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# Talashgaran Fartak

**Commercial , Drilling & Exploration.Co**

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# فهرست محصولات

# درباره شرکت

شرکت حفاری و اکتشاف تلاشگران فرتاک، از شرکت های هلدینگ تلاشگران اقتصاد پایدار میباشد. این شرکت مفتخر است با بهره گیری از پرسنل مجرب و متخصص، همکاری با کمپانی های معتبر اروپایی و آسیایی و با رعایت استانداردهای کیفی، با شتابی هرچه بیشتر از گذشته، جایگاه خود را در حوزه بازرگانی ماشین آلات و اجرای پروژه های حفاری و اکتشاف معادن ارتقاء دهد. زمینه فعالیت شرکت در حوزه های حفاری و اکتشاف معادن ایران، با رویکرد مالکیت ماشین آلات و تجهیزات می باشد. از دیگر حوزه های فعالیت شرکت ارائه خدمات بازرگاني با اخذ نمایندگی از شرکت هاي معتبر داخلی و خارجی در خصوص تامین ماشین آلات، قطعات، قطعات یدکی و تجهیزات درون چاهی جهت پروژه های داخل و خارج از کشور است. در این راستا شرکت، خدمات پس از فروش و گارانتی مورد نیاز خریداران را با تمرکز در واحد مرکزی خود، در مرکزی مجهز به ابزار و تجهیزات تعمیرگاهی به روز و استاندارد و تیمی مجرب و آموزش دیده، جهت پشتیبانی ماشین آلات عرضه شده و همراهی سایر پیمانکاران جهت تامین قطعات یدکی و تجهیزات درون چاهی مورد نیاز ارائه می نماید. از دیگر فعالیت های شرکت، تامین ماشین آلات تخصصی سنگین معدنی و عمرانی و همچنین تجهیزات، قطعات و لوازم یدکی مورد نیاز این ماشین آلات، مي باشد. چشم انداز شرکت در پنج سال آینده قرارگیری در لیست ۳ شرکت برتر فعال در زمینه حفاری و اکتشاف معدن در ایران است. استراتژی شرکت استفاده از تکنولوژی های روز دنیا و همچنین آموزش تخصصی کاربران و اپراتورهای ماشین آلات معادن بصورت علمی و آکادمیک می باشد. این شرکت بعنوان پایه گذار آموزش تخصصی، حرفه ای و آکادمیک اپراتورهای دستگاه های حفاری و ایرلاین و سایر تجهیزات، موجب ایجاد تحولی مثبت و نوین و پایه گذار فعالیت تکنیکال و اصولی در ایران می باشد. در این شرکت کوشش شده است تا اطلاعات اساسی و مورد نیاز در رابطه با حوزه های فعالیت و خدماتی که این شرکت ارائه می دهد در اختیار مشتریان، معدن داران، شرکت های پیمانکار حفاری همکار و کاربران قرار گیرد تا با ارتباطی سازنده از نظرات، پیشنهادات، انتقادات و تجربیات ایشان استفاده شده و انتظارات مشتریان خود را تأمین نماید و در جهت بهبود وضعیت موجود گام های بلندتری بردارد.

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# Core Drilling Rigs

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# Core Drilling Rig
# EDM1001

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# EDM1001

EDM 1001 with the average of 300 meters (BQ) of drilling capacity can operate in soil exploration and mine drilling

with its light and easy use. It could arbitrarily be mounted on truck platform or tracks.

Optionally:

- Automatic upper jaw
- 80 Lt (T80) or 135 Lt (T135) mud pump
- Wire-Line
- Automatic SPT
- Mechanical or hydraulic brake

| | |
|---|---|
| DRILLING CAPACITY | BQ-500mt |
| | NQ-300mt |
| | HQ-200mt |
| ENGINE POWER | 30-70hp diesel engine/electric engine is used arbitrarily |
| SPINDEL FEATURES | 89mm. regulator cover could be applied. |
| | Turning angle is 360 degrees |
| | Travelling distance is 500 mm. |
| HYDRAULIC SYSTEM | 16cc hydraulic pump, flow rate and pressure |
| | Regulated hydraulic spindle stress, 40Lt hydraulic oil tank |
| GEAR BOX | 4 or 5 forward, 1 reverse gear |
| TOWER FEATURES | It has manufactured from hydraulic 40x40x3 mm |
| | Profile that can go up and down. 6 cm of height, with 6 pulleys, in 2.30 m. |
| | height when the Tower is aslope |
| CRANE SYSTEM | With planet reducer system, 3000kg of hanging capacity |
| WIDTH | 80 cm |
| HEIGHT | 230 cm |
| CARRIER | Mobile Skidder, Tracking Pallet. Truck |
| WEIGHT | 1300 Kg |

# Core Drilling Rig EDM1002

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# EDM1002

EDM1002 that has the average drilling capacity of 3700 meters (NQ) can reduce max. of 5000nm torque through its powerful spindle box. EDM 1002 that can drill 360 degrees is used in soil exploration, mine and tunnel drilling. It has the standard automatic upper jaw. 135Lt/min (T135) mud pump and wireline. It could arbitrarily be mounted on truck, platform or tracks.

