



# MDT 218

## product guide



### features

- Topless jib with maximum radius of 213 ft (65 m)
- Two versions: 8.8 USt (8 t) and 11 USt (10 t)
- 3,197 lb (1 450 kg) maximum tip capacity at 213 ft (65 m)
- Internal and External climbing with K mast
- K400 or K600 mast/pivot



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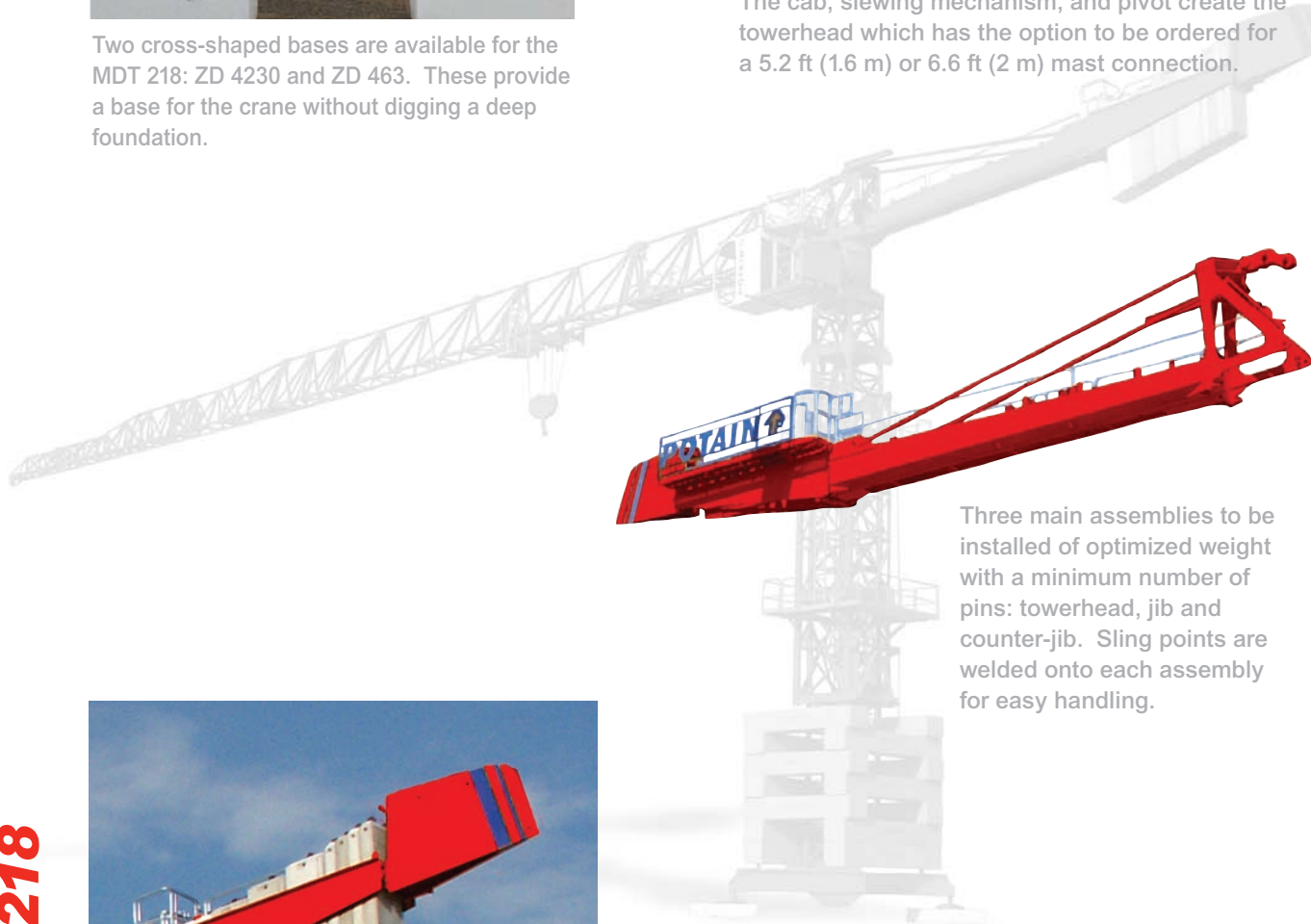
# features



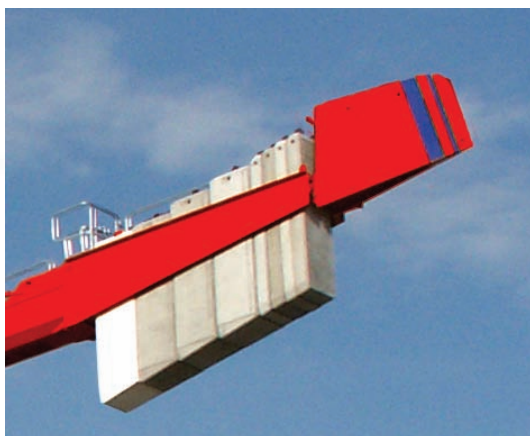
Two cross-shaped bases are available for the MDT 218: ZD 4230 and ZD 463. These provide a base for the crane without digging a deep foundation.



The cab, slewing mechanism, and pivot create the towerhead which has the option to be ordered for a 5.2 ft (1.6 m) or 6.6 ft (2 m) mast connection.



Three main assemblies to be installed of optimized weight with a minimum number of pins: towerhead, jib and counter-jib. Sling points are welded onto each assembly for easy handling.



The counter-jib ballast is common to most MDT City cranes for greater asset management of the topless tower cranes.

MDT 218

# specifications



## Jib

82 ft (25 m) radius standard lattice jib. Patented six (6) bar knot design and joints. Catwalks in first two (2) 33 ft (10 m) sections for maintenance and easy access to sling points for erection and dismantling. Mounted as whole wired jib with hoist rope and trolley rope installed. One pin and two (2) safety pins at connection point to counter-jib. Sling points welded on jib, \*lifting beam and \*slings optional with crane.



## \*Jib Extensions

Optional base jib length of 98 ft (30 m). Optional jib lengths start at 90.2 ft (27.5 m) for standard jib with 8.2 ft (2.5 m) insert. Additional jib sections of 16.4 ft (5 m) available up to maximum jib length of 213.3 ft (65 m).



## Counter-Jib

Patented design in one compact package. Two (2) pins at connection point to turntable. Inclined position of ballast holder ensures self-locking of ballast blocks. Welded sling points.



## Counter-Jib Ballast (customer supplied)

Two (2) concrete block styles for various ballasting combinations according to jib length: 2,425 lb (1 100 kg) and 7,937 lb (3 600 kg). Blocks are designed for safe and easy placement on the ground during erection and dismantling. Blocks are common to the MDT City range.



## \*Cab

140C and 140S Vision cabs include heating, window vent, tinted glass, windshield wipers, sun visor, document case, side pocket, bottle holder, ergonomic seat with high back, adjustable armrests, height and seating with control units, front-to-back shifting and reclining back.

140C: 4.6 ft (1,400 mm) width, 7.2 ft (2,200 mm) height, and 5.3 ft (1,620 mm) depth.

140S: 4.6 ft (1,400 mm) width, 7.2 ft (2,200 mm) height, and 7.2 ft (2,180 mm) depth; air conditioning optional.



## Controls

Dual axis joystick controls via umbilical cord at ground level.

\*Remote control with dual axis joysticks or in cab controls at seat available.



## Reeving

SM for 2-part line application standard. \*Optional 2-trolley or SM/DM (semi-automatic) hookblock for 2 or 4-part line applications.



## Electrical Requirement

480 volt, 60 Hz measured at the turntable.



## \*Anemometer & \*Dialog Visu

Electronic wind speed meter (anemometer) to alert the operator of wind speed conditions. Requires \*Dialog Visu to display information. Crane can be operated with wind gusts up to 45 MPH (72 KPH). \*Dialog Visu displays height under hook, position of jib trolley, loads and overload moment, and wind speed.

\* Denotes optional equipment specifications



## Swing

RVF 152 Optima + slewing mechanism with maximum swing speed of 0.8 RPM. Progressive control of speed with counter-slewing possible, anti-load swinging system makes aligning the load and jib easier.



## Hoist

Grooved drum with electromagnetic safety brake. Progressive speed change according to the accelerating or decelerating ramps. Optima allows the hoist to adapt its speed to the weight of the load.

MDT 218 J8:

|                   | 33 LVF 20 Optima      | *50 LVF 20 Optima      | *50 LVF 20 GH          |
|-------------------|-----------------------|------------------------|------------------------|
| Optima            |                       |                        |                        |
| Single Line Pull: | 2.2 USt (2 t)         | 2.2 USt (2 t)          | 2.2 USt (2 t)          |
| Line speed:       | 243 ft/min (74 m/min) | 400 ft/min (122 m/min) | 374 ft/min (114 m/min) |
| Horse Power:      | 30 HP                 | 50 HP                  | 50 HP                  |
| Spooling          |                       |                        |                        |
| Capacity:         | 951 ft (290 m)        | 1,191 ft (363 m)       | 1,985 ft (605 m)       |

MDT 218 J10:

|                   | 50 LVF 25 Optima       | *50 LVF 25 GH Optima   |
|-------------------|------------------------|------------------------|
| Single Line Pull: | 2.8 USt (2.5 t)        | 2.8 USt (2.5 t)        |
| Line speed:       | 328 ft/min (100 m/min) | 328 ft/min (100 m/min) |
| Horse Power:      | 50 HP                  | 50 HP                  |
| Spooling          |                        |                        |
| Capacity:         | 912 ft (278 m)         | 1,690 ft (515 m)       |

Specification of quantity of hoist rope is dependent upon customer's requirements and mast height.



## Trolley

7 DVF 4: 6.5 HP variable frequency hoist with 882 lb (400 kg) line pull and line speed of 259 ft/min (79 m/min). Progressive speed change according to acceleration or deceleration ramps controlled by the frequency converter.

## \* Optional Equipment

\* STANDARD NORTH AMERICAN SPECIFICATION for J8: includes electric slip ring, 213 ft (65 m) jib, mounting accessories (slings), 50 LVF 20 Optima hoist, heating mechanism for hoist, 2-trolley hookblock, 787 ft (240 m) hoist rope, Vision 140S cab with insulation, Dialog Visu, and anemometer.

- \* Electric slip ring
- \* Jib radius 82 – 205 ft (25 – 65 m)
- \* 2-Trolley hookblock
- \* SM/DM (semi-automatic) hookblock
- \* Dialog Visu
- \* Cab air conditioning
- \* Motorized greasing

Consult price list for additional options

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MDT 218

NOTE: The information above is useful as a basic introduction to the crane. In no case may this serve as a substitute for the serial numbered manuals. Dimensions have been rounded to the nearest tenth.

# specifications

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## \* Mast

K mast in sizes of K400 (5.2 ft [1.6 m]) or K600 (6.6 ft [2 m]), panel or monoblock, and climbing or non-climbing available. Lengths of 10.9 ft (3.33 m), 16.4 ft (5 m), and 32.8 ft (10 m) available. Identification plates welded on each section to designate the type of mast and pin box to stow pins when not in use.

Mast nomenclature:

K – Series of mast with box angled members

M – Monoblock, non climbing

R – Reinforced

MT – Monoblock & climbing

RMT – Reinforced, monoblock, climbing

Equipped with aluminum ladders and galvanized steel resting platforms in each section. Cast connections are secured with two double tapered pins.

\*Tirax tool and \*Tirax pins available for faster easier assembly.

Combinations of masts can allow free-standing HUH to increase.



## \* Climbing Equipment

Equipment available for both internal climbing and external climbing of both 5.2 ft (1.6 m) and 6.6 ft (2 m) mast. Internal climbing equipment sold separately: 20 HP hydraulic unit, jack, and collars. External climbing equipment sold separately: climbing cage, 20 HP hydraulic unit, yoke, and jack.



## \* Anchor Stools

Anchor stools to be used in combination with a concrete foundation.

Anchors P41A: permanent anchor, maximum free-standing HUH: 175.5 ft (53.5 m) on 5.2 ft (1.6 m) K mast.

Anchors P61A: permanent anchor, maximum free-standing HUH: 213.6 ft (65.1 m) on 6.6 ft (2 m) K mast.



## \* Chassis

Chassis available with square footprints of 14.8 ft (4.5 m) for K400 mast and 19.7 ft (6 m) for K600 mast. Composed of 2 metallic structures connected with a central mast-chassis and 4 struts for rigidity. A chassis can be placed on either straight or curved traveling equipment or metallic stools embedded into a concrete block.

