



 **H&D MACHINE Co.,Ltd.**



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Add:Zhuzhou Development zone, Hebei Province, China  
The zip code: 072750



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## About Us

Zhuozhou H&D Machine Co., Ltd. was founded in 2012 and located in Zhuozhou development zone which is less than a kilometer away from Beijing-Shijiazhuang Expressway exit so the transportation is very convenient. Existing 108 staves, including 36 professional workers, and 17 intermediate and senior title engineers. There are more than half of all the employees of the company are professional geophysical rig design experts and skilled assembly workers , possessing great expertise.The company holds advanced producing and monitoring facilities and perfect productive work environment.We are going to keep our promise,and take users` satisfaction as our unremitting pursue.

We are specialized in producing swamp drill rig, truck mounted drill rig, tractor-mounted drill rig and portable light / ultralight rig, hydraulic drill and all kinds of general machine tools which are suitable to different terrain for exploration,no matter working on the sea,in plain, in the mountains, in the desert, in the swamp, or on gravel zone. According to different purposes, different geological conditions, users can select air drilling, water drilling, vibration drilling. We have high ability in researching and developing products and have established a whole set of service system before, during and after sales. Our products are sold in all parts of C\, China petrochemical group and Coal geology bureau ,also exported to oversea like the India, Pakistan and Congo.

We insist on the principle of survive on quality, develop on credit and maximizing the efficiency by means of taking advantage of marketing,technology and management methods. we should persist in keeping pace with the times and making innovations in a pioneering spirit and creating brand equity. We will promise to commitment to ideal user satisfaction is our unremitting pursuit.

Our company implement the corporate culture of " provide satisfactory products and services for customer timely". We are always ready to improve the quality of products,strengthen inner quality management ,and thank customer's support with high quality products and satisfactory service.





## HD-20 FLUSH DRILLING RIG



### Main Specification

| Drilling method                      | Depth                 | Pipe(diameter×length) | Hole diameter           |
|--------------------------------------|-----------------------|-----------------------|-------------------------|
| Mud drilling                         | 20 m                  | φ42×1500              | 75/90mm                 |
| Air drilling/<br>Hammer drilling     | 20 m                  | φ42×1500              | 75/82mm                 |
| Hand-disk<br>power swivel            | Weight                |                       | 28 kg                   |
|                                      | Disk radius           |                       | 800~1250mm Options      |
|                                      | Displacement          |                       | 680 L/min               |
| Centrifugal pump set /<br>Standard   | Pump head             |                       | 27 m                    |
|                                      | Gasoline engine power |                       | 6.5 hp                  |
|                                      | Weight                |                       | 31 kg                   |
|                                      | Displacement          |                       | 3.2 M <sup>3</sup> /min |
| Air screw compressor<br>set /Options | Pressure              |                       | 7 bar                   |
|                                      | Gasoline engine power |                       | 38 hp                   |
|                                      | Weight                |                       | 196 kg                  |
|                                      | Displacement          |                       | 3.2 M <sup>3</sup> /min |





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## HD-20A TOP-DRIVE FLUSH DRILLING RIG



### Main Specification

| Drilling method                      | Depth                      | Pipe(diameter×length) | Hole diameter          |
|--------------------------------------|----------------------------|-----------------------|------------------------|
| Mud drilling                         | 20 m                       | φ42×1500              | 75/90mm                |
| Air drilling/Hammer drilling         | 20 m                       | φ42×1500              | 75/82mm                |
| Hand-disk power swivel               | Torque                     |                       | 270 N.m                |
|                                      | Rotate speed               |                       | 0 ~ 148 r/min          |
|                                      | Weight                     |                       | 20 kg                  |
|                                      | Disk radius                |                       | 800~1250mm Options     |
| Hydraulic power station              | Wirking pressure           |                       | 200 bar                |
|                                      | Station power              |                       | 9hp                    |
|                                      | Station weight             |                       | 82kg /Diesel engine    |
|                                      |                            |                       | 60kg / Gasoline engine |
|                                      | Four-Hand trolley for move |                       |                        |
| Centrifugal pump set<br>/ Standard   | Displacement               |                       | 680 L/min              |
|                                      | Pump head                  |                       | 27 m                   |
|                                      | Gasoline engine power      |                       | 6.5 hp                 |
|                                      | Weight                     |                       | 31 kg                  |
| Air screw compressor<br>set /Options | Displacement               |                       | 3.2 M³/min             |
|                                      | Pressure                   |                       | 7 bar                  |
|                                      | Gasoline engine power      |                       | 38 hp                  |
|                                      | Weight                     |                       | 196 kg                 |

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# H&D MACHINE Co.,Ltd.

