

SUNWARD Down-the-hole Drilling Rigs SWDE120S

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| Item                       |        | SWDE120B                             | SWDE138B       | SWDE152B       | SWDE165B     | SWDE200B      |
|----------------------------|--------|--------------------------------------|----------------|----------------|--------------|---------------|
| Main parameters            |        |                                      |                |                |              |               |
| Hole diameter              | mm     | 90-138                               | 115-152        | 138-165        | 138-180      | 165-230       |
| DTH hammer                 | "      | 3.5、4、5                              | 4、5            | 5、6            | 5、6          | 6、8           |
| Tube diameter              | mm     | 76                                   | 76、89          | 102            | 102、114      | 114           |
| Tube length                | m      | 4m×7                                 | 4m×7           | 6m×6           | 6m×6         | 6m×6          |
| Maximum hole depth         | m      | 28                                   | 28             | 36             | 36           | 36            |
| Dust collector             | -      | Dry (standard) water mist (optional) |                |                |              |               |
| Air compressor             |        |                                      |                |                |              |               |
| Working pressure           | bar    | 20                                   | 21             | 21             | 25           | 24            |
| FAD                        | m³/min | 17.6                                 | 20.5           | 20.5           | 28.1         | 34.6          |
| Engine                     |        |                                      |                |                |              |               |
| Brand                      | -      | Cummins                              | Cummins        | Cummins        | Cummins      | Cummins       |
| Model                      | -      | QSC8.9-C325-30                       | QSL8.9-C360-30 | QSL8.9-C360-30 | X12-C450-CS3 | QSM15CS3-755C |
| Power rating               | kW/rpm | 242/2100                             | 264/2100       | 264/2100       | 336/1800     | 563/2100      |
| Fuel tank volume           | L      | 450                                  | 590            | 730            | 730          | 730           |
| Feed system                |        |                                      |                |                |              |               |
| Total length               | mm     | 7350                                 | 7350           | 10520          | 10520        | 10520         |
| Feed extension             | mm     | 1200                                 | 1200           | 1300           | 1300         | 1300          |
| Feed force                 | kN     | 30                                   | 30             | 45             | 45           | 45            |
| Pitch angle                | °      | 140                                  | 140            | 140            | 140          | 140           |
| Turning angle              | °      | -20~90                               | -20~90         | -20~90         | -20~90       | -20~90        |
| Drill boom                 |        |                                      |                |                |              |               |
| Lifting angle              | °      | 50~-20                               | 50~-20         | 50~-30         | 50~-30       | 50~-30        |
| Swing angle                | °      | L20 R32                              | L20 R32        | L15 R45        | L15 R45      | L15 R45       |
| Carrier                    |        |                                      |                |                |              |               |
| Tramming speed             | km/h   | 3.2                                  | 3.6            | 3.2            | 3.2          | 3.2           |
| Traction force             | kN     | 110                                  | 110            | 180            | 180          | 180           |
| Gradeability               | °      | 25                                   | 25             | 25             | 25           | 25            |
| Track oscillation          | °      | ±10                                  | ±10            | ±10            | ±10          | ±10           |
| Ground clearance           | mm     | 438                                  | 438            | 480            | 480          | 480           |
| Rotary head                |        |                                      |                |                |              |               |
| Rotation speed             | rpm    | 0-120                                | 0-130          | 0-150          | 0-150        | 0-150         |
| Torque                     | Nm     | 3400                                 | 3800           | 5000           | 5500         | 5800          |
| Dimension                  |        |                                      |                |                |              |               |
| Weight                     | kg     | 14500                                | 15500          | 22500          | 23500        | 24000         |
| L × W × H (work)           | m      | 7.9×2.5×7.7                          | 8.2×2.5×7.7    | 9.2×2.7×10.6   | 9.5×2.7×10.6 | 9.5×2.8×10.6  |
| L × W × H (Transportation) | m      | 10.0×2.5×3.5                         | 10.3×2.5×3.5   | 12.2×2.7×3.8   | 12.3×2.7×3.8 | 12.3×2.8×3.8  |

