

THE HDD WORLD TOOLING PROFILE

MUZAMMIL MAQSOOD

🌐 URL: <https://thehddworldksa.com>

☎ Phone#: +966590782710

CATALOG: 2025

BATTERY

SUPER CELL

| Parameter | Specification |
|-----------------------------------|----------------------------|
| Nominal Capacity | c8 Ah (2mA, +25°C cut-off) |
| Nominal Voltage | 3.6 V |
| Max. Continuous Current | 200 mA |
| Max. Pulse Capability | 400 mA |
| Storage Temperature (Recommended) | Max. 30°C |
| Operating Temperature Range | -60°C to +85°C |



Operation at temperatures different from ambient may lead to reduced capacity and lower voltage plateau readings.

Durable: works flawlessly under vibration, pressure and different temperature conditions.

Compatible with **Digitrak, Ditchwitch and Underground Magnetics transmitters.**

Best for difficult drilling conditions (rocky soil) and long boreholes.

High capacity battery life depends on the transmitter and drilling conditions.

BATTERY

SUPER CELL

Key Features

High and stable operating voltage

Low self-discharge rate (less than 5% after one year of storage at 25°C)

Long storage life

Wide operating temperature range

Stainless steel container (with low magnet)

Hermetic glass-to-metal sealing

Non-flammable electrolyte

CE, UL, SGS recognized, ISO9001 approved



Application

Utility metering

Memory back-up

Alarms and security devices

Tollgate systems

Military electronics

Automotive electronics

Professional electronics

GPS tracking

Real time clock

BATTERY

SUPER CELL

Safety Warning

It is strictly forbidden to short-circuit the battery positive and negative terminals.

Charging, discharging, heating above **60°C**, disassembly, or modification may cause explosion, combustion, or internal acid leakage.

Do not solder directly on the battery; use wire or nickel sheet by **spot welding**.

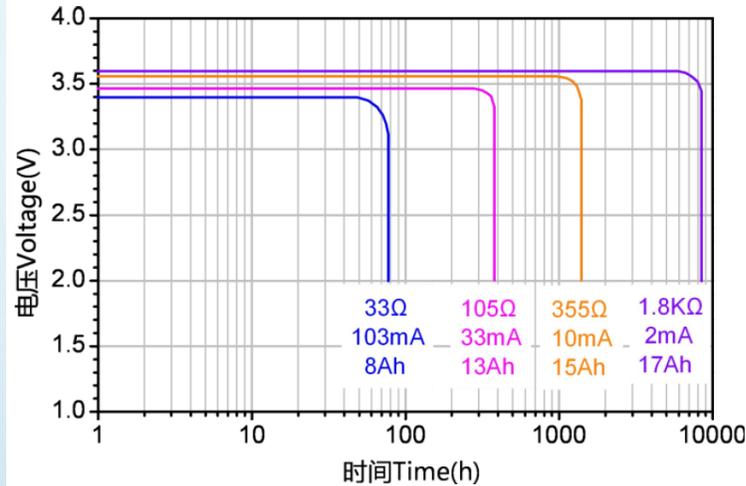
Do not mix used batteries with new batteries or mix different battery types.

Do not assemble batteries from different manufacturers together.

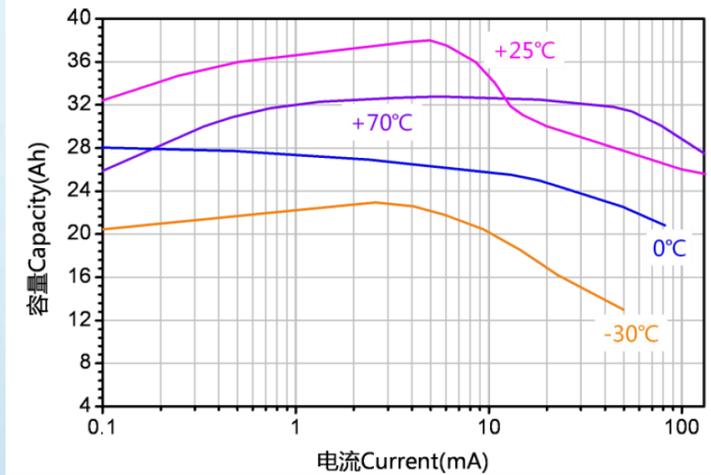
Do not use the battery beyond the specified temperature range.