## HD-20B MAN PORTABLE DRILLING RIG



### Main Specification

| Drilling method           | Depth                             | Pipe(diameter×length) | Hole diameter     |
|---------------------------|-----------------------------------|-----------------------|-------------------|
| Mud /Air Hammer drilling  | 20 m                              | φ50X3X1500            | 75/82mm           |
| Power swivel              | Rating torque                     |                       | 460 N.m           |
|                           | Rated speed                       |                       | 0~165 r/min       |
| Hoisting/Push-down system | Max. hoisting weight              |                       | 1000 kg           |
|                           | Max. Push-down Force              |                       | 2 kN              |
|                           | Max. hoisting speed               |                       | 0.6 m/s           |
| Hydraulic system          | Working pressure                  |                       | 180 bar           |
| Engine power              | 14 hp / 3600r/min                 |                       |                   |
| Weight                    | Max. Sets                         |                       | ≤69 kg            |
|                           | Overall unit                      |                       | ≤195 kg /4 Parts  |
| Overall dimension         | About 1000×800×2750 /When running |                       |                   |
| Piston mud pump           | Gasoline or diesel power option   | Perssure              | 14 bar            |
|                           |                                   | Displacement          | 120 L/min         |
|                           |                                   | Weight                | ≤115 kg           |
| Air screw compressor      | Total displacement                |                       | 3.6~4.2 m3/min    |
|                           | Pressure                          |                       | 0.8 MPa           |
|                           | Weight                            |                       | ≤330kg (Two Sets) |

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## HD-30 MAN PORTABLE DRILLING RIG



### Main Specification

| Drilling method              | Depth                              | Pipe(diameter×length) | Hole diameter     |
|------------------------------|------------------------------------|-----------------------|-------------------|
| Mud drilling                 | 30 m                               | φ50×3×1500            | 75/90mm           |
| Air drilling/Hammer drilling | 30 m                               | φ50×3× 1500           | 75/82mm           |
| Screw drilling               | 15 m                               | φ50×φ90×1500          | 90mm              |
| Power swivel                 | Rating torque                      |                       | 660 N.m           |
|                              | Rated speed                        |                       | 0~170 r/min       |
| Hoisting/Push-down system    | Max. hoisting weight               |                       | 1000 kg           |
|                              | Max. Push-down Force               |                       | 4 kN              |
|                              | Max. hoisting speed                |                       | 0.77 m/s          |
| Hydraulic system             | Working pressure                   |                       | 190 bar           |
| Engine power                 | 23 hp / 3600r/min                  |                       |                   |
| Weight                       | Max. Sets                          |                       | ≤75 kg            |
|                              | Overall unit                       |                       | ≤272.5 kg         |
| Overall dimension            | About 1250×1000×2800 /When running |                       |                   |
| Piston mud pump              | Gasoline or diesel poweroption     | Pressure              | 14bar             |
|                              |                                    | Displacement          | 120L/min          |
|                              |                                    | Weight                | ≤115kg            |
| Air screw compressor         | 1 set                              | Total displacement    | 3.0~3.8m3/min     |
|                              |                                    | Pressure              | 0.8MPa            |
|                              |                                    | Power                 | Kohler 38hp       |
|                              |                                    | Weight                | ≤180kg (One Sets) |

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## HD-40 MAN PORTABLE DRILLING RIG



### Main Specification

|                               |                                    |                       |               |
|-------------------------------|------------------------------------|-----------------------|---------------|
| Drilling method               | Depth                              | Pipe(diameter×length) | Hole diameter |
| Mud drilling                  | 40 m                               | φ60×1500              | 75/90mm       |
| Air drilling/Hammer drilling  | 40 m                               | φ60 × 1500            | 75/82mm       |
| Screw drilling                | 20 m                               | φ50×φ90×1500          | 90mm          |
| Reverse circulation drilling  | 20 m                               | φ107×φ70×1500mm       | 110mm         |
| Power swivel                  | Rating torque                      |                       | 1300 N.m      |
|                               | Rated speed                        |                       | 0 ~ 150 r/min |
| Hoisting/<br>Push-down system | Max. hoisting weight               |                       | 2000 kg       |
|                               | Max. Push-down Force               |                       | 7 kN          |
|                               | Max. hoisting speed                |                       | 0.73 m/s      |
| Engine output power           |                                    |                       |               |
| weight                        | Largest parts quality              |                       | ≤100 kg       |
|                               | The whole machine quality          |                       | ≤415 kg       |
| Overall dimension             | About 1700×1400×3050               |                       |               |
| piston Mud pump               | Gasoline or diesel<br>power option | pressure              | 14 bar        |
|                               |                                    | Displacement          | 120 L/min     |
|                               |                                    | weight                | ≤115 kg       |
| Screw air compressor          | The total displacement             | 3.6 ~ 4.2 m³/min      |               |
|                               | Pressure force                     | 0.8 MPa               |               |
|                               | Mass weight                        | ≤360 kg (Two groups)  |               |

