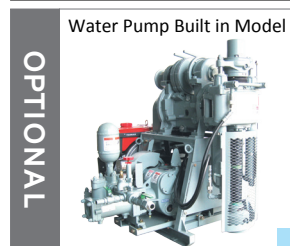
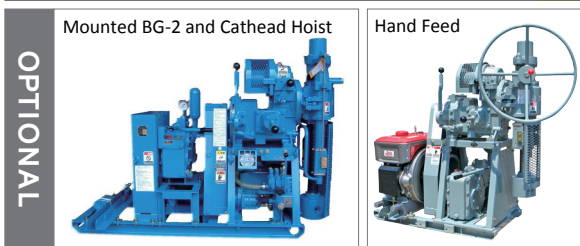
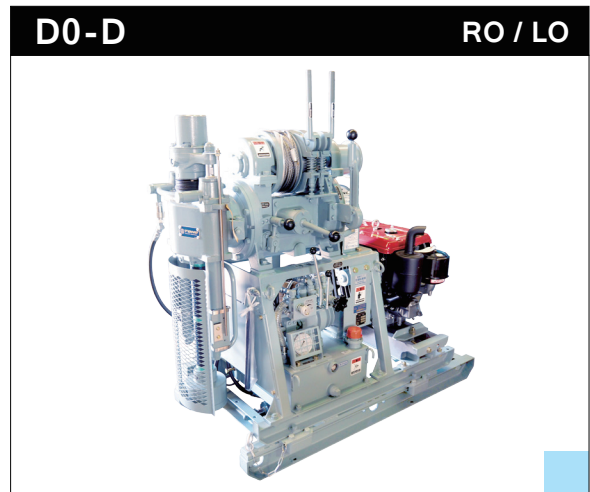


# Spindle Type: D SERIES



## DM-03 / D0-D

- Small size / Lightweight
- Easy to disassemble, transport, and reassemble
- Designed for safety
- Both right and left side operation available

| MODEL                  |        | DM-03 (RO/LO)                           |               | D0-D (RO/LO)                               | Water pump built in model (BG-3C) |
|------------------------|--------|---|---------------|--|-----------------------------------|
|                        |        | Wire Drum Hoist                         | Cathead Hoist |  |                                   |
| I.D. of spindle        | (mm)   | 47                                      |               | 43   |                                   |
| Spindle speeds         | (rpm)  | 65:125:370                              |               | (A) 60:170:330<br>(B) 110:320:625          |                                   |
| Torque(Max)            | (kN·m) | 0.54 {55 kgf·m}                         |               | (A) 0.59 {60 kgf·m}<br>(B) 0.32 {33 kgf·m} |                                   |
| Stroke of spindle      | (mm)   | 400 (300)                               |               | 400 (500)                                  |                                   |
| Thrust force           | (kN)   | 8.4 {860 kgf}                           |               | 16.2 {1650 kgf}                            |                                   |
| Balance force          | (kN)   | 13.8 {1410 kgf}                         |               | 21.6 {2200 kgf}                            |                                   |
| Power                  |        | 3.7kW/4P or 7PS/1800r.p.m.              |               | 3.7kW/4P or 7~9PS/1800r.p.m.               |                                   |
| Dimensions (L x W x H) | (mm)   | 1115 x 570 x 1060<br>(1115 x 570 x 960) |               | 1200 x 660 x 1090<br>(1200 x 660 x 1190)   | 1200 x 1075 x 1180                |
| Mass                   | (kg)   | 240 (200)                               | 220 (180)     | 290 (300)                                  | 375                               |

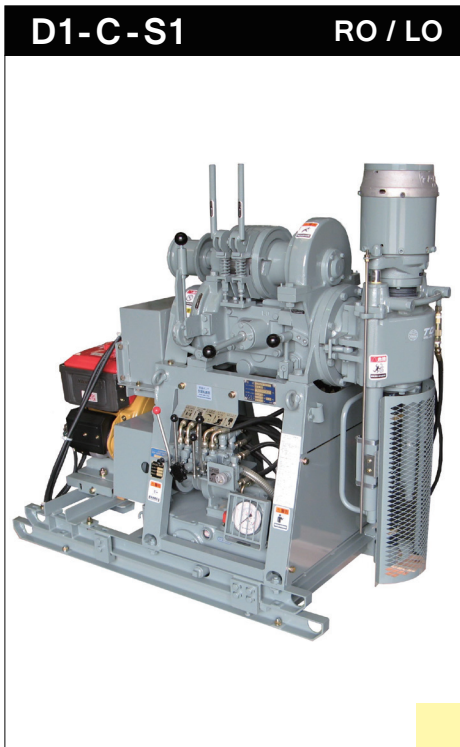
Oil hydraulic slide base or Oil hydraulic chuck is optional equipment