Discharged batteries should be disposed of according to safety regulations (e.g., buried deeply where required).

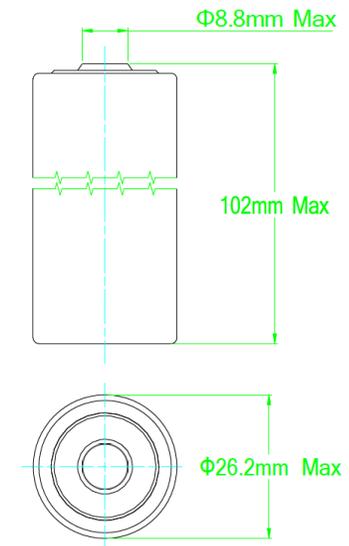
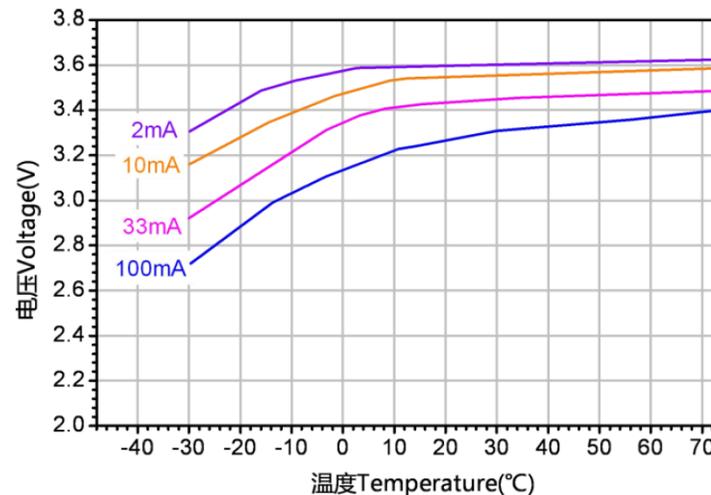
DISCHARGE CHARACTERISTICS (+25°C)



CAPACITY VERSUS CURRENT



VOLTAGE VERSUS TEMPERATURE



(For different connecting methods consult RAMWAY)

VERMEER HDD DRILLING PIPE

| Rig Model | Thread | OD | ID | Wall Thickness | Pin Length | Wrench Length | Material | Bend Radius | Method |
|----------------------------|---------|------|------|----------------|------------|---------------|----------|-------------|-------------|
| D6x6 | FS1*200 | 38.1 | 4.8 | 5.5 | 50.7 | 1828 | S135 | 17.5 | 1-pc Forged |
| D7x11, D9x13, D10x15 S3 | FS1*200 | 42.2 | 48 | 6 | 50.7 | 1828 | S135 | 29 | 1-pc Forged |
| D10x14, D10x15 S3 | FS1*250 | 48.2 | 56 | 6.4 | 55.3 | 3048 | S135 | 30 | 1-pc Forged |
| D16x20A, D16x22 | FS1*250 | 48.3 | 56 | 6.4 | 55.3 | 3048 | S135 | 30 | 1-pc Forged |
| D20x22, D20x22 S3 | FS1*400 | 52.4 | 57 | 6.5 | 63.5 | 3048 | S135 | 30 | 1-pc Forged |
| D24x26, D24x26 S3 | FS1*600 | 60.3 | 66.7 | 7.1 | 63.5 | 3048 | S135 | 30 | 1-pc Forged |
| D24x40, D24x40 S3 | FS1*650 | 60.3 | 66.7 | 7.1 | 63.5 | 3048 | S135 | 33 | 1-pc Forged |
| D33x44, D36x50 | FS1*650 | 60.3 | 70 | 7.1 | 63.5 | 4572 | S135 | 33 | 1-pc Forged |
| D36x50 S3, D40x55 S3 | FS1*700 | 62.7 | 79 | 10 | 70.1 | 3048 | S135 | 44 | 1-pc Forged |
| D40x55 S3, D40x55DR | FS2 | 60.3 | 70 | 7.1 | 63.5 | 3948 | S135 | 33 | 1-pc Forged |
| D40x55 S3, D40x55DR | FS2 | 60.3 | 70 | 7.1 | 63.5 | 4572 | S135 | 33 | 1-pc Forged |

