,9[5] | 41,7* | 55,3[4] |
| 96 | B | | | | | | | | | | 49,3[8] | | 56,4[10] | | 62,3[11] | | 61,4[8] | 42,2* | 59,0[7] | 39,9* | 57,6[5] | 37,3* | 53,0[5] |
| | BV | | | | | | | | | | 63,1[8] | | 70,1[10] | | 73,4[8] | | 71,0[6] | 42,7* | 68,9[4] | 41,4* | 63,7[4] | 38,8* | 54,5[4] |
| 100 | B | | | | | | | | | | 43,3[7] | | 50,3[10] | | 56,8[11] | | 57,5[9] | | 55,7[8] | 36,9* | 54,1[6] | 34,4* | 51,1[5] |
| | BV | | | | | | | | | | 56,5[7] | | 63,4[10] | | 69,2[10] | | 67,0[6] | | 64,7[5] | 38,2* | 62,5[4] | 35,9* | 54,0[5] |
| 104 | B | | | | | | | | | | 38,0[7] | | 44,1[9] | | 50,9[11] | | 53,8[10] | | 52,1[8] | 32,1* | 51,1[7] | 31,6* | 49,2[6] |
| | BV | | | | | | | | | | 50,7[7] | | 56,7[9] | | 62,9[10] | | 63,3[7] | | 61,2[6] | 32,3* | 59,3[5] | 33,2* | 53,4[5] |
| 108 | B | | | | | | | | | | | | 38,4[8] | | 44,6[10] | | 49,6[11] | | 49,1[10] | | 47,9[8] | 29,3* | 45,9[7] |
| | BV | | | | | | | | | | | | 50,6[8] | | 56,8[10] | | 59,4[8] | | 57,6[7] | | 55,9[6] | 30,5* | 52,9[5] |
| 112 | B | | | | | | | | | | | | 33,1[7] | | 39,3[10] | | 45,4[11] | | 45,4[10] | | 44,7[9] | | 43,1[8] |
| | BV | | | | | | | | | | | | 44,9[7] | | 51,1[10] | | 54,9[9] | | 54,6[8] | | 52,8[6] | | 50,8[5] |
| 116 | B | | | | | | | | | | | | 28,6[7] | | 34,1[9] | | 40,4[11] | | 41,5[11] | | 41,0[10] | | 40,1[9] |
| | BV | | | | | | | | | | | | 40,0[7] | | 45,4[9] | | 50,4[10] | | 50,3[8] | | 49,8[7] | | 48,2[6] |
| 120 | B | | | | | | | | | | | | | | 29,0[8] | | 34,9[10] | | 37,6[11] | | 37,8[10] | | 37,2[9] |
| | BV | | | | | | | | | | | | | | 40,1[8] | | 45,9[10] | | 46,0[9] | | 46,2[8] | | 45,0[7] |
| 124 | B | | | | | | | | | | | | | | 24,5[7] | | 30,3[10] | | 32,8[11] | | 35,0[11] | | 33,9[9] |
| | BV | | | | | | | | | | | | | | 35,1[7] | | 41,0[10] | | 42,6[10] | | 42,2[8] | | 41,3[8] |
| 128 | B | | | | | | | | | | | | | | 20,8[7] | | 25,6[9] | | 28,0[10] | | 30,8[11] | | 31,3[11] |
| | BV | | | | | | | | | | | | | | 30,9[7] | | 36,0[9] | | 38,3[10] | | 38,9[9] | | 38,1[8] |
| 132 | B | | | | | | | | | | | | | | | | 21,4[8] | | 23,5[9] | | 26,0[10] | | 28,3[11] |
| | BV | | | | | | | | | | | | | | | | 31,3[8] | | 33,3[9] | | 35,9[10] | | 35,1[9] |
| 136 | B | | | | | | | | | | | | | | | | 17,8[7] | | 19,9[9] | | 22,0[10] | | 24,3[11] |
| | BV | | | | | | | | | | | | | | | | 26,9[7] | | 29,2[9] | | 31,7[10] | | 32,8[10] |
| 140 | B | | | | | | | | | | | | | | | | 15,0[7] | | 16,5[8] | | 18,4[9] | | 20,3[10] |
| | BV | | | | | | | | | | | | | | | | 23,2[7] | | 24,9[8] | | 27,2[9] | | 29,3[10] |
| 144 | B | | | | | | | | | | | | | | | | | | 13,4[7] | | 15,2[8] | | 16,6[9] |
| | BV | | | | | | | | | | | | | | | | | | 21,1[7] | | 23,1[8] | | 24,9[9] |
| 148 | B | | | | | | | | | | | | | | | | | | | | 12,1[7] | | 13,9[9] |
| | BV | | | | | | | | | | | | | | | | | | | | 19,3[7] | | 21,3[9] |
| 152 | B | | | | | | | | | | | | | | | | | | | | 9,7[7] | | 11,1[8] |
| | BV | | | | | | | | | | | | | | | | | | | | 16,7[7] | | 18,0[8] |
| 156 | B | | | | | | | | | | | | | | | | | | | | | | 8,3[7] |
| | BV | | | | | | | | | | | | | | | | | | | | | | 15,1[7] |

1) 12°; 2) 17°; 3) 22°; 4) 27°; 5) 32°; 6) 37°; 7) 42°; 8) 47°; 9) 52°; 10) 57°; 11) 62°

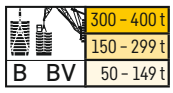


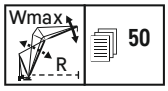



HS 84 m

| m | | W 18 m | | W 24 m | | W 30 m | | W 36 m | | W 48 m | | W 60 m | | W 72 m | | W 84 | | W 90 | | W 96 | | W 102 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax |
| 14 | B | 305,0 | 314,0[1] | 278,0 | 278,0 | | | | | | | | | | | | | | | | | | |
| | BV | 307,0 | 317,0[1] | 280,0 | 280,0 | | | | | | | | | | | | | | | | | | |
| 16 | B | 315,0* | 315,0 | 267,0 | 276,0[1] | 249,0 | 249,0 | | | | | | | | | | | | | | | | |
| | BV | 293,0 | 317,0[1] | 269,0 | 279,0[1] | 251,0 | 251,0 | | | | | | | | | | | | | | | | |
| 18 | B | 301,0* | 310,0[1] | 276,0* | 276,0 | 240,0 | 249,0[1] | 221,0 | 221,0 | | | | | | | | | | | | | | |
| | BV | 306,0* | 317,0[1] | 280,0* | 280,0 | 242,0 | 252,0[1] | 222,0 | 222,0 | | | | | | | | | | | | | | |
| 20 | B | 288,0* | 308,0[1] | 266,0* | 273,0[1] | 249,0* | 249,0 | 213,0 | 223,0[1] | 180,0 | 180,0 | | | | | | | | | | | | |
| | BV | 292,0* | 316,0[1] | 269,0* | 279,0[1] | 252,0* | 252,0 | 215,0 | 225,0[1] | 182,0 | 182,0 | | | | | | | | | | | | |
| 22 | B | 274,0* | 307,0[1] | 254,0* | 271,0[1] | 240,0* | 247,0[1] | 222,0* | 223,0[1] | 176,0 | 179,0[1] | | | | | | | | | | | | |
| | BV | 278,0* | 316,0[1] | 258,0* | 278,0[1] | 243,0* | 252,0[1] | 224,0* | 225,0[1] | 177,0 | 181,0[1] | | | | | | | | | | | | |
| 24 | B | 261,0* | 305,0[1] | 244,0* | 270,0[1] | 231,0* | 245,0[1] | 215,0* | 221,0[1] | 171,0 | 179,0[1] | 144,0 | 144,0 | | | | | | | | | | |
| | BV | 266,0* | 315,0[1] | 247,0* | 278,0[1] | 235,0* | 251,0[1] | 217,0* | 225,0[1] | 172,0 | 181,0[1] | 145,0 | 145,0 | | | | | | | | | | |
| 26 | B | 249,0* | 298,0[1] | 233,0* | 268,0[1] | 222,0* | 244,0[1] | 207,0* | 219,0[1] | 176,0* | 178,0[1] | 140,0 | 144,0[1] | 117,0 | 117,0 | | | | | | | | |
| | BV | 255,0* | 312,0[1] | 237,0* | 278,0[1] | 226,0* | 251,0[1] | 211,0* | 224,0[1] | 179,0* | 181,0[1] | 141,0 | 146,0[1] | 117,0 | 117,0 | | | | | | | | |
| 28 | B | | 286,0[2] | 220,0* | 264,0[1] | 212,0* | 242,0[1] | 199,0* | 218,0[1] | 171,0* | 177,0[1] | 136,0 | 144,0[1] | 114,0 | 116,0[1] | | | | | | | | |
| | BV | | 305,0[1] | 227,0* | 276,0[1] | 217,0* | 250,0[1] | 203,0* | 224,0[1] | 174,0* | 180,0[1] | 137,0 | 145,0[1] | 115,0 | 116,0[1] | | | | | | | | |
| 30 | B | | 273,0[2] | 209,0* | 256,0[1] | 200,0* | 240,0[1] | 190,0* | 216,0[1] | 165,0* | 176,0[1] | 141,0* | 143,0[1] | 111,0 | 115,0[1] | 89,5 | 89,5 | 78,2 | 78,2 | | | | |
| | BV | | 299,0[1] | 216,0* | 272,0[1] | 206,0* | 249,0[1] | 195,0* | 223,0[1] | 168,0* | 180,0[1] | 143,0* | 145,0[1] | 112,0 | 116,0[1] | 89,8 | 89,8 | 78,5 | 78,5 | | | | |
| 32 | B | | 261,0[7] | 199,0* | 247,0[1] | 190,0* | 233,0[1] | 182,0* | 214,0[1] | 160,0* | 175,0[1] | 138,0* | 142,0[1] | 115,0* | 115,0 | 88,5 | 89,5[1] | 77,5 | 77,5 | 67,8 | 67,8 | | |
| | BV | | 292,0[1] | 207,0* | 268,0[1] | 196,0* | 246,0[1] | 186,0* | 222,0[1] | 162,0* | 179,0[1] | 139,0* | 145,0[1] | 116,0* | 116,0 | 88,9 | 90,0[1] | 77,7 | 77,7 | 68,0 | 68,0 | | |
| 34 | B | | 252,0[10] | | 238,0[1] | 182,0* | 226,0[1] | 174,0* | 210,0[1] | 155,0* | 174,0[1] | 135,0* | 142,0[1] | 113,0* | 114,0[1] | 87,0 | 89,4[1] | 76,8 | 77,8[1] | 67,3 | 67,5[1] | 58,3 | 58,3 |
| | BV | | 285,0[1] | | 264,0[1] | 188,0* | 243,0[1] | 179,0* | 221,0[1] | 157,0* | 178,0[1] | 136,0* | 144,0[1] | 114,0* | 115,0[1] | 87,5 | 90,1[1] | 77,1 | 78,2[1] | 67,5 | 67,8[1] | 58,4 | 58,4 |
| 36 | B | | 240,0[11] | | 230,0[1] | 175,0* | 219,0[1] | 167,0* | 205,0[1] | 150,0* | 173,0[1] | 131,0* | 141,0[1] | 111,0* | 114,0[1] | 89,4* | 89,4 | 75,9 | 77,9[1] | 66,8 | 67,6[1] | 57,8 | 58,2[1] |
| | BV | | 270,0[1] | | 261,0[1] | 181,0* | 240,0[1] | 172,0* | 219,0[1] | 152,0* | 177,0[1] | 132,0* | 144,0[1] | 112,0* | 115,0[1] | 90,1* | 90,2[1] | 76,3 | 78,3[1] | 67,0 | 68,0[1] | 58,0 | 58,4[1] |
| 38 | B | | 227,0[11] | | 219,0[8] | 168,0* | 212,0[1] | 159,0* | 200,0[1] | 144,0* | 171,0[1] | 128,0* | 141,0[1] | 109,0* | 113,0[1] | 88,9* | 89,0[1] | 77,7* | 77,8[1] | 66,3 | 67,7[1] | 57,5 | 58,2[1] |
| | BV | | 255,0[1] | | 250,0[1] | 173,0* | 237,0[1] | 165,0* | 218,0[1] | 147,0* | 177,0[1] | 129,0* | 143,0[1] | 110,0* | 115,0[1] | 89,2* | 89,9[1] | 78,3* | 78,3 | 66,6 | 68,1[1] | 57,7 | 58,5[1] |
| 40 | B | | 213,0[11] | | 213,0[11] | | 205,0[6] | 154,0* | 196,0[1] | 139,0* | 169,0[1] | 125,0* | 141,0[1] | 107,0* | 113,0[1] | 87,9* | 88,7[1] | 77,2* | 77,3[1] | 67,6* | 67,6 | 58,0* | 58,2[1] |
| | BV | | 240,0[3] | | 237,0[1] | | 230,0[1] | 159,0* | 216,0[1] | 142,0* | 176,0[1] | 126,0* | 143,0[1] | 108,0* | 114,0[1] | 88,2* | 89,6[1] | 77,9* | 78,0[1] | 68,1* | 68,1 | 57,3 | 58,6[1] |
| 44 | B | | 189,0[11] | | 192,0[11] | | 190,0[9] | 143,0* | 181,0[2] | 129,0* | 165,0[1] | 117,0* | 139,0[1] | 103,0* | 112,0[1] | 85,3* | 88,1[1] | 75,4* | 76,4[1] | 66,9* | 66,9 | 57,9* | 57,9 |
| | BV | | 216,0[6] | | 213,0[2] | | 209,0[1] | 148,0* | 205,0[1] | 133,0* | 174,0[1] | 119,0* | 141,0[1] | 103,0* | 114,0[1] | 85,7* | 89,1[1] | 76,1* | 77,4[1] | 67,4* | 67,7[1] | 58,3* | 58,3 |
| 48 | B | | 168,0[11] | | 170,0[11] | | 173,0[11] | | 172,0[8] | 120,0* | 159,0[1] | 110,0* | 136,0[1] | 98,6* | 111,0[1] | 82,5* | 87,6[1] | 73,3* | 75,6[1] | 65,7* | 66,3[1] | 57,1* | 57,1 |
| | BV | | 194,0[11] | | 193,0[7] | | 189,0[3] | | 187,0[1] | 124,0* | 170,0[1] | 113,0* | 139,0[1] | 98,7* | 113,0[1] | 82,8* | 88,6[1] | 74,1* | 76,7[1] | 66,1* | 67,3[1] | 57,6* | 57,7[1] |
| 52 | B | | 149,0[11] | | 153,0[11] | | 154,0[11] | | 159,0[11] | 113,0* | 146,0[2] | 103,0* | 134,0[1] | 93,5* | 109,0[1] | 79,7* | 86,5[1] | 71,2* | 74,8[1] | 64,0* | 65,8[1] | 56,1* | 56,5[2] |
| | BV | | 174,0[11] | | 176,0[10] | | 172,0[5] | | 171,0[2] | 116,0* | 161,0[2] | 106,0* | 138,0[1] | 94,2* | 111,0[1] | 79,7* | 87,6[1] | 71,8* | 76,1[1] | 64,3* | 66,8[1] | 56,5* | 57,1[1] |
| 56 | B | | 131,0[10] | | 137,0[11] | | 138,0[11] | | 143,0[11] | 106,0* | 137,0[7] | 96,6* | 128,0[2] | 88,0* | 108,0[2] | 76,8* | 85,7[2] | 69,0* | 73,4[2] | 62,2* | 65,3[2] | 54,9* | 56,0[2] |
| | BV | | 154,0[10] | | 160,0[11] | | 158,0[8] | | 156,0[4] | 110,0* | 150,0[2] | 99,9* | 136,0[2] | 89,9* | 110,0[2] | 76,7* | 86,7[2] | 69,3* | 74,8[2] | 62,4* | 66,0[2] | 55,2* | 56,8[2] |
| 60 | B | | 117,0[9] | | 122,0[11] | | 124,0[11] | | 127,0[11] | | 130,0[9] | 91,1* | 120,0[2] | 83,0* | 106,0[2] | 73,3* | 84,6[2] | 66,8* | 72,7[2] | 60,3* | 65,0[2] | 53,4* | 55,6[2] |
| | BV | | 139,0[10] | | 144,0[11] | | 145,0[11] | | 144,0[7] | | 139,0[2] | 94,0* | 130,0[2] | 85,6* | 109,0[2] | 73,6* | 85,8[2] | 66,8* | 74,3[2] | 60,4* | 65,8[2] | 53,6* | 56,4[2] |
| 64 | B | | 104,0[9] | | 109,0[10] | | 111,0[11] | | 115,0[11] | | 120,0[11] | 85,3* | 110,0[6] | 78,3* | 105,0[2] | 69,4* | 83,3[2] | 63,9* | 71,4[2] | 58,3* | 64,2[2] | 51,8* | 55,1[2] |
| | BV | | 125,0[9] | | 129,0[10] | | 132,0[11] | | 133,0[10] | | 128,0[3] | 88,3* | 125,0[1] | 81,0* | 108,0[2] | 70,5* | 84,9[2] | 64,2* | 73,1[2] | 58,2* | 65,2[2] | 51,8* | 56,1[2] |
| 68 | B | | 92,8[8] | | 96,8[9] | | 98,2[10] | | 104,0[11] | | 108,0[11] | 79,9* | 106,0[8] | 73,6* | 99,4[3] | 65,5* | 82,0[2] | 60,9* | 70,1[3] | 56,1* | 63,1[2] | 50,0* | 54,1[2] |
| | BV | | 112,0[8] | | 116,0[9] | | 118,0[10] | | 123,0[11] | | 119,0[5] | 83,1* | 116,0[2] | 76,1* | 106,0[3] | 67,2* | 84,0[2] | 61,4* | 71,9[3] | 55,9* | 64,1[2] | 50,0* | 55,2[2] |
| 72 | B | | 83,0[8] | | 86,8[9] | | 87,9[10] | | 92,7[11] | | 97,2[11] | | 100,0[9] | 68,8* | 92,4[3] | 61,6* | 80,8[3] | 57,4* | 69,1[3] | 53,3* | 62,4[3] | 48,2* | 53,6[3] |
| | BV | | 101,0[8] | | 105,0[9] | | 106,0[10] | | 111,0[11] | | 111,0[6] | | 108,0[3] | 71,0* | 102,0[2] | 63,7* | 82,8[2] | 58,7* | 71,0[3] | 53,6* | 63,3[3] | 48,0* | 54,7[3] |
| 76 | B | | 74,1[7] | | 77,5[8] | | 78,0[9] | | 82,5[10] | | 88,4[11] | | 92,2[10] | 63,9* | 86,1[4] | 57,7* | 79,9[3] | 54,1* | 68,0[3] | 50,4* | 61,6[3] | 45,9* | 52,8[3] |
| | BV | | 91,5[7] | | 94,9[8] | | 95,4[9] | | 99,8[10] | | 103,0[8] | | 101,0[4] | 66,1* | 98,5[2] | 59,9* | 82,0[3] | 56,0* | 70,1[3] | 51,3* | 62,6[3] | 46,1* | 54,0[3] |
| 80 | B | | | | 69,2[7] | | 69,2[8] | | 73,2[9] | | 79,7[11] | | 84,0[10] | 59,8* | 82,0[8] | 53,7* | 76,0[4] | 50,7* | 66,7[3] | 47,5* | 60,7[3] | 43,8* | 51,9[3] |
| | BV | | | | 85,7[7] | | 85,8[8] | | 89,7[9] | | 96,2[11] | | 94,1[5] | 61,8* | 92,0[3] | 55,8* | 80,4[3] | 52,5* | 69,1[3] | 49,1* | 62,0[3] | 44,2* | 53,2[3] |
| 84 | B | | | | 61,9[7] | | 61,5[8] | | 65,3[9] | | 71,3[11] | | 77,2[11] | | 77,7[9] | 49,9* | 71,7[4] | 46,9* | 65,9[4] | 44,4* | 59,4[3] | 41,2* | 51,1[3] |
| | BV | | | | 77,7[7] | | 77,4[8] | | 81,1[9] | | 86,9[11] | | 88,4[7] | | 86,2[4] | 52,1* | 78,7[3] | 49,0* | 68,1[4] | 46,2* | 61,3[3] | 42,4* | 52,4[3] |
| 88 | B | | | | | | 54,4[7] | | 57,8[8] | | 63,1[10] | | 70,5[11] | | 71,9[10] | 46,4* | 67,2[5] | 43,6* | 63,1[5] | 41,2* | 58,8[4] | 38,2* | 50,1[3] |
| | BV | | | | | | 69,5[7] | | 72,9[8] | | 78,1[10] | | 83,2[9] | | 80,8[5] | 48,4* | 77,0[3] | 45,7* | 67,1[4] | 42,9* | 60,4[4] | 39,7* | 51,6[3] |
| 92 | B | | | | | | | | 50,9[7] | | 55,5[9] | | 63,7[11] | | 66,7[10] | 43,4* | 63,6[9] | 40,4* | 61,2[5] | 38,3* | 56,7[5] | 35,3* | 49,5[4] |
| | BV | | | | | | | | 65,4[7] | | 69,8[9] | | 77,9[11] | | 76,1[6] | 44,9* | 72,7[4] | 42,3* | 65,9[4] | 40,0* | 59,8[4] | 36,9* | 51,0[4] |
| 96 | B | | | | | | | | 45,0[7] | | 49,1[9] | | 56,7[11] | | 62,0[11] | | 59,8[9] | 37,6* | 57,4[6] | 35,4* | 55,5[5] | 32,7* | 48,4[5] |
| | BV | | | | | | | | 58,9[7] | | 62,9[9] | | 70,4[11] | | 71,5[7] | | 67,8[5] | 39,4* | 64,6[4] | 37,0* | 58,9[4] | 34,2* | 50,4[4] |
| 100 | B | | | | | | | | | | 42,9[8] | | 50,0[10] | | 56,4[11] | | 55,9[9] | | 53,8[7] | 32,6* | 52,0[6] | 30,2* | 48,0[5] |
| | BV | | | | | | | | | | 56,1[8] | | 63,1[10] | | 67,8[9] | | 63,9[5] | | 61,5[4] | 34,2* | 58,0[4] | 31,6* | 49,7[5] |
| 104 | B | | | | | | | | | | 37,2[7] | | 43,5[9] | | 50,8[11] | | 52,4[10] | | 50,6[9] | 30,4* | 48,7[7] | 27,6* | 46,3[6] |
| | BV | | | | | | | | | | 49,9[7] | | 56,2[9] | | 63,4[11] | | 60,3[7] | | 58,6[5] | 31,6* | 55,8[4] | 29,1* | 49,1[5] |
| 108 | B | | | | | | | | | | 32,2[7] | | 38,2[9] | | 45,0[11] | | 48,8[11] | | 47,6[10] | | 45,9[8] | 25,5* | 43,7[6] |
| | BV | | | | | | | | | | 44,4[7] | | 50,5[9] | | 57,2[11] | | 57,2[8] | | 55,4[6] | | 53,7[5] | 26,9* | 48,4[5] |
| 112 | B | | | | | | | | | | | | 32,9[8] | | 39,1[10] | | 44,3[11] | | 45,0[11] | | 43,3[9] | | 41,3[7] |
| | BV | | | | | | | | | | | | 44,6[8] | | 51,0[10] | | 54,2[9] | | 52,2[7] | | 50,8[6] | | 47,8[5] |
| 116 | B | | | | | | | | | | | | 27,9[7] | | 33,7[9] | | 39,6[11] | | 40,9[11] | | 40,9[10] | | 38,8[8] |
| | BV | | | | | | | | | | | | 39,3[7] | | 45,0[9] | | 50,2[10] | | 49,4[9] | | 48,0[7] | | 45,0[6] |
| 120 | B | | | | | | | | | | | | 23,6[7] | | 29,1[9] | | 34,6[11] | | 36,8[11] | | 37,7[11] | | 36,4[10] |
| | BV | | | | | | | | | | | | 34,7[7] | | 40,1[9] | | 45,3[11] | | 46,8[10] | | 45,6[8] | | 42,6[7] |
| 124 | B | | | | | | | | | | | | | | 24,4[8] | | 29,5[10] | | 32,1[11] | | 34,0[11] | | 33,9[11] |
| | BV | | | | | | | | | | | | | | 35,1[8] | | 40,2[10] | | 42,0[10] | | 42,7[9] | | 40,4[8] |
| 128 | B | | | | | | | | | | | | | | 20,1[7] | | 24,7[9] | | 27,0[10] | | 30,0[11] | | 30,6[11] |
| | BV | | | | | | | | | | | | | | 30,3[7] | | 35,0[9] | | 37,4[10] | | 38,4[9] | | 38,1[9] |
| 132 | B | | | | | | | | | | | | | | 17,1[7] | | 21,0[9] | | 22,9[10] | | 25,8[11] | | 27,4[11] |
| | BV | | | | | | | | | | | | | | 26,3[7] | | 30,7[9] | | 32,9[10] | | 34,8[10] | | 34,9[9] |
| 136 | B | | | | | | | | | | | | | | | | 17,2[8] | | 19,0[9] | | 21,5[10] | | 23,6[11] |
| | BV | | | | | | | | | | | | | | | | 26,3[8] | | 28,3[9] | | 30,8[10] | | 31,4[10] |
| 140 | B | | | | | | | | | | | | | | | | 14,1[7] | | 15,7[8] | | 17,5[9] | | 19,3[10] |
| | BV | | | | | | | | | | | | | | | | 22,0[7] | | 23,9[8] | | 26,2[9] | | 28,4[10] |
| 144 | B | | | | | | | | | | | | | | | | 11,5[7] | | 12,9[8] | | 14,7[9] | | 16,4[10] |
| | BV | | | | | | | | | | | | | | | | 19,0[7] | | 20,6[8] | | 22,5[9] | | 24,6[10] |
| 148 | B | | | | | | | | | | | | | | | | | | 10,0[7] | | 11,7[8] | | 13,3[9] |
| | BV | | | | | | | | | | | | | | | | | | 17,2[7] | | 18,8[8] | | 20,6[9] |
| 152 | B | | | | | | | | | | | | | | | | | | | | 8,8[7] | | 10,3[8] |
| | BV | | | | | | | | | | | | | | | | | | | | 15,8[7] | | 17,1[8] |
| 156 | B | | | | | | | | | | | | | | | | | | | | 6,5[7] | | 7,8[8] |
| | BV | | | | | | | | | | | | | | | | | | | | 13,3[7] | | 14,6[8] |
| 160 | B | | | | | | | | | | | | | | | | | | | | | | 11,8[7] |
| | BV | | | | | | | | | | | | | | | | | | | | | | |

1) 12°; 2) 17°; 3) 22°; 4) 27°; 5) 32°; 6) 37°; 7) 42°; 8) 47°; 9) 52°; 10) 57°; 11) 62°