Chassis S41A: square footprint of 5.2 ft (1.6 m), maximum free-standing HUH: 182.7 ft (55.7 m) on 5.2 ft (1.6 m) K mast.

Chassis V60A: square footprint of 6.6 ft (2 m), maximum free-standing HUH: 213.9 ft (65.2 m) on 6.6 ft (2 m) K mast.



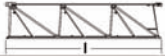
## \* Cross shaped base

Cross shaped bases available with square footprint of 14.8 ft (4.5 m). Composed of 2 beams and able to be placed on screw jacks with support plates, screw jacks with concrete blocks or traveling equipment.

Cross ZD 4230: square footprint of 14.8 ft (4.5 m), maximum free-standing HUH: 156.5 ft (47.7 m) on 5.2 ft (1.6 m) K mast.

Cross ZD 463: square footprint of 14.8 ft (4.5 m), maximum free-standing HUH 168.3 ft (51.3 m) on 5.2 ft (1.6 m) K mast.

\* Consult price list for additional options

| Component Weights |      |                                                    |                                                                                     |                 |                |                |                      |
|-------------------|------|----------------------------------------------------|-------------------------------------------------------------------------------------|-----------------|----------------|----------------|----------------------|
| Item              | Qty. |                                                    |                                                                                     | l<br>ft<br>(m)  | w<br>ft<br>(m) | h<br>ft<br>(m) | weight<br>lb<br>(kg) |
| 1                 | 1    | Towerhead 1.6 m<br>Cab V140S in transport position |  | 16.4<br>(5.0)   | 7.9<br>(2.42)  | 9.0<br>(2.75)  | 13,911<br>(6 310)    |
| 2                 | 1    | Counter-jib<br>Transport position                  |  | 36.7<br>(11.18) | 5.0<br>(1.53)  | 8.3<br>(2.53)  | 13,095<br>(5 940)    |
| 3                 | 1    | Hoist 50 LVF 20 Optima<br>Hoist 50 LVF 25 Optima   |  | 4.9<br>(1.5)    | 3.1<br>(0.96)  | 3.0<br>(0.92)  | 1,918<br>(870)       |
| 4                 | 1    | Jib foot (A3351)                                   |  | 35.8<br>(10.91) | 9.6<br>(2.93)  | 8.6<br>(2.61)  | 6,812<br>(3 090)     |
| 5                 | 1    | Jib sections                                       |  | 33.7<br>(10.26) | 3.4<br>(1.05)  | 7.9<br>(2.4)   | 3,571<br>(1 620)     |
|                   | 1    |                                                    |  | 33.6<br>(10.23) | 3.4<br>(1.05)  | 7.7<br>(2.35)  | 2,712<br>(1 230)     |
|                   | 1    |                                                    |  | 17.0<br>(5.19)  | 3.4<br>(1.05)  | 7.6<br>(2.33)  | 1,323<br>(600)       |
|                   | 1    |                                                    |  | 17.0<br>(5.18)  | 3.4<br>(1.05)  | 7.6<br>(2.32)  | 1,058<br>(480)       |
|                   | 1    |                                                    |  | 17.0<br>(5.18)  | 3.4<br>(1.05)  | 6.2<br>(1.9)   | 860<br>(390)         |

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# component weights

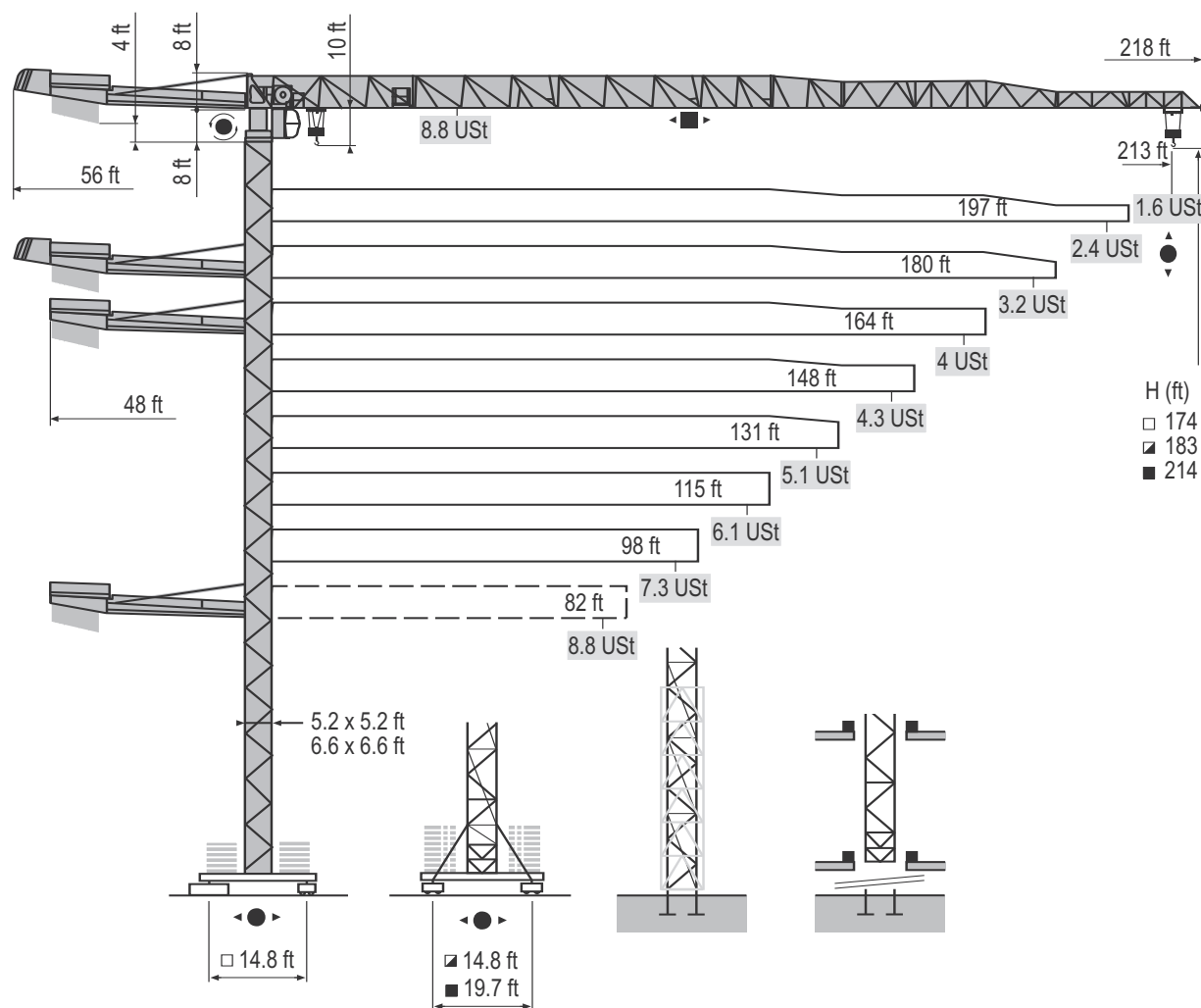
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| Component Weights (continued) |   |                                   |  |                 |               |               |                   |
|-------------------------------|---|-----------------------------------|--|-----------------|---------------|---------------|-------------------|
|                               | 1 |                                   |  | 17.0<br>(5.17)  | 3.4<br>(1.05) | 6.2<br>(1.9)  | 761<br>(345)      |
|                               | 1 |                                   |  | 17.0<br>(5.17)  | 3.4<br>(1.05) | 6.2<br>(1.88) | 661<br>(300)      |
|                               | 1 |                                   |  | 17.0<br>(5.17)  | 3.4<br>(1.05) | 3.8<br>(1.17) | 529<br>(240)      |
|                               | 1 |                                   |  | 16.7<br>(5.1)   | 3.4<br>(1.05) | 3.8<br>(1.17) | 441<br>(200)      |
| 6                             | 1 | Jib section 8.2 ft (2.5 m)        |  | 9.0<br>(2.75)   | 3.4<br>(1.05) | 7.7<br>(2.36) | 849<br>(385)      |
| 7                             | 1 | Jib nose                          |  | 16.7<br>(5.1)   | 4.0<br>(1.21) | 3.8<br>(1.17) | 187<br>(85)       |
| 8                             | 1 | Jib trolley SM/DM                 |  | 5.9<br>(1.8)    | 4.4<br>(1.35) | 3.1<br>(0.96) | 362<br>(164)      |
|                               | 1 | Hookblock SM/DM                   |  | 3.3<br>(1.02)   | 1.4<br>(0.42) | 6.6<br>(2.0)  | 441<br>(200)      |
| 9                             | 1 | Jib trolley 1C/2C                 |  | 5.4<br>(1.64)   | 4.3<br>(1.31) | 3.0<br>(0.9)  | 362<br>(164)      |
|                               | 1 | Jib trolley 1C/2C                 |  | 5.2<br>(1.60)   | 4.3<br>(1.31) | 3.0<br>(0.9)  | 353<br>(160)      |
|                               | 1 | Hookblock 1C/2C                   |  | 5.4<br>(1.65)   | 0.8<br>(0.25) | 5.6<br>(1.71) | 675<br>(306)      |
| 10                            | 1 | Mast section K437E                |  | 33.5<br>(10.2)  | 5.6<br>(1.7)  | 5.2<br>(1.6)  | 7,474<br>(3 390)  |
| 11                            |   | Mast section K439A                |  | 17.1<br>(5.2)   | 5.6<br>(1.7)  | 5.2<br>(1.6)  | 4,916<br>(2 230)  |
| 12                            | 1 | Mast section K437C                |  | 11.5<br>(3.5)   | 5.6<br>(1.7)  | 5.2<br>(1.6)  | 2,998<br>(1 360)  |
| 13                            | 1 | Mast section K637E                |  | 33.8<br>(10.29) | 6.7<br>(2.03) | 6.7<br>(2.03) | 10,284<br>(4 665) |
| 14                            | 1 | Mast section K639A                |  | 17.2<br>(5.23)  | 6.7<br>(2.03) | 6.7<br>(2.03) | 6,184<br>(2 805)  |
| 15                            | 1 | Mast section K639C                |  | 11.7<br>(3.57)  | 6.8<br>(2.07) | 6.7<br>(2.03) | 4,376<br>(1 985)  |
| 16                            | 1 | Fixing angle P41A                 |  | 1.2<br>(0.4)    | 1.2<br>(0.4)  | 3.7<br>(1.1)  | 293<br>(133)      |
| 17                            | 1 | Fixing angle P60US                |  | 2.0<br>(0.61)   | 2.0<br>(0.61) | 4.6<br>(1.4)  | 9,750<br>(499)    |
| 18                            | 1 | Cross shaped base: ZD4230 (4.5 m) |  | 21.7<br>(6.6)   | 2.6<br>(0.8)  | 3.6<br>(1.1)  | 4,034<br>(1 830)  |
|                               | 1 |                                   |  | 21.7<br>(6.6)   | 1.6<br>(0.5)  | 4.3<br>(1.3)  | 4,707<br>(2 135)  |
| 19                            | 1 | Cross shaped base: ZD 463         |  | 25.1<br>(7.65)  | 3.8<br>(1.17) | 4.5<br>(1.36) | 7,903<br>(3 585)  |
|                               | 1 |                                   |  | 11.2<br>(3.41)  | 2.3<br>(0.7)  | 4.4<br>(1.35) | 3,649<br>(1 655)  |
|                               | 1 |                                   |  | 11.2<br>(3.41)  | 2.3<br>(0.7)  | 4.4<br>(1.35) | 3,682<br>(1 670)  |

# dimensions

## MDT 218 J8

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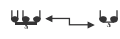
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THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