DITCHWITCH HDD DRILLING PIPE

| Rig Model | Thread | OD | ID | Wall Thickness | Length | Material | Bend Radius | Method |
|-------------------|--------|-------|--------|----------------|--------|----------|-------------|------------------|
| JT5 | DW1.1 | 28.7 | 47.625 | 7 | 444 | S135 | 21 | Friction Welding |
| JT520C | DW1.1 | 28.7 | 47.625 | 7 | 444 | S135 | 21 | Friction Welding |
| JT520P | DW1.1 | 28.7 | 44.45 | 7 | 444 | S135 | 21 | Friction Welding |
| JT920 / JT921 | DW1.41 | 42.2 | 50.8 | 6.4 | 5500 | S135 | 33 | Friction Welding |
| JT920L | DW1.41 | 42.2 | 50.8 | 7.1 | 3000 | S135 | 33 | Friction Welding |
| JT922 | DW1.47 | 48.26 | 60.3 | 6.6 | 68.3 | 3048 | S135 | 33 |
| JT1220 / JT1220M1 | DW1.69 | 52.4 | 63.5 | 6.5 | 68.3 | 3000 | S135 | 33 |
| JT2020 / JT20 | DW1.94 | 52.4 | 66.7 | 6.5 | 70 | 3000 | S135 | 33 |
| JT2720 / JT30 | DW1.94 | 60.3 | 76 | 7.1 | 70 | 3000 | S135 | 33 |
| JT2720M1 / JT3020 | DW2.11 | 60.3 | 76 | 7.1 | 70 | 3000 | S135 | 33 |
| AT30 | DW2.77 | 50.8 | 87 | 7.1 | 63.5 | 2852 | S135 | 33 |
| AT100 | SS3.44 | 89 | 114 | 9.35 | 132.5 | 4310 | S135 | 33 |

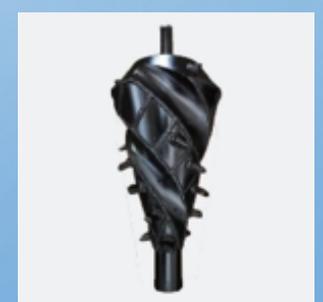
TT HDD DRILLING PIPE

| Rig Model | Thread | OD | ID | Wall Thickness | Pin Length | Wrench Length | Material | Bend Radius | Method |
|-----------|---------|------|----|----------------|------------|---------------|----------|-------------|--------|
| TT40X | FS1*200 | 42.2 | 48 | 6 | 50.7 | 1524 | S135 | 29 | Forged |

ONE-PIECE FORGED FLUTED REAMER

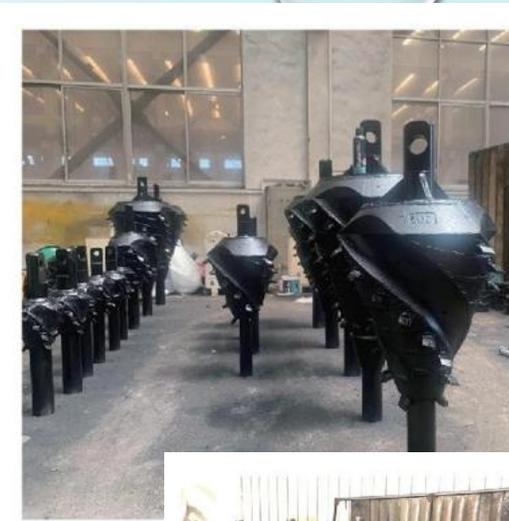
| Reamer Size | For 52mm pipe | For 60mm pipe | For 73mm pipe | For 83mm pipe | For 89mm pipe |
|--------------|---------------|---------------|---------------|---------------|---------------|
| 4.5" / 114mm | ✓ | | | | |
| 6" / 150mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 8" / 200mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 10" / 250mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 12" / 300mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 14" / 350mm | | | ✓ | ✓ | ✓ |
| 16" / 400mm | | | | ✓ | ✓ |
| 18" / 450mm | | | | ✓ | ✓ |