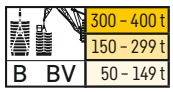


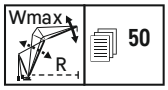



| m | | HS 90 m | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | W 18 m | | W 24 m | | W 30 m | | W 36 m | | W 48 m | | W 60 m | | W 72 m | | W 84 | | W 90 | | W 96 | | W 102 | |
| | | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax |
| 14 | B | 274,0 | 274,0 | | | | | | | | | | | | | | | | | | | | |
| | BV | 276,0 | 276,0 | | | | | | | | | | | | | | | | | | | | |
| 16 | B | 262,0 | 278,0[1] | 240,0 | 246,0[1] | 223,0 | 223,0 | | | | | | | | | | | | | | | | |
| | BV | 264,0 | 281,0[1] | 241,0 | 248,0[1] | 224,0 | 224,0 | | | | | | | | | | | | | | | | |
| 18 | B | 271,0* | 277,0[1] | 230,0 | 245,0[1] | 215,0 | 222,0[1] | 197,0 | 197,0 | | | | | | | | | | | | | | |
| | BV | 274,0* | 280,0[1] | 231,0 | 247,0[1] | 216,0 | 223,0[1] | 198,0 | 198,0 | | | | | | | | | | | | | | |
| 20 | B | 260,0* | 276,0[1] | 239,0* | 245,0[1] | 223,0* | 223,0 | 191,0 | 198,0[1] | 161,0 | 161,0 | | | | | | | | | | | | |
| | BV | 262,0* | 279,0[1] | 241,0* | 247,0[1] | 225,0* | 225,0 | 192,0 | 199,0[1] | 161,0 | 161,0 | | | | | | | | | | | | |
| 22 | B | 249,0* | 275,0[1] | 230,0* | 244,0[1] | 216,0* | 221,0[1] | 198,0* | 198,0 | 156,0 | 158,0[1] | | | | | | | | | | | | |
| | BV | 251,0* | 278,0[1] | 231,0* | 245,0[1] | 218,0* | 222,0[1] | 200,0* | 200,0 | 157,0 | 159,0[1] | | | | | | | | | | | | |
| 24 | B | 239,0* | 274,0[1] | 221,0* | 243,0[1] | 209,0* | 220,0[1] | 192,0* | 197,0[1] | 151,0 | 158,0[1] | 128,0 | 128,0 | | | | | | | | | | |
| | BV | 239,0* | 277,0[1] | 222,0* | 244,0[1] | 210,0* | 221,0[1] | 194,0* | 198,0[1] | 152,0 | 159,0[1] | 128,0 | 128,0 | | | | | | | | | | |
| 26 | B | 228,0* | 273,0[1] | 212,0* | 242,0[1] | 201,0* | 219,0[1] | 185,0* | 196,0[1] | 157,0* | 157,0 | 124,0 | 127,0[1] | 103,0 | 103,0 | | | | | | | | |
| | BV | 228,0* | 276,0[1] | 212,0* | 243,0[1] | 202,0* | 219,0[1] | 187,0* | 196,0[1] | 157,0* | 158,0[1] | 125,0 | 128,0[1] | 104,0 | 104,0 | | | | | | | | |
| 28 | B | 218,0* | 265,0[1] | 202,0* | 241,0[1] | 192,0* | 218,0[1] | 179,0* | 195,0[1] | 152,0* | 157,0[1] | 121,0 | 126,0[1] | 101,0 | 101,0 | | | | | | | | |
| | BV | 222,0* | 273,0[1] | 202,0* | 242,0[1] | 193,0* | 218,0[1] | 179,0* | 195,0[1] | 153,0* | 157,0[1] | 121,0 | 127,0[1] | 101,0 | 101,0 | | | | | | | | |
| 30 | B | | 256,0[1] | 192,0* | 236,0[1] | 183,0* | 216,0[1] | 172,0* | 194,0[1] | 147,0* | 157,0[1] | 125,0* | 126,0[1] | 98,8 | 101,0[1] | 79,9 | 79,9 | 70,4 | 70,4 | | | | |
| | BV | | 270,0[1] | 192,0* | 241,0[1] | 185,0* | 217,0[1] | 172,0* | 194,0[1] | 148,0* | 156,0[1] | 125,0* | 126,0[1] | 98,9 | 102,0[1] | 80,2 | 80,2 | 70,5 | 70,5 | | | | |
| 32 | B | | 247,0[1] | 183,0* | 230,0[1] | 175,0* | 213,0[1] | 165,0* | 193,0[1] | 143,0* | 156,0[1] | 122,0* | 126,0[1] | 96,5* | 101,0[1] | 78,6 | 79,6[1] | 69,5 | 69,5 | 61,0 | 61,0 | | |
| | BV | | 267,0[1] | 183,0* | 240,0[1] | 177,0* | 216,0[1] | 165,0* | 192,0[1] | 143,0* | 155,0[1] | 122,0* | 126,0[1] | 96,2 | 101,0[1] | 78,8 | 79,9[1] | 69,7 | 69,7 | 61,1 | 61,1 | | |
| 34 | B | | 238,0[1] | 178,0* | 225,0[1] | 167,0* | 209,0[1] | 158,0* | 191,0[1] | 139,0* | 156,0[1] | 120,0* | 126,0[1] | 100,0* | 101,0[1] | 77,2 | 79,4[1] | 68,6 | 69,5[1] | 60,5 | 60,5 | 52,4 | 52,4 |
| | BV | | 264,0[1] | 180,0* | 239,0[1] | 170,0* | 215,0[1] | 159,0* | 191,0[1] | 138,0* | 154,0[1] | 119,0* | 125,0[1] | 100,0* | 101,0[1] | 77,3 | 79,7[1] | 68,8 | 69,8[1] | 60,6 | 60,6 | 52,4 | 52,4 |
| 36 | B | | 228,0[1] | | 219,0[1] | 160,0* | 205,0[1] | 152,0* | 189,0[1] | 135,0* | 156,0[1] | 117,0* | 126,0[1] | 98,7* | 101,0[1] | 79,7* | 79,7 | 67,6 | 69,5[1] | 59,9 | 60,6[1] | 52,0 | 52,2[1] |
| | BV | | 257,0[1] | | 238,0[1] | 164,0* | 215,0[1] | 153,0* | 191,0[1] | 134,0* | 153,0[1] | 116,0* | 125,0[1] | 98,4* | 101,0[1] | 79,6* | 79,6 | 67,7 | 69,8[1] | 60,1 | 60,9[1] | 52,1 | 52,4[1] |
| 38 | B | | 217,0[11] | | 213,0[1] | 154,0* | 200,0[1] | 146,0* | 186,0[1] | 130,0* | 155,0[1] | 114,0* | 126,0[1] | 97,2* | 101,0[1] | 78,6* | 79,5[1] | 69,4* | 69,4 | 60,6* | 60,6 | 51,5 | 52,2[1] |
| | BV | | 245,0[1] | | 237,0[1] | 158,0* | 214,0[1] | 148,0* | 190,0[1] | 129,0* | 152,0[1] | 113,0* | 124,0[1] | 96,6* | 100,0[1] | 78,6* | 79,3[1] | 69,7* | 69,7 | 59,3 | 61,0[1] | 51,7 | 52,4[1] |
| 40 | B | | 207,0[11] | | 203,0[2] | 150,0* | 196,0[1] | 140,0* | 183,0[1] | 126,0* | 154,0[1] | 112,0* | 126,0[1] | 95,6* | 101,0[1] | 77,7* | 79,4[1] | 68,9* | 69,2[1] | 60,5* | 60,6[1] | 52,3* | 52,3 |
| | BV | | 233,0[1] | | 227,0[1] | 155,0* | 213,0[1] | 143,0* | 190,0[1] | 125,0* | 152,0[1] | 110,0* | 123,0[1] | 94,6* | 99,8[1] | 77,5* | 79,0[1] | 68,9* | 69,4[1] | 60,9* | 61,0[1] | 51,2 | 52,5[1] |
| 44 | B | | 186,0[11] | | 184,0[11] | | 180,0[2] | 130,0* | 176,0[1] | 117,0* | 152,0[1] | 106,0* | 125,0[1] | 91,7* | 101,0[1] | 75,8* | 79,1[1] | 67,4* | 68,7[1] | 59,6* | 60,1[1] | 51,8* | 51,9[1] |
| | BV | | 210,0[2] | | 207,0[1] | | 200,0[1] | 135,0* | 187,0[1] | 117,0* | 151,0[1] | 104,0* | 122,0[1] | 90,4* | 99,1[1] | 75,1* | 78,4[1] | 67,0* | 68,8[1] | 59,6* | 60,4[1] | 52,2* | 52,3[1] |
| 48 | B | | 166,0[11] | | 168,0[11] | | 168,0[11] | | 161,0[2] | 109,0* | 150,0[1] | 99,1* | 124,0[1] | 87,9* | 101,0[1] | 73,5* | 78,8[1] | 65,7* | 68,2[1] | 58,5* | 59,6[1] | 51,0* | 51,3[1] |
| | BV | | 190,0[7] | | 188,0[2] | | 184,0[1] | | 177,0[2] | 110,0* | 150,0[1] | 98,3* | 122,0[1] | 86,2* | 98,3[1] | 72,5* | 77,7[1] | 65,0* | 68,2[1] | 58,1* | 59,8[1] | 51,0* | 51,8[1] |
| 52 | B | | 147,0[11] | | 152,0[11] | | 152,0[11] | | 150,0[10] | 102,0* | 141,0[2] | 93,2* | 123,0[1] | 83,9* | 99,6[1] | 70,8* | 78,2[1] | 63,8* | 67,8[1] | 57,0* | 59,2[1] | 50,0* | 50,8[1] |
| | BV | | 173,0[11] | | 172,0[5] | | 168,0[2] | | 164,0[1] | 104,0* | 147,0[2] | 92,9* | 121,0[1] | 82,0* | 97,4[1] | 69,6* | 77,0[1] | 62,8* | 67,6[1] | 56,4* | 59,3[1] | 49,7* | 51,3[1] |
| 56 | B | | 131,0[11] | | 136,0[11] | | 137,0[11] | | 138,0[11] | 96,0* | 130,0[3] | 87,2* | 120,0[2] | 79,2* | 98,4[1] | 68,1* | 77,6[2] | 61,4* | 66,6[1] | 55,4* | 58,7[1] | 48,8* | 50,3[1] |
| | BV | | 155,0[11] | | 158,0[9] | | 154,0[4] | | 152,0[2] | 99,4* | 140,0[2] | 87,9* | 120,0[1] | 78,1* | 96,5[1] | 66,7* | 76,0[1] | 60,4* | 66,7[1] | 54,5* | 58,7[1] | 48,2* | 50,8[1] |
| 60 | B | | 116,0[10] | | 121,0[11] | | 123,0[11] | | 125,0[11] | | 120,0[8] | 82,4* | 116,0[2] | 75,0* | 97,6[2] | 65,3* | 77,2[2] | 59,2* | 66,4[2] | 53,4* | 58,6[2] | 47,4* | 50,0[2] |
| | BV | | 138,0[10] | | 144,0[11] | | 142,0[7] | | 140,0[4] | | 134,0[1] | 83,4* | 118,0[1] | 74,2* | 95,6[1] | 63,8* | 75,0[1] | 58,0* | 65,8[2] | 52,5* | 57,6[1] | 46,7* | 50,0[1] |
| 64 | B | | 103,0[10] | | 108,0[10] | | 110,0[11] | | 113,0[11] | | 114,0[11] | 76,7* | 108,0[3] | 70,4* | 96,9[2] | 62,1* | 76,4[2] | 56,9* | 65,2[2] | 51,5* | 58,3[2] | 45,8* | 49,8[2] |
| | BV | | 124,0[10] | | 128,0[10] | | 131,0[11] | | 129,0[6] | | 124,0[2] | 79,4* | 117,0[1] | 70,4* | 94,7[2] | 60,8* | 74,3[2] | 55,4* | 65,1[2] | 50,4* | 57,2[2] | 44,9* | 49,5[2] |
| 68 | B | | 91,7[9] | | 96,3[10] | | 98,3[11] | | 102,0[11] | | 105,0[11] | 72,9* | 99,7[4] | 66,1* | 93,5[3] | 58,6* | 75,5[2] | 54,1* | 64,0[3] | 49,5* | 57,2[2] | 44,0* | 49,1[2] |
| | BV | | 111,0[9] | | 116,0[10] | | 118,0[11] | | 120,0[9] | | 115,0[4] | 75,5* | 112,0[1] | 66,6* | 94,1[2] | 57,7* | 73,7[2] | 52,8* | 64,5[2] | 48,2* | 56,6[2] | 43,0* | 49,0[2] |
| 72 | B | | 81,5[8] | | 85,5[9] | | 87,0[10] | | 91,5[11] | | 95,4[11] | | 92,7[6] | 62,0* | 89,8[3] | 55,1* | 74,8[3] | 51,0* | 63,1[3] | 47,1* | 56,8[3] | 42,3* | 48,4[3] |
| | BV | | 99,8[8] | | 104,0[9] | | 105,0[10] | | 110,0[11] | | 107,0[5] | | 104,0[2] | 63,2* | 93,3[2] | 54,8* | 73,2[2] | 50,2* | 63,8[2] | 45,9* | 55,9[2] | 41,1* | 48,3[2] |
| 76 | B | | 72,7[8] | | 76,5[9] | | 77,3[10] | | 80,8[10] | | 86,8[11] | | 87,4[11] | 58,0* | 84,1[4] | 51,5* | 74,4[3] | 48,1* | 62,2[3] | 44,6* | 56,0[3] | 40,3* | 47,9[3] |
| | BV | | 90,2[7] | | 94,0[9] | | 94,7[10] | | 98,2[10] | | 100,0[7] | | 97,1[3] | 59,7* | 92,6[2] | 52,0* | 72,7[2] | 47,7* | 63,0[2] | 43,6* | 55,2[2] | 39,2* | 47,6[2] |
| 80 | B | | 64,6[7] | | 68,1[8] | | 68,5[9] | | 72,1[10] | | 78,4[11] | | 81,5[11] | 54,3* | 78,3[5] | 48,3* | 71,4[4] | 45,2* | 61,3[3] | 42,0* | 55,2[3] | 38,3* | 47,1[3] |
| | BV | | 81,3[7] | | 84,7[8] | | 85,1[9] | | 88,7[10] | | 93,7[10] | | 90,7[5] | 56,4* | 88,1[2] | 49,3* | 72,3[2] | 45,3* | 62,4[3] | 41,5* | 54,4[2] | 37,3* | 46,9[2] |
| 84 | B | | | | 60,4[7] | | 60,4[8] | | 63,7[9] | | 70,2[11] | | 75,5[11] | | 73,2[6] | 45,2* | 69,8[4] | 41,9* | 60,3[4] | 39,5* | 54,4[3] | 36,0* | 46,4[3] |
| | BV | | | | 76,3[7] | | 76,2[8] | | 79,4[9] | | 85,8[11] | | 85,5[6] | | 82,9[3] | 46,5* | 71,9[2] | 43,0* | 61,7[3] | 39,5* | 54,1[3] | 35,5* | 46,5[3] |
| 88 | B | | | | 53,8[7] | | 53,5[8] | | 56,5[9] | | 61,7[10] | | 69,0[11] | | 68,5[9] | 41,9* | 65,4[5] | 39,0* | 58,9[4] | 36,6* | 53,5[4] | 33,6* | 45,7[3] |
| | BV | | | | 69,0[7] | | 68,6[8] | | 71,6[9] | | 76,6[10] | | 80,0[8] | | 77,9[4] | 43,3* | 71,2[3] | 40,3* | 60,9[3] | 37,5* | 53,7[3] | 33,8* | 46,1[3] |
| 92 | B | | | | | | 46,9[7] | | 49,6[8] | | 54,7[10] | | 62,4[11] | | 64,4[9] | 39,0* | 60,6[6] | 36,1* | 58,1[5] | 33,8* | 52,3[4] | 31,2* | 45,0[4] |
| | BV | | | | | | 61,4[7] | | 64,1[8] | | 69,1[10] | | 75,9[10] | | 73,1[5] | 40,7* | 69,0[3] | 37,5* | 60,0[3] | 35,0* | 53,3[3] | 31,8* | 45,5[3] |
| 96 | B | | | | | | | | 43,3[7] | | 47,7[9] | | 55,7[11] | | 60,6[11] | | 56,9[7] | 33,5* | 54,4[6] | 31,2* | 52,0[5] | 28,8* | 44,1[4] |
| | BV | | | | | | | | 57,2[7] | | 61,5[9] | | 69,4[11] | | 68,6[7] | | 65,4[4] | 34,8* | 59,1[4] | 32,4* | 52,9[3] | 29,6* | 45,1[4] |
| 100 | B | | | | | | | | 37,9[7] | | 41,8[9] | | 48,6[10] | | 55,2[11] | | 53,6[8] | 31,5* | 51,2[6] | 28,7* | 49,0[6] | 26,4* | 43,7[5] |
| | BV | | | | | | | | 51,2[7] | | 55,0[9] | | 61,8[10] | | 65,3[8] | | 61,5[5] | 32,6* | 58,4[4] | 29,9* | 52,2[4] | 27,3* | 44,7[4] |
| 104 | B | | | | | | | | | | 36,0[8] | | 42,8[10] | | 49,8[11] | | 50,4[10] | | 48,2[8] | 26,8* | 46,8[6] | 24,1* | 42,8[6] |
| | BV | | | | | | | | | | 48,7[8] | | 55,6[10] | | 61,7[10] | | 58,2[6] | | 55,2[5] | 28,0* | 51,9[4] | 25,1* | 44,4[4] |
| 108 | B | | | | | | | | | | 30,6[7] | | 37,0[9] | | 44,1[11] | | 47,6[11] | | 45,5[9] | | 44,1[7] | 22,0* | 41,9[6] |
| | BV | | | | | | | | | | 42,9[7] | | 49,2[9] | | 56,4[11] | | 55,1[7] | | 51,9[6] | | 49,0[5] | 23,2* | 44,0[4] |
| 112 | B | | | | | | | | | | 26,0[7] | | 32,0[9] | | 38,1[10] | | 43,1[11] | | 43,0[10] | | 41,4[8] | 20,9* | 39,9[7] |
| | BV | | | | | | | | | | 37,8[7] | | 43,8[9] | | 49,9[10] | | 51,7[8] | | 49,0[7] | | 46,5[5] | 21,6* | 43,1[5] |
| 116 | B | | | | | | | | | | | | 26,8[8] | | 33,2[10] | | 38,6[11] | | 39,7[11] | | 38,8[10] | | 37,3[8] |
| | BV | | | | | | | | | | | | 38,3[8] | | 44,6[10] | | 49,2[11] | | 46,7[8] | | 44,0[6] | | 41,7[5] |
| 120 | B | | | | | | | | | | | | 22,2[7] | | 27,9[9] | | 33,9[11] | | 35,6[11] | | 36,8[11] | | 35,0[9] |
| | BV | | | | | | | | | | | | 33,2[7] | | 39,0[9] | | 44,8[11] | | 44,2[9] | | 41,6[7] | | 39,5[6] |
| 124 | B | | | | | | | | | | | | 18,7[7] | | 23,6[9] | | 28,5[10] | | 31,3[11] | | 32,9[11] | | 32,6[10] |
| | BV | | | | | | | | | | | | 28,9[7] | | 34,3[9] | | 39,1[10] | | 41,6[11] | | 39,5[9] | | 37,4[7] |
| 128 | B | | | | | | | | | | | | | | 19,5[8] | | 24,2[10] | | 26,9[11] | | 29,0[11] | | 30,0[11] |
| | BV | | | | | | | | | | | | | | 29,5[8] | | 34,6[10] | | 37,0[11] | | 37,9[11] | | 35,3[8] |
| 132 | B | | | | | | | | | | | | | | 16,1[7] | | 19,8[9] | | 22,3[10] | | 24,9[11] | | 26,5[11] |
| | BV | | | | | | | | | | | | | | 25,0[7] | | 29,6[9] | | 32,0[10] | | 34,4[11] | | 33,2[10] |
| 136 | B | | | | | | | | | | | | | | 13,2[7] | | 16,8[9] | | 18,7[10] | | 20,2[10] | | 22,9[11] |
| | BV | | | | | | | | | | | | | | 21,4[7] | | 25,6[9] | | 27,7[10] | | 29,9[10] | | 31,0[11] |
| 140 | B | | | | | | | | | | | | | | | | 13,6[8] | | 15,2[9] | | 17,3[10] | | 19,3[11] |
| | BV | | | | | | | | | | | | | | | | 21,5[8] | | 23,4[9] | | 25,9[10] | | 27,7[11] |
| 144 | B | | | | | | | | | | | | | | | | 10,5[7] | | 12,0[8] | | 14,0[9] | | 15,6[10] |
| | BV | | | | | | | | | | | | | | | | 17,9[7] | | 19,3[8] | | 21,6[9] | | 23,8[10] |
| 148 | B | | | | | | | | | | | | | | | | 8,0[7] | | 9,4[8] | | 11,3[9] | | 12,8[10] |
| | BV | | | | | | | | | | | | | | | | 15,2[7] | | 16,6[8] | | 18,5[9] | | 20,2[10] |
| 152 | B | | | | | | | | | | | | | | | | | | | | 8,3[8] | | 9,8[9] |
| | BV | | | | | | | | | | | | | | | | | | 13,6[7] | | 15,3[8] | | 16,8[9] |
| 156 | B | | | | | | | | | | | | | | | | | | | | | | |
| | BV | | | | | | | | | | | | | | | | | | | | 12,3[7] | | 13,7[8] |
| 160 | B | | | | | | | | | | | | | | | | | | | | | | |
| | BV | | | | | | | | | | | | | | | | | | | | 9,9[7] | | 11,2[8] |
| 164 | B | | | | | | | | | | | | | | | | | | | | | | |
| | BV | | | | | | | | | | | | | | | | | | | | | | 8,5[7] |

1) 12°; 2) 17°; 3) 22°; 4) 27°; 5) 32°; 6) 37°; 7) 42°; 8) 47°; 9) 52°; 10) 57°; 11) 62°

# HSDWB / HSDWBV
# HS 96



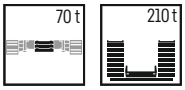


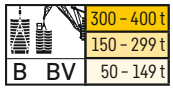

| m | | HS 96 m | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | W 18 m | | W 24 m | | W 30 m | | W 36 m | | W 48 m | | W 60 m | | W 72 m | | W 84 | | W 90 | | W 96 | | W 102 | |
| | | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax |
| 14 | B | 246,0 | 246,0 | | | | | | | | | | | | | | | | | | | | |
| | BV | 247,0 | 247,0 | | | | | | | | | | | | | | | | | | | | |
| 16 | B | 236,0 | 248,0[1] | 216,0 | 220,0[1] | 199,0 | 199,0 | | | | | | | | | | | | | | | | |
| | BV | 237,0 | 249,0[1] | 216,0 | 220,0[1] | 200,0 | 200,0 | | | | | | | | | | | | | | | | |
| 18 | B | 246,0* | 248,0[1] | 207,0 | 220,0[1] | 193,0 | 197,0[1] | 176,0 | 176,0 | | | | | | | | | | | | | | |
| | BV | 246,0* | 248,0[1] | 207,0 | 219,0[1] | 193,0 | 197,0[1] | 177,0 | 177,0 | | | | | | | | | | | | | | |
| 20 | B | 237,0* | 247,0[1] | 217,0* | 220,0[1] | 186,0 | 197,0[1] | 171,0 | 176,0[1] | | | | | | | | | | | | | | |
| | BV | 235,0* | 247,0[1] | 215,0* | 218,0[1] | 185,0 | 196,0[1] | 171,0 | 176,0[1] | | | | | | | | | | | | | | |
| 22 | B | 227,0* | 246,0[1] | 210,0* | 219,0[1] | 194,0* | 197,0[1] | 178,0* | 178,0 | 139,0 | 139,0 | | | | | | | | | | | | |
| | BV | 224,0* | 245,0[1] | 206,0* | 216,0[1] | 193,0* | 195,0[1] | 164,0 | 175,0[1] | 139,0 | 139,0 | | | | | | | | | | | | |
| 24 | B | 219,0* | 245,0[1] | 202,0* | 218,0[1] | 189,0* | 196,0[1] | 173,0* | 176,0[1] | 135,0 | 140,0[1] | 114,0 | 114,0 | | | | | | | | | | |
| | BV | 213,0* | 244,0[1] | 197,0* | 215,0[1] | 186,0* | 194,0[1] | 171,0* | 174,0[1] | 135,0 | 139,0[1] | 114,0 | 114,0 | | | | | | | | | | |
| 26 | B | 209,0* | 244,0[1] | 194,0* | 218,0[1] | 181,0* | 195,0[1] | 168,0* | 175,0[1] | 140,0* | 140,0 | 111,0 | 113,0[1] | 91,5 | 91,5 | | | | | | | | |
| | BV | 203,0* | 242,0[1] | 188,0* | 213,0[1] | 179,0* | 192,0[1] | 165,0* | 172,0[1] | 139,0* | 139,0 | 111,0 | 113,0[1] | 91,4 | 91,4 | | | | | | | | |
| 28 | B | 199,0* | 242,0[1] | 185,0* | 217,0[1] | 175,0* | 195,0[1] | 162,0* | 175,0[1] | 137,0* | 140,0[1] | 107,0 | 112,0[1] | 89,3 | 89,3 | | | | | | | | |
| | BV | 197,0* | 241,0[1] | 179,0* | 212,0[1] | 171,0* | 191,0[1] | 159,0* | 171,0[1] | 135,0* | 138,0[1] | 107,0 | 112,0[1] | 89,2 | 89,2 | | | | | | | | |
| 30 | B | | 236,0[1] | 176,0* | 215,0[1] | 167,0* | 194,0[1] | 156,0* | 174,0[1] | 133,0* | 139,0[1] | 112,0* | 112,0 | 87,2 | 89,6[1] | 70,6 | 70,6 | | | | | | |
| | BV | | 242,0[1] | 170,0* | 211,0[1] | 163,0* | 189,0[1] | 152,0* | 170,0[1] | 130,0* | 137,0[1] | 111,0* | 111,0 | 87,1 | 89,2[1] | 70,7 | 70,7 | | | | | | |
| 32 | B | | 231,0[1] | 169,0* | 212,0[1] | 160,0* | 193,0[1] | 151,0* | 174,0[1] | 130,0* | 139,0[1] | 110,0* | 112,0[1] | 90,3* | 90,3 | 69,4 | 70,3[1] | 61,4 | 61,4 | 54,3 | 54,3 | | |
| | BV | | 243,0[1] | 163,0* | 212,0[1] | 156,0* | 188,0[1] | 146,0* | 169,0[1] | 126,0* | 136,0[1] | 108,0* | 110,0[1] | 84,8 | 88,6[1] | 69,5 | 70,2[1] | 61,5 | 61,5 | 54,3 | 54,3 | | |
| 34 | B | | 225,0[1] | 163,0* | 209,0[1] | 153,0* | 191,0[1] | 145,0* | 173,0[1] | 126,0* | 139,0[1] | 108,0* | 113,0[1] | 89,2* | 89,7[1] | 68,0 | 70,3[1] | 60,5 | 61,4[1] | 53,5 | 53,5 | 46,5 | 46,5 |
| | BV | | 244,0[1] | 160,0* | 214,0[1] | 151,0* | 190,0[1] | 141,0* | 168,0[1] | 122,0* | 135,0[1] | 105,0* | 110,0[1] | 87,6* | 88,1[1] | 68,1 | 69,8[1] | 60,4 | 61,3[1] | 53,5 | 53,5 | 46,6 | 46,6 |
| 36 | B | | 220,0[1] | | 206,0[1] | 147,0* | 189,0[1] | 140,0* | 172,0[1] | 122,0* | 139,0[1] | 106,0* | 113,0[1] | 87,7* | 89,8[1] | 70,8* | 70,8 | 59,4 | 61,5[1] | 52,8 | 53,6[1] | 46,0 | 46,0 |
| | BV | | 245,0[1] | | 215,0[1] | 145,0* | 191,0[1] | 136,0* | 169,0[1] | 118,0* | 134,0[1] | 103,0* | 109,0[1] | 86,1* | 87,8[1] | 66,6 | 69,5[1] | 59,4 | 61,0[1] | 52,8 | 53,5[1] | 46,0 | 46,0 |
| 38 | B | | 211,0[2] | | 202,0[1] | 142,0* | 186,0[1] | 134,0* | 171,0[1] | 119,0* | 139,0[1] | 104,0* | 113,0[1] | 86,5* | 89,9[1] | 70,1* | 70,5[1] | 61,8* | 61,8 | 52,1 | 53,7[1] | 45,5 | 46,1[1] |
| | BV | | 239,0[1] | | 217,0[1] | 141,0* | 192,0[1] | 132,0* | 170,0[1] | 114,0* | 133,0[1] | 100,0* | 109,0[1] | 84,4* | 87,4[1] | 68,8* | 69,2[1] | 58,3 | 60,8[1] | 51,9 | 53,4[1] | 45,5 | 46,1[1] |
| 40 | B | | 201,0[3] | | 198,0[1] | 138,0* | 184,0[1] | 130,0* | 169,0[1] | 115,0* | 138,0[1] | 102,0* | 113,0[1] | 85,1* | 90,0[1] | 69,2* | 70,4[1] | 61,3* | 61,6[1] | 53,8* | 53,8 | 46,3* | 46,3 |
| | BV | | 228,0[1] | | 216,0[1] | 139,0* | 194,0[1] | 127,0* | 171,0[1] | 111,0* | 133,0[1] | 97,3* | 108,0[1] | 82,8* | 87,0[1] | 67,7* | 68,9[1] | 60,1* | 60,5[1] | 53,3* | 53,3 | 44,9 | 46,0[1] |
| 44 | B | | 183,0[8] | | 180,0[3] | | 174,0[1] | 121,0* | 166,0[1] | 107,0* | 136,0[1] | 96,5* | 113,0[1] | 82,2* | 90,2[1] | 67,3* | 70,2[1] | 59,9* | 61,3[1] | 53,1* | 53,5[1] | 46,0* | 46,0 |
| | BV | | 207,0[1] | | 202,0[2] | | 190,0[1] | 121,0* | 173,0[1] | 104,0* | 135,0[1] | 92,0* | 108,0[1] | 79,1* | 86,3[1] | 65,5* | 68,2[1] | 58,3* | 59,9[1] | 51,9* | 52,7[1] | 45,4* | 45,6[1] |
| 48 | B | | 165,0[11] | | 165,0[6] | | 160,0[3] | | 158,0[2] | 100,0* | 134,0[1] | 91,0* | 111,0[1] | 78,8* | 90,2[1] | 65,4* | 70,0[1] | 58,2* | 61,0[1] | 51,5* | 53,1[1] | 45,3* | 45,6[1] |
| | BV | | 187,0[4] | | 185,0[2] | | 177,0[2] | | 170,0[2] | 97,7* | 136,0[1] | 86,8* | 108,0[1] | 75,2* | 85,7[1] | 63,1* | 67,6[1] | 56,5* | 59,3[1] | 50,4* | 52,1[1] | 44,1* | 45,1[1] |
| 52 | B | | 147,0[11] | | 151,0[11] | | 146,0[6] | | 145,0[3] | 94,4* | 131,0[2] | 85,4* | 109,0[1] | 75,5* | 88,6[1] | 63,3* | 69,8[1] | 56,6* | 60,7[1] | 50,4* | 52,7[1] | 44,2* | 45,2[1] |
| | BV | | 170,0[8] | | 169,0[4] | | 164,0[1] | | 159,0[2] | 92,0* | 135,0[1] | 82,0* | 109,0[1] | 71,5* | 85,7[1] | 60,5* | 67,0[1] | 54,4* | 58,7[1] | 48,7* | 51,5[1] | 42,8* | 44,5[1] |
| 56 | B | | 131,0[11] | | 136,0[11] | | 134,0[10] | | 133,0[5] | 88,8* | 125,0[3] | 80,5* | 107,0[2] | 71,6* | 87,7[2] | 60,9* | 69,2[2] | 54,9* | 60,0[1] | 49,1* | 52,3[1] | 43,1* | 44,8[1] |
| | BV | | 154,0[11] | | 155,0[7] | | 150,0[5] | | 149,0[1] | 89,3* | 133,0[2] | 77,5* | 109,0[1] | 67,8* | 85,7[1] | 57,7* | 66,7[1] | 52,2* | 58,2[1] | 47,0* | 50,9[1] | 41,5* | 43,9[1] |
| 60 | B | | 116,0[11] | | 121,0[11] | | 122,0[11] | | 122,0[8] | | 117,0[3] | 75,9* | 106,0[2] | 67,6* | 86,4[2] | 58,5* | 69,1[2] | 52,8* | 59,8[2] | 47,6* | 52,2[2] | 41,9* | 44,5[2] |
| | BV | | 137,0[10] | | 143,0[11] | | 139,0[5] | | 137,0[3] | | 129,0[1] | 73,4* | 109,0[2] | 64,3* | 85,7[1] | 55,0* | 66,3[1] | 49,9* | 57,7[1] | 45,2* | 50,3[1] | 40,0* | 43,4[1] |
| 64 | B | | 103,0[10] | | 108,0[11] | | 109,0[11] | | 113,0[11] | | 109,0[5] | 71,0* | 103,0[3] | 63,7* | 85,1[2] | 55,7* | 67,9[2] | 50,8* | 59,1[2] | 45,9* | 52,4[2] | 40,5* | 44,3[2] |
| | BV | | 123,0[10] | | 129,0[11] | | 128,0[9] | | 127,0[5] | | 121,0[1] | 71,2* | 107,0[1] | 61,0* | 85,1[1] | 52,3* | 66,0[1] | 47,6* | 57,2[1] | 43,1* | 49,8[1] | 38,4* | 42,7[1] |
| 68 | B | | 91,2[9] | | 95,8[10] | | 97,4[11] | | 102,0[11] | | 101,0[7] | 67,1* | 97,9[4] | 59,9* | 83,0[3] | 52,5* | 66,7[2] | 48,4* | 57,9[2] | 44,0* | 51,4[2] | 38,9* | 43,9[2] |
| | BV | | 110,0[9] | | 115,0[10] | | 117,0[11] | | 118,0[7] | | 113,0[3] | 67,4* | 106,0[1] | 57,5* | 85,4[2] | 49,5* | 65,6[2] | 45,1* | 56,8[2] | 41,0* | 49,3[2] | 36,5* | 42,2[2] |
| 72 | B | | 81,3[8] | | 85,6[10] | | 86,2[11] | | 91,3[11] | | 93,6[9] | | 91,5[5] | 56,4* | 81,6[3] | 49,3* | 65,8[3] | 45,5* | 57,1[3] | 41,9* | 50,9[3] | 37,3* | 43,2[3] |
| | BV | | 99,7[9] | | 104,0[10] | | 105,0[11] | | 110,0[11] | | 105,0[4] | | 102,0[2] | 54,4* | 84,7[2] | 46,8* | 65,8[2] | 42,7* | 56,8[2] | 38,9* | 49,2[2] | 34,7* | 42,1[2] |
| 76 | B | | 72,1[7] | | 76,1[9] | | 76,5[10] | | 81,5[11] | | 86,4[11] | | 85,1[6] | 53,0* | 79,5[4] | 46,3* | 64,8[3] | 42,7* | 56,3[3] | 39,5* | 50,2[3] | 35,6* | 43,1[3] |
| | BV | | 89,4[7] | | 93,4[9] | | 93,9[10] | | 98,9[11] | | 98,3[6] | | 95,9[3] | 52,0* | 84,1[2] | 44,2* | 65,5[2] | 40,4* | 56,8[2] | 36,8* | 49,1[2] | 32,8* | 41,9[2] |
| 80 | B | | 64,2[8] | | 67,7[8] | | 67,4[9] | | 72,0[10] | | 78,3[11] | | 79,1[7] | 49,6* | 75,3[5] | 43,6* | 63,3[3] | 40,2* | 55,6[3] | 37,1* | 49,5[3] | 33,6* | 42,4[3] |
| | BV | | 80,8[7] | | 84,3[9] | | 83,8[9] | | 88,4[10] | | 92,1[8] | | 90,0[4] | 50,4* | 83,3[2] | 41,8* | 65,1[3] | 38,2* | 56,0[3] | 34,8* | 48,9[2] | 31,0* | 41,7[2] |
| 84 | B | | 56,9[6] | | 60,2[8] | | 59,8[9] | | 63,9[10] | | 70,2[11] | | 74,1[9] | | 70,6[6] | 40,9* | 62,3[4] | 37,8* | 54,5[4] | 34,9* | 48,7[3] | 31,6* | 41,7[3] |
| | BV | | 72,8[6] | | 76,0[8] | | 75,5[9] | | 79,6[10] | | 85,8[11] | | 84,1[5] | | 80,2[3] | 39,6* | 64,9[3] | 36,0* | 56,1[3] | 32,9* | 48,5[3] | 29,3* | 41,2[2] |
| 88 | B | | | | 53,2[7] | | 52,3[8] | | 56,2[9] | | 62,4[11] | | 68,9[11] | | 66,4[7] | 38,1* | 60,2[5] | 35,1* | 54,0[4] | 32,5* | 47,7[4] | 29,6* | 41,0[3] |
| | BV | | | | 68,4[7] | | 67,4[8] | | 71,3[9] | | 77,3[11] | | 78,8[7] | | 75,2[4] | 38,1* | 64,6[3] | 34,1* | 55,4[4] | 31,0* | 48,5[3] | 27,7* | 41,3[3] |
| 92 | B | | | | 47,2[6] | | 46,0[8] | | 49,5[9] | | 54,6[10] | | 62,4[11] | | 62,4[8] | 35,4* | 57,4[5] | 32,4* | 52,6[5] | 30,0* | 47,2[4] | 27,4* | 40,5[4] |
| | BV | | | | 61,7[7] | | 60,5[8] | | 64,0[9] | | 68,9[10] | | 74,2[9] | | 70,7[5] | 36,4* | 64,4[3] | 32,4* | 54,9[4] | 29,3* | 48,0[3] | 26,0* | 41,0[3] |
| 96 | B | | | | | | 40,0[7] | | 43,3[8] | | 48,0[10] | | 55,9[11] | | 58,5[10] | | 54,9[6] | 30,1* | 50,6[5] | 27,5* | 45,9[5] | 25,0* | 40,0[4] |
| | BV | | | | | | 53,9[7] | | 57,1[8] | | 61,7[10] | | 69,6[11] | | 66,8[6] | | 61,1[4] | 31,0* | 54,1[4] | 27,7* | 47,8[4] | 24,6* | 40,8[4] |
| 100 | B | | | | | | | | 37,3[7] | | 41,6[9] | | 49,4[11] | | 54,2[11] | | 51,6[7] | 28,4* | 49,6[6] | 25,4* | 44,6[5] | 22,8* | 39,1[5] |
| | BV | | | | | | | | 50,6[7] | | 54,9[9] | | 62,7[11] | | 62,9[7] | | 57,8[4] | 29,5* | 53,4[4] | 26,1* | 47,5[4] | 23,2* | 40,5[4] |
| 104 | B | | | | | | | | 32,3[7] | | 36,0[9] | | 42,9[10] | | 48,8[11] | | 48,2[8] | | 47,0[7] | 23,6* | 44,1[6] | 20,8* | 38,3[5] |
| | BV | | | | | | | | 45,1[7] | | 48,8[9] | | 55,6[10] | | 59,5[9] | | 54,7[5] | | 51,1[4] | 24,6* | 47,2[4] | 21,5* | 40,0[5] |
| 108 | B | | | | | | | | | | 30,7[8] | | 37,4[10] | | 43,4[11] | | 45,8[10] | | 43,9[8] | | 42,3[7] | 19,2* | 37,9[6] |
| | BV | | | | | | | | | | 42,9[8] | | 49,6[10] | | 55,7[11] | | 51,6[6] | | 48,9[5] | | 45,8[4] | 20,0* | 39,7[5] |
| 112 | B | | | | | | | | | | 25,6[7] | | 31,9[9] | | 38,1[11] | | 42,2[11] | | 41,0[9] | | 39,6[8] | 18,3* | 36,5[7] |
| | BV | | | | | | | | | | 37,5[7] | | 43,7[9] | | 49,8[11] | | 49,0[8] | | 46,3[6] | | 44,3[5] | 19,2* | 39,3[5] |
| 116 | B | | | | | | | | | | 21,5[7] | | 27,1[9] | | 32,5[10] | | 37,7[11] | | 38,8[11] | | 37,5[9] | | 34,6[8] |
| | BV | | | | | | | | | | 32,5[7] | | 38,6[9] | | 43,8[10] | | 46,6[9] | | 43,7[7] | | 41,6[6] | | 38,9[5] |
| 120 | B | | | | | | | | | | | | 22,6[8] | | 27,7[10] | | 33,2[11] | | 34,7[11] | | 34,9[10] | | 32,9[8] |
| | BV | | | | | | | | | | | | 33,5[8] | | 38,7[10] | | 43,8[11] | | 41,2[9] | | 39,2[7] | | 36,4[6] |
| 124 | B | | | | | | | | | | | | 18,4[7] | | 23,0[9] | | 28,5[11] | | 30,5[11] | | 32,1[11] | | 31,1[10] |
| | BV | | | | | | | | | | | | 28,7[7] | | 33,6[9] | | 39,0[11] | | 39,4[11] | | 37,2[8] | | 34,2[7] |
| 128 | B | | | | | | | | | | | | 15,4[7] | | 19,3[9] | | 23,7[10] | | 26,2[11] | | 28,2[11] | | 29,2[11] |
| | BV | | | | | | | | | | | | 23,9[7] | | 29,1[9] | | 33,9[10] | | 35,8[11] | | 35,0[10] | | 32,3[8] |
| 132 | B | | | | | | | | | | | | | | 15,8[8] | | 19,9[10] | | 21,9[11] | | 24,4[11] | | 25,6[11] |
| | BV | | | | | | | | | | | | | | 24,5[8] | | 29,5[10] | | 31,7[11] | | 33,0[11] | | 30,7[9] |
| 136 | B | | | | | | | | | | | | | | 12,6[7] | | 16,2[9] | | 18,1[10] | | 20,7[11] | | 22,1[11] |
| | BV | | | | | | | | | | | | | | 20,0[7] | | 24,9[9] | | 27,2[10] | | 29,3[11] | | 29,3[11] |
| 140 | B | | | | | | | | | | | | | | 9,9[7] | | 13,3[9] | | 14,6[9] | | 16,8[10] | | 18,8[11] |
| | BV | | | | | | | | | | | | | | 16,5[7] | | 21,1[9] | | 22,6[9] | | 25,2[10] | | 26,5[11] |
| 144 | B | | | | | | | | | | | | | | | | 10,3[8] | | 11,8[9] | | 13,9[10] | | 15,6[11] |
| | BV | | | | | | | | | | | | | | | | 17,2[8] | | 19,4[9] | | 21,5[10] | | 23,4[11] |
| 148 | B | | | | | | | | | | | | | | | | | | 8,8[8] | | 10,7[9] | | 12,4[10] |
| | BV | | | | | | | | | | | | | | | | 13,6[7] | | 15,8[8] | | 17,8[9] | | 19,8[10] |
| 152 | B | | | | | | | | | | | | | | | | | | | | 8,2[9] | | 9,3[9] |
| | BV | | | | | | | | | | | | | | | | 10,4[7] | | 12,5[8] | | 15,0[9] | | 16,2[9] |
| 156 | B | | | | | | | | | | | | | | | | | | | | | | |
| | BV | | | | | | | | | | | | | | | | | | 9,0[7] | | 11,5[8] | | 13,6[9] |
| 160 | B | | | | | | | | | | | | | | | | | | | | | | |
| | BV | | | | | | | | | | | | | | | | | | | | | | 10,4[8] |
| 164 | B | | | | | | | | | | | | | | | | | | | | | | |
| | BV | | | | | | | | | | | | | | | | | | | | | | 7,1[8] |

