



## ZR122

blasthole drill



Safety



Reliability



Productivity



*Indicative illustration only — machine design will vary.*

With up to 122,000 lbs. (55,338 kg) of bit loading, this rotary drill can be configured for single- or multi-pass drilling.

### Working ranges

|                     |                  |                        |
|---------------------|------------------|------------------------|
| Hole diameter       | 270 mm to 349 mm | 10 5/8 in to 13 3/4 in |
| Maximum single pass | 20 m             | 65 ft.                 |
| Maximum multi pass  | 85 m             | 280 ft.                |
| Maximum bit loading | 55,338 kg        | 122,000 lbs.           |

## Mast/tower

|                             |                        |              |
|-----------------------------|------------------------|--------------|
| Mast construction           | Structural plate steel |              |
| Carriage/rotary head travel | 25.1 m                 | 82.3 ft.     |
| Maximum bit loading         | 55,338 kg              | 122,000 lbs. |
| Mast length                 | 28 m                   | 91.9 ft.     |
| Mast width                  | 1.2 m                  | 48.2 in      |
| Mast depth                  | 1.2 m                  | 48.5 in      |

## Pipe handling

|           |   |                 |               |         |
|-----------|---|-----------------|---------------|---------|
| Type      | Single-pass: 2-pipe carousel for 39.6 m (130 ft.) total depth, clean pass without pipe carousel up to 19.8 m (65 ft.) |                 |               |         |
|           | Multi-pass: up to a 6 pipe rotary carousel 85.3 m (280 ft.) total depth   |                 |               |         |
| Pipe size |   |                 |               |         |
|           | Carousel capacity   | Diameter        | Maximum depth |         |
| 4         | 235 mm or less  | 9.25 in or less | 61 m          | 200 ft. |
| 5         | 235 mm or less  | 9.25 in or less | 73.2 m        | 240 ft. |
| 6         | 235 mm or less  | 9.25 in or less | 85.3 m        | 280 ft. |

## Feed system

|                          |                 |                    |
|--------------------------|-----------------|--------------------|
| Type                     | Rack and pinion |                    |
| Pulldown force           | 480 kN          | 108,000 lbs.       |
| Hoisting force           | 480 kN          | 108,000 lbs.       |
| Carriage speed (maximum) | 0 to 40.0 m/min | 0 to 131.2 ft./min |

## Lower works and propel

|                                 |                   |            |
|---------------------------------|-------------------|------------|
| Crawler type                    | B9 excavator-type |            |
| Low propel speed                | 0-1.1 km/h        | 0-0.68 mph |
| High propel speed               | 0-2.2 km/h        | 0-1.37 mph |
| Shoe/track pad width (standard) | 750 mm            | 29.5 in    |
| Shoe/track pad width (optional) | 800 mm            | 31.5 in    |

## Rotary head

|                              |                           |                 |
|------------------------------|---------------------------|-----------------|
| Rated power                  | 227 kW                    | 305 HP          |
| Torque (variable) at 100 rpm | 21.7 kN/m                 | 16,000 ft.-lbs. |
| Speed (variable)             | 146 rpm @ 11,500 ft.-lbs. |                 |

## Air system

|                    |                               |                     |
|--------------------|-------------------------------|---------------------|
| Compressor type    | Rotary screw, oil flooded     |                     |
| Output             |                               |                     |
| Standard           | 85 m³/min @ 6.89 bar          | 3,000 cfm @ 100 psi |
| Optional           | 102 m³/min @ 6.89 bar         | 3,600 cfm @ 100 psi |
| Compressor control | Electrically actuated, CANbus |                     |