Spindle speed (A) is standard

Oil hydraulic chuck is optional equipment

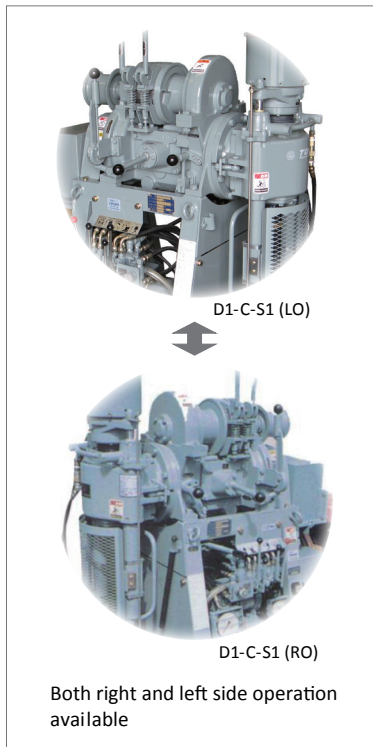
Drilling pump can be built in this machine

| USED FOR          |  |  |  |
|-------------------|--|--|--|
| Geologic survey   |  |  |  |
| Chemical grouting |  |  |  |
| Grouting          |  |  |  |
| Well drilling     |  |  |  |
| Bore piling       |  |  |  |
| Anchor hole       |  |  |  |



**D1-C-S1**

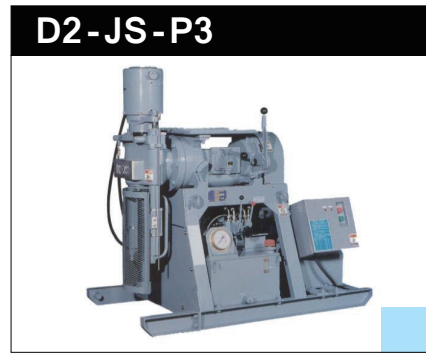
**RO / LO**



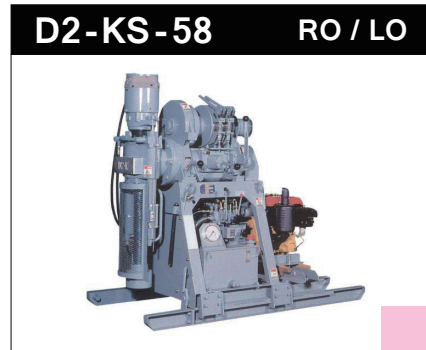
D1-C-S1 (LO)

D1-C-S1 (RO)

Both right and left side operation available



**D2-JS-P3**



**D2-KS-58**

**RO / LO**

| MODEL                       | D1-C-S1 (RO/LO)   |   | D2-JS-P3                    | D2-KS-58 (RO/LO)   |
|-----------------------------|---|---|-----------------------------|--|
| I.D.of spindle (mm)         | 48  | 58  | 48                          | 58   |
| Spindle speeds (rpm)        | (A) 65:130:240:370<br>(B) 85:170:320:500<br>(C) 160:310:590:900 | (A) 50:100:185:285<br>(B) 65:130:245:380  | 55:155:310                  | (A) 60:120:230:360<br>(B) 100:190:360:560<br>(C) 130:260:500:770 |
| Torque (kN·m)               | (A) 0.81 {83kgf·m}<br>(B) 0.62 {63kgf·m}<br>(C) 0.33 {34kgf·m}  | (A) 1.05 {107kgf·m}<br>(B) 0.81 {83kgf·m} | 0.95 {97kgf·m}              | (A) 0.88 {90kgf·m}<br>(B) 0.53 {54kgf·m}<br>(C) 0.40 {41kgf·m}   |
| Stroke of spindle (mm)      | 500   |   | 500                         | 500  |
| Thrust force (kN)           | 22.1 {2250kgf}  |   | 22.1 {2250kgf}              | 22.1 {2250kgf}   |
| Balance force (kN)          | 29.5 {3010kgf}  |   | 29.5 {3010kgf}              | 29.5 {3010kgf}   |
| Slide system (mm)           | Oil hydraulic: stroke 300                                       |   |                             | Oil hydraulic: stroke 400  |
| Power                       | 5.5kW/4P or 12PS/1800r.p.m.                                     |   | 5.5kW/4P or 12PS/1800r.p.m. | 5.5kW/4P or 12~15PS/1800r.p.m.                                   |
| Dimensions (L x W x H) (mm) | 1580 x 735 x 1390   | 1580 x 735 x 1430                         | 1430 x 800 x 1390           | 1780 x 870 x 1620  |
| Mass (kg)                   | 550   | 565                                       | 470                         | 680  |

(A) is standard. (B)(C) is optional.