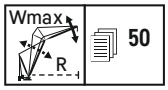
1) 12°; 2) 17°; 3) 22°; 4) 27°; 5) 32°; 6) 37°; 7) 42°; 8) 47°; 9) 52°; 10) 57°; 11) 62°

# HSDWB / HSDWBV
# HS 102

Schmidbauer



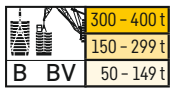


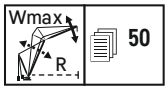



HS 102 m

| m | | W 18 m | | W 24 m | | W 30 m | | W 36 m | | W 48 m | | W 60 m | | W 72 m | | W 84 | | W 90 | | W 96 | | W 102 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax |
| 14 | B | 220,0 | 220,0 | | | | | | | | | | | | | | | | | | | | |
| | BV | 220,0 | 220,0 | | | | | | | | | | | | | | | | | | | | |
| 16 | B | 211,0 | 220,0[1] | 192,0 | 192,0 | | | | | | | | | | | | | | | | | | |
| | BV | 210,0 | 218,0[1] | 191,0 | 191,0 | | | | | | | | | | | | | | | | | | |
| 18 | B | 220,0* | 220,0 | 185,0 | 195,0[1] | 171,0 | 173,0[1] | 156,0 | 156,0 | | | | | | | | | | | | | | |
| | BV | 215,0* | 216,0[1] | 183,0 | 192,0[1] | 170,0 | 173,0[1] | 156,0 | 156,0 | | | | | | | | | | | | | | |
| 20 | B | 213,0* | 219,0[1] | 194,0* | 195,0[1] | 165,0 | 174,0[1] | 152,0 | 155,0[1] | | | | | | | | | | | | | | |
| | BV | 207,0* | 213,0[1] | 189,0* | 190,0[1] | 164,0 | 172,0[1] | 151,0 | 154,0[1] | | | | | | | | | | | | | | |
| 22 | B | 205,0* | 218,0[1] | 189,0* | 194,0[1] | 173,0* | 174,0[1] | 147,0 | 155,0[1] | 122,0 | 122,0 | | | | | | | | | | | | |
| | BV | 198,0* | 211,0[1] | 182,0* | 187,0[1] | 169,0* | 170,0[1] | 146,0 | 153,0[1] | 122,0 | 122,0 | | | | | | | | | | | | |
| 24 | B | 197,0* | 218,0[1] | 182,0* | 193,0[1] | 168,0* | 173,0[1] | 154,0* | 155,0[1] | 118,0 | 123,0[1] | 99,9 | 99,9 | | | | | | | | | | |
| | BV | 189,0* | 209,0[1] | 175,0* | 185,0[1] | 164,0* | 168,0[1] | 150,0* | 152,0[1] | 118,0 | 121,0[1] | 99,6 | 99,6 | | | | | | | | | | |
| 26 | B | 189,0* | 217,0[1] | 175,0* | 192,0[1] | 163,0* | 173,0[1] | 150,0* | 155,0[1] | 124,0* | 124,0 | 97,4 | 99,0[1] | | | | | | | | | | |
| | BV | 180,0* | 206,0[1] | 167,0* | 183,0[1] | 157,0* | 166,0[1] | 145,0* | 150,0[1] | 121,0* | 121,0 | 96,7 | 98,1[1] | | | | | | | | | | |
| 28 | B | 181,0* | 216,0[1] | 168,0* | 191,0[1] | 157,0* | 172,0[1] | 145,0* | 155,0[1] | 120,0* | 123,0[1] | 94,7 | 98,9[1] | 78,1 | 78,1 | | | | | | | | |
| | BV | 173,0* | 204,0[1] | 159,0* | 181,0[1] | 151,0* | 164,0[1] | 140,0* | 148,0[1] | 117,0* | 119,0[1] | 93,9 | 97,1[1] | 77,9 | 77,9 | | | | | | | | |
| 30 | B | | 214,0[1] | 160,0* | 191,0[1] | 151,0* | 172,0[1] | 141,0* | 154,0[1] | 117,0* | 123,0[1] | 99,0* | 99,0 | 76,5 | 78,5[1] | 61,5 | 61,5 | | | | | | |
| | BV | | 206,0[1] | 151,0* | 179,0[1] | 144,0* | 162,0[1] | 135,0* | 147,0[1] | 113,0* | 118,0[1] | 96,3* | 96,3 | 75,9 | 77,5[1] | 61,4 | 61,4 | | | | | | |
| 32 | B | | 211,0[1] | 154,0* | 189,0[1] | 145,0* | 171,0[1] | 136,0* | 154,0[1] | 114,0* | 123,0[1] | 97,1* | 98,9[1] | 74,9 | 78,6[1] | 60,4 | 61,2[1] | 53,4 | 53,4 | 47,0 | 47,0 | | |
| | BV | | 208,0[1] | 144,0* | 180,0[1] | 138,0* | 160,0[1] | 129,0* | 145,0[1] | 110,0* | 117,0[1] | 93,7* | 95,4[1] | 73,9 | 76,8[1] | 60,2 | 60,7[1] | 53,1 | 53,1 | 46,6 | 46,6 | | |
| 34 | B | | 208,0[1] | 148,0* | 187,0[1] | 139,0* | 170,0[1] | 132,0* | 154,0[1] | 112,0* | 122,0[1] | 95,0* | 98,9[1] | 78,4* | 78,6[1] | 59,4 | 61,4[1] | 52,6 | 53,4[1] | 46,4 | 46,4 | 40,3 | 40,3 |
| | BV | | 210,0[1] | 142,0* | 182,0[1] | 133,0* | 161,0[1] | 125,0* | 143,0[1] | 107,0* | 116,0[1] | 91,4* | 94,7[1] | 76,0* | 76,2[1] | 58,9 | 60,4[1] | 52,2 | 52,8[1] | 46,0 | 46,0 | 39,8 | 39,8 |
| 36 | B | | 206,0[1] | | 185,0[1] | 134,0* | 168,0[1] | 127,0* | 153,0[1] | 109,0* | 122,0[1] | 93,2* | 98,9[1] | 77,5* | 78,6[1] | 62,1* | 62,1 | 51,8 | 53,6[1] | 45,8 | 46,6[1] | 39,8 | 39,8 |
| | BV | | 212,0[1] | | 184,0[1] | 128,0* | 162,0[1] | 120,0* | 143,0[1] | 103,0* | 115,0[1] | 89,2* | 94,1[1] | 74,6* | 75,7[1] | 58,6* | 60,1[1] | 51,3 | 52,6[1] | 45,3 | 45,9[1] | 39,3 | 39,3 |
| 38 | B | | 203,0[1] | | 184,0[1] | 129,0* | 166,0[1] | 122,0* | 151,0[1] | 106,0* | 122,0[1] | 91,4* | 98,9[1] | 76,2* | 78,7[1] | 61,4* | 61,7[1] | 54,1* | 54,1 | 45,1 | 46,8[1] | 39,2 | 40,0[1] |
| | BV | | 215,0[1] | | 186,0[1] | 124,0* | 164,0[1] | 116,0* | 145,0[1] | 99,9* | 114,0[1] | 87,0* | 93,4[1] | 73,1* | 75,3[1] | 59,5* | 59,7[1] | 50,6* | 52,4[1] | 44,6 | 45,8[1] | 38,8 | 39,3[1] |
| 40 | B | | 195,0[2] | | 182,0[1] | 125,0* | 164,0[1] | 118,0* | 150,0[1] | 103,0* | 122,0[1] | 89,5* | 98,9[1] | 74,8* | 78,7[1] | 60,7* | 61,6[1] | 53,5* | 53,8[1] | 47,1* | 47,1 | 38,7 | 40,1[1] |
| | BV | | 211,0[2] | | 188,0[1] | 123,0* | 166,0[1] | 112,0* | 146,0[1] | 96,7* | 113,0[1] | 84,7* | 92,8[1] | 71,5* | 74,8[1] | 58,5* | 59,3[1] | 51,9* | 52,1[1] | 43,8 | 45,7[1] | 38,2 | 39,2[1] |
| 44 | B | | 178,0[6] | | 174,0[3] | | 161,0[1] | 110,0* | 147,0[1] | 96,3* | 120,0[1] | 85,6* | 98,9[1] | 72,1* | 78,7[1] | 58,8* | 61,6[1] | 52,3* | 53,6[1] | 46,2* | 46,7[1] | 40,0* | 40,1[1] |
| | BV | | 197,0[5] | | 183,0[2] | | 168,0[1] | 106,0* | 148,0[1] | 90,6* | 115,0[1] | 80,0* | 91,5[1] | 68,3* | 73,9[1] | 56,3* | 58,6[1] | 50,1* | 51,5[1] | 44,6* | 45,1[1] | 38,7* | 38,9[1] |
| 48 | B | | 163,0[11] | | 161,0[5] | | 155,0[3] | | 143,0[2] | 90,0* | 118,0[1] | 80,8* | 97,3[1] | 69,4* | 78,8[1] | 57,0* | 61,5[1] | 50,8* | 53,4[1] | 45,1* | 46,5[1] | 39,2* | 39,8[1] |
| | BV | | 183,0[1] | | 175,0[1] | | 164,0[3] | | 149,0[1] | 84,9* | 116,0[1] | 75,4* | 92,2[1] | 65,0* | 73,0[1] | 54,0* | 57,8[1] | 48,2* | 50,8[1] | 43,0* | 44,5[1] | 37,5* | 38,4[1] |
| 52 | B | | 146,0[11] | | 148,0[10] | | 144,0[5] | | 139,0[3] | 84,5* | 116,0[1] | 76,1* | 95,7[1] | 66,6* | 77,6[1] | 55,1* | 61,4[1] | 49,2* | 53,2[1] | 43,7* | 46,2[1] | 38,1* | 39,4[1] |
| | BV | | 167,0[4] | | 166,0[1] | | 156,0[1] | | 145,0[1] | 80,0* | 117,0[1] | 71,0* | 92,9[1] | 61,5* | 73,1[1] | 51,6* | 57,1[1] | 46,3* | 50,1[1] | 41,4* | 43,9[1] | 36,2* | 37,8[1] |
| 56 | B | | 129,0[11] | | 135,0[11] | | 132,0[8] | | 131,0[5] | 79,5* | 112,0[2] | 71,6* | 94,1[2] | 63,1* | 76,7[2] | 53,1* | 60,5[1] | 47,6* | 52,9[1] | 42,4* | 45,9[1] | 37,0* | 39,1[1] |
| | BV | | 153,0[11] | | 152,0[4] | | 147,0[1] | | 142,0[1] | 77,3* | 117,0[1] | 67,0* | 93,6[1] | 58,2* | 73,3[1] | 49,2* | 56,8[1] | 44,3* | 49,5[1] | 39,7* | 43,3[1] | 34,8* | 37,3[1] |
| 60 | B | | 115,0[11] | | 120,0[11] | | 121,0[11] | | 121,0[7] | | 108,0[3] | 67,6* | 92,7[2] | 59,6* | 75,4[2] | 51,1* | 60,4[2] | 45,9* | 52,4[2] | 41,0* | 45,3[2] | 35,9* | 38,7[1] |
| | BV | | 137,0[11] | | 141,0[8] | | 136,0[4] | | 135,0[2] | | 116,0[1] | 63,3* | 93,5[1] | 55,1* | 73,5[1] | 46,7* | 56,6[1] | 42,2* | 49,2[1] | 37,9* | 42,9[1] | 33,4* | 36,7[1] |
| 64 | B | | 101,0[10] | | 107,0[11] | | 108,0[11] | | 111,0[10] | | 104,0[5] | 63,1* | 89,9[3] | 56,1* | 74,1[2] | 48,6* | 59,3[2] | 44,0* | 52,1[2] | 39,4* | 45,5[2] | 34,6* | 38,6[2] |
| | BV | | 122,0[10] | | 128,0[11] | | 125,0[7] | | 124,0[4] | | 116,0[1] | 61,2* | 92,9[2] | 51,9* | 73,5[1] | 44,2* | 56,5[1] | 40,0* | 48,9[1] | 36,1* | 42,5[1] | 31,8* | 36,3[1] |
| 68 | B | | 90,6[9] | | 95,5[11] | | 96,7[11] | | 101,0[11] | | 97,8[6] | 59,8* | 86,8[4] | 52,6* | 72,8[2] | 45,6* | 58,2[2] | 41,7* | 51,1[2] | 37,8* | 44,8[2] | 33,2* | 38,6[2] |
| | BV | | 110,0[10] | | 115,0[11] | | 116,0[11] | | 116,0[6] | | 109,0[2] | 58,0* | 92,4[2] | 48,9* | 73,0[2] | 41,6* | 56,4[1] | 37,7* | 48,6[1] | 34,1* | 42,1[1] | 30,1* | 35,8[1] |
| 72 | B | | 80,0[9] | | 84,8[10] | | 86,1[11] | | 90,8[11] | | 90,9[8] | | 83,6[5] | 49,5* | 71,3[3] | 42,8* | 57,2[2] | 39,2* | 50,3[3] | 36,0* | 44,2[3] | 31,7* | 37,7[2] |
| | BV | | 98,3[9] | | 103,0[10] | | 104,0[11] | | 108,0[9] | | 101,0[3] | | 91,9[2] | 46,0* | 72,8[2] | 39,1* | 55,9[2] | 35,4* | 48,2[1] | 32,1* | 41,7[1] | 28,4* | 35,4[1] |
| 76 | B | | 71,3[9] | | 75,4[10] | | 75,6[10] | | 81,2[11] | | 84,8[11] | | 80,6[6] | 46,6* | 68,8[4] | 40,2* | 56,2[3] | 36,8* | 49,4[3] | 33,7* | 43,5[3] | 30,1* | 37,5[3] |
| | BV | | 88,7[9] | | 92,8[10] | | 92,9[10] | | 98,6[11] | | 94,5[5] | | 89,3[2] | 43,7* | 72,5[2] | 36,8* | 56,0[2] | 33,3* | 48,3[2] | 30,1* | 41,5[2] | 26,6* | 35,1[2] |
| 80 | B | | 63,0[7] | | 67,0[9] | | 67,2[10] | | 72,0[11] | | 76,8[11] | | 77,3[7] | 44,0* | 66,4[4] | 37,7* | 55,2[3] | 34,5* | 48,6[3] | 31,6* | 42,8[3] | 28,3* | 36,9[3] |
| | BV | | 79,5[8] | | 83,5[9] | | 83,6[10] | | 88,4[11] | | 88,4[7] | | 84,5[3] | 42,6* | 72,2[2] | 34,6* | 55,6[2] | 31,3* | 48,1[2] | 28,2* | 41,5[2] | 24,9* | 35,0[2] |
| 84 | B | | 55,9[7] | | 59,3[9] | | 58,8[9] | | 63,6[10] | | 68,8[11] | | 71,7[9] | | 64,2[5] | 35,5* | 53,8[4] | 32,3* | 47,7[3] | 29,5* | 42,1[3] | 26,4* | 36,2[3] |
| | BV | | 71,7[7] | | 75,0[9] | | 74,5[9] | | 79,2[10] | | 83,1[10] | | 79,0[4] | | 71,4[3] | 32,6* | 55,3[3] | 29,4* | 47,7[2] | 26,5* | 41,3[2] | 23,3* | 35,0[2] |
| 88 | B | | 49,2[7] | | 52,5[7] | | 51,8[9] | | 56,0[10] | | 61,2[11] | | 67,5[11] | | 61,6[6] | 33,2* | 52,3[4] | 30,3* | 46,6[4] | 27,6* | 41,3[3] | 24,6* | 35,6[3] |
| | BV | | 64,3[7] | | 67,6[7] | | 66,8[9] | | 70,9[10] | | 76,2[11] | | 74,6[6] | | 69,4[3] | 31,4* | 55,4[3] | 27,6* | 47,6[3] | 24,8* | 41,1[3] | 21,7* | 34,5[2] |
| 92 | B | | | | 46,1[7] | | 45,1[8] | | 49,0[9] | | 53,9[11] | | 61,2[11] | | 59,3[8] | 31,1* | 50,7[5] | 28,3* | 45,4[4] | 25,7* | 40,4[4] | 22,9* | 34,9[3] |
| | BV | | | | 60,5[7] | | 59,4[8] | | 63,3[9] | | 68,1[11] | | 70,1[7] | | 65,2[4] | 30,4* | 55,4[3] | 26,2* | 47,4[3] | 23,2* | 41,0[3] | 20,3* | 34,6[3] |
| 96 | B | | | | 40,5[7] | | 39,2[8] | | 42,7[9] | | 46,9[10] | | 54,8[11] | | 56,5[9] | | 49,2[6] | 25,9* | 44,4[5] | 23,8* | 39,5[4] | 21,2* | 34,3[4] |
| | BV | | | | 54,4[7] | | 53,0[8] | | 56,3[9] | | 60,6[10] | | 66,7[10] | | 61,1[5] | | 54,3[3] | 25,7* | 47,3[3] | 21,8* | 40,9[3] | 19,2* | 34,5[3] |
| 100 | B | | | | | | 33,7[7] | | 36,8[8] | | 40,7[10] | | 48,6[11] | | 52,9[11] | | 47,6[7] | 24,6* | 42,8[6] | 21,7* | 38,9[5] | 19,5* | 33,5[4] |
| | BV | | | | | | 46,9[7] | | 50,1[8] | | 53,8[10] | | 61,1[11] | | 57,4[6] | | 53,3[4] | 24,6* | 46,6[4] | 21,3* | 40,8[3] | 18,1* | 34,3[3] |
| 104 | B | | | | | | | | 31,4[7] | | 34,8[9] | | 42,4[11] | | 47,7[11] | | 45,9[8] | | 41,3[7] | 20,2* | 37,2[6] | 17,9* | 33,0[5] |
| | BV | | | | | | | | 44,2[7] | | 47,5[9] | | 54,8[11] | | 54,6[8] | | 50,1[5] | | 46,5[4] | 20,5* | 40,7[4] | 17,4* | 34,2[3] |
| 108 | B | | | | | | | | 26,6[7] | | 29,5[9] | | 36,4[10] | | 42,4[11] | | 43,6[9] | | 40,0[8] | | 35,7[7] | 16,5* | 31,7[6] |
| | BV | | | | | | | | 39,0[7] | | 41,8[9] | | 48,6[10] | | 51,8[10] | | 47,2[6] | | 44,0[5] | | 40,9[4] | 16,8* | 34,0[4] |
| 112 | B | | | | | | | | | | 24,6[8] | | 31,1[10] | | 37,2[11] | | 41,0[11] | | 39,0[9] | | 34,5[8] | 15,6* | 30,7[6] |
| | BV | | | | | | | | | | 36,4[8] | | 42,9[10] | | 47,7[11] | | 44,5[7] | | 41,5[5] | | 38,7[5] | 16,0* | 34,1[4] |
| 116 | B | | | | | | | | | | 19,9[7] | | 26,0[9] | | 31,9[11] | | 36,6[11] | | 36,7[10] | | 33,6[9] | | 29,8[7] |
| | BV | | | | | | | | | | 31,2[7] | | 37,4[9] | | 42,9[11] | | 41,7[8] | | 39,1[6] | | 37,1[5] | | 33,1[5] |
| 120 | B | | | | | | | | | | 16,7[7] | | 21,5[9] | | 26,8[10] | | 32,2[11] | | 33,5[11] | | 33,2[10] | | 29,0[8] |
| | BV | | | | | | | | | | 26,4[7] | | 32,4[9] | | 37,7[10] | | 39,5[10] | | 36,9[8] | | 34,9[6] | | 32,3[5] |
| 124 | B | | | | | | | | | | | | 17,7[8] | | 22,3[10] | | 27,7[11] | | 29,5[11] | | 31,0[11] | | 28,1[9] |
| | BV | | | | | | | | | | | | 27,7[8] | | 32,8[10] | | 36,5[11] | | 34,9[9] | | 32,8[7] | | 30,4[6] |
| 128 | B | | | | | | | | | | | | 14,4[7] | | 18,3[9] | | 23,1[11] | | 25,4[11] | | 27,3[11] | | 27,4[11] |
| | BV | | | | | | | | | | | | 23,2[7] | | 28,0[9] | | 32,9[11] | | 32,9[11] | | 30,8[9] | | 28,5[7] |
| 132 | B | | | | | | | | | | | | 11,5[7] | | 15,0[9] | | 19,0[10] | | 21,5[11] | | 23,5[11] | | 24,6[11] |
| | BV | | | | | | | | | | | | 19,2[7] | | 23,8[9] | | 28,5[10] | | 29,8[11] | | 29,3[11] | | 26,8[8] |
| 136 | B | | | | | | | | | | | | | | 11,8[8] | | 15,7[10] | | 17,3[10] | | 20,0[11] | | 21,3[11] |
| | BV | | | | | | | | | | | | | | 20,0[8] | | 24,3[10] | | 26,1[10] | | 26,9[11] | | 25,1[10] |
| 140 | B | | | | | | | | | | | | | | 8,8[7] | | 12,4[9] | | 14,3[10] | | 16,6[11] | | 18,1[11] |
| | BV | | | | | | | | | | | | | | 16,4[7] | | 20,3[9] | | 22,3[10] | | 24,2[11] | | 23,6[11] |
| 144 | B | | | | | | | | | | | | | | | | 9,6[9] | | 11,0[9] | | 13,1[10] | | 15,0[11] |
| | BV | | | | | | | | | | | | | | 12,8[7] | | 17,1[9] | | 18,3[9] | | 20,8[10] | | 21,4[11] |
| 148 | B | | | | | | | | | | | | | | | | | | 8,3[9] | | 10,3[10] | | 11,7[10] |
| | BV | | | | | | | | | | | | | | | | 13,7[8] | | 15,5[9] | | 17,5[10] | | 18,7[10] |
| 152 | B | | | | | | | | | | | | | | | | | | | | | | 8,9[10] |
| | BV | | | | | | | | | | | | | | | | 10,4[7] | | 12,2[8] | | 14,2[9] | | 15,9[10] |
| 156 | B | | | | | | | | | | | | | | | | | | | | | | |
| | BV | | | | | | | | | | | | | | | | 7,2[7] | | 9,2[8] | | 11,6[9] | | 12,7[9] |
| 160 | B | | | | | | | | | | | | | | | | | | | | | | |
| | BV | | | | | | | | | | | | | | | | | | | | 8,3[8] | | 10,2[9] |

1) 12°; 2) 17°; 3) 22°; 4) 27°; 5) 32°; 6) 37°; 7) 42°; 8) 47°; 9) 52°; 10) 57°; 11) 62°