## Fluids/maintenance

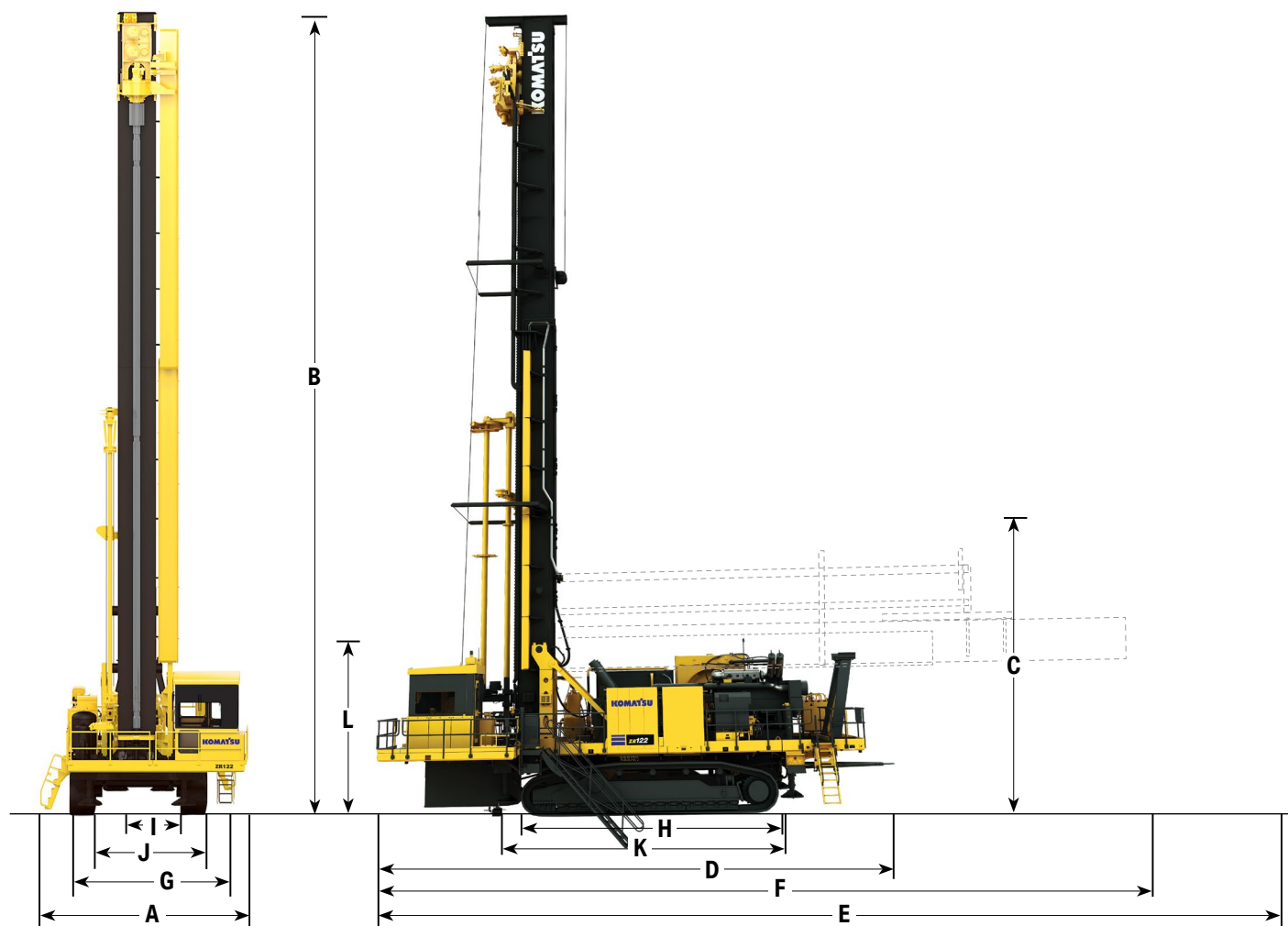
|                         |         |           |
|-------------------------|---------|-----------|
| Fuel tank capacity      |         |           |
| Standard                | 2,744 L | 725 gal   |
| Optional                | 5,300 L | 1,400 gal |
| Water tank capacity     |         |           |
| Standard                | 3,672 L | 970 gal   |
| Optional                | 4,542 L | 1,200 gal |
| Hydraulic tank capacity | 1,703 L | 450 gal   |
| OGL tank capacity       | 68 L    | 18 gal    |