Optionally:

-Automatic SPT

-250 Lt/min (T250) mud pump

-Mechanical or hydraulic rod brake

| | |
|---|---|
| DRILLING CAPACITY | BQ-900mt<br>NQ-700mt<br>HQ-500mt<br>PQ-350mt |
| ENGINE POWER | 70-1100hp diesel engine/electric engine can arbitrarily be applied |
| SPINDEL FEATURES | 89mm. regulator cover could be applied.<br>Turning angle is 360 degrees<br>Travelling distance is 700 mm. |
| HYDRAULIC SYSTEM | hydraulic pump with tandem pump<br>Hydraulic cooling radiator<br>60Lt hydraulic oil tank |
| GEAR BOX | 5 or 6 forward, 1 reverse gear |
| TOWER FEATURES | It has manufactured from hydraulic 40x40x3 mm<br>Profile that can go up and down. 6 cm of height, with 6 pulleys, in 2.30 m.<br>height when the Tower is aslope |
| CRANE SYSTEM | With planet reducer system, 5000kg of hanging capacity |
| WIDTH | 120 cm |
| HEIGHT | 350 cm |
| CARRIER | Mobile Skidder, Tracking Pallet. Truck |
| WEIGHT | 2550 Kg |

| EDM1002 TECHNICAL SPECIFICATIONS | HEAVY (TORQUE-KG) | HEAVY (RPM) | FAST (TORQUE-KG) | FAST (RPM) |
|---|---|---|---|---|
| 1. Gear | 4900Nm – 500 Kg | 25 rpm | 1620Nm – 165 Kg | 180 rpm |
| 2. Gear | 3140Nm – 320 Kg | 50 rpm | 885Nm – 90 Kg | 300 rpm |
| 3. Gear | 1960 Nm – 200 Kg | 95 rpm | 490Nm – 50 Kg | 460 rpm |
| 4. Gear | 1470Nm – 150 Kg | 150 rpm | 345Nm – 35 Kg | 690 rpm |
| 5. Gear | 980 Nm – 100 Kg | 210 rpm | 200Nm – 20 Kg | 1150 rpm |

# Core Drilling Rig EDM1003

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# EDM1003

EDM 1003 that has the average drilling capacity of 1000 meters (NQ) can reduce max. of 5000nm torque through its powerful spindle box. EDM 1002 that can drill 360 degrees is used in soil exploration, mine and tunnel drilling. It has the standard automatic upper jaw. 135Lt/min (T135) mud pump and wireline. It could arbitrarily be mounted on truck, platform or tracks.

Optionally:

·Automatic SPT

·Mechanical or hydraulic rod brake

| | |
|---|---|
| DRILLING CAPACITY | BQ–1000mt |
| | NQ–600mt |
| | HQ–400mt |
| | PQ–200mt |
| ENGINE POWER | 130–180hp diesel engine/electric engine can arbitrarily be applied |
| SPINDEL FEATURES | PQ pipe could go into hallow (117 mm of hallow interior diameter) |
| | Turning angle is 360 degrees |
| | Travelling distance is 1000 mm. |
| HYDRAULIC SYSTEM | hydraulic pump with tandem pump |
| | Hydraulic cooling radiator |
| | 75Lt hydraulic oil tank |
| GEAR BOX | 5 or 6 forward, 1 reverse gear |
| TOWER FEATURES | It has manufactured from hydraulic 40x40x4 mm |
| | Profile 8m of height, with 6 pulleys, in 2.90 m. height |
| | when the Tower is aslope |
| CRANE SYSTEM | With planet reducer system, 10.000kg of hanging capacity |
| WIDTH | 155 cm |
| HEIGHT | 420 cm |
| CARRIER | Mobile Skidder, Tracking Pallet. Truck |
| WEIGHT | 4500 Kg |

| EDM1003 TECHNICAL SPECIFICATIONS | HEAVY (TORQUE-KG) | HEAVY (RPM) | FAST (TORQUE-KG) | FAST (RPM) |
|---|---|---|---|---|
| 1. Gear | 12550Nm – 128 Kg | 25 rpm | 4420Nm – 450 Kg | 145 rpm |
| 2. Gear | 8050Nm – 820 Kg | 50 rpm | 2450Nm – 250 Kg | 240 rpm |
| 3. Gear | 5100 Nm – 520 Kg | 65 rpm | 1470Nm – 150 Kg | 370 rpm |
| 4. Gear | 3830Nm – 390 Kg | 150 rpm | 1200Nm – 130 Kg | 680 rpm |
| 5. Gear | 2000 Nm – 205 Kg | 180 rpm | 882Nm – 90 Kg | 1150 rpm |