| Item                        |        | SWDE120S                             | SWDE138S       | SWDE152S       | SWDE165A               |                        |
|-----------------------------|--------|--------------------------------------|----------------|----------------|------------------------|------------------------|
| Main parameters             |        |                                      |                |                |                        |                        |
| Hole diameter               | mm     | 90-138                               | 115-152        | 138-165        | 138-180                |                        |
| DTH hammer                  | "      | 3.5、4、5                              | 4、5            | 5、6            | 5、6                    |                        |
| Tube diameter               | mm     | 76                                   | 76、89          | 102            | 102、114                |                        |
| Tube length                 | m      | 4m×7                                 | 4m×7           | 6m×6           | 6m×6                   |                        |
| Maximum hole depth          | m      | 28                                   | 28             | 36             | 36                     |                        |
| Dust collector              | -      | Dry (standard) water mist (optional) |                |                |                        |                        |
| Air compressor              |        |                                      |                |                |                        |                        |
| Working pressure            | bar    | 20                                   | 20             | 21             | 21                     | 21                     |
| FAD                         | m³/min | 18.0                                 | 20.4           | 22.5           | 30.3                   | 34                     |
| Engine                      |        |                                      |                |                |                        |                        |
| Brand                       | -      | YuChai                               | Cummins        | Cummins        | Cummins                | Cummins                |
| Model                       | -      | YCK09310-T300                        | QSL8.9-C360-30 | QSL8.9-C360-30 | QSB4.5-C130+QSM11-C400 | QSB4.5-C130+QSX15-C550 |
| Power rating                | kW/rpm | 228/2200                             | 264/2100       | 264/2100       | 97/2200+298/2100       | 97/2200+410/1850       |
| Fuel tank volume            | L      | 450                                  | 590            | 730            | 800                    |                        |
| Feed system                 |        |                                      |                |                |                        |                        |
| Total length                | mm     | 7350                                 | 7350           | 10520          | 10520                  |                        |
| Feed extension              | mm     | 1200                                 | 1200           | 1300           | 1300                   |                        |
| Feed force                  | kN     | 30                                   | 30             | 45             | 45                     |                        |
| Pitch angle                 | °      | 140                                  | 140            | 140            | 140                    |                        |
| Turning angle               | °      | -20-90                               | -20-90         | -20-90         | -20-90                 |                        |
| Drill boom                  |        |                                      |                |                |                        |                        |
| Lifting angle               | °      | 50~-20                               | 50~-20         | 50~-30         | 50~-30                 |                        |
| Swing angle                 | °      | L20 R32                              | L20 R32        | L15 R45        | L15 R45                |                        |
| Carrier                     |        |                                      |                |                |                        |                        |
| Tramming speed              | km/h   | 3.2                                  | 3.2            | 3.2            | 3.2                    |                        |
| Traction force              | kN     | 110                                  | 110            | 180            | 180                    |                        |
| Gradeability                | °      | 25                                   | 25             | 25             | 25                     |                        |
| Track oscillation           | °      | ±10                                  | ±10            | ±10            | ±10                    |                        |
| Ground clearance            | mm     | 438                                  | 438            | 480            | 480                    |                        |
| Rotary head                 |        |                                      |                |                |                        |                        |
| Rotation speed              | rpm    | 0-120                                | 0-120          | 0-150          | 0-105                  |                        |
| Torque                      | Nm     | 3400                                 | 3800           | 5000           | 5500                   |                        |
| Dimension                   |        |                                      |                |                |                        |                        |
| Weight                      | kg     | 14500                                | 15500          | 22500          | 26000                  |                        |
| L × W × H (work)            | m      | 7.9×2.5×7.7                          | 8.2×2.5×7.7    | 9.2×2.7×10.6   | 10.1×4.4×10.6          |                        |
| L × W × H (Transporta-tion) | m      | 10.0×2.5×3.5                         | 10.3×2.5×3.5   | 12.2×2.7×3.8   | 12.9×3.3×3.8           |                        |