Tungsten carbide hard and wear-resistant



FLUTED REAMER

| Reamer Size | For 60mm pipe | For 73mm pipe | For 83mm pipe | For 89mm pipe | For 102mm pipe |
|-------------|---------------|---------------|---------------|---------------|----------------|
| 6" /150mm | ✓ | | | | |
| 8" /200mm | ✓ | ✓ | ✓ | | |
| 10" /250mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 12" /300mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 14" /350mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 16" /400mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 18" /450mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 20" /500mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 22" /550mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 24" /600mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 26" /650mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 28" /700mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 30" /750mm | | ✓ | ✓ | ✓ | ✓ |
| 32" /800mm | | ✓ | ✓ | ✓ | ✓ |
| 36" /900mm | | | ✓ | ✓ | ✓ |
| 40" /1000mm | | | | ✓ | ✓ |
| 44" /1100mm | | | | ✓ | ✓ |
| 48" /1200mm | | | | ✓ | ✓ |



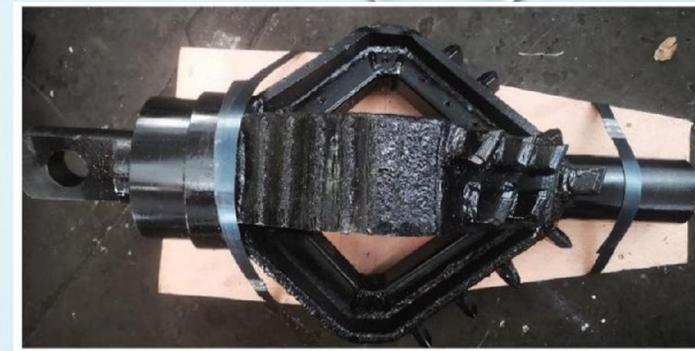
FLY CUTTER REAMER

| Reamer Size | For 60mm pipe | For 73mm pipe | For 83mm pipe | For 89mm pipe | For 102mm pipe |
|-------------|---------------|---------------|---------------|---------------|----------------|
| 6" /150mm | ✓ | | | | |
| 8" /200mm | ✓ | ✓ | ✓ | | |
| 10" /250mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 12" /300mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 14" /350mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 16" /400mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 18" /450mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 20" /500mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 22" /550mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 24" /600mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 26" /650mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 28" /700mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 30" /750mm | | ✓ | ✓ | ✓ | ✓ |
| 32" /800mm | | ✓ | ✓ | ✓ | ✓ |
| 36" /900mm | | | ✓ | ✓ | ✓ |
| 40" /1000mm | | | | ✓ | ✓ |
| 44" /1100mm | | | | ✓ | ✓ |
| 48" /1200mm | | | | ✓ | ✓ |



DIAMOND WING CUTTER REAMER

| Reamer Size | For 60mm pipe | For 73mm pipe | For 83mm pipe | For 89mm pipe | For 102mm pipe |
|-------------|---------------|---------------|---------------|---------------|----------------|
| 6" /150mm | ✓ | | | | |
| 8" /200mm | ✓ | ✓ | ✓ | | |
| 10" /250mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 12" /300mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 14" /350mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 16" /400mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 18" /450mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 20" /500mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 22" /550mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 24" /600mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 26" /650mm | | ✓ | ✓ | ✓ | ✓ |
| 28" /700mm | | ✓ | ✓ | ✓ | ✓ |



CARBIDES ARE DENSE, LONG WEARABLE AND CUTTING SHARP. USE OF HARD ALLOY CUTTER HEAD AND STAINLESS-STEEL EYE.