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## HD-40A MAN PORTABLE DRILLING RIG



### Main Specification

| Drilling method              | Depth                              | Pipe(diameter×length) | Hole diameter      |
|------------------------------|------------------------------------|-----------------------|--------------------|
| Mud drilling                 | 40 m                               | φ60×1500              | 75/90mm            |
| Air drilling/Hammer drilling | 40 m                               | φ60×1500              | 75/82mm            |
| Screw drilling               | 20 m                               | φ50×φ90×1500          | 90mm               |
| Reverse circulation drilling | 20 m                               | Φ107×Φ70×1500mm       | 110mm              |
| Power swivel                 | Rating torque                      |                       | 1300 N.m           |
|                              | Rated speed                        |                       | 0~150 r/min        |
| Hoisting/Push-down system    | Max. hoisting weight               |                       | 2000 kg            |
|                              | Max. Push-down Force               |                       | 7 kN               |
|                              | Max. hoisting speed                |                       | 0.73 m/s           |
| Hydraulic system             | Working pressure                   |                       | 200 bar            |
| Engine power                 | 27hp / 3600r/min                   |                       |                    |
| Weight                       | Max. Sets                          |                       | ≤79 kg             |
|                              | Overall unit                       |                       | ≤352 kg            |
| Overall dimension            | About 1700×1400×3050 /When running |                       |                    |
| Piston mud pump              | Gasoline or diesel power option    | Perssure              | 14 bar             |
|                              |                                    | Displacement          | 120 L/min          |
|                              |                                    | Weight                | ≤115 kg            |
| Air screw compressor         | 2 sets                             | Total displacement    | 3.6~4.2 m3/min     |
|                              |                                    | Pressure              | 0.8 MPa            |
|                              |                                    | Weight                | ≤330 kg (Two Sets) |
|                              |                                    | Power                 | Kohler 27hp        |
| Air screw compressor         | 1 sets                             | Total displacement    | 3.0~3.8 m3/min     |
|                              |                                    | Pressure              | 0.8 MPa            |
|                              |                                    | Power                 | Kohler 38hp        |
|                              |                                    | Weight                | ≤190 kg (One Sets) |

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## HD-80 MAN PORTABLE DRILLING RIG



### Main Specification

| Drilling method                  | Depth                              | Pipe ( diameter×length ) | Hole diameter             |
|----------------------------------|------------------------------------|--------------------------|---------------------------|
| Mud drilling                     | 40 m                               | φ60×1500                 | 75/90mm                   |
| Air drilling<br>/Hammer drilling | 80 m                               | φ60×1500                 | 75/82mm                   |
| Screw drilling                   | 30 m                               | φ50×φ90×1500             | 90mm                      |
| Reverse circulation drilling     | 30 m                               | φ107×φ70×φ1500           | 110mm                     |
| Power swivel                     | Rating torque                      |                          | 1520 N.m                  |
|                                  | Rated speed                        |                          | 0 ~ 170 r/min             |
| Hoisting/<br>Push-down system    | Max. hoisting weight               |                          | 2000 kg                   |
|                                  | Max. Push-down Force               |                          | 7 kN                      |
|                                  | Max. hoisting speed                |                          | 0.73 m/s                  |
| Hydraulic system                 | Working pressure                   |                          | 250 bar                   |
| Engine power                     | 27hp / 3600r/min                   |                          |                           |
| Weight                           | Max. Sets                          |                          | ≤105 kg                   |
|                                  | Overall unit                       |                          | ≤430 kg                   |
| Overall dimension                | About 1700×1400×3050 /When running |                          |                           |
| Piston mud pump                  | Gasoline or diesel power option    | Perssure                 | 14 bar                    |
|                                  |                                    | Displacement             | 120 L/min                 |
|                                  |                                    | Weight                   | ≤115 kg                   |
| Air screw compressor             | Total displacement                 |                          | 5 ~ 6 M <sup>3</sup> /min |
|                                  | Pressure                           |                          | 0.8 MPa                   |
|                                  | Weight                             |                          | ≤400 kg (Two Sets)        |

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# H&D MACHINE Co.,Ltd.