# Core Drilling Rig
# EDM3011

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# Core Drilling Rig
## EDM3011

EDM 3011 the smallest and most compact, all hydraulic mechanized core drill in the EDM range.
EDM 3011 is ideal for coring and grout hole drilling in narrow tunnels or galleries as well as in cramped spaces underground. The EDM 3011 drill is equally efficient for surface drilling operations.
As an option the drill unit can be mounted on carriers for special purposes like a; a narrow crawler for underground use, or a wide crawler for surface use.
The drill unit can be powered by an electric motor or diesel engine. When the drill rig is equipped with the electrical power unit, as an optional diesel engine for tramming is available.
The compact design and light weight, makes the EDM 3011 easy and fast to set-up for drilling. This in turn offers quicker moves between drill sites, without disturbing normal production routines in the mine or grouting sequences in dam galleries.
To achieve the best results with regard to:
-high penetration
-optimal core recovery
-and low drilling costs
It is of primary importance that drill rods, core barrels and coring bits are of the right type and quality, matched to the rock drill and to the prevailing rock conditions.
Bearing in mind core drill's speed of rotation, its rating and chuck diameter, the EDM 3011 is best suited to drill holes 36-46 mm in diameter (A). The spindle inner diameter is 50 mm (1.97 in) in the A-size rotation unit.

# Technical Specifications

## Drilling Depth Capacity EDM3011

These figures serve as guidelines only. They are calculated with available pull/feed force, weight of drill string in water filled hole, average WOB and reserve for breaking solid core in rock with 5MPa Tensile Strength. Company cannot guarantee these capacities will be reached in all working conditions due to varying factors such ITH used, conditions of the ground and differences in operation.

| | Vertical Down | | Vertical Up | |
|---|---|---|---|---|
| **Drill Rod** | **Metric** | **U.S. System** | **Metric** | **U.S. System** |
| AO Wireline | 180 m | 590 ft | 150 m | 492 ft |
| AWJ Conventional | 120m | 393 ft | 100m | 328ft |

| **Rotation Unit** | |
|---|---|
| Rod sizes: | A |
| Power: | Hydraulic Motor |
| Max. Torque: | 250 Nm (184 ft lbf) |
| Max. Rotation Speed: | 2200 rpm |
| Type: | Hydraulic Closed, Spring Open |
| Spindle Inner Diameter: | 50 mm (1.97 in) |
| Chuck axial holding force: | 28 kN (6295 lb) |

**System Power Unit**

| **Electrical Power Unit PU15E** | Metric | U.S. System |
|---|---|---|
| Power: | 15 kW | 20 hp |
| RPM: | 1450 | 1450 |
| Primary Pump: | 50 l/min – 210 bar | 13.2 gal/min – 3050 psi |
| Secondary Pump: | 5 l/min – 210 bar | 1.32 gal/min – 3050 psi |
| Hydraulic Oil Cooling: | Water | |

| **Feed Frame** | 850 | |
|---|---|---|
| | **Metric** | **U.S. System** |
| Feed Stroke: | 850 mm | 33.5 in |
| Thrust Force: | 20 kN | 4500 lbf |
| Pull Force: | 15 kN | 3372 lbf |
| Max. Feed Speed: | 0.8 m/s | 2.6 fps |

| **Rod Holder** | Metric | U.S. System |
|---|---|---|
| Max. Opening: | 52 kN | 2.05 lbf |
| Holding Force: | 25 kN | 5620 lbf |
| Type: | Hydraulically open, disc spring close | |

**Flush Pump**

| **TP45E with 4kW Electric Motor** | Metric | U.S. System |
|---|---|---|
| Flow: | 45 l/min | 12 gal./min |
| Pressure: | 45 bar | 650 psi |