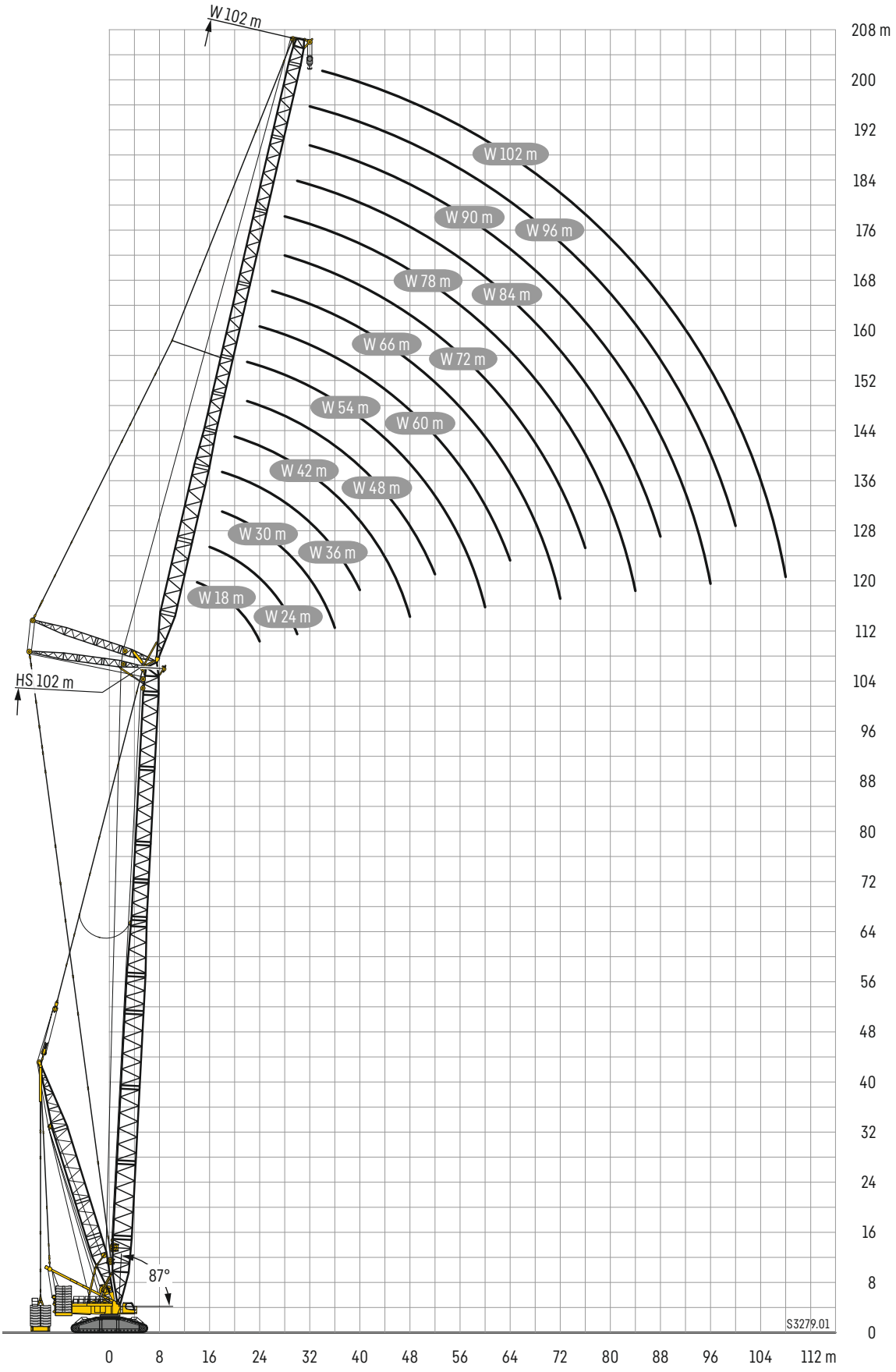


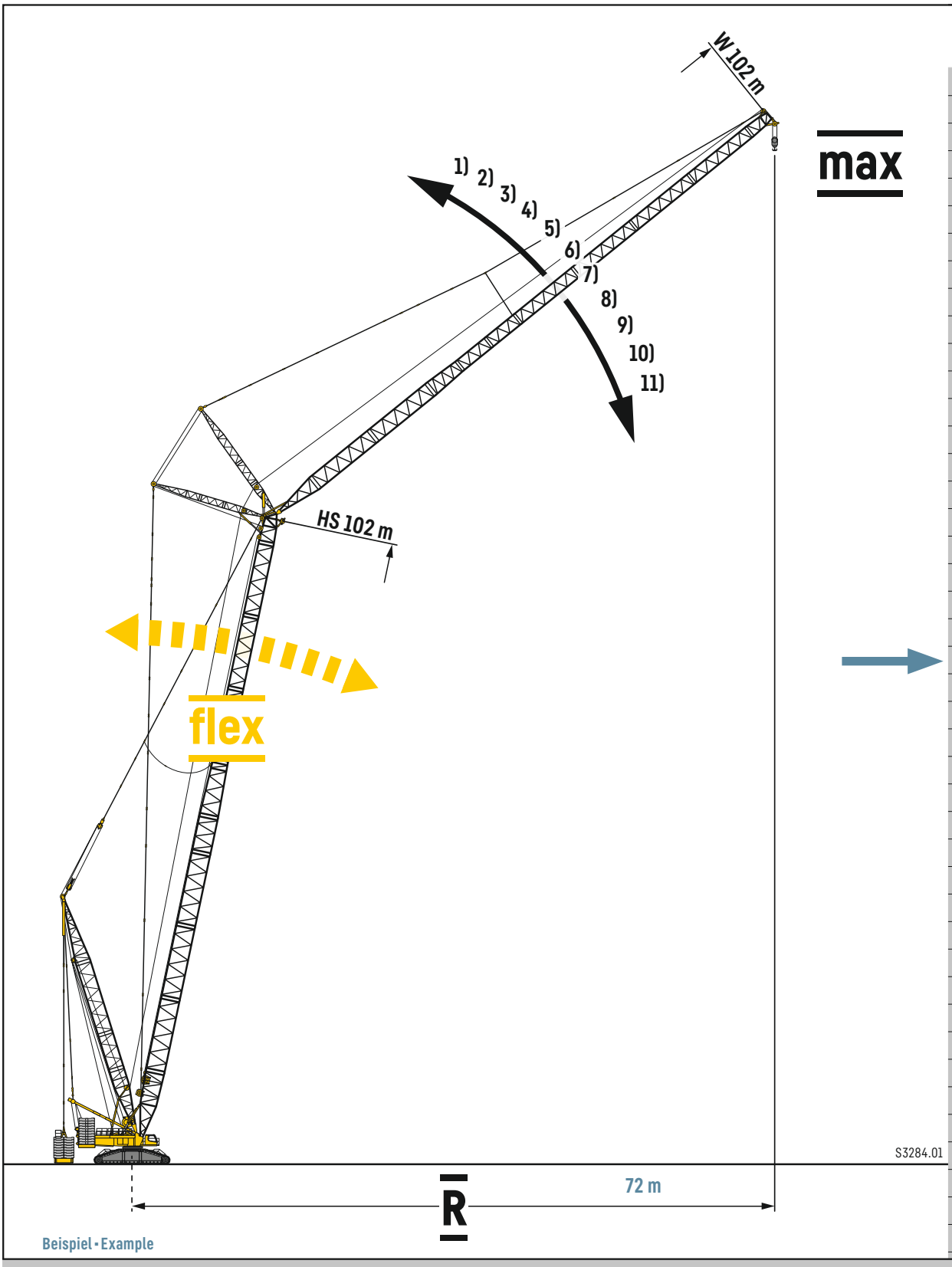



| m | | HS 108 m | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | W 18 m | | W 24 m | | W 30 m | | W 36 m | | W 48 m | | W 60 m | | W 72 m | | W 84 | | W 90 | | W 96 | | W 102 | |
| | | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax | 87/85* | Wmax |
| 14 | B | 195,0 | 195,0 | | | | | | | | | | | | | | | | | | | | |
| | BV | 194,0 | 194,0 | | | | | | | | | | | | | | | | | | | | |
| 16 | B | 189,0 | 195,0[1] | 171,0 | 171,0 | | | | | | | | | | | | | | | | | | |
| | BV | 186,0 | 191,0[1] | 169,0 | 169,0 | | | | | | | | | | | | | | | | | | |
| 18 | B | 196,0* | 196,0 | 166,0 | 172,0[1] | 152,0 | 152,0 | 138,0 | 138,0 | | | | | | | | | | | | | | |
| | BV | 189,0* | 189,0 | 162,0 | 167,0[1] | 150,0 | 150,0 | 137,0 | 137,0 | | | | | | | | | | | | | | |
| 20 | B | 191,0* | 195,0[1] | 173,0* | 173,0 | 148,0 | 154,0[1] | 135,0 | 137,0[1] | | | | | | | | | | | | | | |
| | BV | 182,0* | 185,0[1] | 165,0* | 165,0 | 145,0 | 150,0[1] | 133,0 | 135,0[1] | | | | | | | | | | | | | | |
| 22 | B | 184,0* | 194,0[1] | 168,0* | 172,0[1] | 155,0* | 155,0 | 131,0 | 137,0[1] | 109,0 | 109,0 | | | | | | | | | | | | |
| | BV | 174,0* | 182,0[1] | 159,0* | 162,0[1] | 148,0* | 148,0 | 129,0 | 133,0[1] | 107,0 | 107,0 | | | | | | | | | | | | |
| 24 | B | 178,0* | 193,0[1] | 163,0* | 171,0[1] | 150,0* | 154,0[1] | 137,0* | 137,0 | 106,0 | 109,0[1] | 87,7 | 87,7 | | | | | | | | | | |
| | BV | 167,0* | 179,0[1] | 153,0* | 160,0[1] | 143,0* | 146,0[1] | 131,0* | 131,0 | 104,0 | 106,0[1] | 86,6 | 86,6 | | | | | | | | | | |
| 26 | B | 171,0* | 192,0[1] | 157,0* | 170,0[1] | 145,0* | 153,0[1] | 133,0* | 137,0[1] | 103,0 | 109,0[1] | 85,7 | 86,7[1] | | | | | | | | | | |
| | BV | 158,0* | 175,0[1] | 146,0* | 157,0[1] | 137,0* | 144,0[1] | 126,0* | 129,0[1] | 100,0 | 104,0[1] | 84,1 | 84,9[1] | | | | | | | | | | |
| 28 | B | 165,0* | 191,0[1] | 151,0* | 170,0[1] | 141,0* | 153,0[1] | 129,0* | 136,0[1] | 107,0* | 108,0[1] | 83,7 | 86,6[1] | 68,2 | 68,2 | | | | | | | | |
| | BV | 151,0* | 172,0[1] | 139,0* | 154,0[1] | 132,0* | 141,0[1] | 122,0* | 127,0[1] | 102,0* | 103,0[1] | 81,5 | 83,7[1] | 67,3 | 67,3 | | | | | | | | |
| 30 | B | | 190,0[1] | 145,0* | 169,0[1] | 136,0* | 152,0[1] | 125,0* | 136,0[1] | 105,0* | 108,0[1] | 86,9* | 86,9 | 66,8 | 68,2[1] | 53,1 | 53,1 | | | | | | |
| | BV | | 171,0[1] | 133,0* | 151,0[1] | 127,0* | 139,0[1] | 117,0* | 126,0[1] | 98,7* | 101,0[1] | 82,9* | 82,9 | 65,6 | 66,5[1] | 52,5 | 52,5 | | | | | | |
| 32 | B | | 187,0[1] | 140,0* | 168,0[1] | 132,0* | 151,0[1] | 121,0* | 135,0[1] | 102,0* | 108,0[1] | 85,3* | 86,2[1] | 65,4 | 68,2[1] | 52,1 | 52,1 | | | | | | |
| | BV | | 173,0[1] | 127,0* | 149,0[1] | 122,0* | 137,0[1] | 113,0* | 124,0[1] | 95,6* | 100,0[1] | 80,7* | 81,6[1] | 63,7 | 65,7[1] | 51,4 | 51,4 | 45,1 | 45,1 | | | | |
| 34 | B | | 185,0[1] | 135,0* | 166,0[1] | 127,0* | 150,0[1] | 118,0* | 135,0[1] | 99,6* | 107,0[1] | 83,7* | 86,1[1] | 68,3* | 68,3 | 51,1 | 52,7[1] | | | | | | |
| | BV | | 175,0[1] | 123,0* | 151,0[1] | 118,0* | 135,0[1] | 109,0* | 122,0[1] | 92,6* | 98,9[1] | 78,6* | 80,7[1] | 65,1* | 65,1 | 50,3 | 51,3[1] | 44,3 | 44,7[1] | 38,8 | 38,8 | 33,4 | 33,4 |
| 36 | B | | 182,0[1] | | 165,0[1] | 122,0* | 149,0[1] | 114,0* | 134,0[1] | 97,3* | 107,0[1] | 82,0* | 85,9[1] | 67,4* | 68,1[1] | 53,3* | 53,3 | | | | | | |
| | BV | | 177,0[1] | | 153,0[1] | 114,0* | 136,0[1] | 106,0* | 120,0[1] | 89,9* | 97,6[1] | 76,7* | 79,9[1] | 63,7* | 64,4[1] | 49,1 | 50,9[1] | 43,5 | 44,5[1] | 38,3 | 38,6[1] | 32,8 | 32,8 |
| 38 | B | | 180,0[1] | | 164,0[1] | 118,0* | 148,0[1] | 111,0* | 133,0[1] | 94,9* | 107,0[1] | 80,2* | 85,7[1] | 66,4* | 68,0[1] | 52,8* | 52,9[1] | | | | | | |
| | BV | | 179,0[1] | | 154,0[1] | 110,0* | 137,0[1] | 102,0* | 121,0[1] | 87,1* | 96,3[1] | 74,6* | 79,0[1] | 62,3* | 63,8[1] | 50,4* | 50,4 | 42,6 | 44,4[1] | 37,5 | 38,4[1] | 32,3 | 32,7[1] |
| 40 | B | | 178,0[1] | | 162,0[1] | 113,0* | 147,0[1] | 107,0* | 132,0[1] | 92,4* | 107,0[1] | 78,6* | 85,5[1] | 65,2* | 67,9[1] | 52,3* | 52,8[1] | | | | | | |
| | BV | | 180,0[1] | | 156,0[1] | 109,0* | 138,0[1] | 98,6* | 122,0[1] | 84,4* | 95,1[1] | 72,6* | 78,2[1] | 60,9* | 63,1[1] | 49,4* | 50,0[1] | 43,9* | 44,1[1] | 38,4* | 38,4 | 31,7 | 32,5[1] |
| 44 | B | | 171,0[5] | | 157,0[2] | | 144,0[1] | 99,6* | 130,0[1] | 87,1* | 105,0[1] | 75,2* | 85,2[1] | 62,7* | 67,7[1] | 50,7* | 52,6[1] | | | | | | |
| | BV | | 177,0[1] | | 158,0[1] | | 140,0[1] | 92,7* | 123,0[1] | 79,3* | 95,8[1] | 68,5* | 76,5[1] | 57,9* | 61,9[1] | 47,3* | 49,0[1] | 42,0* | 43,2[1] | 37,1* | 37,5[1] | 32,0* | 32,1[1] |
| 48 | B | | 160,0[10] | | 150,0[4] | | 140,0[2] | | 128,0[1] | 81,7* | 104,0[1] | 71,6* | 84,2[1] | 60,3* | 67,5[1] | 49,1* | 52,4[1] | | | | | | |
| | BV | | 173,0[1] | | 157,0[1] | | 141,0[1] | | 125,0[1] | 74,6* | 96,9[1] | 64,7* | 76,6[1] | 54,9* | 60,7[1] | 45,2* | 48,1[1] | 40,1* | 42,2[1] | 35,6* | 36,7[1] | 30,8* | 31,4[1] |
| 52 | B | | 144,0[11] | | 143,0[8] | | 133,0[4] | | 124,0[3] | 76,5* | 102,0[1] | 67,7* | 83,1[1] | 57,8* | 66,8[1] | 47,3* | 52,2[1] | | | | | | |
| | BV | | 164,0[2] | | 157,0[1] | | 141,0[1] | | 126,0[1] | 70,1* | 98,0[1] | 61,0* | 77,2[1] | 52,0* | 60,4[1] | 43,0* | 47,1[1] | 38,3* | 41,3[1] | 34,0* | 36,0[1] | 29,4* | 30,7[1] |
| 56 | B | | 129,0[11] | | 132,0[11] | | 128,0[7] | | 119,0[4] | 72,0* | 100,0[2] | 63,8* | 82,0[1] | 55,1* | 65,9[1] | 45,5* | 51,7[1] | | | | | | |
| | BV | | 151,0[7] | | 148,0[2] | | 141,0[1] | | 127,0[1] | 67,5* | 98,7[1] | 57,5* | 77,8[1] | 49,2* | 60,6[1] | 40,8* | 46,6[1] | 36,4* | 40,3[1] | 32,3* | 35,2[1] | 28,1* | 30,1[1] |
| 60 | B | | 115,0[11] | | 119,0[11] | | 120,0[11] | | 114,0[6] | | 97,6[3] | 59,9* | 80,7[2] | 52,4* | 65,0[1] | 43,6* | 51,0[2] | | | | | | |
| | BV | | 137,0[11] | | 137,0[5] | | 131,0[2] | | 127,0[1] | | 99,0[1] | 54,3* | 78,3[1] | 46,5* | 60,9[1] | 38,6* | 46,5[1] | 34,5* | 40,1[1] | 30,7* | 34,7[1] | 26,6* | 29,4[1] |
| 64 | B | | 102,0[11] | | 106,0[11] | | 108,0[11] | | 109,0[9] | | 94,0[4] | 56,0* | 79,4[2] | 49,3* | 64,1[2] | 41,6* | 50,4[2] | | | | | | |
| | BV | | 122,0[11] | | 126,0[11] | | 122,0[5] | | 118,0[2] | | 99,3[1] | 52,4* | 78,1[1] | 43,8* | 61,1[1] | 36,5* | 46,5[1] | 32,5* | 40,0[1] | 29,0* | 34,4[1] | 25,2* | 29,0[1] |
| 68 | B | | 90,1[10] | | 94,7[11] | | 96,6[11] | | 99,7[11] | | 89,1[5] | 52,9* | 77,2[3] | 46,1* | 63,2[2] | 39,2* | 49,7[2] | | | | | | |
| | BV | | 110,0[10] | | 114,0[11] | | 113,0[9] | | 110,0[4] | | 99,1[2] | 49,9* | 77,9[1] | 41,1* | 60,8[1] | 34,2* | 46,4[1] | 30,6* | 39,8[1] | 27,3* | 34,2[1] | 23,6* | 28,7[1] |
| 72 | B | | 80,1[10] | | 83,4[10] | | 86,1[11] | | 89,7[11] | | 85,7[7] | | 74,8[4] | 43,3* | 61,8[2] | 37,0* | 48,9[2] | | | | | | |
| | BV | | 98,4[9] | | 102,0[10] | | 104,0[11] | | 103,0[7] | | 95,2[3] | | 77,8[2] | 38,7* | 60,4[1] | 32,1* | 46,1[1] | 28,6* | 39,6[1] | 25,5* | 33,9[1] | 22,1* | 28,4[1] |
| 76 | B | | 70,8[8] | | 74,6[10] | | 76,2[11] | | 80,0[11] | | 82,9[10] | | 71,9[2] | 40,8* | 60,4[5] | 34,7* | 48,2[2] | | | | | | |
| | BV | | 88,1[9] | | 91,9[10] | | 93,2[11] | | 95,7[11] | | 89,7[4] | | 78,1[2] | 36,5* | 60,3[2] | 30,2* | 45,7[2] | 26,8* | 39,2[1] | 23,9* | 33,6[1] | 20,6* | 28,1[1] |
| 80 | B | | 62,9[8] | | 65,7[9] | | 67,0[10] | | 71,2[11] | | 76,5[11] | | 68,2[6] | 38,3* | 58,8[4] | 32,3* | 47,4[3] | | | | | | |
| | BV | | 79,3[8] | | 82,1[9] | | 83,4[10] | | 86,9[11] | | 83,6[6] | | 77,5[3] | 35,7* | 60,4[2] | 28,2* | 45,7[2] | 25,1* | 39,1[2] | 22,2* | 33,2[2] | 19,3* | 27,7[1] |
| 84 | B | | 55,4[8] | | 58,3[8] | | 59,1[10] | | 62,3[10] | | 68,9[11] | | 66,2[8] | | 57,0[5] | 30,4* | 46,4[3] | | | | | | |
| | BV | | 71,1[8] | | 74,0[9] | | 74,7[10] | | 77,9[10] | | 78,7[8] | | 73,5[4] | | 60,5[2] | 26,5* | 45,7[2] | 23,4* | 39,0[2] | 20,7* | 33,3[2] | 18,2* | 27,6[2] |
| 88 | B | | 48,8[8] | | 51,3[8] | | 51,6[9] | | 55,1[10] | | 61,4[11] | | 62,9[10] | | 55,0[3] | 28,4* | 45,2[4] | | | | | | |
| | BV | | 63,8[8] | | 66,2[8] | | 66,5[9] | | 70,1[10] | | 73,7[11] | | 69,2[5] | | 60,5[3] | 25,3* | 45,7[2] | 21,8* | 38,9[2] | 19,4* | 33,1[2] | 17,1* | 27,5[2] |
| 92 | B | | 42,7[6] | | 45,2[8] | | 45,1[9] | | 47,9[9] | | 54,2[11] | | 58,9[11] | | 52,3[7] | 26,6* | 43,8[3] | | | | | | |
| | BV | | 57,1[6] | | 59,5[8] | | 59,3[9] | | 62,1[9] | | 67,2[11] | | 64,6[6] | | 58,8[4] | 24,6* | 45,5[3] | 20,4* | 38,8[2] | 18,3* | 33,0[2] | 16,0* | 27,4[2] |
| 96 | B | | 37,1[6] | | 39,3[7] | | 38,8[8] | | 41,8[9] | | 46,8[10] | | 53,3[11] | | 50,2[9] | | 42,5[3] | | | | | | |
| | BV | | 51,0[7] | | 53,0[7] | | 52,6[8] | | 55,5[9] | | 60,5[10] | | 60,9[8] | | 56,0[4] | | 45,9[3] | 20,1* | 38,8[3] | 17,2* | 32,9[2] | 15,0* | 27,3[2] |
| 100 | B | | | | 34,1[7] | | 33,2[7] | | 35,8[8] | | 40,8[10] | | 47,7[11] | | 48,8[10] | | 41,0[4] | | | | | | |
| | BV | | | | 47,4[7] | | 46,6[8] | | 48,9[8] | | 54,0[10] | | 57,7[11] | | 52,6[5] | | 45,4[4] | 19,3* | 39,1[3] | 16,8* | 33,0[3] | 14,0* | 27,2[3] |
| 104 | B | | | | | | 28,1[6] | | 30,7[8] | | 34,7[9] | | 41,7[11] | | 45,2[11] | | 39,0[8] | | | | | | |
| | BV | | | | | | 41,0[7] | | 43,3[8] | | 47,3[9] | | 52,8[11] | | 49,8[7] | | 44,3[4] | | 38,8[4] | 16,3* | 33,3[3] | 13,4* | 27,4[3] |
| 108 | B | | | | | | 23,4[7] | | 25,6[7] | | 29,6[9] | | 35,5[10] | | 41,0[11] | | 38,1[9] | | | | | | |
| | BV | | | | | | 35,7[7] | | 37,8[7] | | 41,7[9] | | 47,6[10] | | 46,9[9] | | 42,5[5] | | 38,2[4] | | 33,0[4] | 13,2* | 27,5[3] |
| 112 | B | | | | | | | | 21,5[7] | | 24,3[8] | | 30,4[10] | | 36,6[11] | | 36,5[11] | | | | | | |
| | BV | | | | | | | | 33,0[7] | | 36,1[8] | | 42,2[10] | | 44,3[11] | | 39,8[6] | | 37,1[5] | | 32,8[4] | 12,5* | 27,4[4] |
| 116 | B | | | | | | | | | | 20,4[8] | | 25,1[9] | | 31,5[11] | | 33,8[11] | | | | | | |
| | BV | | | | | | | | | | 31,3[8] | | 36,4[9] | | 40,7[11] | | 37,3[7] | | 34,9[6] | | 32,7[5] | | 27,4[4] |
| 120 | B | | | | | | | | | | 16,4[7] | | 21,1[9] | | 26,0[10] | | 30,6[11] | | | | | | |
| | BV | | | | | | | | | | 26,5[7] | | 31,7[9] | | 36,8[10] | | 35,3[9] | | 32,8[7] | | 30,6[5] | | 27,5[5] |
| 124 | B | | | | | | | | | | 13,3[7] | | 16,9[8] | | 21,9[10] | | 27,0[11] | | | | | | |
| | BV | | | | | | | | | | 22,4[7] | | 26,8[8] | | 32,1[10] | | 33,2[11] | | 30,8[8] | | 28,6[6] | | 26,1[5] |
| 128 | B | | | | | | | | | | | | 13,9[8] | | 17,5[9] | | 22,8[11] | | | | | | |
| | BV | | | | | | | | | | | | 22,8[8] | | 27,0[9] | | 30,6[11] | | 29,1[10] | | 26,8[8] | | 24,3[6] |
| 132 | B | | | | | | | | | | | | 10,7[7] | | 14,5[9] | | 18,3[10] | | | | | | |
| | BV | | | | | | | | | | | | 18,7[7] | | 23,1[9] | | 27,6[10] | | 27,1[11] | | 25,3[9] | | 22,7[7] |
| 136 | B | | | | | | | | | | | | 7,8[7] | | 11,2[8] | | 15,2[10] | | | | | | |
| | BV | | | | | | | | | | | | 15,8[7] | | 18,9[8] | | 23,7[10] | | 24,8[11] | | 23,8[11] | | 21,1[8] |
| 140 | B | | | | | | | | | | | | | | 8,4[8] | | 11,8[9] | | | | | | |
| | BV | | | | | | | | | | | | | | 16,0[8] | | 19,2[9] | | 21,7[10] | | 22,0[11] | | 19,9[11] |
| 144 | B | | | | | | | | | | | | | | | | 9,0[9] | | | | | | |
| | BV | | | | | | | | | | | | | | 12,9[7] | | 16,4[9] | | 18,3[10] | | 19,7[10] | | 18,4[11] |
| 148 | B | | | | | | | | | | | | | | | | | | | | | | |
| | BV | | | | | | | | | | | | | | 10,3[7] | | 13,2[8] | | 14,8[9] | | 16,8[10] | | 16,7[11] |
| 152 | B | | | | | | | | | | | | | | | | | | | | | | |
| | BV | | | | | | | | | | | | | | | | 10,6[8] | | 12,1[9] | | 13,5[9] | | 14,4[10] |
| 156 | B | | | | | | | | | | | | | | | | | | | | | | |
| | BV | | | | | | | | | | | | | | | | | | 9,2[8] | | 11,0[9] | | 12,2[10] |
| 160 | B | | | | | | | | | | | | | | | | | | | | | | |
| | BV | | | | | | | | | | | | | | | | | | 6,7[8] | | | | 9,5[9] |
| 164 | B | | | | | | | | | | | | | | | | | | | | | | |
| | BV | | | | | | | | | | | | | | | | | | | | | | 7,1[9] |

1) 12°; 2) 17°; 3) 22°; 4) 27°; 5) 32°; 6) 37°; 7) 42°; 8) 47°; 9) 52°; 10) 57°; 11) 62°

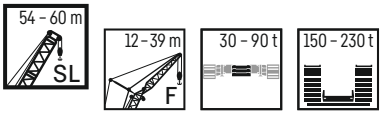
# HSDWB / HSDWBV






| m | | HS 102 / W 102 87/85* | Wmax |
|---|---|---|---|
| 14 | B | | |
| | BV | | |
| 16 | B | | |
| | BV | | |
| 18 | B | | |
| | BV | | |
| 20 | B | | |
| | BV | | |
| 22 | B | | |
| | BV | | |
| 24 | B | | |
| | BV | | |
| 26 | B | | |
| | BV | | |
| 28 | B | | |
| | BV | | |
| 30 | B | | |
| | BV | | |
| 32 | B | | |
| | BV | | |
| 34 | B | 40,3 | 40,3 |
| | BV | 39,8 | 39,8 |
| 36 | B | 39,8 | 39,8 |
| | BV | 39,3 | 39,3 |
| 38 | B | 39,2 | 40,0(1) |
| | BV | 38,8 | 39,3(1) |
| 40 | B | 38,7 | 40,1(1) |
| | BV | 38,2 | 39,2(1) |
| 44 | B | 40,0* | 40,1(1) |
| | BV | 38,7* | 38,9(1) |
| 48 | B | 39,2* | 39,8(1) |
| | BV | 37,5* | 38,4(1) |
| 52 | B | 38,1* | 39,4(1) |
| | BV | 36,2* | 37,8(1) |
| 56 | B | 37,0* | 39,1(1) |
| | BV | 34,8* | 37,3(1) |
| 60 | B | 35,9* | 38,7(1) |
| | BV | 33,4* | 36,7(1) |
| 64 | B | 34,6* | 38,6(2) |
| | BV | 31,8* | 36,3(1) |
| 68 | B | 33,2* | 38,6(2) |
| | BV | 30,1* | 35,8(1) |
| 72 | B | 31,7* | 37,7(2) |
| | BV | 28,4* | 35,4(1) |
| 76 | B | 30,1* | 37,5(3) |
| | BV | 26,6* | 35,1(2) |
| 80 | B | 28,3* | 36,9(3) |
| | BV | 24,9* | 35,0(2) |
| 84 | B | 26,4* | 36,2(3) |
| | BV | 23,3* | 35,0(2) |
| 88 | B | 24,6* | 35,6(3) |
| | BV | 21,7* | 34,5(2) |
| 92 | B | 22,9* | 34,9(3) |
| | BV | 20,3* | 34,6(3) |
| 96 | B | 21,2* | 34,3(4) |
| | BV | 19,2* | 34,5(3) |
| 100 | B | 19,5* | 33,5(4) |
| | BV | 18,1* | 34,3(3) |
| 104 | B | 17,9* | 33,0(5) |
| | BV | 17,4* | 34,2(3) |
| 108 | B | 16,5* | 31,7(6) |
| | BV | 16,8* | 34,0(4) |
| 112 | B | 15,6* | 30,7(6) |
| | BV | 16,0* | 34,1(4) |
| 116 | B | | 29,8(7) |
| | BV | | 33,1(5) |
| 120 | B | | 29,0(8) |
| | BV | | 32,3(5) |
| 124 | B | | 28,1(9) |
| | BV | | 30,4(6) |
| 128 | B | | 27,4(11) |
| | BV | | 28,5(7) |
| 132 | B | | 24,6(11) |
| | BV | | 26,8(8) |
| 136 | B | | 21,3(11) |
| | BV | | 25,1(10) |
| 140 | B | | 18,1(11) |
| | BV | | 23,6(11) |
| 144 | B | | 15,0(11) |
| | BV | | 21,4(11) |
| 148 | B | | 11,7(10) |
| | BV | | 18,7(10) |
| 152 | B | | 8,9(10) |
| | BV | | 15,9(10) |
| 156 | B | | |
| | BV | | 12,7(9) |

1) 12°; 2) 17°; 3) 22°; 4) 27°; 5) 32°; 6) 37°; 7) 42°; 8) 47°; 9) 52°; 10) 57°; 11) 62°

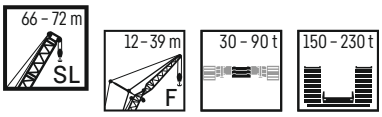



**SL 54 m**

| m | F 12 m | | | F 15 m | | | F 18 m | | | F 21 m | | | F 24 m | | | F 27 m | | | F 30 m | | | F 33 m | | F 36 m | | F 39 m | | m |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 18° | 30° | 18° | 30° | 18° | 30° | |
| 12 | 185 | | | | | | | | | | | | | | | | | | | | | | | | | | | 12 |
| 14 | 185 | 180 | | 175 | | | | | | | | | | | | | | | | | | | | | | | | 14 |
| 16 | 185 | 171 | 119 | 164 | 143 | | 141 | 122 | | 125 | | | 117 | | | | | | | | | | | | | | | 16 |
| 18 | 185 | 162 | 115 | 155 | 135 | 101 | 134 | 116 | | 118 | 104 | | 110 | 95 | | 102 | | | 96,6 | | | | | | | | | 18 |
| 20 | 182 | 155 | 111 | 146 | 129 | 97,2 | 126 | 110 | 85,3 | 111 | 99,2 | 73,1 | 103 | 90,1 | | 95,9 | 83,7 | | 90,7 | 78,7 | | | | | | | | 20 |
| 22 | 171 | 148 | 107 | 139 | 123 | 93,5 | 120 | 105 | 77,6 | 106 | 94,5 | 70,2 | 97,8 | 85,8 | 65,2 | 90,5 | 79,4 | | 85,4 | 74,7 | | 71 | | 68,3 | | 66,2 | | 22 |
| 24 | 154 | 142 | 104 | 132 | 118 | 90,1 | 114 | 101 | 74,8 | 100 | 90,2 | 67,8 | 92,6 | 81,8 | 62,8 | 85,6 | 75,6 | 58,9 | 80,7 | 71 | | 67,3 | | 64,6 | | 62,6 | | 24 |
| 26 | 140 | 136 | 101 | 126 | 113 | 87,2 | 108 | 96,6 | 72,3 | 95,6 | 86,4 | 65,4 | 87,8 | 78,2 | 60,4 | 81,3 | 72 | 56,6 | 76,3 | 67,6 | 54 | 64 | 51,4 | 61,2 | | 59,1 | | 26 |
| 28 | 126 | 126 | 98,2 | 120 | 109 | 80,8 | 104 | 92,6 | 69,8 | 91,1 | 82,9 | 63,3 | 83,7 | 74,9 | 58,3 | 77,2 | 68,9 | 54,6 | 72,5 | 64,6 | 52 | 61 | 49,3 | 58,3 | 46,8 | 56,1 | 44,9 | 28 |
| 30 | 114 | 115 | 95,7 | 113 | 105 | 77,1 | 99,1 | 89,2 | 67,9 | 87,2 | 79,9 | 61,1 | 80 | 71,9 | 56,4 | 73,6 | 66 | 52,7 | 69,1 | 61,8 | 50,1 | 58,2 | 47,5 | 55,6 | 45,1 | 53,5 | 42,9 | 30 |
| 32 | 103 | 104 | 93,3 | 105 | 101 | 74,8 | 95 | 86,1 | 65,8 | 83,6 | 76,8 | 59,2 | 76,7 | 69 | 54,4 | 70,3 | 63,3 | 50,9 | 65,9 | 59,1 | 48,2 | 55,7 | 45,6 | 53 | 43,2 | 50,9 | 41,1 | 32 |
| 34 | 94,4 | 95,2 | 91,1 | 95,3 | 95,4 | 72,8 | 91,2 | 83,2 | 63,9 | 80,2 | 74,2 | 57,5 | 73,6 | 66,4 | 52,8 | 67,2 | 60,9 | 49,2 | 62,9 | 56,8 | 46,5 | 53,4 | 44,2 | 50,6 | 41,6 | 48,5 | 39,7 | 34 |
| 36 | 86,6 | 87,4 | 87,2 | 87,7 | 88,9 | 70,9 | 87,7 | 80,5 | 62,2 | 77,1 | 71,7 | 55,8 | 70,6 | 64,2 | 51,1 | 64,6 | 58,6 | 47,5 | 60,3 | 54,5 | 45 | 51,3 | 42,6 | 48,6 | 40,1 | 46,5 | 38,1 | 36 |
| 38 | 79,5 | 80,4 | 81,9 | 80,7 | 82 | 69,1 | 81,9 | 77,9 | 60,5 | 74,3 | 69,3 | 54,2 | 67,9 | 62 | 49,6 | 62,1 | 56,5 | 46 | 57,9 | 52,5 | 43,5 | 49,2 | 41,1 | 46,6 | 38,7 | 44,4 | 36,7 | 38 |
| 40 | 73,4 | 74,2 | 75,7 | 74,3 | 75,6 | 67,5 | 76 | 75,2 | 58,8 | 71,6 | 67,1 | 52,6 | 65,3 | 59,9 | 48,3 | 59,7 | 54,5 | 44,7 | 55,5 | 50,6 | 42,2 | 47,3 | 39,9 | 44,7 | 37,5 | 42,5 | 35,4 | 40 |
| 44 | 63,1 | 63,7 | 64,8 | 63,9 | 64,9 | 64,1 | 65,3 | 66 | 56,1 | 65,2 | 63,1 | 50 | 60,7 | 56,1 | 45,6 | 55,4 | 50,9 | 42,2 | 51,3 | 47 | 39,7 | 43,9 | 37,4 | 41,5 | 35,1 | 39,2 | 33 | 44 |
| 48 | 54,5 | 54,8 | 55,9 | 55,2 | 56,3 | 57,6 | 56,8 | 57,4 | 53,5 | 57,4 | 58 | 47,8 | 56,5 | 53 | 43,4 | 51,5 | 47,8 | 39,9 | 47,7 | 44,1 | 37,4 | 41 | 35,2 | 38,5 | 33 | 36,4 | 30,9 | 48 |
| 52 | 47,2 | 47,5 | 48,5 | 48,1 | 48,9 | 50,1 | 49,5 | 50 | 50,2 | 50,1 | 51,1 | 45,8 | 51,2 | 49,8 | 41,5 | 48,3 | 45,2 | 38 | 44,5 | 41,4 | 35,5 | 38,4 | 33,3 | 36 | 31,1 | 33,8 | 29,1 | 52 |
| 56 | 41,2 | 41,4 | 42 | 42 | 42,6 | 43,5 | 43,3 | 43,7 | 44,8 | 43,9 | 44,7 | 43,7 | 44,9 | 45,1 | 39,8 | 44,5 | 42,9 | 36,4 | 41,9 | 39,1 | 33,8 | 36,1 | 31,6 | 33,7 | 29,5 | 31,6 | 27,5 | 56 |
| 60 | | | 36,5 | 36,7 | 37,3 | 37,9 | 37,9 | 38,2 | 39,1 | 38,5 | 39,3 | 39,8 | 39,6 | 40,1 | 38,1 | 40 | 40,1 | 34,8 | 39,2 | 37,1 | 32,3 | 34,1 | 30,1 | 31,7 | 28,1 | 29,7 | 26 | 60 |
| 64 | | | | | | | 33,4 | 33,6 | 34,1 | 33,9 | 34,5 | 35 | 35,1 | 35,3 | 36 | 35,4 | 35,7 | 33,5 | 35,7 | 35 | 31 | 32,3 | 28,7 | 29,9 | 26,7 | 27,9 | 24,7 | 64 |
| 68 | | | | | | | | | | 29,9 | 30,4 | 30,7 | 30,9 | 31,2 | 31,7 | 31,3 | 31,7 | 31,6 | 32 | 32,4 | 29,8 | 30,7 | 27,5 | 28,4 | 25,6 | 26,2 | 23,6 | 68 |
| 72 | | | | | | | | | | | | | | | 27,7 | 27,8 | 28 | 28,5 | 28,5 | 28,8 | 28,8 | 28,6 | 26,4 | 27 | 24,5 | 24,9 | 22,6 | 72 |
| 76 | | | | | | | | | | | | | | | | | | | 25,3 | 25,5 | 26 | 25,9 | 25,5 | 25,8 | 23,6 | 23,7 | 21,7 | 76 |
| 80 | | | | | | | | | | | | | | | | | | | | | | | 23,4 | 23,4 | 22,9 | 22,5 | 21 | 80 |
| 84 | | | | | | | | | | | | | | | | | | | | | | | | | | 20,9 | 20,4 | 84 |