## Power unit

|                                    |  |               |
|------------------------------------|--|---------------|
| Diesel engine/model                |  |               |
| Standard - Tier 2 (1,260 HP)       |  | Cummins QSK38 |
| Optional - Tier 4 Final (1,500 HP) |  | Cummins QSK50 |

## Dust control

|   |  |
|---|--|
| Dust curtains (standard)                        |  |
| Hydraulic actuator for dust curtains (optional) |  |
| Water injection system (standard)               |  |
| Dry dust collector (optional)                   |  |



### Overall dimensions

|          |                               |         |             |
|----------|-------------------------------|---------|-------------|
| <b>A</b> | Width, overall                | 7.95 m  | 26 ft. 1 in |
| <b>B</b> | Height, mast up               | 29.9 m  | 98 ft. 1 in |
| <b>C</b> | Height, mast down             | 8.5 m   | 28 ft. 0 in |
| <b>D</b> | Length, mast up               | 15.8 m  | 51 ft. 9 in |
| <b>E</b> | Length, mast down             | 29.4 m  | 96 ft. 5 in |
| <b>F</b> | Length, mast down, multi-pass | 22.71 m | 74 ft. 6 in |

|          |                                |        |             |
|----------|--------------------------------|--------|-------------|
| <b>G</b> | Overall width of crawlers      | 5.6 m  | 18 ft. 3 in |
| <b>H</b> | Overall length of crawlers     | 8.44 m | 27 ft. 8 in |
| <b>I</b> | Width of non-drill end jacks   | 4.3 m  | 14 ft. 1 in |
| <b>J</b> | Width of drill end jacks       | 4.3 m  | 14 ft. 1 in |
| <b>K</b> | Length between jacks           | 9.47 m | 31 ft. 0 in |
| <b>L</b> | Height to top of operators cab | 4.59 m | 15 ft. 0 in |

# Standard and optional equipment

| Operator cabin   |   | Drill deck                                   |   |
|--|---|--|---|
| Air suspended operators seat   | ● | Boarding stairs                              | ● |
| AM/FM/WB/USB/iPod/iPhone/Satellite radio   | ● | Intelligent adjustable compressor control    | ● |
| DIN EN 15695 level cab filtration  | ● | Boarding ramp (main access only)             | ○ |
| FOPS level II  | ● | Auxiliary power unit (APU)                   | ○ |
| Ground level battery and starter isolation   | ● | Cold and arctic weather package              | ○ |
| HVAC with pressurizer  | ● | Tool kit, drilling tools                     | ○ |
| Interior and exterior LED lighting   | ● | Tool kit, maintenance                        | ○ |
| Sound level rating of 68.6 dB(A) or less   | ● | Deck crane                                   | ○ |
| Trainer/buddy seat   | ● | Drill automation                             |   |
| Window tint  | ● | Adaptive auto level                          | ● |
| Refrigerator   | ○ | Enhanced auto drill                          | ● |
| Window shades  | ○ | Auto mast positioning                        | ● |
| Window wipers  | ○ | Auto pipe handling                           | ● |
| Walk around cab access   | ○ | Auto thread lube (multi pass)                | ● |
| Microwave  | ○ | High precision GPS navigation                | ○ |
| Storage locker   | ○ | Single and multi-machine tele-remote control | ○ |
| Deluxe trainer's seat  | ○ | Autopilot drill assist                       | ○ |
| Lighting   |   | Collision avoidance system                   | ○ |
| LED lighting   | ● | Quadview camera system                       | ○ |
| Lubrication  |   | Data interface compatible                    | ○ |
| On board kidney loop circuit for oil cleanliness   | ● | Auto bit changer                             | ○ |
| Quick fill fluid service system (fuel, hydraulic, engine oil, coolant, compressor oil, grease and water) at ground level | ● | Auto thread lube (single pass)               | ○ |
| Standard automatic lubrication (rack and pinions and mast pins)  | ● |  |   |
| Centralized fluid fill and drains  | ○ |  |   |
| Bit lubrication  | ○ |  |   |
| Centralized lubrication  | ○ |  |   |

- standard equipment
- optional equipment

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