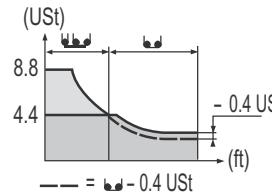
# load charts

## MDT 218 J8

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|                                                                                     |        |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-------------------------------------------------------------------------------------|--------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|    | 213 ft | 10 ▶ | 49  | 49  | 56  | 66  | 72  | 87  | 94  | 98  | 105 | 115 | 121 | 131 | 138 | 148 | 154 | 164 | 171 | 180 | 187 | 197 | 203 | 213 | ft  |
|    |        |      | 8.8 | 8.7 | 7.5 | 6.2 | 5.5 | 4.4 | 4.4 | 4.2 | 3.9 | 3.4 | 3.3 | 3   | 2.8 | 2.6 | 2.4 | 2.3 | 2.1 | 2   | 1.9 | 1.8 | 1.7 | 1.6 | USt |
|                                                                                     | 197 ft | 10 ▶ |     |     | 62  | 66  | 72  | 82  | 89  | 98  | 105 | 111 | 119 | 131 | 138 | 148 | 154 | 164 | 171 | 180 | 187 | 197 | ft  |     |     |
|    |        |      |     |     | 8.8 | 8.3 | 7.4 | 6.3 | 5.7 | 5.1 | 4.7 | 4.4 | 4.4 | 4   | 3.7 | 3.4 | 3.3 | 3   | 2.9 | 2.7 | 2.6 | 2.4 | USt |     |     |
|                                                                                     | 180 ft | 10 ▶ |     |     |     | 71  | 72  | 82  | 89  | 98  | 105 | 115 | 121 | 127 | 137 | 148 | 154 | 164 | 171 | 180 | ft  |     |     |     |     |
|    |        |      |     |     |     | 8.8 | 8.6 | 7.5 | 6.8 | 6.1 | 5.6 | 5   | 4.6 | 4.4 | 4.4 | 4.1 | 3.9 | 3.5 | 3.4 | 3.2 | USt |     |     |     |     |
|                                                                                     | 164 ft | 10 ▶ |     |     |     |     | 77  | 82  | 89  | 98  | 105 | 115 | 121 | 131 | 139 | 150 | 154 | 164 | ft  |     |     |     |     |     |     |
|    |        |      |     |     |     |     | 8.8 | 8.3 | 7.5 | 6.7 | 6.2 | 5.6 | 5.2 | 4.7 | 4.4 | 4.4 | 4.3 | 4   | USt |     |     |     |     |     |     |
|                                                                                     | 148 ft | 10 ▶ |     |     |     |     |     | 75  | 82  | 89  | 98  | 105 | 115 | 121 | 135 | 144 | 148 | ft  |     |     |     |     |     |     |     |
|    |        |      |     |     |     |     |     | 8.8 | 7.9 | 7.3 | 6.4 | 6   | 5.3 | 5   | 4.4 | 4.4 | 4.3 | USt |     |     |     |     |     |     |     |
|                                                                                     | 131 ft | 10 ▶ |     |     |     |     |     |     | 82  | 89  | 98  | 105 | 115 | 121 | 131 | ft  |     |     |     |     |     |     |     |     |     |
|    |        |      |     |     |     |     |     |     | 8.8 | 8   | 7.2 | 6.6 | 6   | 5.5 | 5.1 | USt |     |     |     |     |     |     |     |     |     |
|                                                                                     | 115 ft | 10 ▶ |     |     |     |     |     |     | 83  | 89  | 98  | 105 | 115 | ft  |     |     |     |     |     |     |     |     |     |     |     |
|    |        |      |     |     |     |     |     |     | 8.8 | 8.2 | 7.3 | 6.7 | 6.1 | USt |     |     |     |     |     |     |     |     |     |     |     |
|                                                                                     | 98 ft  | 10 ▶ |     |     |     |     |     |     | 83  | 89  | 98  | ft  |     |     |     |     |     |     |     |     |     |     |     |     |     |
|    |        |      |     |     |     |     |     |     | 8.8 | 8.2 | 7.3 | USt |     |     |     |     |     |     |     |     |     |     |     |     |     |
|                                                                                     | 82 ft  | 10 ▶ |     |     |     |     |     |     | 82  | ft  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|  |        |      |     |     |     |     |     |     | 8.8 | USt |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

(USt)

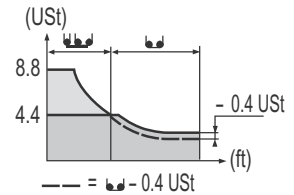


8.8

4.4

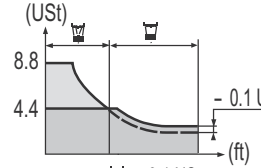
— =  - 0.4 USt

(ft)



|                                                                                     |   |   |                                                                                     |        |   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-------------------------------------------------------------------------------------|---|---|-------------------------------------------------------------------------------------|--------|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|  | ← | → |  | 213 ft | 8 | ▶ | 50  | 56  | 66  | 72  | 82  | 89  | 91  | 98  | 105 | 115 | 121 | 131 | 138 | 148 | 154 | 164 | 171 | 180 | 187 | 197 | 203 | 213 | ft  |
|  |   |   |                                                                                     |        |   |   | 8.8 | 7.7 | 6.4 | 5.7 | 4.9 | 4.4 | 4.4 | 4   | 3.7 | 3.3 | 3.1 | 2.8 | 2.6 | 2.4 | 2.3 | 2.1 | 2   | 1.8 | 1.8 | 1.6 | 1.5 | 1.4 | USt |
|                                                                                     |   |   |                                                                                     | 197 ft | 8 | ▶ |     | 63  | 66  | 72  | 82  | 89  | 98  | 105 | 113 | 115 | 121 | 131 | 138 | 148 | 154 | 164 | 171 | 180 | 187 | 197 | ft  |     |     |
|  |   |   |                                                                                     |        |   |   | 8.8 | 8.4 | 7.5 | 6.5 | 6   | 5.2 | 4.9 | 4.4 | 4.4 | 4.2 | 3.7 | 3.5 | 3.3 | 3.1 | 2.9 | 2.7 | 2.5 | 2.4 | 2.3 | USt |     |     |     |
|                                                                                     |   |   |                                                                                     | 180 ft | 8 | ▶ |     |     | 72  | 72  | 82  | 89  | 98  | 105 | 115 | 121 | 130 | 133 | 138 | 148 | 154 | 164 | 171 | 180 | ft  |     |     |     |     |
|  |   |   |                                                                                     |        |   |   | 8.8 | 8.7 | 7.6 | 6.9 | 6.2 | 5.7 | 5.1 | 4.7 | 4.4 | 4.4 | 4.2 | 3.9 | 3.6 | 3.4 | 3.3 | 3   | USt |     |     |     |     |     |     |
|                                                                                     |   |   |                                                                                     | 164 ft | 8 | ▶ |     |     |     | 78  | 82  | 89  | 98  | 105 | 115 | 121 | 131 | 142 | 145 | 148 | 154 | 164 | ft  |     |     |     |     |     |     |
|  |   |   |                                                                                     |        |   |   | 8.8 | 8.4 | 7.7 | 6.8 | 6.3 | 5.7 | 5.3 | 4.9 | 4.4 | 4.4 | 4.3 | 4.1 | 3.8 | USt |     |     |     |     |     |     |     |     |     |
|                                                                                     |   |   |                                                                                     | 148 ft | 8 | ▶ |     |     |     |     | 81  | 82  | 89  | 98  | 105 | 115 | 121 | 131 | 138 | 148 | ft  |     |     |     |     |     |     |     |     |
|  |   |   |                                                                                     |        |   |   | 8.8 | 8.7 | 8   | 7.1 | 6.6 | 6   | 5.6 | 5.1 | 4.7 | 4.4 | USt |     |     |     |     |     |     |     |     |     |     |     |     |
|                                                                                     |   |   |                                                                                     | 131 ft | 8 | ▶ |     |     |     |     | 83  | 89  | 98  | 105 | 115 | 121 | 131 | ft  |     |     |     |     |     |     |     |     |     |     |     |
|  |   |   |                                                                                     |        |   |   | 8.8 | 8.2 | 7.3 | 6.7 | 6.1 | 5.7 | 5.2 | USt |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|                                                                                     |   |   |                                                                                     | 115 ft | 8 | ▶ |     |     |     |     | 84  | 89  | 98  | 105 | 115 | ft  |     |     |     |     |     |     |     |     |     |     |     |     |     |
|  |   |   |                                                                                     |        |   |   | 8.8 | 8.3 | 7.4 | 6.8 | 6.2 | USt |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|                                                                                     |   |   |                                                                                     | 98 ft  | 8 | ▶ |     |     |     |     | 84  | 89  | 98  | ft  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|  |   |   |                                                                                     |        |   |   | 8.8 | 8.4 | 7.4 | USt |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|                                                                                     |   |   |                                                                                     | 82 ft  | 8 | ▶ |     |     |     |     | 82  | ft  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|  |   |   |                                                                                     |        |   |   | 8.8 | USt |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

(USt)



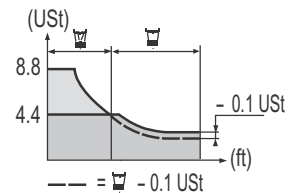
8.8

4.4

0.1 USt

(ft)

--- =  - 0.1 USt

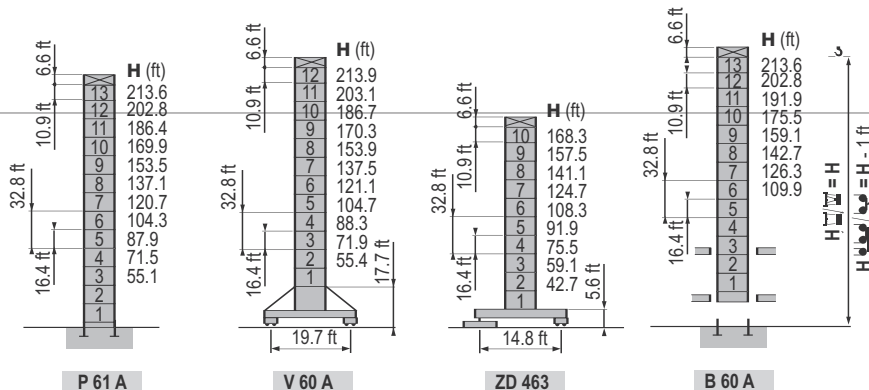
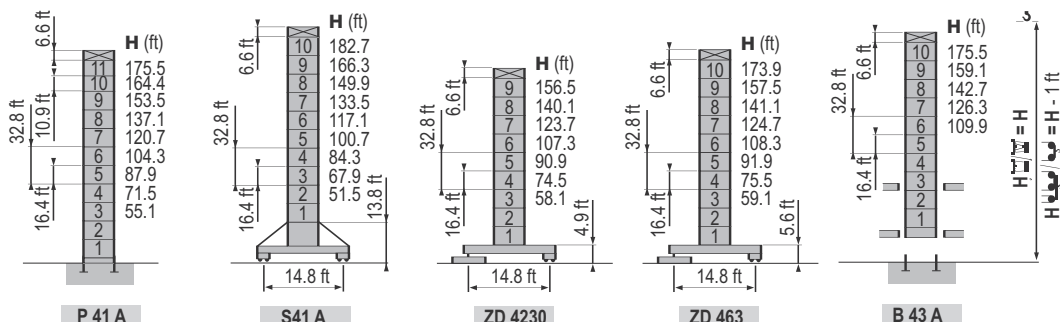