STACK PLATE REAMER

| Reamer Size | For 60mm pipe | For 73mm pipe | For 83mm pipe | For 89mm pipe | For 102mm pipe |
|-------------|---------------|---------------|---------------|---------------|----------------|
| 6" /150mm | ✓ | | | | |
| 8" /200mm | ✓ | ✓ | | | |
| 10" /250mm | ✓ | ✓ | ✓ | | |
| 12" /300mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 14" /350mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 16" /400mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 18" /450mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 20" /500mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 22" /550mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 24" /600mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 26" /650mm | | ✓ | ✓ | ✓ | ✓ |
| 28" /700mm | | ✓ | ✓ | ✓ | ✓ |
| 32" /800mm | | | | ✓ | ✓ |
| 36" /900mm | | | | | ✓ |



BARREL REAMER

| Reamer Size | For 73mm pipe | For 83mm pipe | For 89mm pipe | For 102mm pipe |
|-------------|---------------|---------------|---------------|----------------|
| 12" /300mm | ✓ | ✓ | ✓ | ✓ |
| 14" /350mm | ✓ | ✓ | ✓ | ✓ |
| 16" /400mm | ✓ | ✓ | ✓ | ✓ |
| 18" /450mm | ✓ | ✓ | ✓ | ✓ |
| 20" /500mm | ✓ | ✓ | ✓ | ✓ |
| 22" /550mm | ✓ | ✓ | ✓ | ✓ |
| 24" /600mm | ✓ | ✓ | ✓ | ✓ |
| 26" /650mm | ✓ | ✓ | ✓ | ✓ |
| 28" /700mm | | ✓ | ✓ | ✓ |
| 32" /800mm | | | ✓ | ✓ |
| 36" /900mm | | | ✓ | ✓ |
| 40" /1000mm | | | | ✓ |



PADDLE REAMER

| Reamer Size | For 60mm pipe | For 73mm pipe | For 83mm pipe | For 89mm pipe | For 102mm pipe |
|-------------|---------------|---------------|---------------|---------------|----------------|
| 7" /175mm | ✓ | | | | |
| 8" /200mm | ✓ | ✓ | | | |
| 10" /250mm | ✓ | ✓ | ✓ | | |
| 12" /300mm | ✓ | ✓ | ✓ | ✓ | |
| 14" /350mm | ✓ | ✓ | ✓ | ✓ | |
| 16" /400mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 18" /450mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 20" /500mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 22" /550mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 24" /600mm | ✓ | ✓ | ✓ | ✓ | ✓ |
| 26" /650mm | | ✓ | ✓ | ✓ | ✓ |
| 28" /700mm | | ✓ | ✓ | ✓ | ✓ |
| 30" /750mm | | | ✓ | ✓ | ✓ |
| 32" /800mm | | | ✓ | ✓ | ✓ |
| 36" /900mm | | | | ✓ | ✓ |



STAGGERED WELDING OF THE REAMER BLADES CAN REDUCE RESISTANCE AND FACILITATE CUTTING. WELDING CARBIDES ON THE CUTTING SURFACE WILL BE MORE WEAR-RESISTANT.



SWIVELS

| Double Clevis Swivels | Reamer Swivels |
|-----------------------|----------------|
| 2.5T | |
| 5T | 5T |
| 10T | 10T |
| 15T | |
| 20T | 20T |
| 30T | 30T |
| 40T | 40T |
| 45T | |
| 50T | |
| 60T | 60T |
| 80T | 80T |
| 100T | |



USE HIGH QUALITY SKELETON OIL SEALS AND BEARINGS TO INCREASE SERVICE LIFE.



HOUSING

Vermeer Side-load Housing

| Model Compatibility | Rear Connection | Outside Diameter | Locating System Compatibility | Bit Bolt Pattern |
|------------------------------|-----------------|------------------|-------------------------------|------------------|
| D6X6 - D10X15 S3 | #200 | 70mm | 15" (380mm) | 6-M12 |
| D16X20 - D40X40 | 2 3/8" Reg | 76mm | 15" (380mm) | 6-M12 |
| D24X40 - D40X55 S3 | 2 3/8" Reg | 83mm | 15" (380mm) | 6-M12 |
| D50X100A - D80X100 Series II | 2 7/8" Reg | 89mm | 15" (380mm) | 6-M16 |
| D100X140 S3 | 3 1/2" Reg | 114mm | 15" (380mm) | 6-M20 |