Manual chuck is standard equipment

Manual chuck is optional equipment

Spindle speed (A) is standard. (B)(C) is optional.

Manual chuck is optional equipment

**D1-C-S1**

■ **Standard equipment**

- └ Oil hydraulic chuck
- └ Oil hydraulic slide base

■ **Both right and left side operation available**

**D2-JS-P3**

■ **Standard equipment**

- └ Oil hydraulic chuck

■ **Low speed and high torque rotary spindle**

**D2-KS-58**

■ **Standard equipment**

- └ Oil hydraulic chuck
- └ Oil hydraulic slide base

■ **Low speed and high torque rotary spindle**

■ **Both right and left side operation available**



**USED FOR**

Geologic survey

Chemical grouting

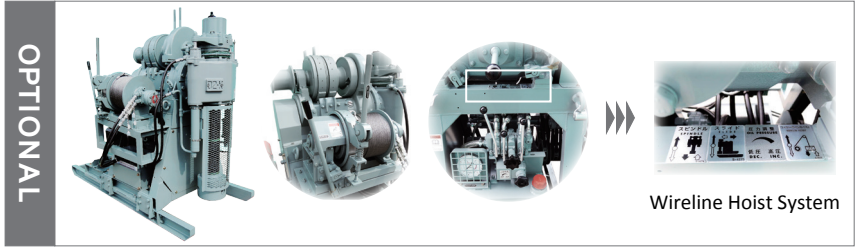
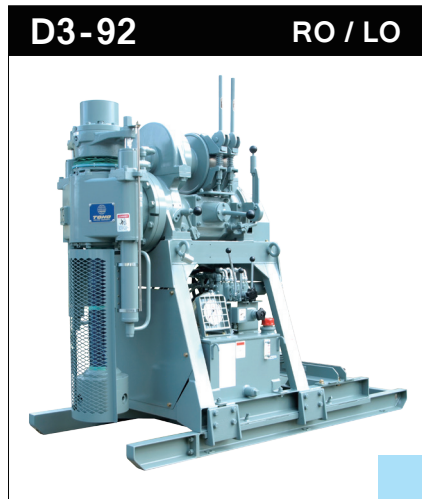
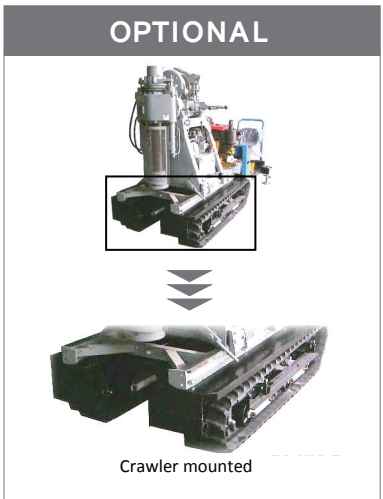
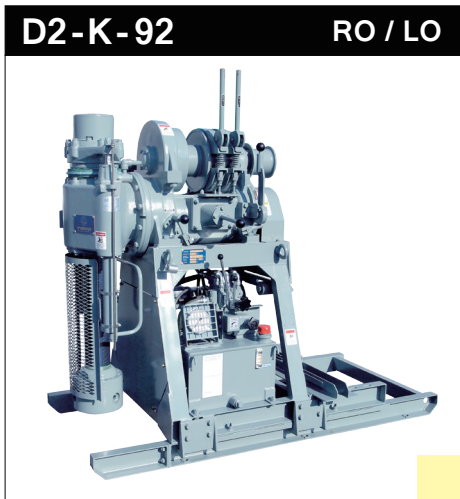
Grouting

Well drilling

Bore piling

Anchor hole





**D2-K-92**

- **Standard equipment**
  - └ Oil hydraulic slide base
- **Maximum 90mm (HQ size) rod available**
- **Low speed and high torque rotary spindle**
- **Both right and left side operation available**