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# mast & mechanisms

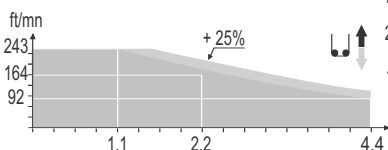
## MDT 218 J8

8

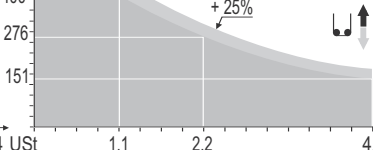


|                                                                                            |                             |                       |           |     |     |     |     |     |     |     |  |     |     |     |  |  | ch - PS<br>hp | kW      |  |
|--------------------------------------------------------------------------------------------|-----------------------------|-----------------------|----------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|---------------------------------------------------------------------------------------|-----|-----|-----|--|--|---------------|---------|---------------------------------------------------------------------------------------|
|         | 33 LVF 20<br>Optima         | ft/min                | 7 → 29 → 92 → 118 → 164 → 243                                                                |     |     |     |     |     |     |     | 4 → 14 → 46 → 59 → 82 → 121                                                           |     |     |     |  |  | 30            | 22      | 951 ft                                                                                |
|                                                                                            |                             | USt                   | 4.4                                                                                          | 4.4 | 4.4 | 3.3 | 2.2 | 1.1 | 8.8 | 8.8 | 8.8                                                                                   | 6.6 | 4.4 | 2.2 |  |  |               |         |                                                                                       |
|                                                                                            | 50 LVF 20<br>Optima         | ft/min                | 12 → 49 → 151 → 190 → 276 → 400                                                              |     |     |     |     |     |     |     | 6 → 25 → 75 → 95 → 138 → 200                                                          |     |     |     |  |  | 50            | 37      | 1,191 ft                                                                              |
|                                                                                            |                             | USt                   | 4.4                                                                                          | 4.4 | 4.4 | 3.3 | 2.2 | 1.1 | 8.8 | 8.8 | 8.8                                                                                   | 6.6 | 4.4 | 2.2 |  |  |               |         |                                                                                       |
|         | 50 LVF 20<br>GH Optima      | ft/min                | 12 → 46 → 138 → 184 → 276 → 374                                                              |     |     |     |     |     |     |     | 6 → 23 → 69 → 92 → 138 → 187                                                          |     |     |     |  |  | 50            | 37      | 1,985 ft                                                                              |
|                                                                                            |                             | USt                   | 4.4                                                                                          | 4.4 | 4.4 | 3.3 | 2.2 | 1.1 | 8.8 | 8.8 | 8.8                                                                                   | 6.6 | 4.4 | 2.2 |  |  |               |         |                                                                                       |
|         | 7 DVF 4                     | ft/min                | 0 → 259                                                                                      |     |     |     |     |     |     |     |                                                                                       |     |     |     |  |  | 6,5           | 4,8     |                                                                                       |
|         | RVF 152<br>Optima +         | tr/min<br>U/min - rpm | 0 → 0.8                                                                                      |     |     |     |     |     |     |     |                                                                                       |     |     |     |  |  | 2 x 5,5       | 2 x 4   |                                                                                       |
|         | RT 324                      | ft/min                | 41 - 82                                                                                      |     |     |     |     |     |     |     |                                                                                       |     |     |     |  |  | 2 x 7         | 2 x 5,2 |                                                                                       |
|         | RT 443<br>A1 2V             | ft/min                | 49 - 98                                                                                      |     |     |     |     |     |     |     |                                                                                       |     |     |     |  |  | 4 x 5         | 4 x 3,7 |                                                                                       |
|         | RT 443<br>A1 2V<br>R ≥ 10 m | ft/min                | 49 - 98                                                                                      |     |     |     |     |     |     |     |                                                                                       |     |     |     |  |  | 4 x 5         | 4 x 3,7 |                                                                                       |
|         | RT 544<br>A1 2V<br>R ≥ 13 m | ft/min                | 44 - 89                                                                                      |     |     |     |     |     |     |     |                                                                                       |     |     |     |  |  | 4 x 7         | 4 x 5,2 |                                                                                       |
| CEI 38  |                             |                       | IEC 38  |     |     |     |     |     |     |     |                                                                                       |     |     |     |  |  |               |         |                                                                                       |
| 400 V (+6% -10%)                                                                           |                             |                       | 33 LVF : 50 kVA 50 LVF : 65 kVA                                                              |     |     |     |     |     |     |     |                                                                                       |     |     |     |  |  |               |         |                                                                                       |

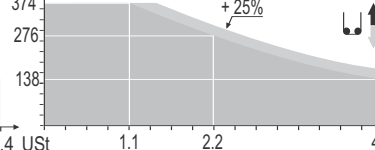
33 LVF 20 Optima



50 LVF 20 Optima



50 LVF 20 GH Optima



NOTE: Illustrated hook heights on this page were determined using FEM 1.001. Configurations shown may include optional equipment. Other codes may require reductions in configurations.

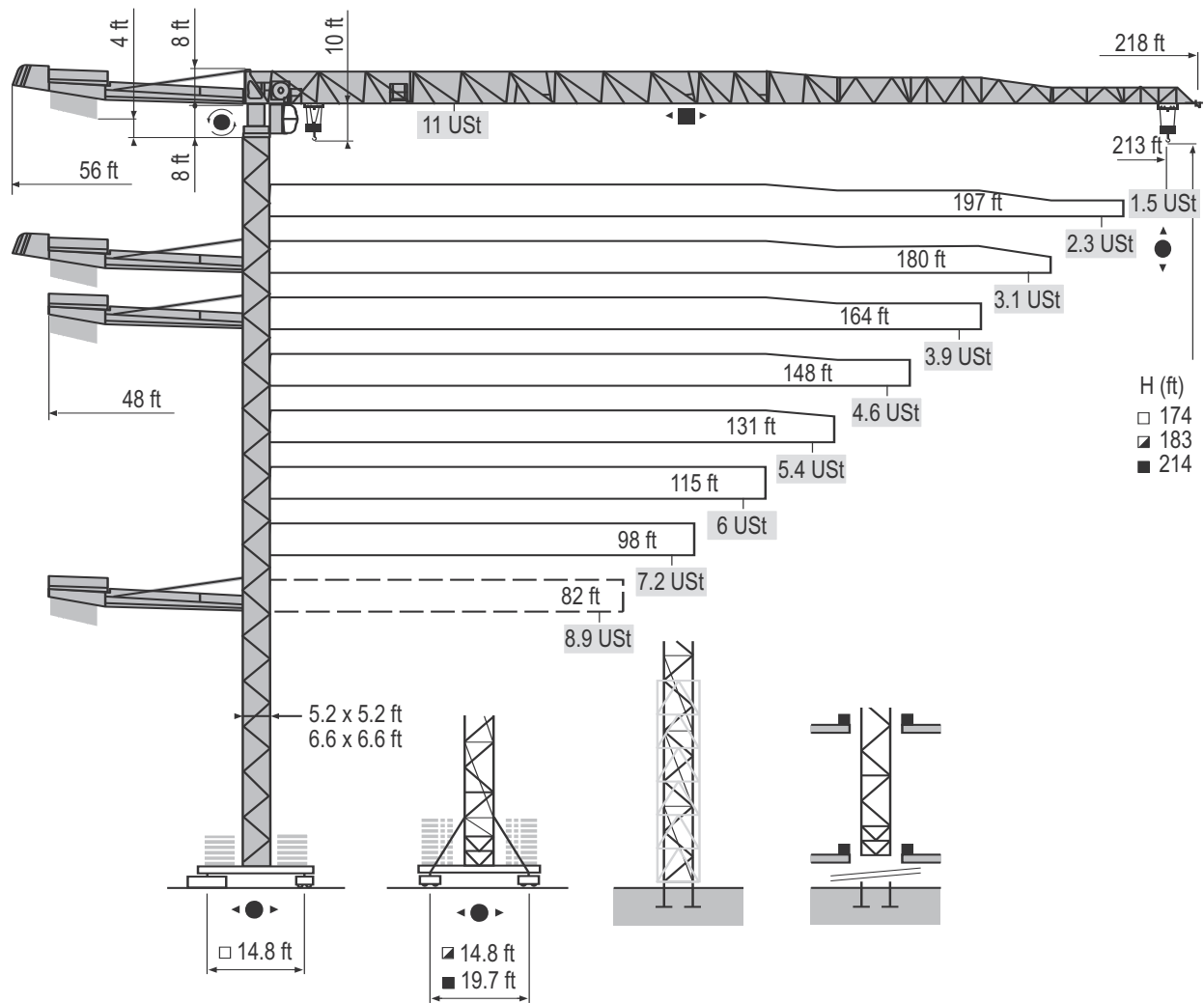
MDT 218



# dimensions

## MDT 218 J10

9



THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

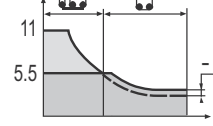
# load charts

## MDT 218 J10

10

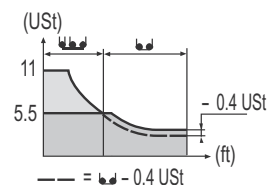
|                                                                                   |        |    |   |    |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----------------------------------------------------------------------------------|--------|----|---|----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|  | 213 ft | 10 | ▶ | 40 | 49  | 56   | 66  | 71  | 76  | 82  | 89  | 98  | 105 | 115 | 121 | 131 | 138 | 148 | 154 | 164 | 171 | 180 | 187 | 197 | 203 | 213 | ft  |
|  |        |    |   | 11 | 8.5 | 7.4  | 6.1 | 5.5 | 5.5 | 5.1 | 4.6 | 4.1 | 3.7 | 3.3 | 3.1 | 2.9 | 2.7 | 2.5 | 2.3 | 2.1 | 2   | 1.9 | 1.8 | 1.7 | 1.6 | 1.5 | USt |
|  | 197 ft | 10 | ▶ |    |     | 50   | 56  | 66  | 72  | 82  | 90  | 96  | 105 | 115 | 121 | 131 | 138 | 148 | 154 | 164 | 171 | 180 | 187 | 197 | ft  |     |     |
|  |        |    |   |    | 11  | 9.7  | 8   | 7.2 | 6.2 | 5.5 | 5.5 | 5   | 4.5 | 4.2 | 3.9 | 3.6 | 3.3 | 3.1 | 2.9 | 2.8 | 2.6 | 2.5 | 2.3 | USt |     |     |     |
|  | 180 ft | 10 | ▶ |    |     | 58   | 66  | 72  | 82  | 89  | 98  | 104 | 111 | 115 | 121 | 131 | 138 | 148 | 154 | 164 | 171 | 180 | ft  |     |     |     |     |
|  |        |    |   |    | 11  | 9.5  | 8.5 | 7.4 | 6.7 | 6   | 5.5 | 5.5 | 5.3 | 5   | 4.5 | 4.3 | 4   | 3.7 | 3.5 | 3.3 | 3.1 | USt |     |     |     |     |     |
|  | 164 ft | 10 | ▶ |    |     | 63   | 66  | 72  | 82  | 89  | 98  | 105 | 114 | 122 | 131 | 138 | 148 | 154 | 164 | ft  |     |     |     |     |     |     |     |
|  |        |    |   |    | 11  | 10.5 | 9.5 | 8.2 | 7.4 | 6.6 | 6.1 | 5.5 | 5.5 | 5.1 | 4.7 | 4.4 | 4.2 | 3.9 | USt |     |     |     |     |     |     |     |     |
|  | 148 ft | 10 | ▶ |    |     | 65   | 72  | 82  | 89  | 98  | 105 | 115 | 118 | 127 | 131 | 138 | 148 | ft  |     |     |     |     |     |     |     |     |     |
|  |        |    |   |    | 11  | 9.8  | 8.5 | 7.8 | 6.8 | 6.4 | 5.7 | 5.5 | 5.5 | 5.3 | 5   | 4.6 | USt |     |     |     |     |     |     |     |     |     |     |
|  | 131 ft | 10 | ▶ |    |     | 67   | 72  | 82  | 89  | 98  | 105 | 115 | 121 | 129 | 131 | ft  |     |     |     |     |     |     |     |     |     |     |     |
|  |        |    |   |    | 11  | 10   | 8.7 | 7.9 | 7.1 | 6.5 | 5.8 | 5.5 | 5.5 | 5.4 | USt |     |     |     |     |     |     |     |     |     |     |     |     |
|  | 115 ft | 10 | ▶ |    |     | 68   | 72  | 82  | 89  | 98  | 105 | 115 | ft  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|  |        |    |   |    | 11  | 10.3 | 8.8 | 8   | 7.2 | 6.6 | 6   | USt |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|  | 98 ft  | 10 | ▶ |    |     | 68   | 72  | 82  | 89  | 98  | ft  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|  |        |    |   |    | 11  | 10.3 | 8.8 | 8   | 7.2 | USt |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|  | 82 ft  | 10 | ▶ |    |     | 68   | 72  | 82  | ft  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|  |        |    |   |    | 11  | 10.4 | 8.9 | USt |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

(USt)



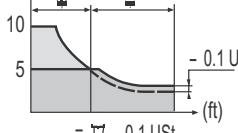
(ft)