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# Core Drilling Rig EDM3012

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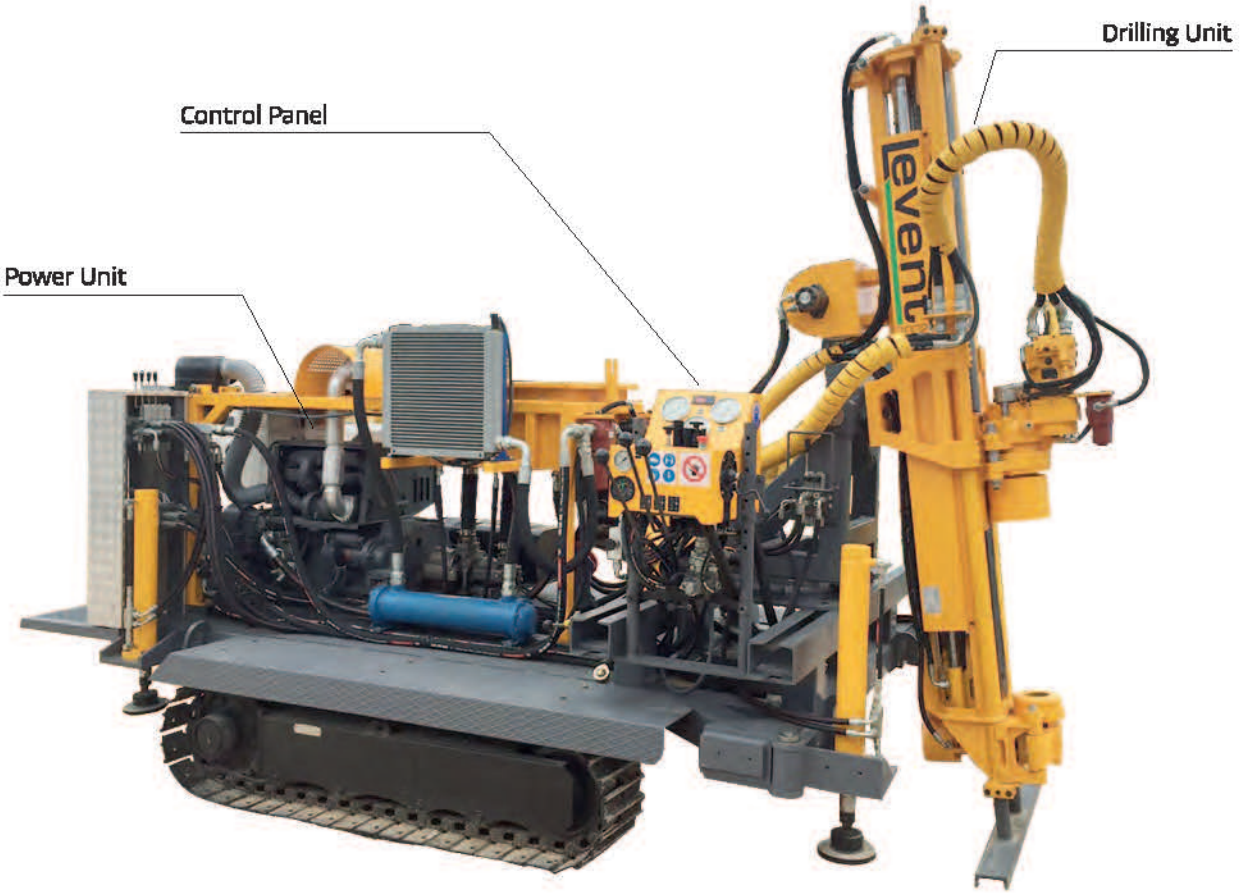
# Core Drilling Rig
## EDM3012

The EDM 3012 is an all-hydraulic diamond core drill rig with a wide range of options and accessories. It consists of three main parts: the drill unit a power unit and a control console. As an option the drill unit can be mounted on carriers for special purposes like a; a narrow crawler for underground use, or a wide crawler for surface use.
It is suitable for a variety of drilling methods in both underground and surface operations such as core drilling, grout hole drilling, probing etc..
The drill unit can be powered by an electric motor or diesel engine. When the drill rig is equipped with the electrical power unit, as an optional diesel engine for tramming is available.
The EDM 3012 uses the best technology available for diamond core drills. All tube jointing, thread breaking, feeding, wireline hoist sequences are controlled from a control console which can be positioned to suit the setup.
Feeding is done by a direct cylinder and chain system.
The drill can be equipped with three different feed lengths, and two different sizes of rotation units to suit rod size and drilling applications.
To achieve the best results with regard to:
-high penetration
-optimal core recovery
-and low drilling costs
It is of primary importance that drill rods, core barrels and coring bits are of the right type and quality, matched to the rock drill and to the prevailing rock conditions.
Bearing in mind core drill's speed of rotation, its rating and chuck diameter, the EDM 3012 is best suited to drill holes 48-76 mm in diameter (A-N) using both conventional as well as wire line rods.
The spindle inner diameter is 78 mm (3.07 in) in the N-size rotation unit.