**SL 60 m**

| m | F 12 m | | | F 15 m | | | F 18 m | | | F 21 m | | | F 24 m | | | F 27 m | | | F 30 m | | | F 33 m | | F 36 m | | F 39 m | | m |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 18° | 30° | 18° | 30° | 18° | 30° | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 12 |
| 14 | 185 | 183 | | 176 | | | | | | | | | | | | | | | | | | | | | | | | 14 |
| 16 | 185 | 173 | 119 | 167 | 144 | | 143 | | | 127 | | | | | | | | | | | | | | | | | | 16 |
| 18 | 185 | 165 | 116 | 157 | 137 | 101 | 135 | 117 | | 120 | 105 | | 111 | | | 103 | | | 97,2 | | | | | | | | | 18 |
| 20 | 182 | 158 | 112 | 149 | 131 | 98 | 128 | 112 | 85,8 | 113 | 100 | | 105 | 91,2 | | 97,1 | 84,2 | | 91,8 | | | | | | | | | 20 |
| 22 | 165 | 152 | 108 | 142 | 126 | 95 | 122 | 107 | 78,3 | 107 | 95,8 | 70,9 | 99,5 | 86,7 | 65,7 | 91,8 | 80 | | 86,8 | 75,4 | | 71,5 | | 68,8 | | 66,6 | | 22 |
| 24 | 149 | 145 | 105 | 135 | 121 | 91,5 | 117 | 103 | 75,7 | 103 | 91,9 | 68,4 | 94,3 | 83 | 63,3 | 87,2 | 76,7 | 59,1 | 82,1 | 71,7 | | 68,1 | | 65,2 | | 63,1 | | 24 |
| 26 | 135 | 137 | 103 | 130 | 116 | 88,7 | 111 | 98,6 | 73,2 | 97,8 | 88,2 | 66,1 | 90,1 | 79,6 | 61 | 83 | 73,1 | 57 | 78 | 68,8 | 54,3 | 65 | 51,5 | 62 | | 59,8 | | 26 |
| 28 | 124 | 125 | 99,7 | 122 | 112 | 85,2 | 106 | 95 | 71 | 93,4 | 84,6 | 64,1 | 85,9 | 76,3 | 59,1 | 79,1 | 70,2 | 55,1 | 74,2 | 65,7 | 52,4 | 61,9 | 49,6 | 59,2 | 47,1 | 57 | 45 | 28 |
| 30 | 113 | 113 | 97,3 | 113 | 108 | 78,6 | 102 | 91,5 | 68,8 | 89,6 | 81,6 | 62,1 | 82 | 73,5 | 57,2 | 75,5 | 67,3 | 53,3 | 70,7 | 63,1 | 50,6 | 59,2 | 47,9 | 56,5 | 45,4 | 54,3 | 43,3 | 30 |
| 32 | 102 | 103 | 95,2 | 104 | 102 | 76,5 | 97,9 | 88,2 | 67,1 | 86,1 | 78,7 | 60,2 | 78,8 | 70,7 | 55,3 | 72,4 | 64,7 | 51,6 | 67,7 | 60,4 | 48,9 | 56,8 | 46,2 | 54,2 | 43,7 | 51,8 | 41,5 | 32 |
| 34 | 92,8 | 93,8 | 91,7 | 94,4 | 94,9 | 74,6 | 93,2 | 85,5 | 65,2 | 82,9 | 76 | 58,5 | 75,7 | 68,3 | 53,7 | 69,4 | 62,3 | 50 | 64,7 | 58,2 | 47,3 | 54,5 | 44,7 | 51,7 | 42,2 | 49,6 | 40 | 34 |
| 36 | 85 | 85,6 | 86,6 | 86,3 | 87,7 | 72,7 | 87,7 | 82,6 | 63,5 | 79,8 | 73,6 | 57 | 72,8 | 66 | 52,1 | 66,6 | 60,1 | 48,4 | 62 | 55,9 | 45,8 | 52,4 | 43,1 | 49,8 | 40,7 | 47,5 | 38,6 | 36 |
| 38 | 78,1 | 78,7 | 80,5 | 79,3 | 80,5 | 70,9 | 80,8 | 79,1 | 62 | 76,8 | 71,1 | 55,4 | 70,1 | 63,8 | 50,7 | 64 | 58 | 47 | 59,6 | 53,8 | 44,4 | 50,4 | 41,7 | 47,8 | 39,3 | 45,4 | 37,2 | 38 |
| 40 | 71,8 | 72,4 | 74,2 | 73 | 74,3 | 69,1 | 74,7 | 75 | 60,5 | 74,1 | 68,9 | 53,9 | 67,6 | 61,7 | 49,3 | 61,6 | 56,1 | 45,6 | 57,3 | 51,9 | 43 | 48,6 | 40,5 | 46 | 38 | 43,7 | 36,1 | 40 |
| 44 | 61,5 | 61,8 | 63,3 | 62,2 | 63,5 | 64,5 | 63,8 | 64,4 | 57,5 | 64,6 | 64,1 | 51,2 | 63 | 58 | 46,8 | 57,3 | 52,5 | 43,2 | 53,1 | 48,5 | 40,6 | 45,3 | 38,1 | 42,8 | 35,8 | 40,5 | 33,7 | 44 |
| 48 | 53 | 53,3 | 54,6 | 53,7 | 54,7 | 56,2 | 55 | 55,6 | 55,1 | 55,6 | 57 | 49 | 57 | 54,6 | 44,6 | 53,7 | 49,4 | 40,9 | 49,5 | 45,6 | 38,5 | 42,3 | 36,1 | 39,8 | 33,8 | 37,6 | 31,6 | 48 |
| 52 | 45,7 | 46 | 47 | 46,5 | 47,3 | 48,8 | 47,9 | 48,4 | 49,8 | 48,5 | 49,7 | 47,1 | 49,6 | 50,1 | 42,6 | 49,7 | 46,7 | 39 | 46,5 | 42,9 | 36,6 | 39,7 | 34,2 | 37,2 | 31,9 | 35 | 29,7 | 52 |
| 56 | 39,6 | 39,8 | 40,6 | 40,4 | 41,1 | 42,3 | 41,6 | 42,1 | 43,4 | 42,4 | 43,4 | 43,7 | 43,5 | 44,1 | 40,8 | 43,8 | 43,7 | 37,5 | 43,4 | 40,7 | 34,9 | 37,5 | 32,5 | 35 | 30,2 | 32,8 | 28,1 | 56 |
| 60 | 34,4 | 34,6 | 35,3 | 35,1 | 35,8 | 36,8 | 36,3 | 36,7 | 37,9 | 37,1 | 37,9 | 38,6 | 38,1 | 38,7 | 38,3 | 38,5 | 39,2 | 35,8 | 39,3 | 38,1 | 33,3 | 35,4 | 30,9 | 32,9 | 28,8 | 30,8 | 26,7 | 60 |
| 64 | 29,9 | 30,1 | 30,6 | 30,6 | 31,1 | 31,9 | 31,8 | 32,1 | 33 | 32,4 | 33,1 | 33,8 | 33,5 | 34 | 34,9 | 33,9 | 34,4 | 34,5 | 34,6 | 34,8 | 32 | 33,4 | 29,6 | 31,2 | 27,5 | 29 | 25,5 | 64 |
| 68 | | | | | 27,1 | 27,6 | 27,8 | 28 | 28,7 | 28,3 | 28,9 | 29,5 | 29,4 | 29,8 | 30,5 | 29,8 | 30,2 | 31,1 | 30,5 | 31,1 | 30,5 | 31,1 | 28,4 | 29,5 | 26,4 | 27,5 | 24,3 | 68 |
| 72 | | | | | | | | | | 24,8 | 25,3 | 25,7 | 25,8 | 26,1 | 26,6 | 26,2 | 26,5 | 27,3 | 26,9 | 27,3 | 28 | 27,6 | 27 | 27,3 | 25,4 | 25,9 | 23,2 | 72 |
| 76 | | | | | | | | | | | | | 22,6 | 22,8 | 23,2 | 23 | 23,3 | 23,8 | 23,7 | 24 | 24,8 | 24,4 | 25,1 | 24,7 | 24,4 | 24,2 | 22,3 | 76 |
| 80 | | | | | | | | | | | | | | | | | | 20,7 | 20,9 | 21,2 | 21,7 | 21,4 | 22,2 | 21,9 | 22,6 | 22 | 21,5 | 80 |
| 84 | | | | | | | | | | | | | | | | | | | | | | 18,8 | 19,3 | 19,1 | 20 | 19,3 | 19,9 | 84 |
| 88 | | | | | | | | | | | | | | | | | | | | | | | | | 17,3 | 17 | 17,6 | 88 |

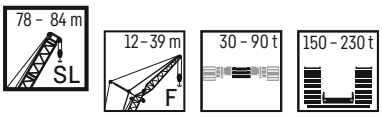



**SL 66 m**

| m | F 12 m | | | F 15 m | | | F 18 m | | | F 21 m | | | F 24 m | | | F 27 m | | | F 30 m | | | F 33 m | | F 36 m | | F 39 m | | m |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 18° | 30° | 18° | 30° | 18° | 30° | |
| 14 | 185 | 183 | | | | | | | | | | | | | | | | | | | | | | | | | | 14 |
| 16 | 185 | 175 | | 168 | 145 | | 144 | | | | | | | | | | | | | | | | | | | | | 16 |
| 18 | 185 | 168 | 116 | 159 | 138 | 102 | 137 | 118 | | 121 | 106 | | 112 | | | 104 | | | | | | | | | | | | 18 |
| 20 | 178 | 160 | 113 | 152 | 133 | 98,7 | 130 | 113 | 86,1 | 115 | 101 | | 106 | 91,7 | | 98 | 84,7 | | 92,5 | | | | | | | | | 20 |
| 22 | 160 | 154 | 110 | 145 | 128 | 95,7 | 124 | 108 | 78,9 | 109 | 96,9 | 71,2 | 101 | 87,6 | | 93,1 | 80,7 | | 87,5 | 75,9 | | 72 | | | | | | 22 |
| 24 | 144 | 146 | 107 | 138 | 123 | 92,6 | 119 | 104 | 76,4 | 104 | 92,9 | 68,9 | 95,9 | 84,2 | 63,7 | 88,4 | 77,4 | 59,6 | 83,1 | 72,5 | | 68,6 | | 65,8 | | 63,6 | | 24 |
| 26 | 131 | 132 | 104 | 131 | 118 | 89,9 | 114 | 100 | 74,2 | 99,7 | 89,5 | 66,7 | 91,7 | 80,5 | 61,6 | 84,6 | 74 | 57,6 | 79,2 | 69,3 | 54,7 | 65,5 | | 62,8 | | 60,4 | | 26 |
| 28 | 119 | 121 | 101 | 120 | 114 | 87,4 | 109 | 96,6 | 72 | 95,6 | 86,2 | 64,8 | 87,8 | 77,6 | 59,6 | 80,7 | 71,2 | 55,6 | 75,5 | 66,6 | 52,7 | 62,9 | 50 | 59,9 | 47,2 | 57,7 | | 28 |
| 30 | 109 | 111 | 99,1 | 110 | 109 | 82,1 | 105 | 93,2 | 70 | 91,9 | 83,1 | 63 | 84,1 | 74,9 | 57,8 | 77,3 | 68,5 | 53,9 | 72,2 | 63,9 | 51,1 | 60,1 | 48,2 | 57,3 | 45,6 | 55,1 | 43,4 | 30 |
| 32 | 101 | 101 | 96,4 | 101 | 102 | 77,8 | 100 | 90,3 | 68,1 | 88,2 | 80,2 | 61,1 | 80,8 | 72,1 | 56,1 | 74 | 65,9 | 52,1 | 69,1 | 61,5 | 49,4 | 57,8 | 46,7 | 54,9 | 44 | 52,7 | 41,9 | 32 |
| 34 | 91,5 | 92,7 | 91,6 | 93 | 94,3 | 75,9 | 94,3 | 87,6 | 66,4 | 84,9 | 77,7 | 59,5 | 77,7 | 69,6 | 54,5 | 71,3 | 63,6 | 50,7 | 66,3 | 59,2 | 47,9 | 55,6 | 45,2 | 52,9 | 42,5 | 50,5 | 40,3 | 34 |
| 36 | 83,5 | 84,5 | 86 | 85,1 | 86,5 | 74,2 | 86,6 | 83,7 | 64,7 | 81,7 | 75,3 | 58 | 74,7 | 67,4 | 52,9 | 68,5 | 61,6 | 49,2 | 63,9 | 57,1 | 46,5 | 53,4 | 43,7 | 50,7 | 41,2 | 48,4 | 39 | 36 |
| 38 | 76,5 | 77,1 | 79,5 | 77,8 | 79,2 | 72,4 | 79,3 | 79,1 | 63,2 | 78 | 73 | 56,5 | 72,2 | 65,3 | 51,5 | 66 | 59,4 | 47,8 | 61,3 | 55,1 | 45 | 51,5 | 42,3 | 48,8 | 39,8 | 46,4 | 37,6 | 38 |
| 40 | 70,5 | 71 | 72,9 | 71,5 | 72,7 | 70,7 | 73 | 74,1 | 61,7 | 73,8 | 70,4 | 55,1 | 69,6 | 63,3 | 50,2 | 63,6 | 57,5 | 46,5 | 59 | 53,2 | 43,8 | 49,8 | 41,1 | 47 | 38,6 | 44,6 | 36,5 | 40 |
| 44 | 59,6 | 60,3 | 62,2 | 60,8 | 62,1 | 63,9 | 62,5 | 63,3 | 58,9 | 63 | 64 | 52,4 | 63,5 | 59,6 | 47,8 | 59,3 | 54,1 | 44,1 | 54,8 | 49,9 | 41,4 | 46,6 | 38,8 | 43,7 | 36,3 | 41,5 | 34,2 | 44 |
| 48 | 51,3 | 51,8 | 53,1 | 52,2 | 53,2 | 54,9 | 53,6 | 54,3 | 55,4 | 54,1 | 55,7 | 50,2 | 55,7 | 55,2 | 45,6 | 54,5 | 50,9 | 41,9 | 51,2 | 46,9 | 39,3 | 43,6 | 36,9 | 40,9 | 34,3 | 38,7 | 32,3 | 48 |
| 52 | 44,3 | 44,6 | 45,9 | 45,1 | 46 | 47,4 | 46,4 | 46,9 | 48,7 | 46,9 | 48,1 | 47,7 | 48,2 | 49 | 43,7 | 48,5 | 47,8 | 40,1 | 47,8 | 44,2 | 37,4 | 41 | 35,1 | 38,3 | 32,5 | 36,1 | 30,5 | 52 |
| 56 | 38,2 | 38,4 | 39,5 | 38,9 | 39,8 | 41,1 | 40,3 | 40,8 | 42,3 | 40,8 | 41,9 | 43 | 42 | 42,7 | 41,9 | 42,3 | 43 | 38,3 | 42,9 | 41,9 | 35,8 | 38,7 | 33,4 | 36,1 | 30,9 | 33,8 | 28,8 | 56 |
| 60 | 33 | 33,2 | 34 | 33,7 | 34,5 | 35,6 | 35 | 35,4 | 36,6 | 35,5 | 36,7 | 37,6 | 36,8 | 37,3 | 38,2 | 37 | 37,7 | 36,8 | 37,7 | 38,4 | 34,2 | 36,4 | 31,9 | 34,1 | 29,6 | 31,8 | 27,4 | 60 |
| 64 | 28,4 | 28,7 | 29,5 | 29,2 | 29,8 | 30,8 | 30,4 | 30,8 | 31,9 | 30,9 | 32 | 32,7 | 32,1 | 32,6 | 33,6 | 32,4 | 33,1 | 34,2 | 33,2 | 33,8 | 32,7 | 33,7 | 30,5 | 32,2 | 28,2 | 30 | 26,1 | 64 |
| 68 | 24,5 | 24,7 | 25,3 | 25,2 | 25,8 | 26,6 | 26,4 | 26,7 | 27,6 | 26,9 | 27,8 | 28,3 | 28 | 28,4 | 29,3 | 28,4 | 28,9 | 29,9 | 29,1 | 29,7 | 30,1 | 29,9 | 29 | 29,8 | 27 | 28,4 | 24,9 | 68 |
| 72 | | | | 21,8 | 22,1 | 22,7 | 22,9 | 23,1 | 23,8 | 23,3 | 24,1 | 24,6 | 24,4 | 24,8 | 25,4 | 24,7 | 25,2 | 26,1 | 25,6 | 26,1 | 27 | 26,2 | 26,8 | 26,5 | 25,7 | 25,9 | 23,9 | 72 |
| 76 | | | | | | | | 19,8 | 20,4 | 20,2 | 20,8 | 21,2 | 21,2 | 21,5 | 22 | 21,6 | 21,9 | 22,6 | 22,4 | 22,8 | 23,7 | 23,1 | 24,1 | 23,4 | 24,2 | 23,4 | 22,9 | 76 |
| 80 | | | | | | | | | | | | | 18,3 | 18,5 | 18,9 | 18,8 | 19 | 19,5 | 19,4 | 19,9 | 20,6 | 20,1 | 21 | 20,5 | 21,5 | 20,6 | 21,4 | 80 |
| 84 | | | | | | | | | | | | | | | | 16,2 | 16,4 | 16,8 | 16,9 | 17,2 | 17,8 | 17,4 | 18,1 | 17,7 | 18,4 | 17,7 | 18,5 | 84 |
| 88 | | | | | | | | | | | | | | | | | | | | | 15,2 | 15,1 | 15,6 | 15,5 | 16,2 | 15,6 | 16,5 | 88 |
| 92 | | | | | | | | | | | | | | | | | | | | | | | | 13,3 | 13,9 | 13,4 | 14,2 | 92 |
| 96 | | | | | | | | | | | | | | | | | | | | | | | | | | | 12,1 | 96 |

**SL 72 m**

| m | F 12 m | | | F 15 m | | | F 18 m | | | F 21 m | | | F 24 m | | | F 27 m | | | F 30 m | | | F 33 m | | F 36 m | | F 39 m | | m |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 18° | 30° | 18° | 30° | 18° | 30° | |
| 14 | 185 | | | | | | | | | | | | | | | | | | | | | | | | | | | 14 |
| 16 | 185 | 176 | | 170 | | | 145 | | | | | | | | | | | | | | | | | | | | | 16 |
| 18 | 185 | 169 | 117 | 161 | 140 | | 138 | 119 | | 122 | | | 112 | | | | | | | | | | | | | | | 18 |
| 20 | 173 | 162 | 113 | 154 | 134 | 99,3 | 132 | 114 | | 116 | 102 | | 107 | 91,9 | | 98,8 | | | 93,1 | | | | | | | | | 20 |
| 22 | 155 | 155 | 111 | 147 | 129 | 96,3 | 126 | 109 | 79,1 | 111 | 97,7 | 71,4 | 102 | 88,1 | | 94 | 81,2 | | 88,4 | 76,2 | | | | | | | | 22 |
| 24 | 140 | 141 | 108 | 139 | 124 | 93,5 | 121 | 105 | 76,9 | 106 | 93,9 | 69,3 | 97,1 | 84,9 | 63,9 | 89,7 | 77,9 | | 84,3 | 73 | | 69,2 | | 66,1 | | 63,8 | | 24 |
| 26 | 127 | 128 | 105 | 127 | 120 | 91 | 116 | 101 | 74,9 | 101 | 90,7 | 67,3 | 93,1 | 81,6 | 61,9 | 85,7 | 74,8 | 57,8 | 80,3 | 70,1 | | 66,1 | | 63,3 | | 60,9 | | 26 |
| 28 | 115 | 116 | 103 | 116 | 116 | 88,6 | 111 | 98,3 | 72,8 | 97,4 | 87,4 | 65,5 | 89,3 | 78,5 | 60,2 | 82,1 | 72,1 | 55,9 | 76,8 | 67,4 | 53,1 | 63,4 | 50,1 | 60,6 | | 58,1 | | 28 |
| 30 | 105 | 107 | 100 | 106 | 108 | 85,4 | 106 | 95,1 | 71 | 93,8 | 84,5 | 63,7 | 85,8 | 76 | 58,3 | 78,8 | 69,4 | 54,3 | 73,6 | 64,8 | 51,4 | 60,9 | 48,4 | 57,9 | 45,8 | 55,6 | 43,5 | 30 |
| 32 | 96,9 | 97,9 | 96,9 | 97,2 | 99,3 | 79,5 | 98,5 | 92,1 | 69 | 90,2 | 81,9 | 61,9 | 82,6 | 73,3 | 56,8 | 75,6 | 66,9 | 52,8 | 70,5 | 62,4 | 49,8 | 58,5 | 47 | 55,7 | 44,2 | 53,4 | 42 | 32 |
| 34 | 89,1 | 90,2 | 92,8 | 89,6 | 91,6 | 77,5 | 90,9 | 88,7 | 67,3 | 87 | 79,3 | 60,3 | 79,6 | 70,8 | 55,1 | 72,8 | 64,8 | 51,3 | 67,8 | 60,1 | 48,4 | 56,5 | 45,5 | 53,6 | 42,9 | 51,1 | 40,7 | 34 |
| 36 | 82 | 83 | 85,2 | 82,7 | 84,6 | 75,5 | 84,1 | 85 | 65,8 | 83,7 | 76,9 | 58,9 | 76,8 | 68,7 | 53,8 | 70 | 62,4 | 49,8 | 65,2 | 58 | 47 | 54,4 | 44,1 | 51,5 | 41,5 | 49,2 | 39,4 | 36 |
| 38 | 75,1 | 75,9 | 78,2 | 76 | 77,9 | 73,8 | 77,9 | 78,9 | 64,3 | 78 | 74,4 | 57,5 | 73,9 | 66,5 | 52,4 | 67,5 | 60,6 | 48,5 | 62,9 | 56,1 | 45,7 | 52,5 | 42,8 | 49,6 | 40,2 | 47,3 | 38 | 38 |
| 40 | 68,6 | 69,2 | 71,6 | 69,7 | 71,3 | 71,4 | 71,5 | 72,8 | 62,9 | 72,4 | 71 | 56,1 | 70,5 | 64,5 | 51,1 | 65,2 | 58,7 | 47,2 | 60,6 | 54,3 | 44,5 | 50,7 | 41,7 | 48 | 38,9 | 45,5 | 36,8 | 40 |
| 44 | 58 | 58,7 | 60,5 | 59 | 60,5 | 62,4 | 60,7 | 61,6 | 59,7 | 61,5 | 63,1 | 53,6 | 62,9 | 60,4 | 48,7 | 60,5 | 55,2 | 44,7 | 56,5 | 51 | 42,1 | 47,4 | 39,4 | 44,7 | 36,8 | 42,3 | 34,6 | 44 |
| 48 | 49,4 | 49,8 | 51,7 | 50,3 | 51,6 | 53,6 | 52,1 | 52,7 | 54,7 | 52,7 | 54,2 | 51,3 | 54 | 54,5 | 46,5 | 54,1 | 52,1 | 42,7 | 52,6 | 48 | 40,1 | 44,7 | 37,4 | 41,9 | 34,9 | 39,5 | 32,7 | 48 |
| 52 | 42,4 | 42,9 | 44,2 | 43,1 | 44,2 | 46 | 44,6 | 45,2 | 47,2 | 45,3 | 46,6 | 47,3 | 46,6 | 47,5 | 44,7 | 47,1 | 47,7 | 40,9 | 47,5 | 45,3 | 38,1 | 42,2 | 35,7 | 39,4 | 33,1 | 37 | 30,9 | 52 |
| 56 | 36,3 | 36,8 | 38 | 37,1 | 38,2 | 39,6 | 38,6 | 39,2 | 40,8 | 39 | 40,5 | 41,6 | 40,4 | 41,2 | 42,2 | 40,7 | 41,6 | 39,2 | 41,4 | 41,7 | 36,6 | 39,9 | 34,1 | 37,1 | 31,5 | 34,9 | 29,3 | 56 |
| 60 | 31,1 | 31,5 | 32,5 | 31,8 | 32,9 | 34,1 | 33,3 | 33,9 | 35,3 | 33,9 | 35 | 36,2 | 35,1 | 35,8 | 37,1 | 35,4 | 36,1 | 36,7 | 36,1 | 36,9 | 35 | 36,8 | 32,6 | 34,9 | 30 | 32,8 | 27,8 | 60 |
| 64 | 26,6 | 26,9 | 27,8 | 27,3 | 28,3 | 29,3 | 28,7 | 29,1 | 30,4 | 29,3 | 30,4 | 31,4 | 30,6 | 31,1 | 32,2 | 30,8 | 31,4 | 32,7 | 31,4 | 32,2 | 33,3 | 32,4 | 31,2 | 32,4 | 28,7 | 31 | 26,6 | 64 |
| 68 | 22,7 | 22,9 | 23,8 | 23,4 | 24,1 | 25,1 | 24,6 | 25 | 26,2 | 25,3 | 26,2 | 27,1 | 26,4 | 26,9 | 28 | 26,8 | 27,4 | 28,5 | 27,5 | 28,2 | 29,4 | 28,3 | 29,1 | 28,6 | 27,5 | 28,4 | 25,5 | 68 |
| 72 | 19,4 | 19,5 | 20,1 | 19,9 | 20,5 | 21,4 | 21,2 | 21,4 | 22,4 | 21,6 | 22,4 | 23,2 | 22,8 | 23,3 | 24,2 | 23,2 | 23,7 | 24,7 | 23,9 | 24,5 | 25,7 | 24,8 | 26 | 25 | 26 | 25 | 24,4 | 72 |
| 76 | | | | 16,8 | 17,4 | 18,1 | 18 | 18,2 | 19,1 | 18,4 | 19,2 | 19,8 | 19,6 | 20 | 20,7 | 19,9 | 20,3 | 21,3 | 20,6 | 21,2 | 22,2 | 21,4 | 22,7 | 21,8 | 23,2 | 21,9 | 22,9 | 76 |
| 80 | | | | | | | 15,2 | 15,3 | 16 | 15,7 | 16,3 | 16,7 | 16,6 | 16,9 | 17,5 | 17,1 | 17,5 | 18,1 | 17,8 | 18,3 | 19 | 18,5 | 19,4 | 18,7 | 20,1 | 18,5 | 20,1 | 80 |
| 84 | | | | | | | | | | | 13,7 | 13,9 | 14,1 | 14,3 | 14,7 | 14,5 | 14,8 | 15,4 | 15,2 | 15,6 | 16,3 | 15,9 | 16,7 | 16,2 | 17,1 | 16,3 | 17,3 | 84 |
| 88 | | | | | | | | | | | | | | | | 12,2 | 12,4 | 12,8 | 12,9 | 13,2 | 13,8 | 13,5 | 14,3 | 13,8 | 14,7 | 14 | 15,1 | 88 |
| 92 | | | | | | | | | | | | | | | | | | | | 11,1 | 11,4 | 11,3 | 12 | 11,6 | 12,4 | 11,8 | 12,8 | 92 |
| 96 | | | | | | | | | | | | | | | | | | | | | | | 9,8 | 9,6 | 10,3 | 9,8 | 10,6 | 96 |
| 100 | | | | | | | | | | | | | | | | | | | | | | | | | | 8 | 8,6 | 100 |