## HD-T100 TRACTOR DRILLING RIG



### Main Specification

| Drilling method                                                                                          | Depth                                                                  | Pipe ( diameter×length ) | Hole diameter           |
|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------|-------------------------|
| Mud drilling                                                                                             | 100 m                                                                  | φ50×2800                 | 75/90mm                 |
| Air drilling/<br>Hammer drilling                                                                         | 50 m                                                                   | φ50×2800                 | 75/82mm                 |
| Screw drilling                                                                                           | 30 m                                                                   | φ50 × φ90 × 2800         | 90mm                    |
| Sonic vibrate drilling                                                                                   | 30 m                                                                   | φ50×2800                 | 75mm                    |
| Multifunctional<br>power swivel                                                                          | Rating torque                                                          |                          | 1310 N.m                |
|                                                                                                          | Rated speed                                                            |                          | 0 ~ 390 r/min           |
|                                                                                                          | Max. vibrate frequency                                                 |                          | 180 Hz                  |
|                                                                                                          | Max vibrate force                                                      |                          | 194 kN                  |
| Hydraulic system<br>Hoisting/Push-down system /<br>Hydraulic cylinder control<br>double speed slid frame | Working pressure                                                       |                          | 180bar                  |
|                                                                                                          | Max. hoisting weight                                                   |                          | 2800 kg                 |
|                                                                                                          | Max. Push-down Force                                                   |                          | 14 kN                   |
|                                                                                                          | Max. hoisting speed                                                    |                          | 0.85 m/s                |
| Machine stabilization                                                                                    | Two rear jacks                                                         |                          |                         |
| Pipe clamp                                                                                               | Two direction hydraulic clamp /Single cylinder clamp (options)         |                          |                         |
| Unscrew tool                                                                                             | Swivel hydraulic control slide fork /Well-top hydraulic clamp(options) |                          |                         |
| Engine power                                                                                             | 51.4kW/2400r/min                                                       |                          |                         |
| Air screw compressor<br>/Standard                                                                        | Displacement                                                           |                          | 5.6 M <sup>3</sup> /min |
|                                                                                                          | Pressure                                                               |                          | 7 bar                   |
| Piston mud pump<br>/Options                                                                              | Displacement                                                           |                          | 200 L/min               |
|                                                                                                          | Pressure                                                               |                          | 40 bar                  |
| Overall weight                                                                                           | ≤5000 kg                                                               |                          |                         |

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## HD-T200 TRUCK-MOUNTED DRILLING RIG



### Main Specification

| Drilling method                                      | Depth                                                 | Pipe ( diameter×length ) | Hole diameter            |
|------------------------------------------------------|-------------------------------------------------------|--------------------------|--------------------------|
| Mud drilling                                         | 200 m                                                 | φ60×4500                 | 114mm                    |
| Air drilling<br>/Hammer drilling                     | 150 m                                                 | φ60 × 4500               | 114mm                    |
| Power swivel                                         | Rating torque                                         |                          | 4000 N.m                 |
|                                                      | Rated speed                                           |                          | 0 ~ 335 r/min            |
| Hydraulic system                                     | Working pressure                                      |                          | 190bar                   |
| Push down/ Hoisting system<br>/Hydraulic motor+chain | Max. hoisting weight                                  |                          | 4000 kg                  |
|                                                      | Max. Push down Force                                  |                          | 32 kN                    |
|                                                      | Max. hoisting speed                                   |                          | 1.2 m/s                  |
| Derrick                                              | Square section trusses frame                          |                          |                          |
| Machine stabilization                                | Two rear jacks                                        |                          |                          |
| Pipe clamp                                           | Mechanical clamp /Hydraulic clamp (options)           |                          |                          |
| Unscrew tool                                         | Mechanical slide fork /Hydraulic slide fork (options) |                          |                          |
| Air piston compressor<br>/Standard                   | Displacement                                          |                          | 12.5 M <sup>3</sup> /min |
|                                                      | Pressure                                              |                          | 8 bar                    |
| Piston mud pump /Options                             | Displacement                                          |                          | 600 L/min                |
|                                                      | Pressure                                              |                          | 80 bar                   |
| Vehicle                                              | Power                                                 |                          | 225kW                    |
|                                                      | Speed                                                 |                          | 2300rpm                  |
| Overall dimension<br>length×wide×high                | When move                                             |                          | 10300×3600×4200          |
|                                                      | When running                                          |                          | 8700×3600×8800           |
| Overall weight                                       | ≤16000 kg                                             |                          |                          |

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