# Technical Specifications

## Drilling Depth Capacity EDM3012

These figures serve as guidelines only. They are calculated with available pull/feed force, weight of drill string in water filled hole, average WOB and reserve for breaking solid core in rock with 5MPa Tensile Strength. EDM cannot guarantee these capacities will be reached in all working conditions due to varying factors such ITH used, conditions of the ground and differences in operation.

| | Vertical Down | | Vertical Up | |
|---|---|---|---|---|
| **Drill Rod** | **Metric** | **U.S. System** | **Metric** | **U.S. System** |
| AO Wireline | 700 m | 2296 ft | 460 m | 1509 ft |
| BO / BRO Wireline | 600 m | 1968 ft | 400 m | 1312 ft |
| NO / NRO Wireline | 400 m | 1312 ft | 290 m | 951 ft |
| NRO Thin Wall | 500 m | 1640 ft | 325 m | 1066 ft |

| **Rotation Unit** | Standard Type | High-Speed Type |
|---|---|---|
| Rod sizes: | A–N | A–N |
| Power: | Hydraulic Motor | Hydraulic Motor |
| Max. Torque: | 1350 Nm (995 ft lbf) | 680 Nm (501 ft lbf) |
| Max. Rotation Speed: | 900 rpm | 2200 rpm |
| Type: | Hydraulic Closed, Spring Open | Hydraulic Closed, Spring Open |
| Spindle Inner Diameter: | 78 mm (3.07 in) | 78 mm (3.07 in) |
| Chuck axial holding force: | 98 kN (22000 lb) | 98 kN (22000 lb) |

**System Power Unit**

| **Electrical Power Unit PU55E** | Metric | U.S. System |
|---|---|---|
| Power: | 55 kW | 75 hp |
| RPM: | 1450 | 1450 |
| Primary Pump: | 80 l/min – 260 bar | 21 gal/min – 3770 psi |
| Secondary Pump: | 40 l/min – 210 bar | 10.5 gal/min – 3045 psi |
| Oil Tank: | 150 liters | 40 gallons |
| Hydraulic Oil Cooling: | Water and Air Oil Cooler | |

**System Power Unit**

| **Diesel Power Unit PU150D** | Metric | U.S. System |
|---|---|---|
| Volume: | 4.3 liter | 1.13 gallons |
| Power: | 78 kW | 105 bhp |
| RPM: | 2200 | 2200 |
| Electrical System: | 24V | 24V |
| Cooling System: | Air | |
| Emmissions Certifications: | Stage II | Tire 2 |
| Engine Type: | Turbo Charged, After Cooled Diesel Engine | |
| Primary Pump: | 80 l/min – 260 bar | 21 gal/min – 3770 psi |
| Secondary Pump: | 60 l/min – 210 bar | 16 gal/min – 3045 psi |
| Oil Tank: | 150 liters | 40 gallons |
| Hydraulic Oil Cooling: | Water and Air Oil Cooler | |

| Feed Frame Alternatives | 850 | | 1800 | | 3300 | |
|---|---|---|---|---|---|---|
| EDM3012 | Metric | U.S. System | Metric | U.S. System | Metric | U.S. System |
| Feed Stroke: | 850 mm | 33.5 in | 1800 mm | 71 in | 3300 mm | 130 in |
| Thrust Force: | 60 kN | 13488 lbf | 60 kN | 13488 lbf | 60 kN | 13488 lbf |
| Pull Force: | 60 kN | 13488 lbf | 60 kN | 13488 lbf | 60 kN | 13488 lbf |
| Max. Feed Speed: | 0.8 m/s | 2.6 fps | 0.8 m/s | 2.6 fps | 0.8 m/s | 2.6 fps |
| Drilling Angle | 360 degrees | | | | | |

| Rod Holder | Metric | U.S. System |
|---|---|---|
| Maximum Rod Size (HO) | 114.3 mm | 4.5 in |
| Maximum Inside Diameter (w/oJaws): | 130 mm | 5.1 in |
| Holding Force: | 20 kN | 4496 lbf |
| Holding Force with TC Inserts: | 30 kN | 6744 lbf |
| Type: | Hydraulically open, disc spring close | |

| Wireline Hoist | Metric | U.S. System |
|---|---|---|
| Drum Capacity (4.76mm – 3/16" wire) | 400 m | 1312 ft |
| Line pull min. (full drum) | 3.4 kN | 765 lb |
| Line pull max. (bare drum) | 5.8 kN | 1303 lb |
| Line speed min. (bare drum) | 120 m/min | 393 ft/min |
| Line speed max. (full drum) | 250 m/min | 820 ft/min |