**D3-92**

- **Standard equipment**
  - └ Oil hydraulic chuck
  - └ Oil hydraulic slide base
- **Long brake and hoist lever**
  - └ Easy hoisting operation
- **Both right and left side operation available**

| MODEL                       | D2-K92-P2 (RO/LO)                              | D2-K92-P3 (RO/LO)             | D3-92-P2 (RO/LO)              |
|-----------------------------|--|-------------------------------|-------------------------------|
| I.D.of spindle (mm)         | 92   |                               | 92                            |
| Spindle speeds (rpm)        | (A) 60:180:355:65(R)<br>(B) 100:293:577:109(R) | 17:50:95:18 (R)               | 113:236:452:90(R)             |
| Torque (kN·m)               | (A) 1.18 {120kgf·m}<br>(B) 0.7 {73kgf·m}       | 3.09 {315kgf·m}               | 0.93                          |
| Stroke of spindle (mm)      | 500  |                               | 500                           |
| Thrust force (kN)           | 22.1 {2260kgf}                                 |                               | 41.6 {4240kgf}                |
| Balance force (kN)          | 29.5 {3010kgf}                                 |                               | 55.5 {5660kgf}                |
| Slide system (mm)           | Oil hydraulic: stroke 400                      |                               | Oil hydraulic: stroke 400     |
| Power                       | 7.5kW/4P,<br>10PS/1800r.p.m.                   | 5.5kW/4P,<br>7.5PS/1800r.p.m. | 11kW/4P or<br>15PS/1800r.p.m. |
| Dimensions (L x W x H) (mm) | 1800 x 870 x 1620                              | 1835 x 870 x 1620             | 1788 x 873 x 1605             |
| Mass (kg)                   | 700  | 820                           | 780                           |

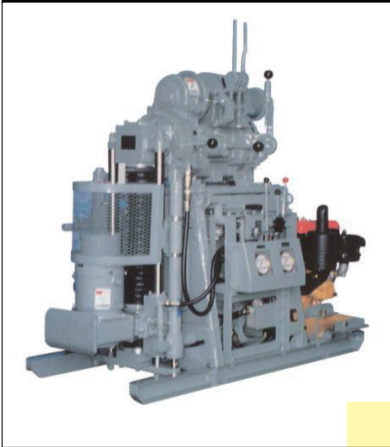
Spindle speed (A) is standard  
 Oil hydraulic chuck is optional equipment  
 Oil hydraulic slide base is standard equipment

**USED FOR**

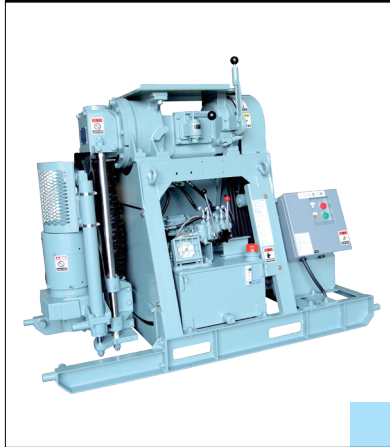
|                   |  |  |  |
|-------------------|--|--|--|
| Geologic survey   |  |  |  |
| Chemical grouting |  |  |  |
| Grouting          |  |  |  |
| Well drilling     |  |  |  |
| Bore piling       |  |  |  |
| Anchor hole       |  |  |  |

# Low Head Type

**D0-D LH-S0 RO / LO**



**D2-JS-P3-LH**



**D2-K-P3-LH92**



| MODEL                       | D0-D LH-S0 (RO/LO)   | D2-JS-P3-LH                 | D2-K-P3-LH92                |
|-----------------------------|--|-----------------------------|-----------------------------|
| I.D. of spindle (mm)        | 43   | 48                          | 92                          |
| Spindle speeds (rpm)        | (A) 60:170:330<br>(B) 110:320:625                          | 40:115:230                  | 14:40:80:15 (R)             |
| Torque (kN·m)               | (A) 0.59 {60kgf·m}<br>(B) 0.32 {33kgf·m}                   | 1.31 {134kgf·m}             | 3.90 {398kgf·m}             |
| Stroke of spindle (mm)      | 500  | 500                         | 500                         |
| Thrust force (kN)           | 10.7 {1090kgf}   | 22.1 {2250kgf}              | 22.1 {2250kgf}              |
| Balance force (kN)          | 17.6 {1800kgf}   | 29.5 {3010kgf}              | 29.5 {3010kgf}              |
| Power                       | 3.7kW/4P or 7~9PS/1800r.p.m.<br>(5.5kW/4P, including pump) | 5.5kW/4P or 12PS/1800r.p.m. | 5.5kW/4P or 12PS/1800r.p.m. |
| Dimensions (L x W x H) (mm) | 1440 x 675 x 1415<br>(1420 x 895 x 1415)                   | 1660 x 800 x 1320           | 2075 x 870 x 1685           |
| Mass (kg)                   | 460  | 600                         | 950                         |

- Spindle speed (A) is standard
- Oil hydraulic chuck is optional equipment
- Oil hydraulic slide base is standard equipment

- Drilling machine with the swivel head set up in a low position
- Quick and safe attachment / detachment of rods
- Suitable for chemical grouting
- Standard equipment
  - └ Oil hydraulic chuck (Exc. D0-D LH-S0)