Ditchwitch Side-load Housing

| Model | Compatibility | Outside Diameter | Locating System | Bolt Pattern |
|-----------------|-----------------|------------------|-----------------|--------------|
| JT920 - JT922 | DW1.3 / DW1.41 | 63mm | 15" (380mm) | 5-M12 |
| JT1220 | DW1.47 | 70mm | 15" (380mm) | 5-M12 |
| JT1720 - JT2020 | DW1.69 / DW1.94 | 76mm | 15" (380mm) | 5-M12 |
| JT25 - JT3020M1 | 2 3/8" Reg | 89mm | 17.5" (447mm) | 6-M12 |
| JT40 - JT4020M1 | 2 3/8" Reg | 89mm | 17.5" (447mm) | 6-M16 |
| JT7020 - JT100 | 2 7/8" Reg | 108mm | 17.5" (447mm) | 6-M16 |
| AT30 | For All Terrain | | | |
| AT40 | For All Terrain | | | |



PHONE# : +966590782710

URL : <https://thehddworldksa.com>

HOUSING

Back-load Housing

| Model Compatibility | Outside Diameter | Locating System Compatibility | Bit Bolt Pattern |
|---------------------|------------------|-------------------------------|------------------|
| 60 | 81mm | 15° (380mm) | 6-M14 |
| 73 | 98mm | 15° (380mm) | 6-M16 |
| 83 | 98mm | 15° (380mm) | 6-M16 |
| 89 | 105mm | 15° (380mm) | 6-M14 |

Rockmaster Housing

| Model Compatibility | Rock Bit Outside Diameter | Notes |
|---------------------|---------------------------|-------|
| 60 | 90mm | |
| 73 | 112mm | |
| 89 | 140mm | |



QUICK CONNECTION

Ditchwitch Quick Connection

| Model | Starter Rod | Collar | Adapter Saver |
|----------|-------------|--------|---------------|
| JT20F | ✓ | ✓ | ✓ |
| JT922 | ✓ | ✓ | ✓ |
| JT1220 | ✓ | ✓ | ✓ |
| JT1720 | ✓ | ✓ | ✓ |
| JT2020 | ✓ | ✓ | ✓ |
| JT2720M1 | ✓ | ✓ | ✓ |
| JT3020 | ✓ | ✓ | ✓ |



QUICK CONNECTION

Vermeer Quick Connection

| Model | Starter Rod | Collar | Left & Right |
|----------|-------------|--------|--------------|
| D7x11 | ✓ | ✓ | ✓ |
| D16x20 | ✓ | ✓ | ✓ |
| D20x22 | ✓ | ✓ | ✓ |
| D24x40 | ✓ | ✓ | ✓ |
| D33x44 | ✓ | ✓ | ✓ |
| D36x50I | ✓ | ✓ | ✓ |
| D36x50II | ✓ | ✓ | ✓ |

Chines Rig Quick Connection

| Model | Starter Rod | Collar | Left & Right |
|-------|-------------|--------|--------------|
| 60 | ✓ | ✓ | ✓ |
| 73 | ✓ | ✓ | ✓ |



WISE JAW

| No. | Compatible Drilling Pipe |
|----------------|---|
| 1. UT236076001 | D7X11A, D10X15 S3 |
| 2. UT236090001 | D7X11A, D10X15 S3 |
| 3. UT230831001 | D24X40A, D24X40 Series II, D24X40 S3 |
| 4. UT276415001 | D36X50, D36X50 Series II, D40X55 S3 |
| 5. UT296310768 | D36X50, D40X55 S3 |
| 6. UT296279701 | D20X22, D20X22 Series II, D20X22FX Series II, D23X30 S3 |
| 7. UT296279702 | D20X22, D20X22 Series II, D20X22FX Series II, D23X30 S3 |
| 8. UT236111001 | D16X20, D16X20 Series II, D18X22, D20X22 S3 |
| 9. UT236112001 | D16X20, D16X20 Series II, D18X22, D20X22 S3 |



BLADES

| Size | 4" | 4.5" | 5" | 5.5" |
|-----------|---|---|--|------|
| Available | ✓ | ✓ | ✓ | |
| |  |  |  | |
| |  |  |  | |
| | |  | | |
| | |  | | |