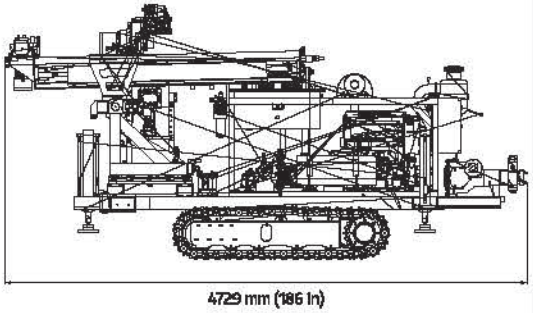
**Mud Pump Alternatives**

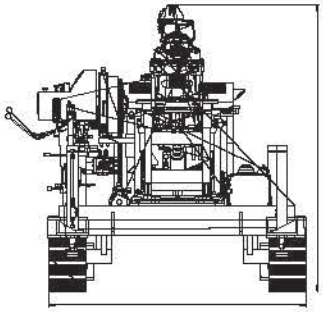
| TP80H | Metric | U.S. System |
|---|---|---|
| Flow: | 80 l/min | 21 gal./min |
| Pressure: | 60 bar | 870 psi |

| TP135H | Metric | U.S. System |
|---|---|---|
| Flow: | 1351 l/min | 35 gal./min |
| Pressure: | 70 bar | 1000 psi |