— — = USt - 0.4 USt



|                                                                                     |                                                                                     |    |   |    |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|---|----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|  | 213 ft                                                                              | 10 | ▶ | 41 | 49  | 56   | 66  | 74  | 75  | 82  | 89  | 98  | 105 | 115 | 121 | 131 | 138 | 148 | 154 | 164 | 171 | 180 | 187 | 197 | 203 | 213 | ft  |
|  |  |    |   | 11 | 8.9 | 7.7  | 6.4 | 5.5 | 5.5 | 5   | 4.5 | 4   | 3.6 | 3.3 | 3   | 2.7 | 2.5 | 2.3 | 2.2 | 2   | 1.9 | 1.7 | 1.7 | 1.5 | 1.4 | 1.3 | USt |
|  | 197 ft                                                                              | 10 | ▶ |    |     | 52   | 56  | 66  | 72  | 82  | 93  | 94  | 98  | 105 | 115 | 121 | 131 | 138 | 148 | 154 | 164 | 171 | 180 | 187 | 197 | ft  |     |
|  |  |    |   |    | 11  | 10   | 8.3 | 7.4 | 6.4 | 5.5 | 5.5 | 5.3 | 4.9 | 4.4 | 4.1 | 3.7 | 3.5 | 3.2 | 3   | 2.8 | 2.6 | 2.4 | 2.3 | 2.1 | USt |     |     |
|  | 180 ft                                                                              | 10 | ▶ |    |     | 59   | 66  | 72  | 82  | 89  | 98  | 107 | 109 | 115 | 121 | 131 | 138 | 148 | 154 | 164 | 171 | 180 | ft  |     |     |     |     |
|  |  |    |   |    | 11  | 9.7  | 8.7 | 7.5 | 6.8 | 6.1 | 5.5 | 5.5 | 5.2 | 4.9 | 4.4 | 4.2 | 3.9 | 3.6 | 3.3 | 3.2 | 3   | USt |     |     |     |     |     |
|  | 164 ft                                                                              | 10 | ▶ |    |     | 64   | 66  | 72  | 82  | 89  | 98  | 105 | 116 | 119 | 131 | 138 | 148 | 154 | 164 | ft  |     |     |     |     |     |     |     |
|  |  |    |   |    | 11  | 10.7 | 9.6 | 8.3 | 7.6 | 6.7 | 6.3 | 5.5 | 5.5 | 4.9 | 4.6 | 4.3 | 4.1 | 3.7 | USt |     |     |     |     |     |     |     |     |
|  | 148 ft                                                                              | 10 | ▶ |    |     | 66   | 72  | 82  | 89  | 98  | 105 | 115 | 121 | 124 | 131 | 138 | 148 | ft  |     |     |     |     |     |     |     |     |     |
|  |  |    |   |    | 11  | 10   | 8.7 | 7.9 | 7.1 | 6.5 | 5.8 | 5.5 | 5.5 | 5.2 | 4.9 | 4.5 | USt |     |     |     |     |     |     |     |     |     |     |
|  | 131 ft                                                                              | 10 | ▶ |    |     | 68   | 72  | 82  | 89  | 98  | 105 | 115 | 123 | 126 | 131 | ft  |     |     |     |     |     |     |     |     |     |     |     |
|  |  |    |   |    | 11  | 10.3 | 8.8 | 8   | 7.2 | 6.6 | 6   | 5.5 | 5.5 | 5.2 | USt |     |     |     |     |     |     |     |     |     |     |     |     |
|  | 115 ft                                                                              | 10 | ▶ |    |     | 68   | 72  | 82  | 89  | 98  | 105 | 115 | ft  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|  |  |    |   |    | 11  | 10.4 | 8.9 | 8.2 | 7.3 | 6.7 | 6.1 | USt |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|  | 98 ft                                                                               | 10 | ▶ |    |     | 68   | 72  | 82  | 89  | 98  | ft  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|  |  |    |   |    | 11  | 10.4 | 8.9 | 8.3 | 7.3 | USt |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|  | 82 ft                                                                               | 10 | ▶ |    |     | 69   | 72  | 82  | ft  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|  |  |    |   |    | 11  | 10.5 | 9   | USt |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

(USt)

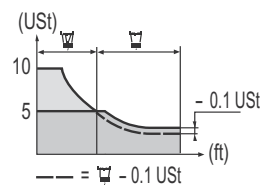


10

5

— =  - 0.1 USt

(ft)



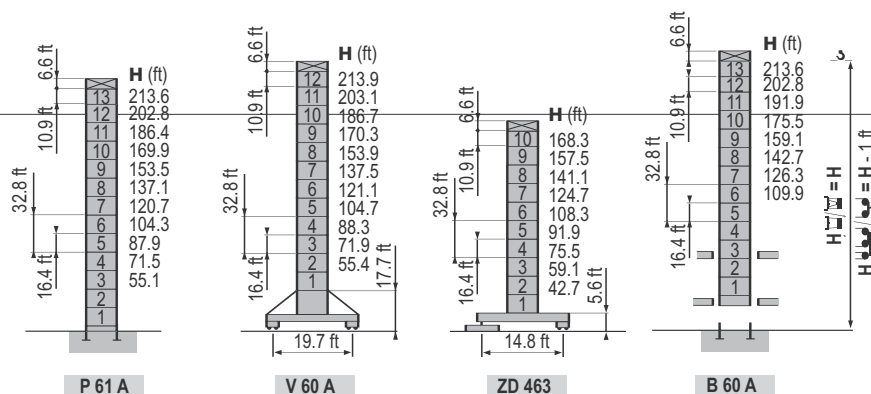
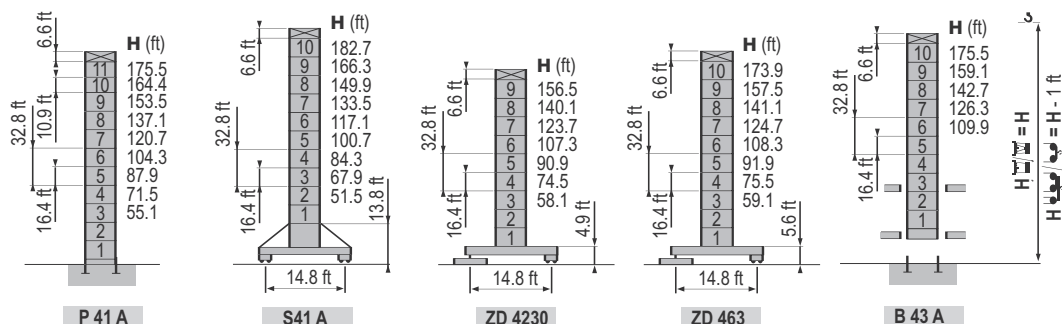
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MDT 218

# mast & mechanisms

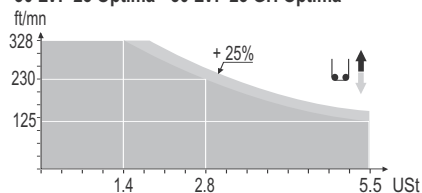
## MDT 218 J10

11



|                                                                                            |                                       |                         |  |  |  |  |  |  |  |  |  |  |  |         |         |  | ch - PS<br>hp | kW |  |
|--------------------------------------------------------------------------------------------|---------------------------------------|-------------------------|-------------------------------------------------------------------------------------|--|--|--|--|--|--|---------------------------------------------------------------------------------------|--|--|--|---------|---------|--|---------------|----|---------------------------------------------------------------------------------------|
|         | 50 LVF 25<br>Optima                   | ft/min                  | 10 → 39 → 125 → 164 → 230 → 328                                                     |  |  |  |  |  |  | 5 → 20 → 62 → 82 → 115 → 164                                                          |  |  |  |         |         |  | 50            | 37 | 912 ft                                                                                |
|                                                                                            | UST                                   | 5.5 5.5 5.5 4.1 2.8 1.4 | 11 11 11 11 8.3 5.5 2.8                                                             |  |  |  |  |  |  |                                                                                       |  |  |  |         |         |  |               |    |                                                                                       |
|                                                                                            | 50 LVF 25<br>GH Optima                | ft/min                  | 10 → 39 → 125 → 164 → 230 → 328                                                     |  |  |  |  |  |  | 5 → 20 → 62 → 82 → 115 → 164                                                          |  |  |  |         |         |  | 50            | 37 | 1,690 f                                                                               |
| UST                                                                                        | 5.5 5.5 5.5 4.1 2.8 1.4               | 11 11 11 11 8.3 5.5 2.8 |                                                                                     |  |  |  |  |  |  |                                                                                       |  |  |  |         |         |  |               |    |                                                                                       |
|         | 7 DVF 4                               | ft/min                  | 0 → 259                                                                             |  |  |  |  |  |  |                                                                                       |  |  |  | 6,5     | 4,8     |  |               |    |                                                                                       |
|         | RVF 152<br>Optima +                   | tr/min<br>U/min - rpm   | 0 → 0.8                                                                             |  |  |  |  |  |  |                                                                                       |  |  |  | 2 x 5,5 | 2 x 4   |  |               |    |                                                                                       |
|         | ZD 4230<br>RT 324                     | ft/min                  | 41 - 82                                                                             |  |  |  |  |  |  |                                                                                       |  |  |  | 2 x 7   | 2 x 5,2 |  |               |    |                                                                                       |
|         | ZD 463<br>RT 443<br>A1 2V             | ft/min                  | 49 - 98                                                                             |  |  |  |  |  |  |                                                                                       |  |  |  | 4 x 5   | 4 x 3,7 |  |               |    |                                                                                       |
|         | S 41 A<br>RT 443<br>A1 2V<br>R ≥ 10 m | ft/min                  | 49 - 98                                                                             |  |  |  |  |  |  |                                                                                       |  |  |  | 4 x 5   | 4 x 3,7 |  |               |    |                                                                                       |
|         | V 60 A<br>RT 544<br>A1 2V<br>R ≥ 13 m | ft/min                  | 44 - 89                                                                             |  |  |  |  |  |  |                                                                                       |  |  |  | 4 x 7   | 4 x 5,2 |  |               |    |                                                                                       |
| CEI 38  |                                       |                         | IEC 38                                                                              |  |  |  |  |  |  | <b>kVA</b>                                                                            |  |  |  |         |         |  |               |    |                                                                                       |
| 400 V (+6% -10%)                                                                           |                                       |                         |                                                                                     |  |  |  |  |  |  | 50 LVF : 65 kVA                                                                       |  |  |  |         |         |  |               |    |                                                                                       |

50 LVF 25 Optima - 50 LVF 25 GH Optima

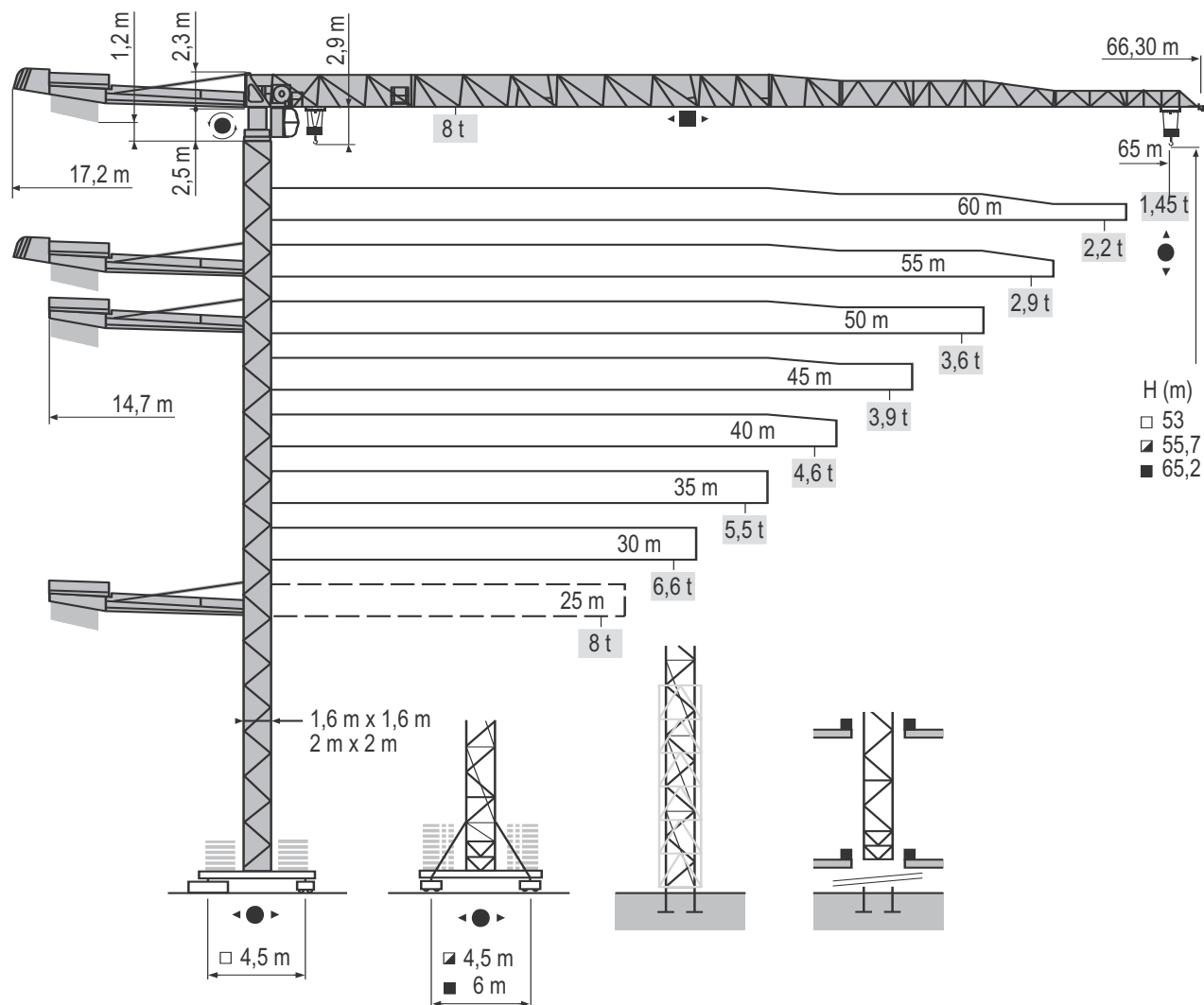


NOTE: Illustrated hook heights on this page were determined using FEM 1.001. Configurations shown may include optional equipment. Other codes may require reductions in configurations.