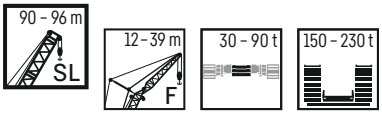



**SL 78 m**

| m | F 12 m | | | F 15 m | | | F 18 m | | | F 21 m | | | F 24 m | | | F 27 m | | | F 30 m | | | F 33 m | | F 36 m | | F 39 m | | m |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 18° | 30° | 18° | 30° | 18° | 30° | |
| 16 | 185 | 177 | | 170 | | | | | | | | | | | | | | | | | | | | | | | | 16 |
| 18 | 181 | 170 | 119 | 162 | 140 | | 138 | | | 122 | | | | | | | | | | | | | | | | | | 18 |
| 20 | 168 | 164 | 116 | 155 | 135 | 99,3 | 132 | 116 | | 116 | 102 | | 107 | | | 98,8 | | | | | | | | | | | | 20 |
| 22 | 152 | 153 | 113 | 149 | 130 | 96,8 | 127 | 112 | 79,5 | 111 | 98 | | 102 | 88,3 | | 94,3 | 81,2 | | 88,7 | | | | | | | | | 22 |
| 24 | 137 | 138 | 110 | 137 | 126 | 94,2 | 122 | 108 | 77,3 | 106 | 94,6 | 69,5 | 98 | 85,1 | 63,8 | 90,2 | 78,1 | | 84,6 | 73,3 | | 69,1 | | 66,1 | | 63,9 | | 24 |
| 26 | 124 | 126 | 108 | 124 | 121 | 91,8 | 117 | 104 | 75,2 | 103 | 91,2 | 67,6 | 93,9 | 82 | 62,1 | 86,4 | 75,2 | 57,9 | 81 | 70,2 | | 66,4 | | 63,3 | | 61,1 | | 26 |
| 28 | 113 | 115 | 105 | 114 | 115 | 89,2 | 113 | 101 | 73,5 | 98,7 | 88,3 | 65,9 | 90,3 | 79,4 | 60,3 | 82,9 | 72,4 | 56,1 | 77,6 | 67,7 | 53,2 | 63,7 | 50 | 60,7 | | 58,5 | | 28 |
| 30 | 104 | 105 | 103 | 104 | 106 | 86,8 | 105 | 98 | 71,4 | 94,8 | 85,4 | 64,1 | 86,9 | 76,6 | 58,6 | 79,6 | 70 | 54,6 | 74,5 | 65,2 | 51,6 | 61,3 | 48,4 | 58,3 | 45,9 | 56,2 | 43,5 | 30 |
| 32 | 95,4 | 96,5 | 99,8 | 95,7 | 97,9 | 80,8 | 97 | 95 | 69,8 | 91,6 | 82,8 | 62,5 | 83,7 | 74 | 57,2 | 76,5 | 67,7 | 52,9 | 71,5 | 62,9 | 50,1 | 59,1 | 47,1 | 56,2 | 44,3 | 53,9 | 42,1 | 32 |
| 34 | 88 | 88,9 | 92,7 | 88,3 | 90,3 | 78,2 | 89,6 | 91,1 | 68 | 88,1 | 80,2 | 61 | 80,7 | 71,7 | 55,7 | 74 | 65,4 | 51,5 | 68,8 | 60,7 | 48,8 | 57 | 45,6 | 54,1 | 43,1 | 51,7 | 40,8 | 34 |
| 36 | 81,2 | 82,2 | 85,7 | 81,6 | 83,5 | 76,5 | 82,9 | 85 | 66,5 | 82,9 | 77,8 | 59,6 | 78,2 | 69,7 | 54,4 | 71,3 | 63,3 | 50,3 | 66,2 | 58,7 | 47,4 | 55,2 | 44,3 | 52,1 | 41,7 | 49,7 | 39,4 | 36 |
| 38 | 74,9 | 75,9 | 79,1 | 75,6 | 77,5 | 75,1 | 76,9 | 78,9 | 65,1 | 76,9 | 75,7 | 58,2 | 75,6 | 67,8 | 53,1 | 68,7 | 61,4 | 49,1 | 63,8 | 57 | 46,1 | 53,2 | 43,2 | 50,3 | 40,4 | 47,9 | 38,3 | 38 |
| 40 | 68,8 | 69,7 | 72,7 | 69,8 | 71,7 | 71,5 | 71,5 | 73,3 | 63,8 | 71,6 | 73,2 | 56,9 | 72,5 | 65,7 | 51,7 | 66,5 | 59,6 | 47,9 | 61,6 | 55,1 | 44,9 | 51,4 | 42 | 48,5 | 39,4 | 46,3 | 37,1 | 40 |
| 44 | 58,3 | 59 | 61,6 | 59,1 | 60,8 | 63,1 | 61 | 62,4 | 60,8 | 61,5 | 63,4 | 54,4 | 63,1 | 61 | 49,4 | 61 | 56,3 | 45,5 | 57,6 | 52 | 42,7 | 48,4 | 39,8 | 45,6 | 37,2 | 43,1 | 35 | 44 |
| 48 | 49,7 | 50,2 | 52,8 | 50,7 | 52 | 54,1 | 52,3 | 53,6 | 54,8 | 52,6 | 54,3 | 51,9 | 54,2 | 55 | 47,3 | 54,4 | 52,8 | 43,5 | 53,6 | 49,1 | 40,7 | 45,5 | 37,9 | 42,8 | 35,3 | 40,3 | 33 | 48 |
| 52 | 42,5 | 43 | 45,2 | 43,2 | 44,6 | 46,4 | 44,8 | 46,3 | 47,6 | 45,4 | 46,9 | 48 | 46,7 | 47,7 | 45,4 | 47,1 | 47,6 | 41,7 | 47,5 | 46,1 | 38,9 | 42,9 | 36,2 | 40,3 | 33,7 | 37,9 | 31,4 | 52 |
| 56 | 36,7 | 37 | 39 | 37,3 | 38,4 | 39,9 | 38,7 | 39,9 | 41,1 | 39,1 | 40,6 | 42 | 40,5 | 41,3 | 42,1 | 40,8 | 41,7 | 39,9 | 41,5 | 42,2 | 37,2 | 40,6 | 34,6 | 38 | 32,1 | 35,7 | 29,8 | 56 |
| 60 | 31,5 | 31,9 | 33,7 | 32,3 | 33,2 | 34,5 | 33,5 | 34,6 | 35,5 | 33,9 | 35,3 | 36,4 | 35,3 | 35,9 | 37,3 | 35,4 | 36,2 | 37,1 | 36,1 | 37 | 35,7 | 36,8 | 33,2 | 35,6 | 30,6 | 33,7 | 28,3 | 60 |
| 64 | 27,1 | 27,4 | 28,9 | 27,7 | 28,6 | 29,8 | 29,1 | 30 | 30,9 | 29,5 | 30,6 | 31,6 | 30,6 | 31,3 | 32,4 | 30,8 | 31,6 | 32,9 | 31,5 | 32,2 | 33,5 | 32,4 | 31,8 | 32,6 | 29,2 | 31,7 | 27,1 | 64 |
| 68 | 23,1 | 23,3 | 24,7 | 23,7 | 24,6 | 25,6 | 25 | 25,8 | 26,6 | 25,4 | 26,5 | 27,5 | 26,7 | 27,2 | 28,1 | 26,9 | 27,5 | 28,7 | 27,5 | 28,1 | 29,5 | 28,4 | 29,5 | 28,5 | 28 | 28,5 | 25,9 | 68 |
| 72 | 19,7 | 19,9 | 21,2 | 20,2 | 20,9 | 21,9 | 21,4 | 22,2 | 22,9 | 21,9 | 22,9 | 23,6 | 23 | 23,5 | 24,4 | 23,3 | 23,9 | 25 | 24 | 24,5 | 25,7 | 24,8 | 26,1 | 24,9 | 26,2 | 25 | 24,9 | 72 |
| 76 | 16,7 | 16,8 | 17,9 | 17,2 | 17,8 | 18,6 | 18,3 | 19,1 | 19,6 | 18,8 | 19,5 | 20,2 | 19,9 | 20,3 | 21,1 | 20,1 | 20,6 | 21,5 | 20,7 | 21,3 | 22,4 | 21,6 | 22,8 | 21,8 | 23,1 | 21,8 | 23 | 76 |
| 80 | 14 | 14,1 | 15 | 14,5 | 15 | 15,7 | 15,6 | 16,2 | 16,6 | 15,9 | 16,7 | 17,2 | 17 | 17,3 | 18 | 17,2 | 17,6 | 18,3 | 17,8 | 18,3 | 19,3 | 18,3 | 19,7 | 18,8 | 20,1 | 18,7 | 20 | 80 |
| 84 | | | | | | | 13 | 13,6 | 13,9 | 13,4 | 14,1 | 14,5 | 14,3 | 14,6 | 15,2 | 14,6 | 15 | 15,7 | 15,3 | 15,7 | 16,5 | 16 | 16,9 | 16,2 | 17,1 | 16,2 | 17,2 | 84 |
| 88 | | | | | | | | | | 11,2 | 11,8 | 12 | 12,1 | 12,3 | 12,7 | 12,3 | 12,6 | 13,2 | 12,9 | 13,3 | 14,1 | 13,6 | 14,5 | 13,9 | 14,9 | 13,9 | 15,1 | 88 |
| 92 | | | | | | | | | | | | | | 10,2 | 10,5 | 10,2 | 10,5 | 11 | 10,9 | 11,2 | 11,7 | 11,3 | 12,1 | 11,7 | 12,6 | 11,8 | 12,8 | 92 |
| 96 | | | | | | | | | | | | | | | | | | | 8,9 | 9,2 | 9,6 | 9,4 | 10 | 9,7 | 10,5 | 9,8 | 10,7 | 96 |
| 100 | | | | | | | | | | | | | | | | | | | | | | 7,6 | 8,1 | 7,9 | 8,6 | 8,1 | 8,8 | 100 |
| 104 | | | | | | | | | | | | | | | | | | | | | | | | | 6,8 | 6,4 | 7,1 | 104 |

**SL 84 m**

| m | F 12 m | | | F 15 m | | | F 18 m | | | F 21 m | | | F 24 m | | | F 27 m | | | F 30 m | | | F 33 m | | F 36 m | | F 39 m | | m |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 18° | 30° | 18° | 30° | 18° | 30° | |
| 16 | 184 | 177 | | | | | | | | | | | | | | | | | | | | | | | | | | 16 |
| 18 | 172 | 170 | 119 | 162 | 140 | | 139 | | | | | | | | | | | | | | | | | | | | | 18 |
| 20 | 159 | 158 | 117 | 155 | 135 | 99,5 | 133 | 117 | | 117 | 102 | | 107 | | | | | | | | | | | | | | | 20 |
| 22 | 146 | 146 | 114 | 144 | 131 | 97,1 | 128 | 112 | 80,9 | 112 | 98,6 | | 103 | 88,6 | | 94,9 | | | 89 | | | | | | | | | 22 |
| 24 | 132 | 134 | 111 | 132 | 127 | 94,7 | 123 | 109 | 77,7 | 108 | 95,1 | 69,7 | 98,7 | 85,5 | | 90,8 | 78,5 | | 85,2 | 73,4 | | 69,4 | | | | | | 24 |
| 26 | 120 | 121 | 109 | 120 | 122 | 92 | 119 | 105 | 75,8 | 104 | 92 | 67,9 | 94,8 | 82,9 | 62,2 | 87,2 | 75,7 | 57,9 | 81,6 | 70,7 | | 66,8 | | 63,6 | | 61,1 | | 26 |
| 28 | 109 | 111 | 106 | 110 | 112 | 89,9 | 111 | 102 | 74 | 100 | 89,1 | 66,1 | 91,5 | 80 | 60,6 | 83,9 | 73 | 56,4 | 78,3 | 68,1 | 53,4 | 64,2 | | 61,1 | | 58,7 | | 28 |
| 30 | 100 | 101 | 104 | 100 | 103 | 87,7 | 102 | 99 | 72,1 | 96,4 | 86,4 | 64,5 | 88,1 | 77,4 | 59 | 80,8 | 70,7 | 54,8 | 75,4 | 65,8 | 51,8 | 62 | 48,5 | 58,8 | 45,9 | 56,5 | | 30 |
| 32 | 91,8 | 92,9 | 97,1 | 92,1 | 94,4 | 85,6 | 93,5 | 95,1 | 70,5 | 92,4 | 83,8 | 63 | 85,1 | 75 | 57,5 | 77,9 | 68,3 | 53,5 | 72,6 | 63,5 | 50,5 | 59,7 | 47,1 | 56,7 | 44,3 | 54,3 | 42,2 | 32 |
| 34 | 84,5 | 85,4 | 89,5 | 84,8 | 87 | 79,6 | 86,3 | 88,6 | 68,8 | 86,2 | 81,4 | 61,5 | 82,3 | 72,9 | 56,2 | 75,1 | 66,4 | 52 | 69,9 | 61,4 | 49 | 57,6 | 45,8 | 54,6 | 43,1 | 52,2 | 40,8 | 34 |
| 36 | 77,9 | 78,8 | 82,6 | 78,3 | 80,4 | 77,4 | 79,7 | 82 | 67,2 | 79,7 | 79,1 | 60 | 79,6 | 70,6 | 54,8 | 72,6 | 64,3 | 50,7 | 67,5 | 59,6 | 47,8 | 55,7 | 44,5 | 52,7 | 41,9 | 50,3 | 39,6 | 36 |
| 38 | 71,9 | 72,8 | 76,5 | 72,4 | 74,3 | 74,7 | 73,8 | 76 | 65,9 | 73,9 | 76,1 | 58,7 | 75 | 68,8 | 53,5 | 70,2 | 62,4 | 49,4 | 65,1 | 57,8 | 46,6 | 54 | 43,4 | 50,9 | 40,7 | 48,5 | 38,4 | 38 |
| 40 | 66,7 | 67,4 | 70,9 | 67 | 69 | 71,7 | 68,5 | 70,6 | 64,5 | 68,5 | 70,8 | 57,4 | 69,7 | 66,7 | 52,3 | 67,7 | 60,6 | 48,3 | 62,9 | 56,1 | 45,4 | 52,3 | 42,2 | 49,4 | 39,6 | 46,9 | 37,3 | 40 |
| 44 | 56,3 | 57,3 | 60,1 | 57,5 | 59 | 61,6 | 59,1 | 61 | 60,4 | 59,3 | 61,4 | 55,1 | 60,5 | 61,7 | 50,2 | 60,3 | 57,3 | 46,1 | 58,9 | 52,8 | 43,2 | 49,2 | 40,1 | 46,4 | 37,5 | 43,8 | 35,3 | 44 |
| 48 | 47,9 | 48,5 | 51,2 | 48,8 | 50,2 | 52,5 | 50,3 | 52,2 | 53,6 | 51,1 | 52,8 | 52,2 | 52,4 | 53,7 | 48 | 52,6 | 52,5 | 44 | 52,7 | 49,9 | 41,3 | 46,4 | 38,4 | 43,5 | 35,6 | 41,2 | 33,4 | 48 |
| 52 | 40,7 | 41,2 | 43,6 | 41,5 | 42,9 | 45 | 43,2 | 44,7 | 46,2 | 43,7 | 45,4 | 47,1 | 45,1 | 46,2 | 45,5 | 45,6 | 46,6 | 42,2 | 46,2 | 46,5 | 39,5 | 43,7 | 36,6 | 41 | 33,9 | 38,8 | 31,8 | 52 |
| 56 | 34,6 | 35,1 | 37,3 | 35,5 | 36,6 | 38,5 | 36,9 | 38,3 | 39,8 | 37,5 | 39,1 | 40,6 | 39 | 39,8 | 41,1 | 39,3 | 40,2 | 39,9 | 40 | 41 | 37,8 | 40,1 | 35,1 | 38,4 | 32,4 | 36,6 | 30,3 | 56 |
| 60 | 29,6 | 29,9 | 31,9 | 30,3 | 31,4 | 32,9 | 31,7 | 33 | 34,1 | 32,1 | 33,5 | 34,9 | 33,6 | 34,3 | 35,8 | 33,7 | 34,7 | 36,3 | 34,5 | 35,5 | 36,3 | 35,5 | 33,7 | 35,2 | 31 | 34,6 | 28,8 | 60 |
| 64 | 25 | 25,4 | 27,3 | 25,9 | 27 | 28,2 | 27,3 | 28,3 | 29,3 | 27,7 | 28,9 | 30 | 29 | 29,6 | 30,9 | 29,1 | 29,9 | 31,5 | 29,8 | 30,7 | 32,4 | 30,9 | 31,6 | 31 | 29,7 | 30,8 | 27,5 | 64 |
| 68 | 21,2 | 21,5 | 23,1 | 21,8 | 22,8 | 24,1 | 23,3 | 24,3 | 25,2 | 23,8 | 24,9 | 25,8 | 24,9 | 25,5 | 26,7 | 25,2 | 25,8 | 27,2 | 25,8 | 26,5 | 28,1 | 26,7 | 28,3 | 27 | 27,9 | 27 | 26,4 | 68 |
| 72 | 17,8 | 18 | 19,5 | 18,3 | 19,3 | 20,5 | 19,7 | 20,6 | 21,4 | 20,1 | 21,1 | 22,2 | 21,4 | 21,9 | 22,9 | 21,7 | 22,2 | 23,4 | 22,2 | 22,9 | 24,3 | 23 | 24,6 | 23,4 | 25,2 | 23,4 | 25,1 | 72 |
| 76 | 14,8 | 15 | 16,3 | 15,3 | 16,1 | 17,1 | 16,4 | 17,4 | 18,1 | 17 | 17,9 | 18,7 | 18,1 | 18,6 | 19,5 | 18,3 | 18,9 | 20,1 | 19 | 19,7 | 20,8 | 19,7 | 21,2 | 20,1 | 21,8 | 20 | 21,9 | 76 |
| 80 | 12,1 | 12,3 | 13,4 | 12,6 | 13,3 | 14,2 | 13,8 | 14,5 | 15 | 14,1 | 15 | 15,7 | 15,2 | 15,6 | 16,5 | 15,5 | 16 | 16,9 | 16,1 | 16,7 | 17,7 | 16,9 | 18 | 17 | 18,1 | 17 | 18,7 | 80 |
| 84 | 9,7 | 9,8 | 10,8 | 10,2 | 10,8 | 11,5 | 11,3 | 11,9 | 12,4 | 11,6 | 12,5 | 13 | 12,6 | 13 | 13,7 | 12,9 | 13,3 | 14,2 | 13,6 | 14,1 | 15 | 14,3 | 15,4 | 14,6 | 15,8 | 14,6 | 15,9 | 84 |
| 88 | | | | 8 | 8,5 | 9,1 | 9 | 9,6 | 9,9 | 9,3 | 10,1 | 10,5 | 10,3 | 10,6 | 11,3 | 10,6 | 10,9 | 11,6 | 11,2 | 11,6 | 12,5 | 11,9 | 12,9 | 12,2 | 13,3 | 12,2 | 13,5 | 88 |
| 92 | | | | | | | | | | 7,2 | 7,9 | 8,2 | 8,2 | 8,5 | 9 | 8,4 | 8,7 | 9,4 | 9,1 | 9,5 | 10,2 | 9,7 | 10,6 | 10 | 11,1 | 10,1 | 11,3 | 92 |
| 96 | | | | | | | | | | | | | 6,3 | 6,5 | 6,8 | 6,6 | 6,8 | 7,3 | 7,2 | 7,5 | 8,1 | 7,8 | 8,5 | 8,1 | 8,9 | 8,2 | 9,2 | 96 |
| 100 | | | | | | | | | | | | | | | | | | 5,4 | 5,5 | 5,7 | 6,2 | 6 | 6,6 | 6,3 | 7,1 | 6,4 | 7,3 | 100 |
| 104 | | | | | | | | | | | | | | | | | | | | | | | | | 5,3 | | 5,5 | 104 |

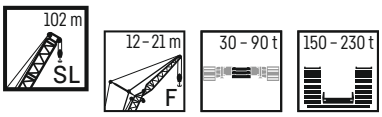



**SL 90 m**

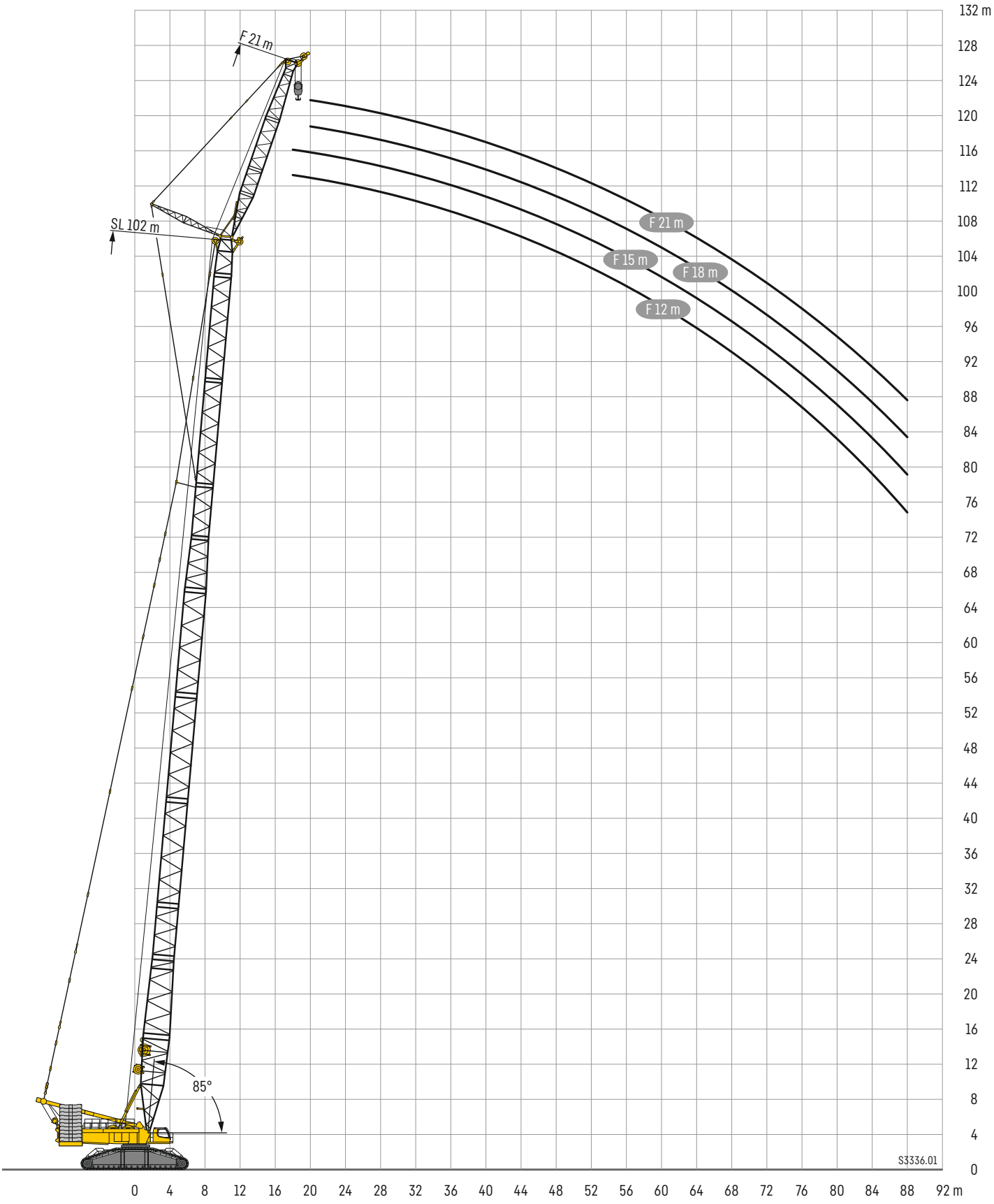
| m | F 12 m | | | F 15 m | | | F 18 m | | | F 21 m | | | F 24 m | | | F 27 m | | | F 30 m | | | F 33 m | | F 36 m | | F 39 m | | m |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 18° | 30° | 18° | 30° | 18° | 30° | |
| 16 | 148 | | | | | | | | | | | | | | | | | | | | | | | | | | | 16 |
| 18 | 144 | 135 | | 128 | 119 | | 116 | | | | | | | | | | | | | | | | | | | | | 18 |
| 20 | 141 | 132 | 113 | 125 | 117 | | 113 | 105 | | 104 | | | 96,2 | | | | | | | | | | | | | | | 20 |
| 22 | 138 | 129 | 110 | 122 | 114 | 95,5 | 110 | 103 | | 101 | 93,6 | | 93,8 | 84,9 | | 87,7 | | | 83 | | | | | | | | | 22 |
| 24 | 130 | 126 | 108 | 119 | 112 | 93,3 | 108 | 100 | 77,1 | 98,4 | 91,4 | 69,1 | 91,5 | 82,1 | | 85,4 | 75,1 | | 80,6 | | | | | | | | | 24 |
| 26 | 119 | 120 | 106 | 116 | 109 | 91,5 | 105 | 98 | 75,2 | 96 | 88,8 | 67,4 | 89,1 | 79,6 | 61,6 | 83 | 72,5 | | 78 | 67,6 | | 63,7 | | 60,6 | | 58,2 | | 26 |
| 28 | 108 | 110 | 103 | 108 | 107 | 89,3 | 102 | 95,8 | 73,6 | 93,6 | 85,9 | 65,6 | 86,6 | 77,1 | 60,1 | 80,5 | 70,3 | 55,5 | 75,1 | 65,4 | | 61,4 | | 58,4 | | 56,1 | | 28 |
| 30 | 99,1 | 100 | 101 | 99,4 | 102 | 87,3 | 99 | 93,4 | 72 | 91 | 83,6 | 64,3 | 84,2 | 74,6 | 58,7 | 77,8 | 68 | 54 | 72,4 | 63,2 | 49,9 | 59,3 | 46,6 | 56,4 | | 54 | | 30 |
| 32 | 91,1 | 92,2 | 95,5 | 91,4 | 93,8 | 84,5 | 92,9 | 91 | 70,4 | 88,4 | 81,2 | 62,7 | 81,9 | 72,5 | 57,3 | 75,1 | 66 | 52,7 | 69,8 | 61,2 | 48,7 | 57,4 | 45,3 | 54,3 | 42,5 | 51,9 | 40,3 | 32 |
| 34 | 83,9 | 84,9 | 88 | 84,3 | 86,5 | 79,2 | 85,8 | 86,7 | 69 | 84,9 | 79 | 61,2 | 79,5 | 70,6 | 56 | 72,6 | 64 | 51,6 | 67,5 | 59,3 | 47,5 | 55,5 | 44 | 52,6 | 41,3 | 50,1 | 39,1 | 34 |
| 36 | 77,5 | 78,4 | 81,3 | 77,9 | 80 | 77,7 | 79,4 | 80,6 | 67,4 | 79,3 | 76,9 | 60 | 77,1 | 68,6 | 54,8 | 70,3 | 62,2 | 50,3 | 65,2 | 57,5 | 46,2 | 53,7 | 42,8 | 50,9 | 40,2 | 48,4 | 38 | 36 |
| 38 | 71,7 | 72,5 | 75,3 | 72,1 | 74,1 | 75,4 | 73,6 | 74,7 | 66 | 73,6 | 74,9 | 58,8 | 73,7 | 66,7 | 53,5 | 68,1 | 60,5 | 49,2 | 63,1 | 55,9 | 45,3 | 52,1 | 41,8 | 49,2 | 39,1 | 46,8 | 36,9 | 38 |
| 40 | 66,4 | 67,2 | 69,9 | 66,8 | 68,8 | 70,7 | 68,3 | 69,4 | 64,7 | 68,4 | 69,6 | 57,6 | 68,5 | 65 | 52,3 | 66,1 | 58,9 | 48 | 61,1 | 54,3 | 44,1 | 50,7 | 40,8 | 47,6 | 38,1 | 45,3 | 35,9 | 40 |
| 44 | 57,2 | 58 | 60,3 | 57,8 | 59,5 | 61,2 | 59,2 | 60,1 | 61,9 | 59,3 | 60,4 | 55,5 | 59,4 | 60,2 | 50,2 | 59,2 | 55,8 | 46,2 | 57,4 | 51,4 | 42,3 | 47,8 | 38,9 | 44,9 | 36,2 | 42,4 | 34 | 44 |
| 48 | 48,7 | 49,3 | 51,5 | 49,5 | 51,1 | 52,6 | 51,3 | 52,1 | 54 | 51,7 | 52,6 | 52,3 | 51,9 | 52,9 | 48,4 | 51,6 | 52,2 | 44,3 | 51,9 | 48,7 | 40,5 | 45,2 | 37,2 | 42,3 | 34,5 | 39,9 | 32,3 | 48 |
| 52 | 41,5 | 42,1 | 44 | 42,3 | 43,7 | 45 | 44 | 44,7 | 46,4 | 44,5 | 45,5 | 46,9 | 45,1 | 46,1 | 45,8 | 45,1 | 46,2 | 42,6 | 45,5 | 45,2 | 38,9 | 42,9 | 35,5 | 40,1 | 33 | 37,7 | 30,7 | 52 |
| 56 | 35,4 | 35,9 | 37,5 | 36,1 | 37,4 | 38,7 | 37,8 | 38,5 | 39,9 | 38,3 | 39,2 | 40,6 | 39 | 39,8 | 41,6 | 39,2 | 40,2 | 40,4 | 39,8 | 40,8 | 37,3 | 40,2 | 34,1 | 37,8 | 31,6 | 35,6 | 29,2 | 56 |
| 60 | 30,4 | 30,7 | 32,2 | 30,9 | 32,2 | 33,1 | 32,4 | 33 | 34,2 | 33 | 33,7 | 35,1 | 33,6 | 34,4 | 35,9 | 33,8 | 34,7 | 36,3 | 34,4 | 35,4 | 35,3 | 35,3 | 32,8 | 34,7 | 30,2 | 33,3 | 27,9 | 60 |
| 64 | 26 | 26,3 | 27,5 | 26,5 | 27,6 | 28,4 | 27,9 | 28,4 | 29,4 | 28,3 | 28,9 | 30,2 | 28,8 | 29,6 | 31 | 29,1 | 29,9 | 31,3 | 29,7 | 30,6 | 32 | 30,5 | 31,5 | 30,7 | 29 | 30,4 | 26,7 | 64 |
| 68 | 22 | 22,2 | 23,5 | 22,6 | 23,6 | 24,4 | 24 | 24,4 | 25,3 | 24,3 | 24,9 | 25,9 | 24,8 | 25,4 | 26,6 | 25 | 25,8 | 27,3 | 25,7 | 26,6 | 28 | 26,6 | 28,2 | 26,8 | 27,3 | 26,7 | 25,6 | 68 |
| 72 | 18,5 | 18,7 | 19,8 | 19 | 20 | 20,6 | 20,4 | 20,8 | 21,6 | 20,8 | 21,3 | 22,2 | 21,3 | 21,8 | 22,9 | 21,4 | 22,2 | 23,5 | 22,1 | 22,9 | 24,3 | 23 | 24,7 | 23,3 | 24,8 | 23,2 | 24 | 72 |
| 76 | 15,3 | 15,5 | 16,5 | 15,9 | 16,8 | 17,4 | 17,2 | 17,5 | 18,2 | 17,5 | 17,9 | 18,9 | 18,2 | 18,7 | 19,4 | 18,2 | 18,8 | 20 | 18,8 | 19,6 | 20,9 | 19,6 | 21,3 | 20 | 21,6 | 19,7 | 21,7 | 76 |
| 80 | 12,7 | 12,8 | 13,7 | 13,1 | 13,9 | 14,4 | 14,3 | 14,6 | 15,2 | 14,7 | 15,1 | 15,8 | 15,3 | 15,7 | 16,6 | 15,5 | 15,9 | 16,9 | 16 | 16,6 | 17,5 | 16,7 | 18 | 16,8 | 17,9 | 16,8 | 18,5 | 80 |
| 84 | 10,2 | 10,4 | 11,1 | 10,7 | 11,4 | 11,8 | 11,8 | 12 | 12,5 | 12,1 | 12,4 | 13,1 | 12,7 | 13,1 | 13,8 | 12,9 | 13,3 | 14,2 | 13,4 | 14,1 | 15,1 | 14,2 | 15,4 | 14,5 | 15,6 | 14,5 | 15,7 | 84 |
| 88 | 8 | 8,1 | 8,8 | 8,5 | 9,1 | 9,4 | 9,4 | 9,7 | 10,1 | 9,8 | 10,1 | 10,6 | 10,3 | 10,6 | 11,3 | 10,5 | 10,9 | 11,7 | 11,1 | 11,7 | 12,6 | 11,8 | 12,9 | 12,1 | 13,3 | 12,2 | 13,5 | 88 |
| 92 | | | | 6,4 | 6,9 | 7,1 | 7,4 | 7,6 | 7,9 | 7,7 | 7,9 | 8,3 | 8,2 | 8,5 | 9 | 8,5 | 8,8 | 9,5 | 9 | 9,4 | 10,3 | 9,7 | 10,6 | 9,9 | 11 | 10 | 11,2 | 92 |
| 96 | | | | | | | 5,6 | 5,7 | 5,9 | 5,9 | 6 | 6,4 | 6,4 | 6,6 | 7 | 6,5 | 6,8 | 7,4 | 7,1 | 7,5 | 8,2 | 7,7 | 8,5 | 7,9 | 8,9 | 8 | 9,1 | 96 |
| 100 | | | | | | | | | | | | | | | 5,1 | | 5,1 | 5,5 | 5,4 | 5,7 | 6,3 | 5,9 | 6,7 | 6,2 | 7 | 6,2 | 7,2 | 100 |
| 104 | | | | | | | | | | | | | | | | | | | | | | | | | 5,3 | | 5,4 | 104 |