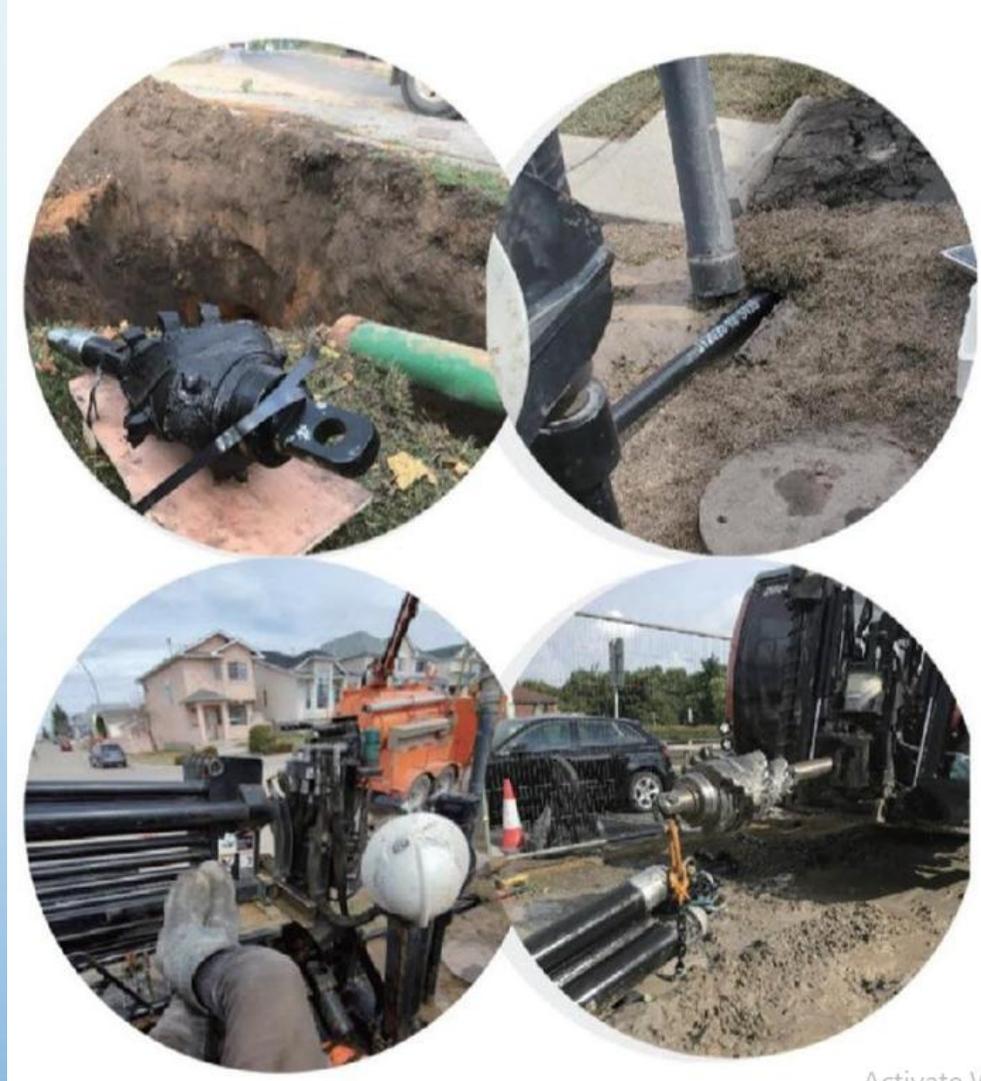
| Size | 4" | 4.5" | 5" | 5.5" |
|-----------|---|--|---|------|
| Available | ✓ | ✓ | ✓ | |
| |  |  |  | |
| | |  | | |
| | |  | | |

CARBIDE TEETH

| BR1 | BR2 | BR3 | BR4 | RT2 |
|-----|------|------|------------|-----|
| ✓ | ✓ | ✓ | ✓ | ✓ |
| RT1 | DT50 | DT87 | Rock Teeth | |
| ✓ | ✓ | ✓ | ✓ | |



CUSTOMER FEEDBACK



THANK YOU



SHOULD YOU REQUIRE ANY ASSISTANCE,
PLEASE CONTACT US.



-MUZAMMIL MAQSOOD

URL: <https://thehddworldksa.com>

Phone#: +966590782710