# metric dimensions

## MDT 218 J8

12



MDT 218

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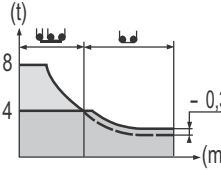
# metric load charts

## MDT 218 J8

13

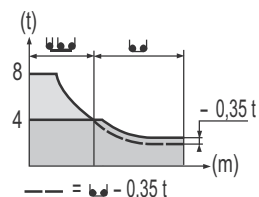
|                                                                                     |      |       |      |     |      |      |      |      |      |     |     |      |      |      |      |      |      |      |      |      |     |      |      |    |   |
|-------------------------------------------------------------------------------------|------|-------|------|-----|------|------|------|------|------|-----|-----|------|------|------|------|------|------|------|------|------|-----|------|------|----|---|
|    | 65 m | 3,1 ▶ | 14,9 | 15  | 17   | 20   | 22   | 26,6 | 28,5 | 30  | 32  | 35   | 37   | 40   | 42   | 45   | 47   | 50   | 52   | 55   | 57  | 60   | 62   | 65 | m |
|    |      |       | 8    | 7,9 | 6,8  | 5,6  | 5    | 4↔4  | 3,8  | 3,5 | 3,1 | 2,95 | 2,7  | 2,55 | 2,35 | 2,2  | 2,05 | 1,95 | 1,8  | 1,75 | 1,6 | 1,55 | 1,45 | t  |   |
|    | 60 m | 3,1 ▶ |      |     | 18,8 | 20   | 22   | 25   | 27   | 30  | 32  | 33,8 | 36,2 | 40   | 42   | 45   | 47   | 50   | 52   | 55   | 57  | 60   |      |    | m |
|    |      |       |      |     | 8    | 7,5  | 6,7  | 5,7  | 5,2  | 4,6 | 4,3 | 4↔4  | 3,6  | 3,4  | 3,1  | 2,95 | 2,75 | 2,6  | 2,45 | 2,35 | 2,2 |      |      | t  |   |
|    | 55 m | 3,1 ▶ |      |     |      | 21,6 | 22   | 25   | 27   | 30  | 32  | 35   | 37   | 38,8 | 41,7 | 45   | 47   | 50   | 52   | 55   |     |      |      | m  |   |
|    |      |       |      |     | 8    | 7,8  | 6,8  | 6,2  | 5,5  | 5,1 | 4,5 | 4,2  | 4↔4  | 3,7  | 3,5  | 3,2  | 3,1  | 2,9  |      |      |     |      |      | t  |   |
|    | 50 m | 3,1 ▶ |      |     |      |      | 23,6 | 25   | 27   | 30  | 32  | 35   | 37   | 40   | 42,5 | 45,6 | 47   | 50   |      |      |     |      |      | m  |   |
|    |      |       |      |     |      | 8    | 7,5  | 6,8  | 6,1  | 5,6 | 5,1 | 4,7  | 4,3  | 4↔4  | 3,9  | 3,6  |      |      |      |      |     |      |      | t  |   |
|    | 45 m | 3,1 ▶ |      |     |      |      | 22,8 | 25   | 27   | 30  | 32  | 35   | 37   | 41   | 44   | 45   |      |      |      |      |     |      |      | m  |   |
|    |      |       |      |     |      | 8    | 7,2  | 6,6  | 5,8  | 5,4 | 4,8 | 4,5  | 4↔4  | 3,9  |      |      |      |      |      |      |     |      |      | t  |   |
|    | 40 m | 3,1 ▶ |      |     |      |      |      | 24,9 | 27   | 30  | 32  | 35   | 37   | 40   |      |      |      |      |      |      |     |      |      | m  |   |
|    |      |       |      |     |      |      | 8    | 7,3  | 6,5  | 6   | 5,4 | 5    | 4,6  |      |      |      |      |      |      |      |     |      |      | t  |   |
|    | 35 m | 3,1 ▶ |      |     |      |      |      | 25,3 | 27   | 30  | 32  | 35   |      |      |      |      |      |      |      |      |     |      |      | m  |   |
|    |      |       |      |     |      |      | 8    | 7,4  | 6,6  | 6,1 | 5,5 |      |      |      |      |      |      |      |      |      |     |      |      | t  |   |
|    | 30 m | 3,1 ▶ |      |     |      |      |      | 25,4 | 27   | 30  |     |      |      |      |      |      |      |      |      |      |     |      |      | m  |   |
|    |      |       |      |     |      |      | 8    | 7,4  | 6,6  |     |     |      |      |      |      |      |      |      |      |      |     |      |      | t  |   |
|    | 25 m | 3,1 ▶ |      |     |      |      |      |      | 25   |     |     |      |      |      |      |      |      |      |      |      |     |      |      | m  |   |
|  |      |       |      |     |      |      | 8    |      |      |     |     |      |      |      |      |      |      |      |      |      |     |      |      | t  |   |

(t)

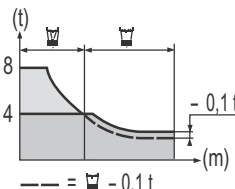


(m)

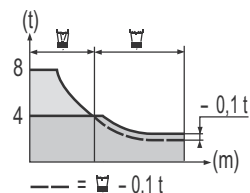
--- = 0,35 t



|                                                                                     |      |     |   |      |    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |      |     |     |    |   |
|-------------------------------------------------------------------------------------|------|-----|---|------|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|-----|-----|----|---|
|  | 65 m | 2,4 | ▶ | 15,1 | 17 | 20   | 22   | 25   | 27,2 | 27,8 | 30   | 32   | 35   | 37   | 40   | 42   | 45   | 47   | 50   | 52   | 55  | 57   | 60  | 62  | 65 | m |
|  |      |     |   | 8    | 7  | 5,8  | 5,2  | 4,4  | 4↔4  | 3,6  | 3,4  | 3    | 2,8  | 2,55 | 2,4  | 2,2  | 2,05 | 1,9  | 1,8  | 1,65 | 1,6 | 1,45 | 1,4 | 1,3 | t  |   |
|                                                                                     | 60 m | 2,4 | ▶ |      |    | 19,1 | 20   | 22   | 25   | 27   | 30   | 32   | 34,5 | 35,2 | 37   | 40   | 42   | 45   | 47   | 50   | 52  | 55   | 57  | 60  | m  |   |
|  |      |     |   |      | 8  | 7,6  | 6,8  | 5,9  | 5,4  | 4,7  | 4,4  | 4↔4  | 3,8  | 3,4  | 3,2  | 2,95 | 2,8  | 2,6  | 2,45 | 2,3  | 2,2 | 2,05 | t   |     |    |   |
|                                                                                     | 55 m | 2,4 | ▶ |      |    |      | 21,9 | 22   | 25   | 27   | 30   | 32   | 35   | 37   | 39,6 | 40,4 | 42   | 45   | 47   | 50   | 52  | 55   | m   |     |    |   |
|  |      |     |   |      |    | 8    | 7,9  | 6,9  | 6,3  | 5,6  | 5,2  | 4,6  | 4,3  | 4↔4  | 3,8  | 3,5  | 3,3  | 3,1  | 2,95 | 2,75 | t   |      |     |     |    |   |
|                                                                                     | 50 m | 2,4 | ▶ |      |    |      |      | 23,9 | 25   | 27   | 30   | 32   | 35   | 37   | 40   | 43,3 | 44,2 | 45   | 47   | 50   | m   |      |     |     |    |   |
|  |      |     |   |      |    |      | 8    | 7,6  | 7    | 6,2  | 5,7  | 5,2  | 4,8  | 4,4  | 4↔4  | 3,9  | 3,7  | 3,45 | t    |      |     |      |     |     |    |   |
|                                                                                     | 45 m | 2,4 | ▶ |      |    |      |      |      | 24,8 | 25   | 27   | 30   | 32   | 35   | 37   | 40   | 42   | 45   | m    |      |     |      |     |     |    |   |
|  |      |     |   |      |    |      |      | 8    | 7,9  | 7,3  | 6,4  | 6    | 5,4  | 5,1  | 4,6  | 4,3  | 4    | t    |      |      |     |      |     |     |    |   |
|                                                                                     | 40 m | 2,4 | ▶ |      |    |      |      |      |      | 25,2 | 27   | 30   | 32   | 35   | 37   | 40   | m    |      |      |      |     |      |     |     |    |   |
|  |      |     |   |      |    |      |      |      | 8    | 7,4  | 6,6  | 6,1  | 5,5  | 5,2  | 4,7  | t    |      |      |      |      |     |      |     |     |    |   |
|                                                                                     | 35 m | 2,4 | ▶ |      |    |      |      |      |      |      | 25,6 | 27   | 30   | 32   | 35   | m    |      |      |      |      |     |      |     |     |    |   |
|  |      |     |   |      |    |      |      |      |      | 8    | 7,5  | 6,7  | 6,2  | 5,6  | t    |      |      |      |      |      |     |      |     |     |    |   |
|                                                                                     | 30 m | 2,4 | ▶ |      |    |      |      |      |      |      |      | 25,7 | 27   | 30   | m    |      |      |      |      |      |     |      |     |     |    |   |
|  |      |     |   |      |    |      |      |      |      |      | 8    | 7,6  | 6,7  | t    |      |      |      |      |      |      |     |      |     |     |    |   |
|                                                                                     | 25 m | 2,4 | ▶ |      |    |      |      |      |      |      |      |      |      | 25   | m    |      |      |      |      |      |     |      |     |     |    |   |
|  |      |     |   |      |    |      |      |      |      |      |      | 8    | t    |      |      |      |      |      |      |      |     |      |     |     |    |   |



— = 0,1 t



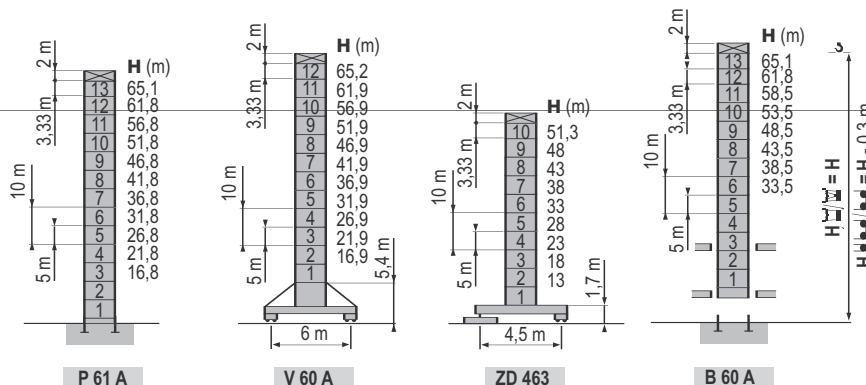
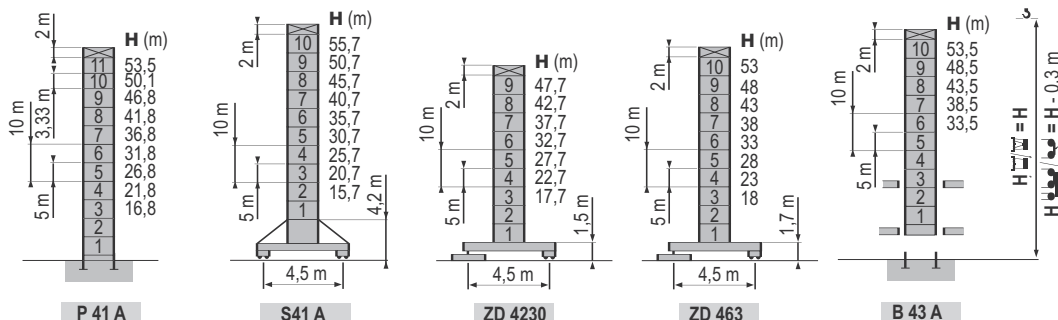
THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.