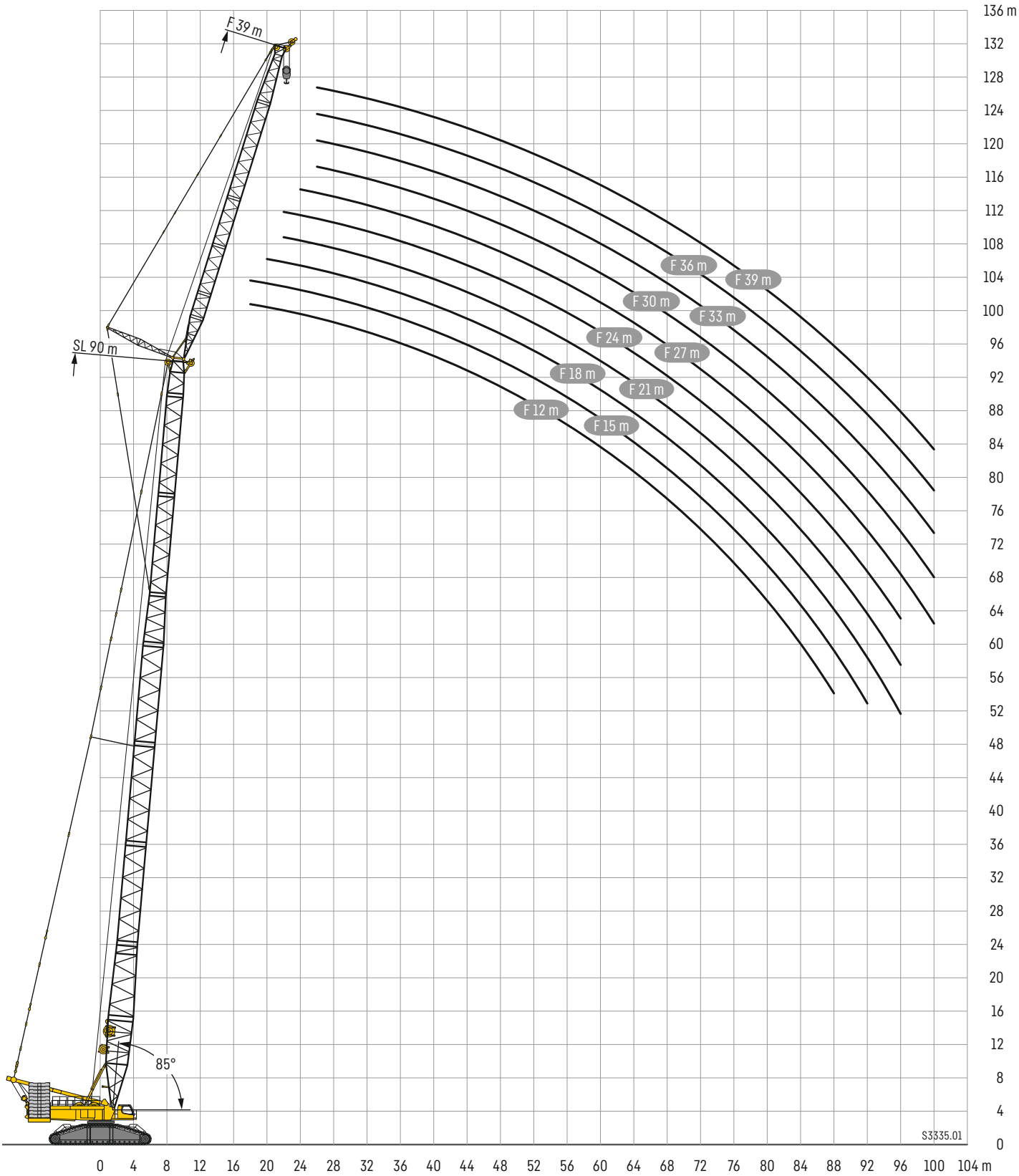
**SL 96 m**

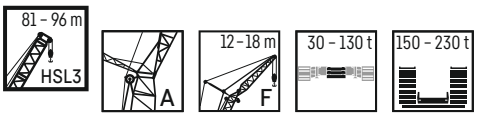
| m | F 12 m | | | F 15 m | | | F 18 m | | | F 21 m | | | F 24 m | | | F 27 m | | | F 30 m | | | F 33 m | | m |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 18° | 30° | |
| 16 | 134 | | | | | | | | | | | | | | | | | | | | | | | 16 |
| 18 | 131 | 122 | | 116 | | | | | | | | | | | | | | | | | | | | 18 |
| 20 | 127 | 119 | 106 | 113 | 106 | | 102 | 95 | | 93,5 | | | | | | | | | | | | | | 20 |
| 22 | 123 | 116 | 104 | 110 | 103 | 91,3 | 99,1 | 92,5 | | 90,8 | 84,2 | | 84,2 | | | 78,7 | | | | | | | | 22 |
| 24 | 120 | 113 | 102 | 107 | 100 | 89,3 | 96,4 | 90 | 76,4 | 87,9 | 81,9 | | 81,5 | 75,6 | | 76,3 | | | 72,2 | | | | | 24 |
| 26 | 114 | 110 | 99,5 | 104 | 97,8 | 87,4 | 93,6 | 87,7 | 74,7 | 85,6 | 79,7 | 66,8 | 79,3 | 73,6 | | 73,9 | 68,6 | | 70 | 64,6 | | 61,2 | | 26 |
| 28 | 104 | 105 | 97,3 | 101 | 95,1 | 85,4 | 91 | 85,4 | 73,2 | 83,1 | 77,5 | 65,2 | 76,9 | 71,6 | 59,6 | 71,8 | 66,6 | | 67,9 | 62,8 | | 59,4 | | 28 |
| 30 | 95,4 | 96,7 | 94,9 | 96,7 | 92,6 | 83,3 | 88,5 | 83,2 | 71,6 | 80,8 | 75,5 | 63,8 | 74,7 | 69,6 | 58,2 | 69,7 | 64,8 | 53,7 | 66 | 61,1 | 49,6 | 57,7 | | 30 |
| 32 | 87,6 | 88,7 | 91,2 | 89,1 | 89,4 | 81,3 | 86,1 | 81,1 | 70,1 | 78,6 | 73,6 | 62,4 | 72,6 | 67,8 | 56,9 | 67,7 | 63 | 52,5 | 64 | 59,4 | 48,3 | 56 | 44,8 | 32 |
| 34 | 80,5 | 81,5 | 84,8 | 82,1 | 83,3 | 79,3 | 82 | 78,9 | 68,7 | 76,3 | 71,8 | 61,2 | 70,6 | 66,1 | 55,7 | 65,7 | 61,4 | 51,2 | 62,2 | 57,9 | 47,2 | 54,5 | 43,8 | 34 |
| 36 | 74,2 | 75,1 | 78,2 | 75,8 | 76,9 | 77,5 | 76,2 | 76,7 | 67,4 | 74,4 | 70 | 59,9 | 68,7 | 64,4 | 54,5 | 64 | 59,8 | 50,1 | 60,4 | 56,3 | 46 | 53,1 | 42,6 | 36 |
| 38 | 68,5 | 69,4 | 72,3 | 70,1 | 71 | 73,2 | 70,5 | 71,7 | 66,2 | 70,6 | 68,1 | 58,7 | 66,8 | 62,8 | 53,5 | 62,3 | 58,3 | 49 | 58,7 | 54,9 | 45 | 51,6 | 41,6 | 38 |
| 40 | 63,3 | 64,2 | 67 | 64,9 | 65,8 | 67,9 | 65,4 | 66,5 | 65 | 65,5 | 65,9 | 57,8 | 64,6 | 61,3 | 52,4 | 60,5 | 56,7 | 47,9 | 57 | 53,4 | 44 | 50,3 | 40,7 | 40 |
| 44 | 54,4 | 55,1 | 57,6 | 55,8 | 56,7 | 58,5 | 56,3 | 57,4 | 59,4 | 56,5 | 57,6 | 55,6 | 56,7 | 57,4 | 50,3 | 56,3 | 54,1 | 46,2 | 54 | 50,7 | 42,1 | 47,7 | 38,8 | 44 |
| 48 | 46,8 | 47,4 | 49,7 | 48,2 | 49 | 50,6 | 48,8 | 49,7 | 51,5 | 48,9 | 49,9 | 52 | 49,1 | 50,3 | 48,5 | 49 | 50,2 | 44,4 | 49,2 | 48,1 | 40,6 | 45,2 | 37,2 | 48 |
| 52 | 39,9 | 40,5 | 42,3 | 41,4 | 42,2 | 43,6 | 42,3 | 43 | 44,7 | 42,4 | 43,4 | 45,2 | 42,7 | 43,8 | 45,5 | 42,7 | 43,7 | 42,7 | 42,9 | 44,1 | 39 | 42,5 | 35,7 | 52 |
| 56 | 33,7 | 34,2 | 36,1 | 35,4 | 36 | 37,2 | 36,2 | 37 | 38,4 | 36,7 | 37,5 | 39,2 | 37,1 | 38,1 | 40 | 37,1 | 38 | 39,4 | 37,4 | 38,5 | 37,3 | 38,3 | 34,3 | 56 |
| 60 | 28,5 | 28,9 | 30,6 | 30 | 30,6 | 31,6 | 30,8 | 31,5 | 32,8 | 31,4 | 32,1 | 33,6 | 31,9 | 32,8 | 34,4 | 32,1 | 33,1 | 34,9 | 32,5 | 33,5 | 34,9 | 33,4 | 32,9 | 60 |
| 64 | 24,1 | 24,4 | 26 | 25,4 | 25,9 | 26,8 | 26,2 | 26,8 | 27,9 | 26,7 | 27,4 | 28,7 | 27,2 | 28 | 29,5 | 27,6 | 28,4 | 29,9 | 28,1 | 29,1 | 30,7 | 29 | 30,7 | 64 |
| 68 | 20,2 | 20,5 | 21,9 | 21,4 | 21,8 | 22,7 | 22,2 | 22,7 | 23,7 | 22,7 | 23,2 | 24,4 | 23,1 | 23,8 | 25,2 | 23,5 | 24,3 | 25,9 | 24,1 | 25 | 26,7 | 25,1 | 26,9 | 68 |
| 72 | 16,6 | 16,9 | 18,2 | 17,9 | 18,3 | 19,1 | 18,7 | 19 | 19,9 | 19 | 19,6 | 20,6 | 19,6 | 20,2 | 21,4 | 19,9 | 20,4 | 22 | 20,3 | 21,3 | 22,9 | 21,5 | 23,3 | 72 |
| 76 | 13,6 | 13,8 | 14,9 | 14,7 | 15 | 15,7 | 15,4 | 15,8 | 16,7 | 15,9 | 16,4 | 17,3 | 16,4 | 16,9 | 18 | 16,6 | 17,2 | 18,4 | 17,1 | 17,7 | 19,4 | 18,1 | 19,5 | 76 |
| 80 | 10,8 | 11 | 12,1 | 11,9 | 12,2 | 12,8 | 12,6 | 12,9 | 13,6 | 13 | 13,4 | 14,3 | 13,5 | 14,1 | 15,1 | 13,8 | 14,5 | 15,5 | 14,5 | 15,1 | 16,2 | 15,1 | 16,4 | 80 |
| 84 | 8,4 | 8,6 | 9,5 | 9,4 | 9,6 | 10 | 10 | 10,3 | 10,9 | 10,5 | 10,8 | 11,5 | 10,9 | 11,4 | 12,2 | 11,2 | 11,7 | 12,8 | 11,9 | 12,5 | 13,7 | 12,6 | 13,8 | 84 |
| 88 | 6,1 | 6,3 | 7,1 | 7,1 | 7,3 | 7,7 | 7,8 | 8 | 8,5 | 8,1 | 8,4 | 9,1 | 8,7 | 9 | 9,8 | 8,9 | 9,3 | 10,2 | 9,5 | 10,1 | 11,1 | 10,2 | 11,4 | 88 |
| 92 | | | | 5,1 | 5,2 | 5,5 | 5,7 | 5,9 | 6,3 | 6,1 | 6,4 | 6,9 | 6,5 | 6,9 | 7,5 | 6,7 | 7,2 | 8 | 7,4 | 7,9 | 8,8 | 8 | 9,1 | 92 |
| 96 | | | | | | | | | | | | | | | 5,5 | | 5,2 | 5,9 | 5,4 | 5,8 | 6,7 | 6,1 | 7 | 96 |
| 100 | | | | | | | | | | | | | | | | | | | | | | | 5,1 | 100 |




| m | SL 102 m | | | | | | | | | | | | m |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | F 12 m | | | F 15 m | | | F 18 m | | | F 21 m | | | |
| | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | 12° | 18° | 30° | |
| 18 | 118 | 112 | | 106 | | | | | | | | | 18 |
| 20 | 115 | 109 | 98,2 | 103 | 97,1 | | 93,8 | | | 85,9 | | | 20 |
| 22 | 112 | 107 | 96,4 | 101 | 94,9 | 84,9 | 91,4 | 86 | | 83,8 | 78,3 | | 22 |
| 24 | 109 | 104 | 94,3 | 98,3 | 92,7 | 83,2 | 89,2 | 83,8 | 74,7 | 81,7 | 76,6 | | 24 |
| 26 | 106 | 102 | 92,5 | 95,8 | 90,6 | 81,7 | 87 | 81,8 | 73,2 | 79,6 | 74,7 | | 26 |
| 28 | 101 | 99,1 | 90,5 | 93,2 | 88,3 | 79,8 | 84,7 | 80 | 71,6 | 77,6 | 73 | 65 | 28 |
| 30 | 92,6 | 94,8 | 88,3 | 90,6 | 86 | 78 | 82,5 | 77,9 | 69,9 | 75,7 | 71,3 | 63,5 | 30 |
| 32 | 84,9 | 87,1 | 86,1 | 85,9 | 83,6 | 76,2 | 80,1 | 75,9 | 68,3 | 73,7 | 69,5 | 62,1 | 32 |
| 34 | 78 | 80,2 | 82,4 | 79,6 | 80,8 | 74,4 | 77,8 | 73,9 | 66,9 | 71,6 | 67,6 | 60,7 | 34 |
| 36 | 71,8 | 73,9 | 76 | 73,4 | 74,6 | 72,7 | 73,8 | 71,9 | 65,4 | 69,6 | 65,8 | 59,3 | 36 |
| 38 | 66,2 | 68,2 | 70,2 | 67,8 | 68,9 | 71,1 | 68,3 | 69,2 | 64 | 67,2 | 64,1 | 58 | 38 |
| 40 | 61,1 | 63,1 | 64,9 | 62,7 | 63,7 | 65,8 | 63,2 | 64,4 | 62,6 | 63,4 | 62,5 | 56,8 | 40 |
| 44 | 52,2 | 54,1 | 55,7 | 53,8 | 54,7 | 56,6 | 54,3 | 55,4 | 57,5 | 54,5 | 55,7 | 54,3 | 44 |
| 48 | 44,7 | 46,6 | 48 | 46,4 | 47,2 | 48,8 | 46,8 | 47,8 | 49,7 | 47 | 48,1 | 50,2 | 48 |
| 52 | 38,4 | 40 | 41,3 | 39,9 | 40,6 | 42,1 | 40,4 | 41,3 | 43 | 40,7 | 41,6 | 43,5 | 52 |
| 56 | 32,7 | 34 | 35,2 | 34,3 | 34,9 | 36,2 | 34,9 | 35,6 | 37,2 | 35,1 | 35,9 | 37,7 | 56 |
| 60 | 27,5 | 28,6 | 29,7 | 29 | 29,7 | 30,8 | 29,9 | 30,6 | 32 | 30,2 | 31 | 32,5 | 60 |
| 64 | 23 | 24 | 24,9 | 24,4 | 24,9 | 26 | 25,2 | 25,8 | 27,1 | 25,7 | 26,5 | 27,9 | 64 |
| 68 | 19 | 20,1 | 20,8 | 20,4 | 20,8 | 21,7 | 21,2 | 21,6 | 22,8 | 21,5 | 22,2 | 23,5 | 68 |
| 72 | 15,6 | 16,6 | 17,2 | 16,9 | 17,3 | 18,1 | 17,6 | 18 | 19 | 17,9 | 18,5 | 19,7 | 72 |
| 76 | 12,4 | 13,4 | 14 | 13,8 | 14,1 | 14,9 | 14,5 | 14,9 | 15,7 | 14,8 | 15,3 | 16,3 | 76 |
| 80 | 9,7 | 10,6 | 11,1 | 10,8 | 11,2 | 11,8 | 11,5 | 11,9 | 12,8 | 12 | 12,5 | 13,4 | 80 |
| 84 | 7,2 | 8 | 8,5 | 8,4 | 8,6 | 9,2 | 9 | 9,3 | 10 | 9,4 | 9,8 | 10,7 | 84 |
| 88 | 5 | 5,8 | 6,2 | 6,1 | 6,3 | 6,8 | 6,8 | 7 | 7,6 | 7,1 | 7,5 | 8,2 | 88 |
| 92 | | | | | | | | | 5,4 | | 5,3 | 6 | 92 |

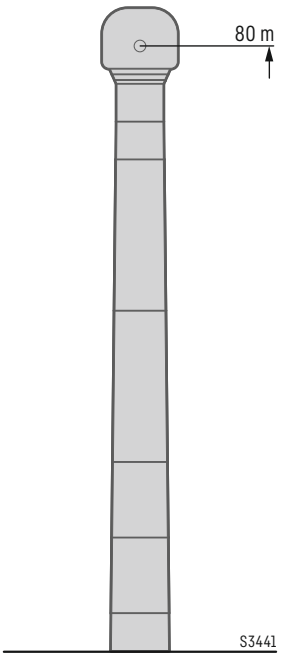

F 21 m
SL 102 m
F 21 m
F 15 m
F 18 m
F 12 m
85°
S3336.01
132 m
128
124
120
116
112
108
104
100
96
92
88
84
80
76
72
68
64
60
56
52
48
44
40
36
32
28
24
20
16
12
8
4
0
0 4 8 12 16 20 24 28 32 36 40 44 48 52 56 60 64 68 72 76 80 84 88 92 m

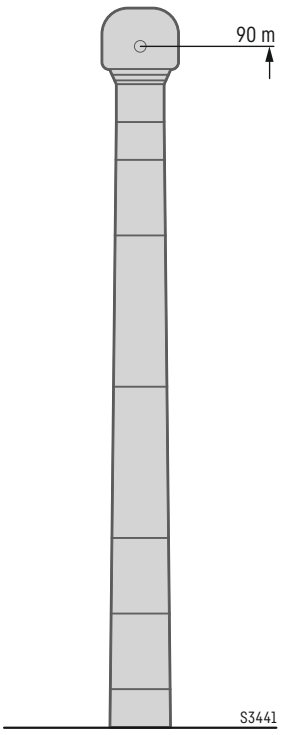

F 39 m
SL 90 m
85°
F 36 m
F 39 m
F 30 m
F 33 m
F 24 m
F 27 m
F 18 m
F 21 m
F 12 m
F 15 m
S3335.01
136 m
132
128
124
120
116
112
108
104
100
96
92
88
84
80
76
72
68
64
60
56
52
48
44
40
36
32
28
24
20
16
12
8
4
0
0 4 8 12 16 20 24 28 32 36 40 44 48 52 56 60 64 68 72 76 80 84 88 92 96 100 104 m

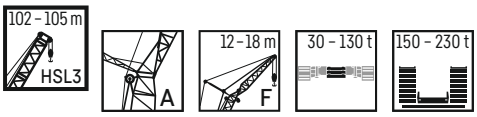



| m | HSL3A 81 m | | | HSL3A 84 m | | |
|---|---|---|---|---|---|---|
| | F 12 m | F 15 m | F 18 m | F 12 m | F 15 m | F 18 m |
| | 12° | | | | | |
| 15 | 185 | | | 185 | | |
| 16 | 185 | 174 | | 185 | | |
| 17 | 185 | 170 | 145 | 185 | 170 | |
| 18 | 185 | 166 | 142 | 185 | 166 | 142 |
| 19 | 185 | 162 | 139 | 183 | 163 | 139 |
| 20 | 176 | 159 | 136 | 175 | 159 | 136 |
| 22 | 159 | 152 | 130 | 157 | 153 | 131 |
| 24 | 144 | 143 | 125 | 142 | 142 | 125 |
| 26 | 131 | 131 | 120 | 129 | 129 | 121 |
| 28 | 119 | 120 | 116 | 118 | 118 | 116 |
| 30 | 109 | 111 | 111 | 108 | 109 | 110 |
| 32 | 99,8 | 101 | 103 | 99,4 | 100 | 101 |
| 34 | 90,4 | 92,6 | 94 | 90,6 | 91,4 | 93,1 |
| 36 | 83,1 | 84,3 | 86,3 | 82,8 | 83,6 | 85,4 |
| 38 | 76,3 | 77,8 | 79,2 | 76 | 76,7 | 78,3 |
| 40 | 69,8 | 71,7 | 73,2 | 69,9 | 70,6 | 72,2 |
| 44 | 59,3 | 60,8 | 62,4 | 58,9 | 60 | 61,6 |
| 48 | 50,8 | 52,1 | 53,7 | 50,5 | 51,3 | 52,7 |
| 52 | 43,5 | 44,9 | 46,4 | 43,2 | 43,9 | 45,5 |
| 56 | 37,6 | 38,8 | 40,1 | 37,2 | 37,8 | 39,3 |
| 60 | 32,6 | 33,7 | 35 | 32,1 | 32,6 | 34 |
| 64 | 28 | 29,1 | 30,5 | 27,6 | 28,2 | 29,5 |
| 68 | 24,2 | 25,2 | 26,4 | 23,7 | 24,2 | 25,5 |
| 72 | 20,8 | 21,7 | 22,9 | 20,2 | 20,7 | 21,9 |
| 76 | 17,7 | 18,7 | 19,8 | 17,2 | 17,6 | 18,8 |
| 80 | 15,1 | 15,9 | 17 | 14,5 | 14,9 | 16 |
| 84 | | 13,5 | 14,5 | 12,1 | 12,5 | 13,5 |
| 88 | | | 12,2 | | 10,3 | 11,3 |
| 92 | | | | | | |

| m | HSL3A 93 m | | | HSL3A 96 m | | |
|---|---|---|---|---|---|---|
| | F 12 m | F 15 m | F 18 m | F 12 m | F 15 m | F 18 m |
| | 12° | | | | | |
| 15 | | | | | | |
| 16 | 152 | | | | | |
| 17 | 185 | | | 185 | | |
| 18 | 183 | 167 | | 182 | 167 | |
| 19 | 174 | 164 | | 173 | 164 | |
| 20 | 164 | 161 | 137 | 163 | 161 | 137 |
| 22 | 148 | 149 | 132 | 147 | 147 | 132 |
| 24 | 134 | 135 | 127 | 133 | 133 | 128 |
| 26 | 121 | 123 | 123 | 121 | 121 | 122 |
| 28 | 111 | 112 | 113 | 110 | 110 | 112 |
| 30 | 101 | 103 | 104 | 101 | 101 | 103 |
| 32 | 93,2 | 94,5 | 95,9 | 92,6 | 92,9 | 94,4 |
| 34 | 85,7 | 87,1 | 88,6 | 85,3 | 85,6 | 87,1 |
| 36 | 78,9 | 80,5 | 81,9 | 78,6 | 79 | 80,6 |
| 38 | 71,8 | 73,9 | 75,6 | 71,9 | 72,9 | 74,5 |
| 40 | 65,9 | 67,5 | 69,5 | 65,8 | 66,7 | 68,7 |
| 44 | 55,4 | 57,3 | 59 | 55,5 | 56,4 | 58,1 |
| 48 | 46,6 | 48,4 | 50,1 | 46,7 | 47,6 | 49,5 |
| 52 | 39,6 | 41,1 | 42,7 | 39,5 | 40,3 | 42 |
| 56 | 33,5 | 34,9 | 36,6 | 33,4 | 34,2 | 35,8 |
| 60 | 28,3 | 29,6 | 31,2 | 28,2 | 28,9 | 30,4 |
| 64 | 23,8 | 25,1 | 26,6 | 23,7 | 24,3 | 25,8 |
| 68 | 20 | 21,3 | 22,6 | 19,9 | 20,4 | 21,8 |
| 72 | 16,5 | 17,7 | 19,1 | 16,4 | 17 | 18,4 |
| 76 | 13,6 | 14,6 | 15,9 | 13,4 | 13,8 | 15,2 |
| 80 | 10,9 | 11,9 | 13,1 | 10,6 | 11,1 | 12,4 |
| 84 | 8,5 | 9,5 | 10,6 | 8,2 | 8,6 | 9,8 |
| 88 | 6,4 | 7,2 | 8,4 | 6 | 6,4 | 7,6 |
| 92 | | 5,3 | 6,3 | | | 5,5 |

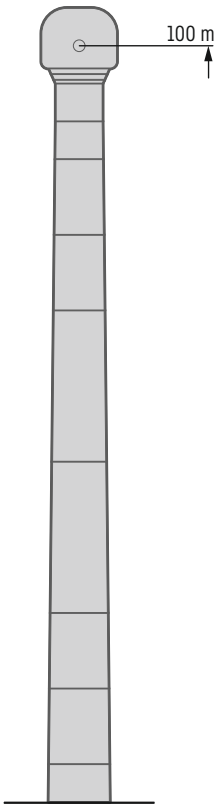


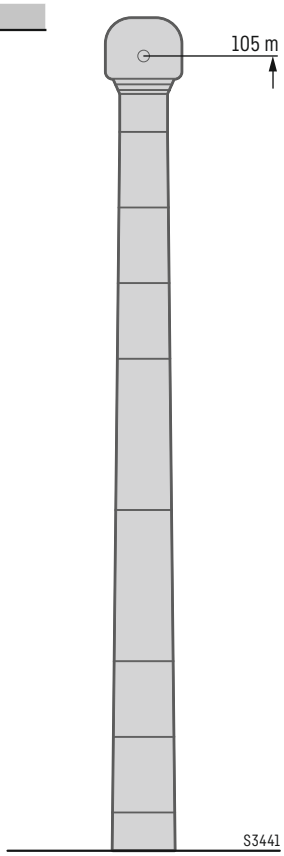





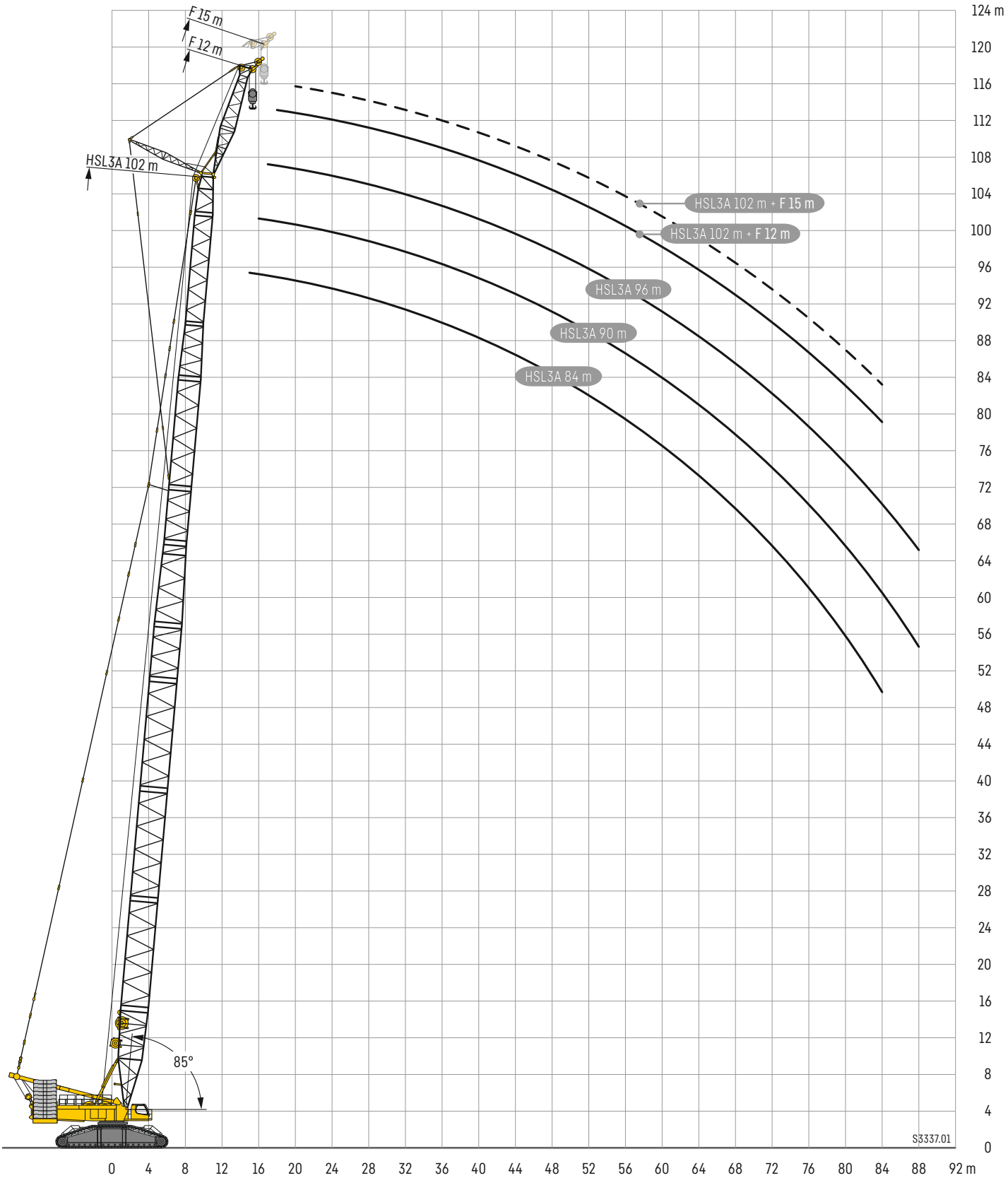

| m | HSL3A 102 m | | |
|---|---|---|---|
| | F 12 m | F 15 m | F 18 m |
| | 12° | | |
| 15 | | | |
| 16 | | | |
| 17 | | | |
| 18 | | | |
| 19 | 166 | | |
| 20 | 157 | 155 | |
| 22 | 141 | 143 | 131 |
| 24 | 128 | 129 | 126 |
| 26 | 116 | 117 | 117 |
| 28 | 105 | 107 | 107 |
| 30 | 96,4 | 98 | 98,3 |
| 32 | 88,4 | 90 | 90,3 |
| 34 | 81,2 | 82,8 | 83,2 |
| 36 | 74,7 | 76,3 | 76,8 |
| 38 | 68,9 | 70,5 | 71 |
| 40 | 63,5 | 65,2 | 65,7 |
| 44 | 53,4 | 55,2 | 56,1 |
| 48 | 44,5 | 46,6 | 47,5 |
| 52 | 37,3 | 39,2 | 40 |
| 56 | 31,3 | 33 | 33,8 |
| 60 | 26 | 27,6 | 28,5 |
| 64 | 21,5 | 22,9 | 23,8 |
| 68 | 17,5 | 18,9 | 19,7 |
| 72 | 14,1 | 15,4 | 16,2 |
| 76 | 11 | 12,3 | 13,1 |
| 80 | 8,3 | 9,5 | 10,2 |
| 84 | 5,8 | 7 | 7,7 |
| 88 | | | 5,4 |
| 92 | | | |

| m | HSL3A 105 m | |
|---|---|---|
| | F 12 m | F 15 m |
| | 12° | |
| 15 | | |
| 16 | | |
| 17 | | |
| 18 | 164 | |
| 19 | 160 | 151 |
| 20 | 155 | 150 |
| 22 | 140 | 141 |
| 24 | 126 | 128 |
| 26 | 115 | 116 |
| 28 | 104 | 106 |
| 30 | 95,4 | 97,1 |
| 32 | 87,5 | 89,2 |
| 34 | 80,4 | 82,1 |
| 36 | 74 | 75,7 |
| 38 | 68,2 | 69,9 |
| 40 | 62,8 | 64,6 |
| 44 | 52,8 | 54,5 |
| 48 | 44,2 | 46,1 |
| 52 | 36,9 | 38,7 |
| 56 | 30,8 | 32,5 |
| 60 | 25,5 | 27,2 |
| 64 | 21 | 22,6 |
| 68 | 17,2 | 18,6 |
| 72 | 13,8 | 15 |
| 76 | 10,7 | 12 |
| 80 | 7,9 | 9,2 |
| 84 | 5,6 | 6,7 |
| 88 | | |
| 92 | | |

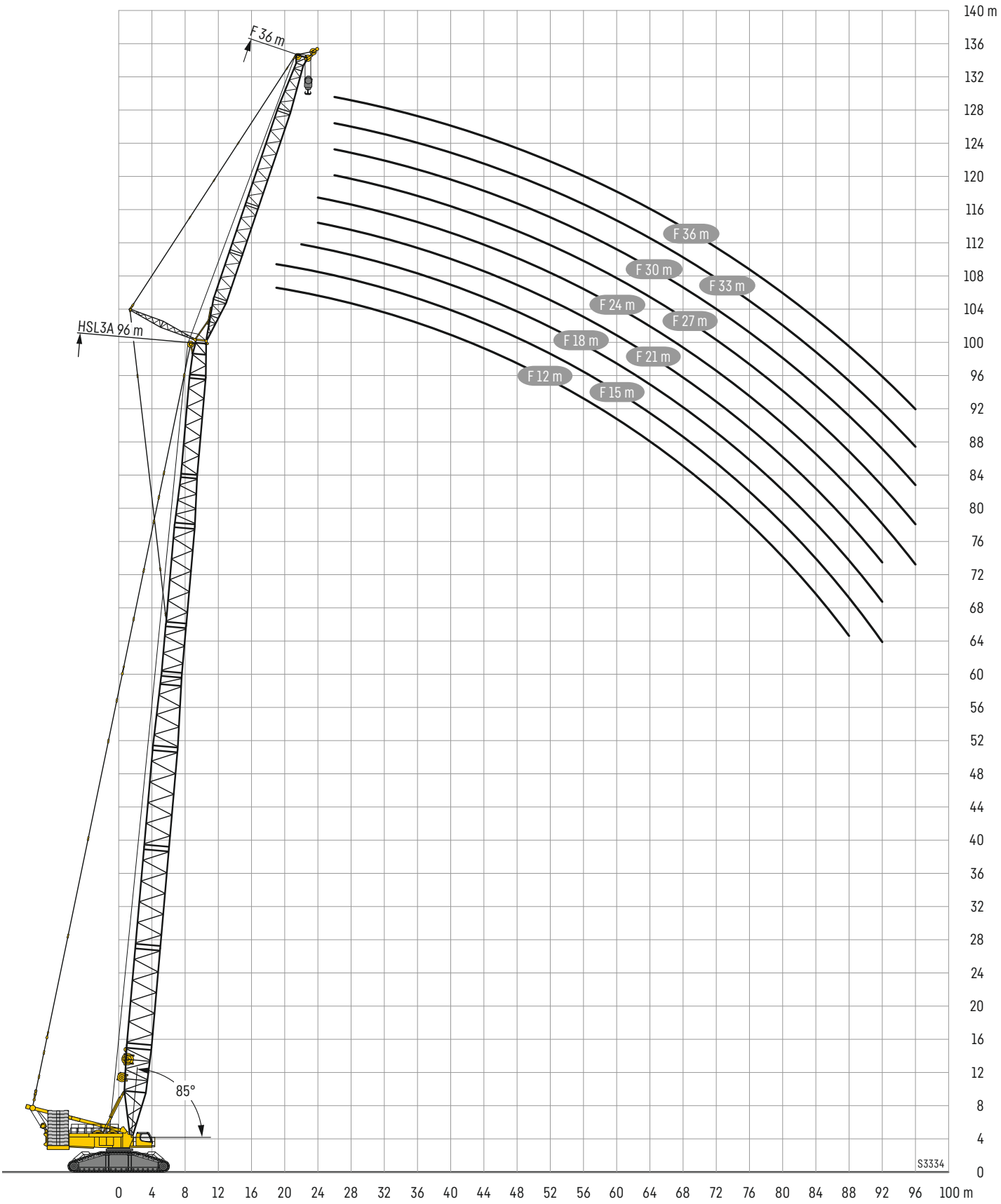


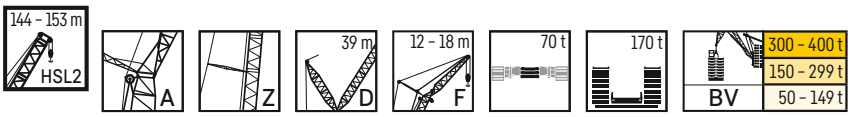



# HSL3AF

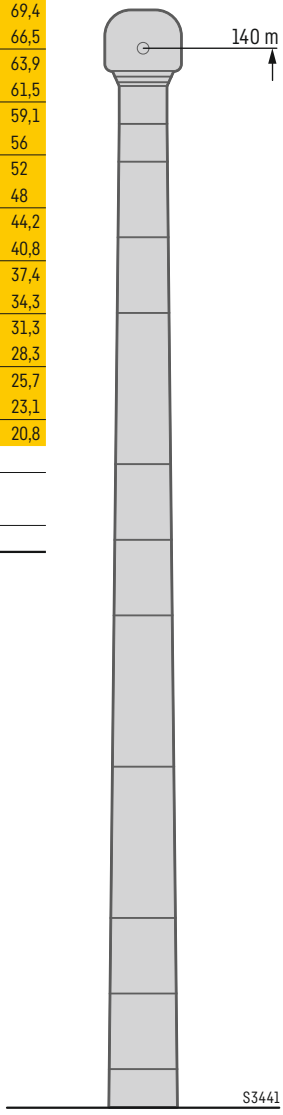

F 15 m
F 12 m
HSL3A 102 m
HSL3A 102 m + F 15 m
HSL3A 102 m + F 12 m
HSL3A 96 m
HSL3A 90 m
HSL3A 84 m
85°
S3337.01
124 m
120
116
112
108
104
100
96
92
88
84
80
76
72
68
64
60
56
52
48
44
40
36
32
28
24
20
16
12
8
4
0
0 4 8 12 16 20 24 28 32 36 40 44 48 52 56 60 64 68 72 76 80 84 88 92 m