# mast & mechanisms

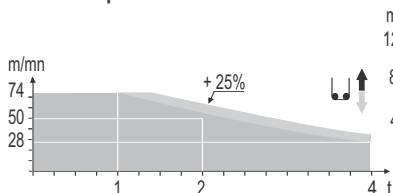
## MDT 218 J8

14

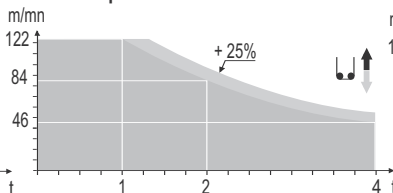


|                                                                                            |                             |                       |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |  |  | ch - PS<br>hp | kW      |  |
|--------------------------------------------------------------------------------------------|-----------------------------|-----------------------|-------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|--|--|--|---------------------------------------------------------------------------------------|--|--|--|--|--|--|---------------|---------|---------------------------------------------------------------------------------------|
|         | 33 LVF 20<br>Optima         | m/min<br>t            | 2,2 → 8,8 → 28 → 36 → 50 → 74<br>4    4    4    3    2    1                         |  |                                                                                       |  |  |  |  | 1,1 → 4,4 → 14 → 18 → 25 → 37<br>8    8    8    6    4    2                           |  |  |  |  |  |  | 30            | 22      | 290 m                                                                                 |
|                                                                                            | 50 LVF 20<br>Optima         | m/min<br>t            | 3,8 → 15 → 46 → 58 → 84 → 122<br>4    4    4    3    2    1                         |  |                                                                                       |  |  |  |  | 1,9 → 7,5 → 23 → 29 → 42 → 61<br>8    8    8    6    4    2                           |  |  |  |  |  |  | 50            | 37      | 363 m                                                                                 |
|                                                                                            | 50 LVF 20<br>GH Optima      | m/min<br>t            | 3,6 → 14 → 42 → 56 → 84 → 114<br>4    4    4    3    2    1                         |  |                                                                                       |  |  |  |  | 1,8 → 7 → 21 → 28 → 42 → 57<br>8    8    8    6    4    2                             |  |  |  |  |  |  | 50            | 37      | 605 m                                                                                 |
|         | 7 DVF 4                     | m/min                 | 0 → 79                                                                              |  |                                                                                       |  |  |  |  |                                                                                       |  |  |  |  |  |  | 6,5           | 4,8     |                                                                                       |
|         | RVF 152<br>Optima +         | tr/min<br>U/min - rpm | 0    →    0,8                                                                       |  |                                                                                       |  |  |  |  |                                                                                       |  |  |  |  |  |  | 2 x 5,5       | 2 x 4   |                                                                                       |
|         | RT 324                      | m/min                 | 12,5 - 25                                                                           |  |                                                                                       |  |  |  |  |                                                                                       |  |  |  |  |  |  | 2 x 7         | 2 x 5,2 |                                                                                       |
|         | RT 443<br>A1 2V             | m/min                 | 15 - 30                                                                             |  |                                                                                       |  |  |  |  |                                                                                       |  |  |  |  |  |  | 4 x 5         | 4 x 3,7 |                                                                                       |
|         | RT 443<br>A1 2V<br>R ≥ 10 m | m/min                 | 15 - 30                                                                             |  |                                                                                       |  |  |  |  |                                                                                       |  |  |  |  |  |  | 4 x 5         | 4 x 3,7 |                                                                                       |
|         | RT 544<br>A1 2V<br>R ≥ 13 m | m/min                 | 13,5 - 27                                                                           |  |                                                                                       |  |  |  |  |                                                                                       |  |  |  |  |  |  | 4 x 7         | 4 x 5,2 |                                                                                       |
| CEI 38  |                             |                       | IEC 38                                                                              |  |  |  |  |  |  |                                                                                       |  |  |  |  |  |  |               |         |                                                                                       |
| 400 V (+6% -10%)                                                                           |                             |                       |                                                                                     |  | 33 LVF : 50 kVA    50 LVF : 65 kVA                                                    |  |  |  |  |                                                                                       |  |  |  |  |  |  |               |         |                                                                                       |

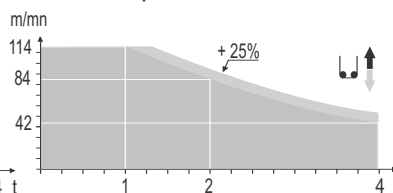
33 LVF 20 Optima



50 LVF 20 Optima

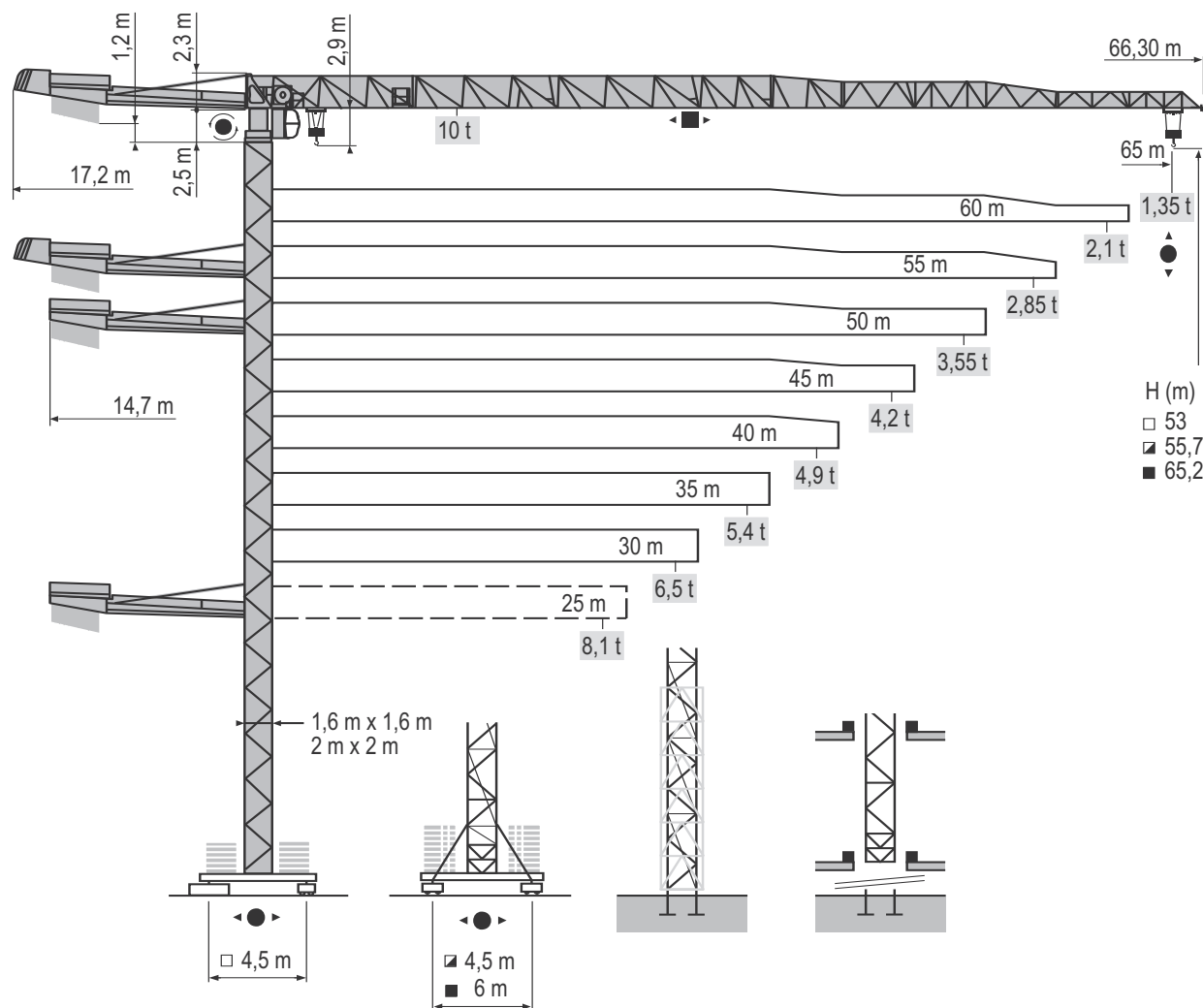


50 LVF 20 GH Optima



NOTE: Illustrated hook heights on this page were determined using FEM 1.001. Configurations shown may include optional equipment. Other codes may require reductions in configurations.

MDT 218



MDT 218

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

# metric load charts

## MDT 218 J10

16

|                                                                                    |      |       |      |      |     |     |       |      |       |       |       |      |      |     |      |      |      |      |      |      |      |     |      |      |    |   |
|------------------------------------------------------------------------------------|------|-------|------|------|-----|-----|-------|------|-------|-------|-------|------|------|-----|------|------|------|------|------|------|------|-----|------|------|----|---|
|   | 65 m | 3,1 ▶ | 12,1 | 15   | 17  | 20  | 21,5  | 23,1 | 25    | 27    | 30    | 32   | 35   | 37  | 40   | 42   | 45   | 47   | 50   | 52   | 55   | 57  | 60   | 62   | 65 | m |
|   |      |       | 10   | 7,7  | 6,7 | 5,5 | 5 ↔ 5 | 4,6  | 4,2   | 3,7   | 3,4   | 3    | 2,85 | 2,6 | 2,45 | 2,25 | 2,1  | 1,95 | 1,85 | 1,7  | 1,65 | 1,5 | 1,45 | 1,35 | t  |   |
|                                                                                    | 60 m | 3,1 ▶ |      | 15,2 | 17  | 20  | 22    | 25   | 27,3  | 29,3  | 32    | 35   | 37   | 40  | 42   | 45   | 47   | 50   | 52   | 55   | 57   | 60  |      |      | m  |   |
|   |      |       |      | 10   | 8,8 | 7,3 | 6,5   | 5,6  | 5 ↔ 5 | 4,5   | 4,1   | 3,8  | 3,5  | 3,3 | 3    | 2,85 | 2,65 | 2,5  | 2,35 | 2,25 | 2,1  |     |      | t    |    |   |
|                                                                                    | 55 m | 3,1 ▶ |      | 17,6 | 20  | 22  | 25    | 27   | 30    | 31,8  | 33,9  | 35   | 37   | 40  | 42   | 45   | 47   | 50   | 52   | 55   |      |     | m    |      |    |   |
|   |      |       |      | 10   | 8,6 | 7,7 | 6,7   | 6,1  | 5,4   | 5 ↔ 5 | 4,8   | 4,5  | 4,1  | 3,9 | 3,6  | 3,4  | 3,2  | 3    | 2,85 |      |      | t   |      |      |    |   |
|                                                                                    | 50 m | 3,1 ▶ |      | 19,2 | 20  | 22  | 25    | 27   | 30    | 32    | 34,7  | 37,1 | 40   | 42  | 45   | 47   | 50   |      |      | m    |      |     |      |      |    |   |
|   |      |       |      | 10   | 9,5 | 8,6 | 7,4   | 6,7  | 6     | 5,5   | 5 ↔ 5 | 4,6  | 4,3  | 4   | 3,8  | 3,55 |      |      | t    |      |      |     |      |      |    |   |
|                                                                                    | 45 m | 3,1 ▶ |      | 19,9 | 22  | 25  | 27    | 30   | 32    | 35    | 36,1  | 38,6 | 40   | 42  | 45   |      |      | m    |      |      |      |     |      |      |    |   |
|   |      |       |      | 10   | 8,9 | 7,7 | 7,1   | 6,2  | 5,8   | 5,2   | 5 ↔ 5 | 4,8  | 4,5  | 4,2 |      |      | t    |      |      |      |      |     |      |      |    |   |
|                                                                                    | 40 m | 3,1 ▶ |      | 20,3 | 22  | 25  | 27    | 30   | 32    | 35    | 36,8  | 39,3 | 40   |     |      | m    |      |      |      |      |      |     |      |      |    |   |
|   |      |       |      | 10   | 9,1 | 7,9 | 7,2   | 6,4  | 5,9   | 5,3   | 5 ↔ 5 | 4,9  |      |     | t    |      |      |      |      |      |      |     |      |      |    |   |
|                                                                                    | 35 m | 3,1 ▶ |      | 20,6 | 22  | 25  | 27    | 30   | 32    | 35    |       |      |      |     | m    |      |      |      |      |      |      |     |      |      |    |   |
|   |      |       |      | 10   | 9,3 | 8   | 7,3   | 6,5  | 6     | 5,4   |       |      |      | t   |      |      |      |      |      |      |      |     |      |      |    |   |
|                                                                                    | 30 m | 3,1 ▶ |      | 20,6 | 22  | 25  | 27    | 30   |       |       |       |      |      | m   |      |      |      |      |      |      |      |     |      |      |    |   |
|   |      |       |      | 10   | 9,3 | 8   | 7,3   | 6,5  |       |       |       |      |      | t   |      |      |      |      |      |      |      |     |      |      |    |   |
|                                                                                    | 25 m | 3,1 ▶ |      | 20,8 | 22  | 25  |       |      |       |       |       |      |      | m   |      |      |      |      |      |      |      |     |      |      |    |   |
|  |      |       |      | 10   | 9,4 | 8,1 |       |      |       |       |       |      |      | t   |      |      |      |      |      |      |      |     |      |      |    |   |

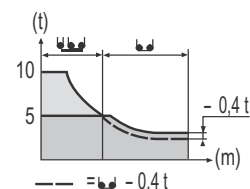
(t)

10

5

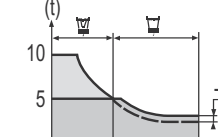
(m)

— — =  $\bar{m}$  - 0,4 t



|                                                                                     |      |       |      |      |     |     |      |      |      |      |      |      |      |      |      |     |     |     |     |     |      |      |      |     |     |   |
|-------------------------------------------------------------------------------------|------|-------|------|------|-----|-----|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|------|------|------|-----|-----|---|
|  | 65 m | 3,1 ▶ | 12,5 | 15   | 17  | 20  | 22,5 | 22,9 | 25   | 27   | 30   | 32   | 35   | 37   | 40   | 42  | 45  | 47  | 50  | 52  | 55   | 57   | 60   | 62  | 65  | m |
|  |      |       | 10   | 8,1  | 7   | 5,8 | 5↔5  | 5    | 4,5  | 4,1  | 3,6  | 3,3  | 2,95 | 2,75 | 2,45 | 2,3 | 2,1 | 2   | 1,8 | 1,7 | 1,55 | 1,5  | 1,35 | 1,3 | 1,2 | t |
|                                                                                     | 60 m | 3,1 ▶ |      | 15,7 | 17  | 20  | 22   | 25   | 28,3 | 28,8 | 30   | 32   | 35   | 37   | 40   | 42  | 45  | 47  | 50  | 52  | 55   | 57   | 60   |     | m   |   |
|  |      |       | 10   | 9,1  | 7,5 | 6,7 | 5,8  | 5↔5  | 5    | 4,8  | 4,4  | 4    | 3,7  | 3,4  | 3,2  | 2,9 | 2,7 | 2,5 | 2,4 | 2,2 | 2,1  | 1,95 |      | t   |     |   |
|                                                                                     | 55 m | 3,1 ▶ |      | 17,9 | 20  | 22  | 25   | 27   | 30   | 32,5 | 33,2 | 35   | 37   | 40   | 42   | 45  | 47  | 50  | 52  | 55  |      | m    |      |     |     |   |
|  |      |       | 10   | 8,8  | 7,9 | 6,8 | 6,2  | 5,5  | 5↔5  | 5    | 4,7  | 4,4  | 4    | 3,8  | 3,5  | 3,3 | 3   | 2,9 | 2,7 |     | t    |      |      |     |     |   |
|                                                                                     | 50 m | 3,1 ▶ |      | 19,5 | 20  | 22  | 25   | 27   | 30   | 32   | 35,5 | 36,2 | 40   | 42   | 45   | 47  | 50  |     | m   |     |      |      |      |     |     |   |
|  |      |       | 10   | 9,7  | 8,7 | 7,5 | 6,9  | 6,1  | 5,7  | 5↔5  | 5    | 4,4  | 4,2  | 3,9  | 3,7  | 3,4 |     | t   |     |     |      |      |      |     |     |   |
|                                                                                     | 45 m | 3,1 ▶ |      | 20,2 | 22  | 25  | 27   | 30   | 32   | 35   | 36,9 | 37,7 | 40   | 42   | 45   |     | m   |     |     |     |      |      |      |     |     |   |
|  |      |       | 10   | 9,1  | 7,9 | 7,2 | 6,4  | 5,9  | 5,3  | 5↔5  | 5    | 4,7  | 4,4  | 4,05 |      | t   |     |     |     |     |      |      |      |     |     |   |
|                                                                                     | 40 m | 3,1 ▶ |      | 20,6 | 22  | 25  | 27   | 30   | 32   | 35   | 37,5 | 38,3 | 40   |      | m    |     |     |     |     |     |      |      |      |     |     |   |
|  |      |       | 10   | 9,3  | 8   | 7,3 | 6,5  | 6    | 5,4  | 5↔5  | 5    | 4,75 |      | t    |      |     |     |     |     |     |      |      |      |     |     |   |
|                                                                                     | 35 m | 3,1 ▶ |      | 20,8 | 22  | 25  | 27   | 30   | 32   | 35   |      | m    |      |      |      |     |     |     |     |     |      |      |      |     |     |   |
|  |      |       | 10   | 9,4  | 8,1 | 7,4 | 6,6  | 6,1  | 5,5  |      | t    |      |      |      |      |     |     |     |     |     |      |      |      |     |     |   |
|                                                                                     | 30 m | 3,1 ▶ |      | 20,8 | 22  | 25  | 27   | 30   |      | m    |      |      |      |      |      |     |     |     |     |     |      |      |      |     |     |   |
|  |      |       | 10   | 9,4  | 8,1 | 7,5 | 6,6  |      | t    |      |      |      |      |      |      |     |     |     |     |     |      |      |      |     |     |   |
|                                                                                     | 25 m | 3,1 ▶ |      | 21   | 22  | 25  |      | m    |      |      |      |      |      |      |      |     |     |     |     |     |      |      |      |     |     |   |
|  |      |       | 10   | 9,5  | 8,2 |     |      | t    |      |      |      |      |      |      |      |     |     |     |     |     |      |      |      |     |     |   |

(t)

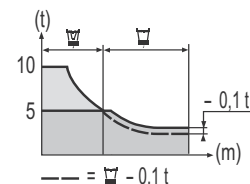


10

5

— =  $\frac{W}{2} - 0,1 t$

(m)



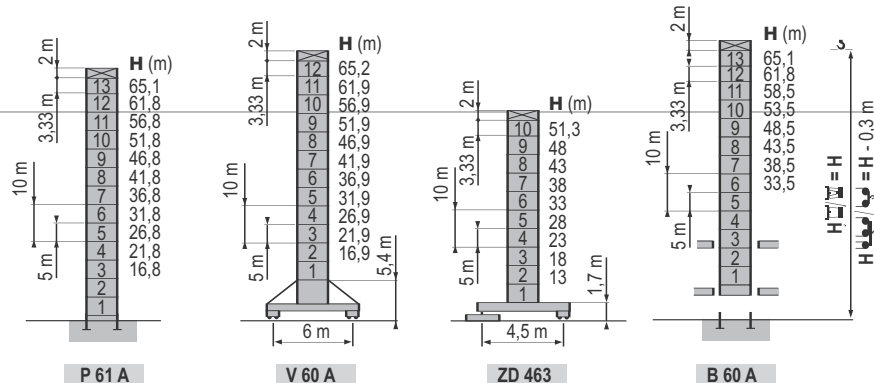
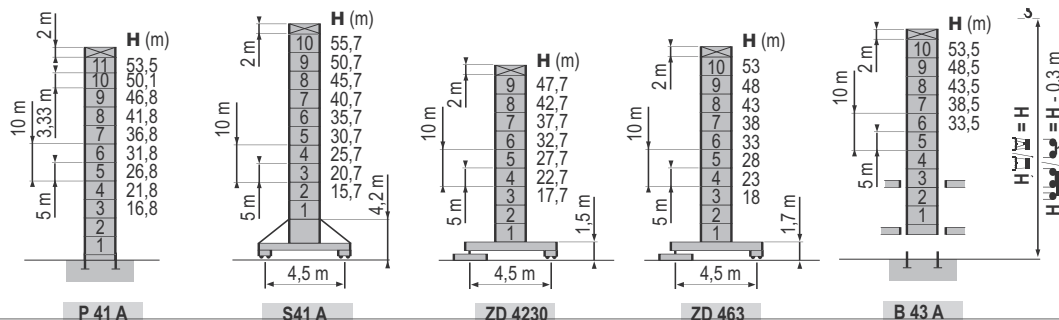
THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

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# mast & mechanisms

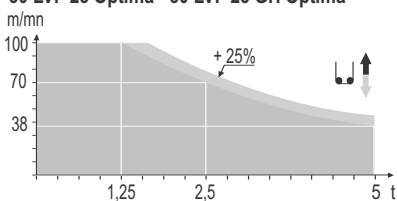
## MDT 218 J10

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|                                                                                            |                                       |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |         | ch - PS<br>hp | kW                                                                                    |  |
|--------------------------------------------------------------------------------------------|---------------------------------------|-----------------------|-------------------------------------------------------------------------------------|--|--|--|--|--|--|---------------------------------------------------------------------------------------|--|--|--|--|--|---------|---------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|         | 50 LVF 25<br>Optima                   | m/min<br>t            | 3 → 12 → 38 → 50 → 70 → 100<br>5    5    5    3,75    2,5    1,25                   |  |  |  |  |  |  | 1,5 → 6 → 19 → 25 → 35 → 50<br>10   10   10   10   7,5   5   2,5                      |  |  |  |  |  |         | 50            | 37                                                                                    | 278 m                                                                                 |
|                                                                                            | 50 LVF 25<br>GH Optima                | m/min<br>t            | 3 → 12 → 38 → 50 → 70 → 100<br>5    5    5    3,75    2,5    1,25                   |  |  |  |  |  |  | 1,5 → 6 → 19 → 25 → 35 → 50<br>10   10   10   10   7,5   5   2,5                      |  |  |  |  |  |         | 50            | 37                                                                                    | 515 m                                                                                 |
|         | 7 DVF 4                               | m/min                 | 0 → 79                                                                              |  |  |  |  |  |  |                                                                                       |  |  |  |  |  | 6,5     | 4,8           |                                                                                       |                                                                                       |
|         | RVF 152<br>Optima +                   | tr/min<br>U/min - rpm | 0    →    0,8                                                                       |  |  |  |  |  |  |                                                                                       |  |  |  |  |  | 2 x 5,5 | 2 x 4         |                                                                                       |                                                                                       |
|         | ZD 4230<br>RT 324                     | m/min                 | 12,5 - 25                                                                           |  |  |  |  |  |  |                                                                                       |  |  |  |  |  | 2 x 7   | 2 x 5,2       |                                                                                       |                                                                                       |
|         | ZD 463<br>RT 443<br>A1 2V             | m/min                 | 15 - 30                                                                             |  |  |  |  |  |  |                                                                                       |  |  |  |  |  | 4 x 5   | 4 x 3,7       |                                                                                       |                                                                                       |
|         | S 41 A<br>RT 443<br>A1 2V<br>R ≥ 10 m | m/min                 | 15 - 30                                                                             |  |  |  |  |  |  |                                                                                       |  |  |  |  |  | 4 x 5   | 4 x 3,7       |                                                                                       |                                                                                       |
|         | V 60 A<br>RT 544<br>A1 2V<br>R ≥ 13 m | m/min                 | 13,5 - 27                                                                           |  |  |  |  |  |  |                                                                                       |  |  |  |  |  | 4 x 7   | 4 x 5,2       |                                                                                       |                                                                                       |
| CEI 38  |                                       |                       | IEC 38                                                                              |  |  |  |  |  |  |                                                                                       |  |  |  |  |  |         |               |  |                                                                                       |
| 400 V (+6% -10%)                                                                           |                                       |                       | 50 LVF : 65 kVA                                                                     |  |  |  |  |  |  |                                                                                       |  |  |  |  |  |         |               |                                                                                       |                                                                                       |

50 LVF 25 Optima - 50 LVF 25 GH Optima



NOTE: Illustrated hook heights on this page were determined using FEM 1.001. Configurations shown may include optional equipment. Other codes may require reductions in configurations.

# symbols glossary



Anchor  
Stools



Counter  
Jib



Jib



Swing



Anemometer



Cross-Shaped  
Base



Jib  
Extension



Traveling



Ballast



Curve Track  
Traveling  
Equipment



Mast



Traversing  
Trolley



Cab



Electrical  
Requirement



Reeving  
2-Part



Traversing Trolley  
& Load Diagrams



Chassis



Hoist



Reeving  
4-Part



Trolley



Climbing  
Equipment



Hoisting  
Mechanism



Straight Track  
Traveling  
Equipment



Weight in  
Base  
Ballast



Controls



Hydraulic  
Equipment

## notes

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MDT 218



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Niella Tanaro

Portugal

Baltar

Fânzeres

Slovakia

Saris

U.S.A.

Manitowoc

Port Washington

Shady Grove

Constant improvement and engineering progress make it necessary that we reserve the right to make specification, equipment and price changes without notice. Illustrations shown may include optional equipment and accessories, and may not include all standard equipment.