# HSL3AF

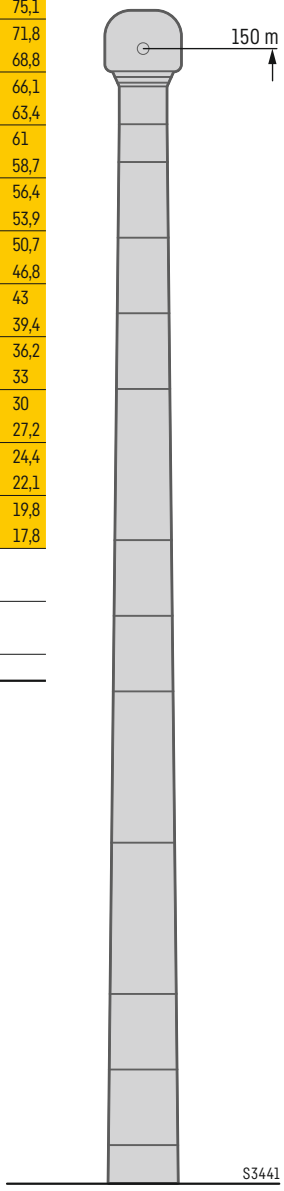

F 36 m
HSL3A 96 m
85°
F 36 m
F 30 m
F 33 m
F 24 m
F 27 m
F 18 m
F 21 m
F 12 m
F 15 m
S3334
140 m
136
132
128
124
120
116
112
108
104
100
96
92
88
84
80
76
72
68
64
60
56
52
48
44
40
36
32
28
24
20
16
12
8
4
0
0 4 8 12 16 20 24 28 32 36 40 44 48 52 56 60 64 68 72 76 80 84 88 92 96 100 m

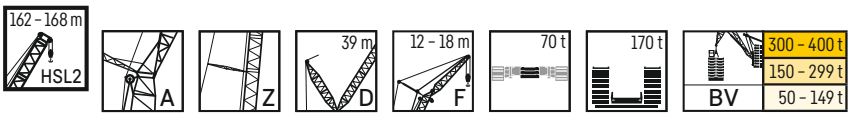



| m | HSL2 144 m | | | HSL2 147 m | | |
|---|---|---|---|---|---|---|
| | F 12 m | F 15 m | F 18 m | F 12 m | F 15 m | F 18 m |
| | 12° | | | 12° | | |
| 24 | 163 | 145 | | 156 | | |
| 26 | 161 | 145 | 124 | 155 | 139 | 123 |
| 28 | 159 | 144 | 121 | 153 | 137 | 120 |
| 30 | 156 | 141 | 118 | 150 | 135 | 117 |
| 32 | 153 | 138 | 115 | 148 | 132 | 114 |
| 34 | 150 | 135 | 112 | 145 | 130 | 112 |
| 36 | 147 | 132 | 110 | 142 | 127 | 109 |
| 38 | 144 | 129 | 107 | 139 | 125 | 107 |
| 40 | 140 | 126 | 105 | 136 | 122 | 104 |
| 44 | 133 | 121 | 100 | 129 | 116 | 100 |
| 48 | 126 | 115 | 96,4 | 123 | 110 | 96 |
| 52 | 119 | 109 | 92,6 | 116 | 105 | 92,4 |
| 56 | 113 | 104 | 89,3 | 110 | 99,8 | 89,1 |
| 60 | 107 | 98,4 | 86 | 104 | 94,9 | 85,8 |
| 64 | 102 | 93,5 | 83,2 | 98,7 | 90,2 | 82,5 |
| 68 | 96,7 | 89,1 | 80,4 | 94 | 85,8 | 79,1 |
| 72 | 91,8 | 85 | 77,8 | 89,8 | 82 | 75,7 |
| 76 | 86,8 | 81,2 | 74,9 | 85,6 | 78,5 | 72,4 |
| 80 | 81,7 | 77,7 | 71,9 | 81,3 | 75,1 | 69,4 |
| 84 | 76,4 | 74,5 | 68,9 | 75,8 | 71,9 | 66,5 |
| 88 | 70,9 | 70,8 | 66,2 | 70,3 | 68,7 | 63,9 |
| 92 | 65,4 | 66,5 | 63,7 | 65 | 64,6 | 61,5 |
| 96 | 60,6 | 62 | 61,1 | 60,1 | 60,1 | 59,1 |
| 100 | 55,9 | 57,5 | 57,4 | 55,5 | 55,9 | 56 |
| 104 | 51,6 | 53 | 53,4 | 51,1 | 51,6 | 52 |
| 108 | 47,6 | 49 | 49,5 | 47,1 | 47,5 | 48 |
| 112 | 43,8 | 45,2 | 45,8 | 43,3 | 43,8 | 44,2 |
| 116 | 40,2 | 41,6 | 42,2 | 39,7 | 40,2 | 40,8 |
| 120 | 36,8 | 38,2 | 38,8 | 36,3 | 36,8 | 37,4 |
| 124 | 33,4 | 34,9 | 35,6 | 33 | 33,7 | 34,3 |
| 128 | 30,5 | 31,8 | 32,5 | 29,9 | 30,5 | 31,3 |
| 132 | 27,7 | 28,9 | 29,6 | 27,1 | 27,7 | 28,3 |
| 136 | 25,1 | 26,2 | 26,8 | 24,4 | 24,9 | 25,7 |
| 140 | | | 24,3 | | 22,5 | 23,1 |
| 144 | | | | | | 20,8 |
| 148 | | | | | | |
| 152 | | | | | | |
| 156 | | | | | | |
| 160 | | | | | | |



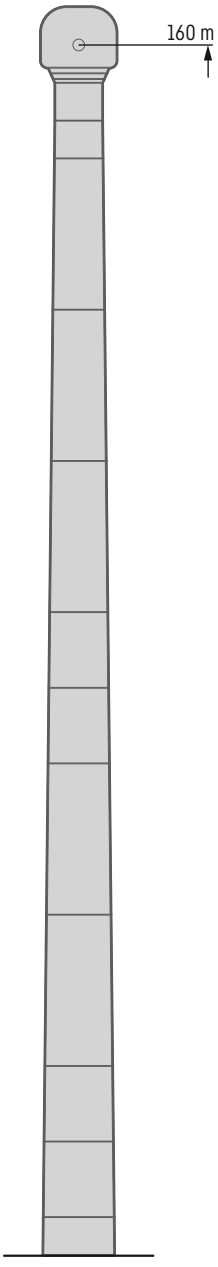

| m | HSL2 150 m | | | HSL2 153 m | | |
|---|---|---|---|---|---|---|
| | F 12 m | F 15 m | F 18 m | F 12 m | F 15 m | F 18 m |
| | 12° | | | 12° | | |
| 24 | 149 | | | 142 | | |
| 26 | 148 | 133 | 122 | 141 | 127 | |
| 28 | 146 | 131 | 119 | 139 | 126 | 116 |
| 30 | 144 | 129 | 116 | 137 | 124 | 114 |
| 32 | 141 | 127 | 114 | 135 | 122 | 112 |
| 34 | 139 | 125 | 111 | 133 | 119 | 110 |
| 36 | 136 | 122 | 109 | 130 | 117 | 108 |
| 38 | 133 | 120 | 106 | 128 | 115 | 106 |
| 40 | 130 | 117 | 104 | 125 | 112 | 104 |
| 44 | 124 | 112 | 99,6 | 119 | 107 | 99,7 |
| 48 | 117 | 106 | 95,6 | 113 | 102 | 95,3 |
| 52 | 111 | 101 | 92 | 107 | 97 | 90,8 |
| 56 | 105 | 96 | 88,3 | 101 | 92,2 | 86,5 |
| 60 | 99,9 | 91,1 | 84,2 | 96 | 87,5 | 82,4 |
| 64 | 94,8 | 86,8 | 80,3 | 91,3 | 83,4 | 78,6 |
| 68 | 90,2 | 82,5 | 76,6 | 86,8 | 79,6 | 75,1 |
| 72 | 86,1 | 78,9 | 73,1 | 82,9 | 76,1 | 71,8 |
| 76 | 82,3 | 75,5 | 70 | 79,2 | 72,8 | 68,8 |
| 80 | 78,6 | 72,3 | 67 | 75,5 | 69,8 | 66,1 |
| 84 | 74 | 69,3 | 64,3 | 71,6 | 66,9 | 63,4 |
| 88 | 69 | 66,6 | 61,7 | 67 | 64,4 | 61 |
| 92 | 63,9 | 63 | 59,4 | 62,1 | 61,3 | 58,7 |
| 96 | 58,8 | 58,9 | 57,2 | 57,2 | 57,4 | 56,4 |
| 100 | 54,5 | 54,7 | 54,9 | 52,8 | 53 | 53,9 |
| 104 | 50,1 | 50,6 | 51,1 | 48,7 | 49 | 50,7 |
| 108 | 46,1 | 46,5 | 47,1 | 44,6 | 45 | 46,8 |
| 112 | 42,4 | 42,7 | 43,3 | 40,9 | 41,3 | 43 |
| 116 | 38,8 | 39,3 | 39,8 | 37,4 | 37,8 | 39,4 |
| 120 | 35,4 | 35,9 | 36,5 | 34,1 | 34,5 | 36,2 |
| 124 | 32,2 | 32,7 | 33,4 | 31 | 31,4 | 33 |
| 128 | 29,1 | 29,7 | 30,4 | 28 | 28,4 | 30 |
| 132 | 26,3 | 26,8 | 27,6 | 25,1 | 25,5 | 27,2 |
| 136 | 23,7 | 24,2 | 24,9 | 22,5 | 23 | 24,4 |
| 140 | 21,3 | 21,7 | 22,3 | 20 | 20,6 | 22,1 |
| 144 | | 19,6 | 20 | | 18,4 | 19,8 |
| 148 | | | | | | 17,8 |
| 152 | | | | | | |
| 156 | | | | | | |
| 160 | | | | | | |
| 164 | | | | | | |
| 168 | | | | | | |



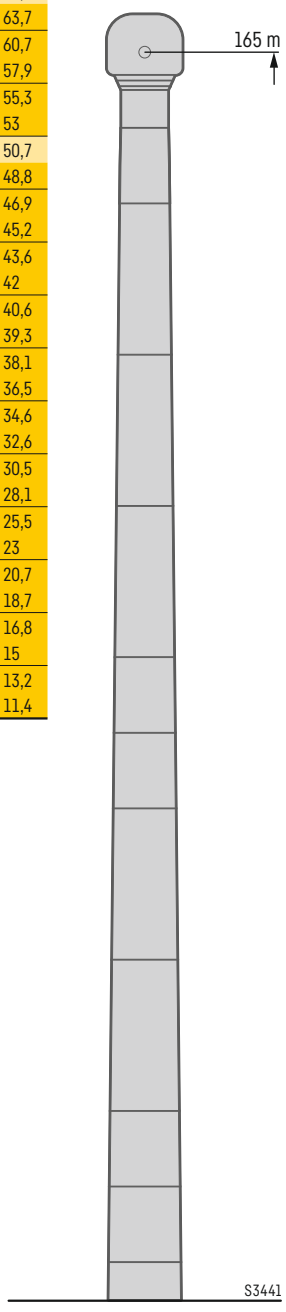



| m | HSL2 162 m F 12 m | HSL2 162 m F 15 m | HSL2 162 m F 18 m |
|---|---|---|---|
| | 12° | | |
| 26 | 122 | 109 | |
| 28 | 121 | 111 | 102 |
| 30 | 120 | 109 | 100 |
| 32 | 118 | 108 | 99 |
| 34 | 116 | 106 | 97,5 |
| 36 | 114 | 104 | 95,9 |
| 38 | 112 | 102 | 94,2 |
| 40 | 109 | 101 | 92,5 |
| 44 | 105 | 96,1 | 88,7 |
| 48 | 99,4 | 91,6 | 84,7 |
| 52 | 94,5 | 87,3 | 80,8 |
| 56 | 89,8 | 83,2 | 77,2 |
| 60 | 85,4 | 79,3 | 73,6 |
| 64 | 81,4 | 75,6 | 70,3 |
| 68 | 77,6 | 72,4 | 67,2 |
| 72 | 74,1 | 69,1 | 64,4 |
| 76 | 70,9 | 66,3 | 61,7 |
| 80 | 67,7 | 63,7 | 59,2 |
| 84 | 64,4 | 61,1 | 56,9 |
| 88 | 61 | 58,8 | 54,7 |
| 92 | 57,7 | 56,6 | 52,7 |
| 96 | 53,8 | 54,2 | 50,9 |
| 100 | 49,5 | 51 | 48,7 |
| 104 | 45,5 | 47 | 46,4 |
| 108 | 41,7 | 43,3 | 43,6 |
| 112 | 38 | 39,7 | 40,2 |
| 116 | 34,6 | 36,2 | 36,8 |
| 120 | 31,4 | 32,9 | 33,5 |
| 124 | 28,4 | 29,9 | 30,5 |
| 128 | 25,5 | 27 | 27,6 |
| 132 | 22,9 | 24,3 | 24,9 |
| 136 | 20,3 | 21,8 | 22,4 |
| 140 | 18,2 | 19,3 | 20,1 |
| 144 | 16,3 | 17,4 | 17,9 |
| 148 | 14,5 | 15,5 | 16,1 |
| 152 | | 13,7 | 14,3 |
| 156 | | | 12,5 |
| 160 | | | |

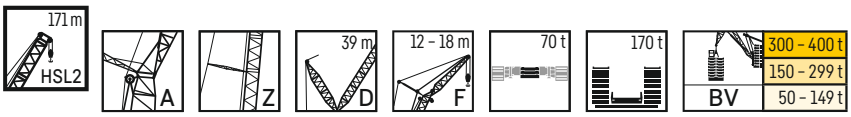
| HSL2 165 m F 12 m | HSL2 165 m F 15 m | HSL2 165 m F 18 m |
|---|---|---|
| 12° | | |
| 115 | | |
| 113 | 102 | 94,7 |
| 111 | 101 | 92,8 |
| 108 | 98,5 | 91 |
| 106 | 96,5 | 89,1 |
| 104 | 94,4 | 87,2 |
| 101 | 92,2 | 85,3 |
| 99 | 90,1 | 83,3 |
| 94,2 | 85,9 | 79,5 |
| 89,6 | 81,8 | 75,8 |
| 85,1 | 77,9 | 72,3 |
| 81,1 | 74,2 | 68,9 |
| 77,2 | 70,8 | 65,8 |
| 73,5 | 67,5 | 62,8 |
| 70,2 | 64,6 | 60 |
| 67 | 61,7 | 57,5 |
| 64,2 | 59,1 | 55 |
| 61,6 | 56,6 | 52,8 |
| 59 | 54,3 | 50,8 |
| 56,5 | 52,2 | 48,8 |
| 54,4 | 50,2 | 46,9 |
| 51,9 | 48,3 | 45,1 |
| 48,7 | 46,4 | 43,5 |
| 45 | 44,3 | 41,9 |
| 41,4 | 41,6 | 40,5 |
| 37,9 | 38,2 | 37,8 |
| 34,4 | 34,8 | 34,9 |
| 31,2 | 31,5 | 32 |
| 28,1 | 28,5 | 29,1 |
| 25,2 | 25,6 | 26,3 |
| 22,6 | 23 | 23,6 |
| 20,3 | 20,6 | 21,2 |
| 17,9 | 18,5 | 19,1 |
| 16 | 16,4 | 17 |
| 14,1 | 14,5 | 15,1 |
| 12,2 | 12,6 | 13,1 |
| | 10,7 | 11,2 |



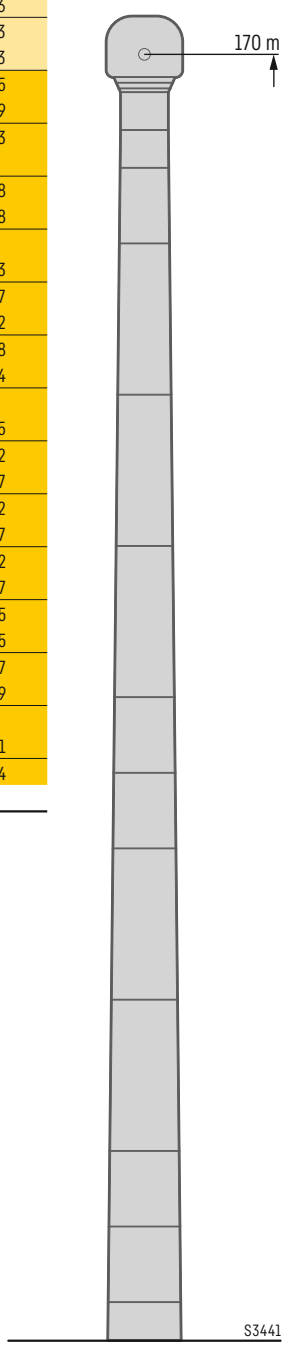

| m | HSL2 168 m F 12 m | HSL2 168 m F 15 m | HSL2 168 m F 18 m |
|---|---|---|---|
| | 12° | | |
| 26 | 106 | | |
| 28 | 105 | 96,3 | |
| 30 | 103 | 94,4 | 86,7 |
| 32 | 101 | 92,5 | 84,9 |
| 34 | 99,6 | 90,4 | 83 |
| 36 | 97,7 | 88,4 | 81,1 |
| 38 | 95,5 | 86,4 | 79,3 |
| 40 | 93,2 | 84,2 | 77,4 |
| 44 | 88,6 | 80,2 | 73,7 |
| 48 | 84,2 | 76,3 | 70,2 |
| 52 | 80 | 72,6 | 66,8 |
| 56 | 76,1 | 69,1 | 63,7 |
| 60 | 72,5 | 65,9 | 60,7 |
| 64 | 68,9 | 62,8 | 57,9 |
| 68 | 65,9 | 60 | 55,3 |
| 72 | 62,9 | 57,4 | 53 |
| 76 | 60,4 | 55 | 50,7 |
| 80 | 58 | 52,9 | 48,8 |
| 84 | 55,7 | 50,9 | 46,9 |
| 88 | 53,7 | 49 | 45,2 |
| 92 | 51,7 | 47,2 | 43,6 |
| 96 | 49,9 | 45,6 | 42 |
| 100 | 48 | 44,1 | 40,6 |
| 104 | 45,9 | 42,6 | 39,3 |
| 108 | 43,1 | 41,2 | 38,1 |
| 112 | 39,7 | 38,6 | 36,5 |
| 116 | 36,2 | 35,8 | 34,6 |
| 120 | 32,9 | 33,1 | 32,6 |
| 124 | 30 | 30,3 | 30,5 |
| 128 | 27,2 | 27,6 | 28,1 |
| 132 | 24,5 | 24,8 | 25,5 |
| 136 | 22,1 | 22,4 | 23 |
| 140 | 19,8 | 20,3 | 20,7 |
| 144 | 17,7 | 18,2 | 18,7 |
| 148 | 15,9 | 16,3 | 16,8 |
| 152 | 14,1 | 14,5 | 15 |
| 156 | 12,4 | 12,7 | 13,2 |
| 160 | | | 11,4 |



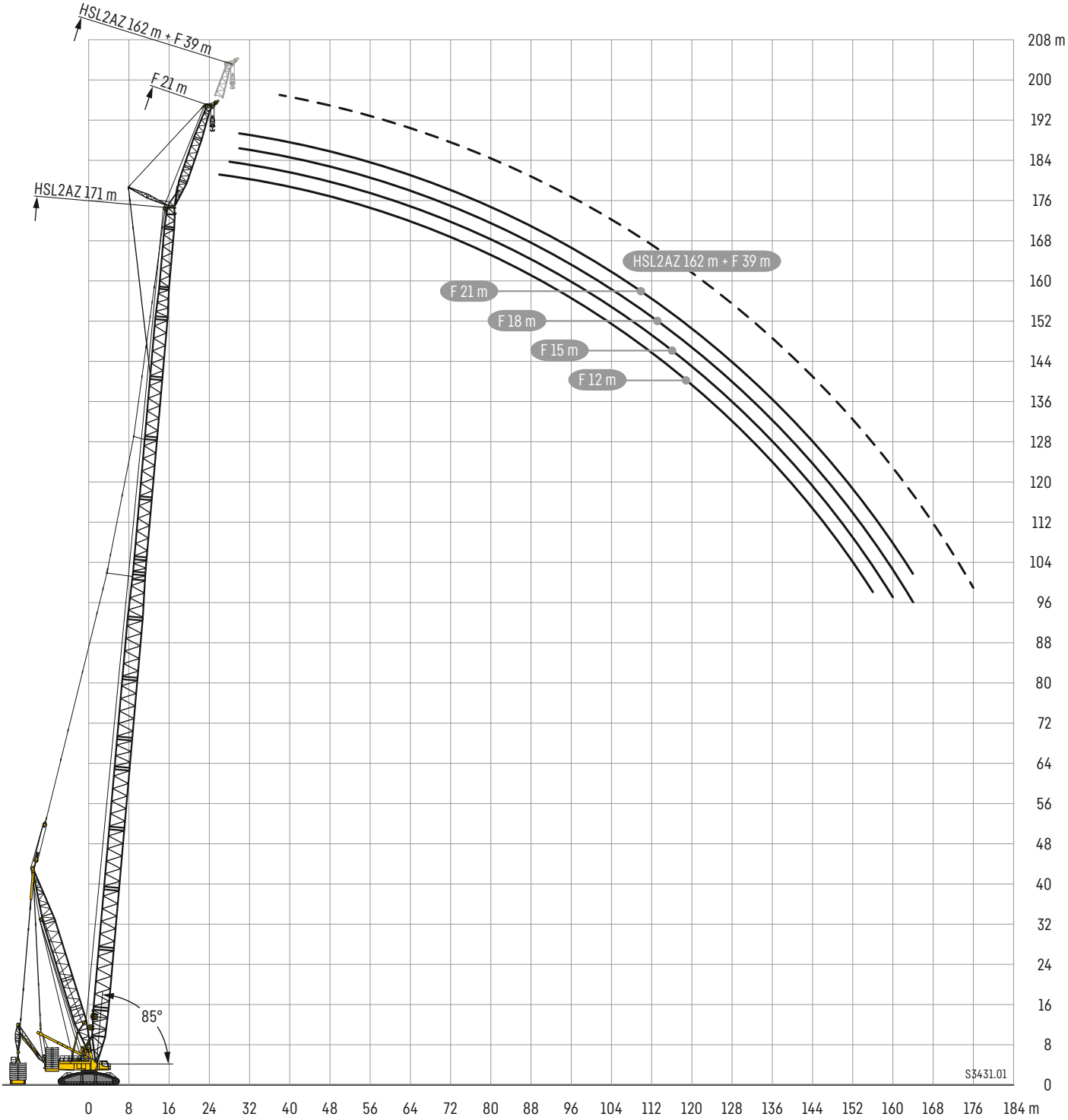
# HSL2AZDFBV
# HSL2 171




| m | HSL2 171 m | | |
|---|---|---|---|
| | F 12 m | F 15 m | F 18 m |
| | 12° | | |
| 26 | 102 | | |
| 28 | 101 | 93,3 | |
| 30 | 99,4 | 91,7 | 84,5 |
| 32 | 98 | 90,2 | 82,9 |
| 34 | 96,4 | 88,4 | 81,3 |
| 36 | 94,9 | 86,7 | 79,7 |
| 38 | 93,2 | 84,8 | 78 |
| 40 | 91,5 | 82,9 | 76,3 |
| 44 | 87,4 | 79,3 | 72,9 |
| 48 | 83,4 | 75,5 | 69,6 |
| 52 | 79,4 | 72,1 | 66,3 |
| 56 | 75,7 | 68,7 | 63,3 |
| 60 | 72,2 | 65,6 | 60,5 |
| 64 | 68,8 | 62,7 | 57,9 |
| 68 | 65,8 | 59,9 | 55,3 |
| 72 | 63 | 57,4 | 53 |
| 76 | 60,4 | 55 | 50,8 |
| 80 | 58,1 | 52,9 | 48,8 |
| 84 | 55,8 | 50,9 | 47 |
| 88 | 53,5 | 49,1 | 45,3 |
| 92 | 51,1 | 47,4 | 43,7 |
| 96 | 48,8 | 45,7 | 42,2 |
| 100 | 46,5 | 43,9 | 40,8 |
| 104 | 44,1 | 42,1 | 39,4 |
| 108 | 41,4 | 40,3 | 38 |
| 112 | 38,2 | 37,8 | 36,5 |
| 116 | 34,9 | 34,9 | 34,2 |
| 120 | 31,6 | 31,9 | 31,7 |
| 124 | 28,6 | 29 | 29,2 |
| 128 | 25,9 | 26,2 | 26,7 |
| 132 | 23,2 | 23,6 | 24,2 |
| 136 | 20,8 | 21,1 | 21,7 |
| 140 | 18,8 | 19 | 19,5 |
| 144 | 16,7 | 17,1 | 17,5 |
| 148 | 14,8 | 15,2 | 15,7 |
| 152 | 12,9 | 13,3 | 13,9 |
| 156 | 11 | 11,4 | 12 |
| 160 | | 9,6 | 10,1 |
| 164 | | | 8,4 |
| 168 | | | |



# HSL2AZDFBV


HSL2AZ 162 m + F 39 m
F 21 m
HSL2AZ 171 m
85°
HSL2AZ 162 m + F 39 m
F 21 m
F 18 m
F 15 m
F 12 m
208 m
200
192
184
176
168
160
152
144
136
128
120
112
104
96
88
80
72
64
56
48
40
32
24
16
8
0
0
8
16
24
32
40
48
56
64
72
80
88
96
104
112
120
128
136
144
152
160
168
176
184 m
S3431.01

# Symbolerklärung
## Description of symbols

Schmidbauer

| | |
|---|---|
| | **Max. Tragkraft**<br>Max. capacity |
| | **Maximale Länge Hauptausleger**<br>Max. boom length |
| | **Maximale Länge Auslegersystem**<br>Max. boom system length |
| | **Gegengewicht**<br>Counterweight |
| | **Zentralballast**<br>Central ballast |
| | **Breite Raupenfahrwerk**<br>Width crawler chassis |
| | **Hubwerk**<br>Hoist gear |
| | **Geschwindigkeiten**<br>Working speeds |
| | **Max. Seilzug**<br>Max. single line pull |
| | **Seildurchmesser**<br>Rope diameter |
| | **Seillänge**<br>Rope length |
| | **Drehgeschwindigkeiten**<br>Slewing speeds |
| | **Fahrgeschwindigkeit**<br>Driving speed |
| | **Traglast**<br>Load |
| | **Hakenflasche/Traglast**<br>Hookblock/Capacity |
| | **Gewicht**<br>Weight |

| | |
|---|---|
| | **Stränge**<br>No. of lines |
| | **Rollen**<br>No. of sheaves |
| | **Ausladung**<br>Radius |
| | **Hauptausleger SL**<br>Main boom SL |
| | **Hauptausleger HSL**<br>Main boom HSL |
| | **Hauptausleger S**<br>Main boom S |
| | **Hauptausleger HS**<br>Main boom HS |
| | **Derricksystem D**<br>Derrick system D |
| | **Wippbare Gitterspitze W**<br>Lattice type luffing fly jib W |
| | **Feste Gitterspitze F**<br>Fixed lattice jib F |
| | **Adapter A**<br>Adapter A |
| | **Zusatzabspannbock**<br>Additional guying support |
| | **Ballastpalette B**<br>Counterweight frame B |
| | **Schwebeballast V-frame**<br>Suspended ballast V-frame |
| | **Ballastwagen M-Wagon**<br>Counterweight trailer M-Wagon |

## Anmerkungen

| | |
|---|---|
| **1.** | Die Traglasttabellen sind berechnet nach EN 13000. |
| **2.** | Bei der Berechnung der Traglasttabellen ist mindestens eine Windgeschwindigkeit von 9 m/s (39,9 km/h) und bezüglich der Last eine Windfläche von 1 m² pro Tonne Last und ein Windwiderstandsbeiwert der Last von 1,2 berücksichtigt. Beim Heben von Lasten mit großer Windangriffsfläche und/oder hohen Windwiderstandsbeiwerten muss die in den Traglasttabellen angegebene max. Windgeschwindigkeit reduziert werden. |
| **3.** | Traglasten für Einsatz als Montagekran (entspricht Kraneinstufung nach ISO 4301-1, Krangruppe A1). |
| **4.** | Die Traglasten sind in Tonnen angegeben. |
| **5.** | Das Gewicht des Lasthakens bzw. der Hakenflasche ist Teil der Last und ist daher von den Traglasten abzuziehen. |
| **6.** | Die Ausladungen sind von der Drehmitte aus gemessen. |
| **7.** | Die Aufstandsfläche muß eben und tragfähig sein. |
| **8.** | Traglasténderungen vorbehalten. |
| **9.** | Die Daten dieser Broschüre dienen zur allgemeinen Information. Sämtliche Angaben erfolgen ohne Gewähr. Anweisungen zur ordnungsgemäßen Inbetriebnahme des Krans entnehmen Sie bitte der Betriebsanleitung und dem Traglasttabellenbuch. |
| **10.** | Die Abbildungen enthalten auch Zubehör und Sonderausstattungen, die nicht zum serienmäßigen Lieferumfang gehören. |

## Remarks

| | |
|---|---|
| **1.** | The load charts are calculated according to EN 13000. |
| **2.** | For the calculation of the load charts at least a wind speed of 9 m/s (39.9 km/h) and regarding the load a sail area of 1 m² per ton load and a wind resistance coefficient of 1.2 on the load have been taken into account. For lifting of loads with large sail areas and/or high wind resistance coefficients the maximum wind speed as stated in the load charts has to be reduced. |
| **3.** | The lifting capacities stated are valid for lifting operation only (corresponding with crane classification according to ISO 4301-1, crane group A1). |
| **4.** | Lifting capacities are given in metric tons. |
| **5.** | The weight of the hook blocks and hooks is part of the load and therefore it must be deducted from the lifting capacities. |
| **6.** | Working radii are measured from the slewing centre. |
| **7.** | The subsoil must be even and of good bearing capacity. |
| **8.** | Subject to modification of lifting capacities. |
| **9.** | The data of this brochure serves only for general information. All information is provided without warranty. Instructions for the correct commissioning of the crane please take from the operation manual and the load chart book. |
| **10.** | The pictures contain also accessories and special equipment not included in the standard scope of delivery. |

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