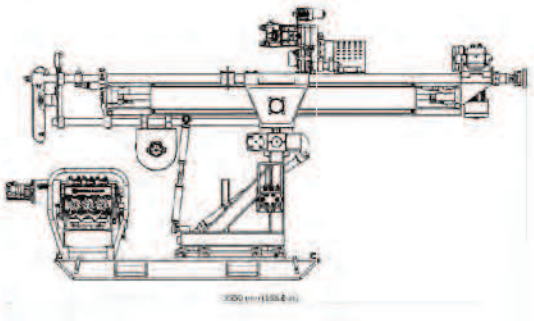
# Transportation Dimensions

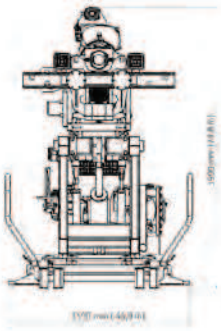
## EDM3012 Crawler

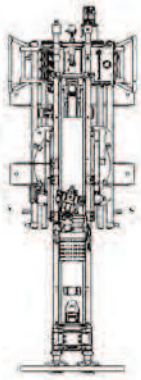


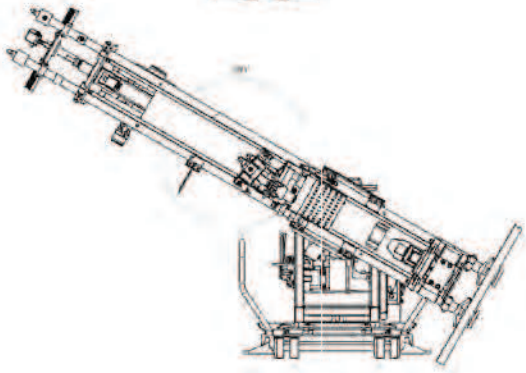



## EDM3012 Skid

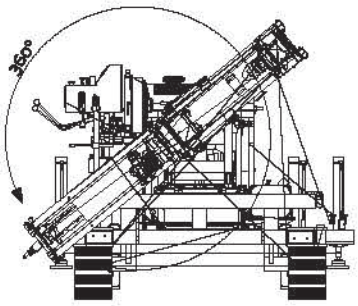


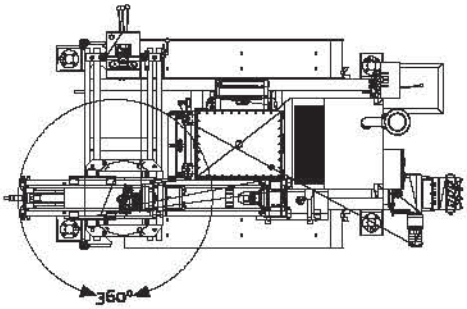






# Working Dimensions



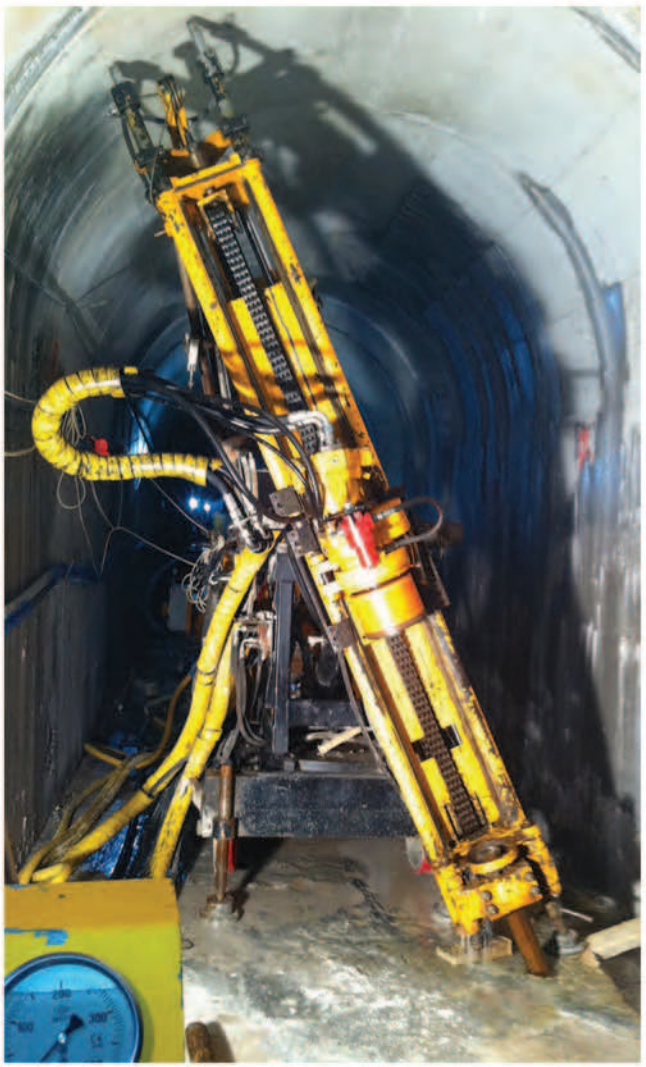




**Weight**

| | |
|---|---|
| **EDM3012 DC:** | **4500 kg (9921 lb)** |
| **EDM3012 EC/d:** | **4800 kg (10582 lb)** |

**Weight**

| | |
|---|---|
| **EDM3012 ES:** | **2560 kg (5644 lb)** |

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# Core Drilling Rig
# EDM3013

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# Core Drilling Rig
## EDM3013

The EDM 3013 is an all–hydraulic diamond core drill rig with a wide range of options and accessories. It consists of three main parts: the drill unit a power unit and a control console. As an option the drill unit can be mounted on carriers for special purposes like a; a narrow crawler for underground use , or a wide crawler for surface use. It is suitable for a variety of drilling methods in both underground and surface operations such as core drilling, grout hole drilling, probing etc..

The drill unit can be powered by an electric motor or diesel engine. When the drill rig is equipped with theelectrical power unit, as an optional diesel engine for tramming is available.

The EDM 3013 uses the best technology available for diamond core drills. All tube jointing, thread breaking,feeding, wireline, hoist sequences are controlled from a control console which can be positioned to suit the setup.

Feeding is done by a direct cylinder, thereby eliminating chains in the feed system.

The drill can be equipped with two different feed lenghts, and two different sizes of rotation units to suit rod size and drilling applications.

To achieve the best results with regard to:

–high penetration

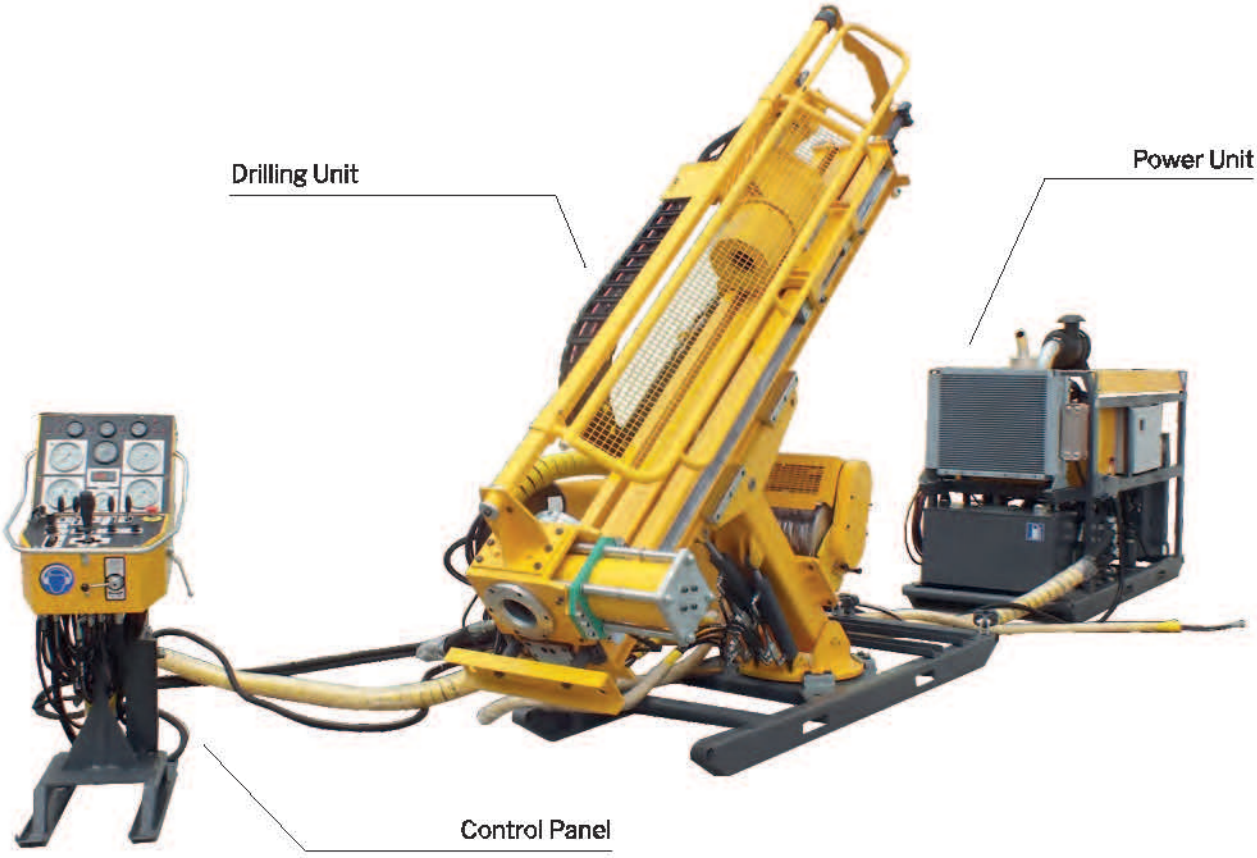
–optimal core recovery

–and low drilling costs

It is of primary importance that drill rods, core barrels and coring bits are of the right type and quality, matched to the rock drill and to the prevailing rock conditions.

Bearing in mind core drill's speed of rotation, Its rating and chuck diameter, the EDM 3013 is best suited to drill holes 60–96 mm in diameter (B–H) using both conventional as well as wire line rods.

The spindle inner diameter is 101.6 mm (4 in) in the H–size rotation unit.



# Technical Specifications

## Drilling Depth Capacity EDM3013

These figures serve as guidelines only. They are calculated with available pull/feed force, weight of drill string in water filled hole, average WOB and reserve for breaking solid core in rock with 5MPa Tensile Strength. EDM cannot guarantee these capacities will be reached in all working conditions due to varying factors such ITH used, conditions of the ground and differences in operation.

| | Vertical Down | | Vertical Up | |
|---|---|---|---|---|
| **Drill Rod** | **Metric** | **U.S. System** | **Metric** | **U.S. System** |
| AO Wireline | 1500 m | 4921 ft | 900 m | 2952 ft |
| NO / NRO Wireline | 850 m | 2788 ft | 468 m | 1535 ft |
| NRO Thin Wall | 1000 m | 3280 ft | 550 m | 1804 ft |
| HO / HRO Wireline | 550 m | 1804 ft | 303 m | 994 ft |
| HRO Thin Wall | 632 m | 2073 ft | 348 m | 1141 ft |

**Rotation Unit**

| | |
|---|---|
| Rod sizes: | B – H |
| Power: | Hydraulic Motor |
| Max. Torque: | 2300 Nm (1696 ft lbf) |
| Max. Rotation Speed: | 1200 rpm |
| Type: | Hydraulic Closed, Spring Open |
| Spindle Inner Diameter: | 101.6 mm (4 in) |
| Chuck axial holding force: | 150 kN (33721 lb) |

**System Power Unit**

| **Electrical Power Unit PU90E** | Metric | U.S. System |
|---|---|---|
| Power: | 90 kW | 122 hp |
| RPM: | 1450 | 1450 |
| Primary Pump: | 200 l/min – 315 bar | 52.8 gal/min – 4569 psi |
| Secondary Pump: | 65 l/min – 240 bar | 17.2 gal/min – 3481 psi |
| Oil Tank: | 130 liters | 34.4 gallons |
| Hydraulic Oil Cooling: | Water and Air Oil Cooler | |

**System Power Unit**

| **Diesel Power Unit PU150D** | Metric | U.S. System |
|---|---|---|
| Volume: | 6.7 liter | 1.77 gallons |
| Power: | 164 kW | 220 bhp |
| RPM: | 1800 | 1800 |
| Electrical System: | 12V | 12V |
| Cooling System: | Water | |
| Emmissions Certifications: | Stage III | Tire 3 |
| Engine Type: | Turbo Charged, After Cooled Diesel Engine | |
| Primary Pump: | 200 l/min – 315 bar | 52.8 gal/min – 4569 psi |
| Secondary Pump: | 85 l/min – 240 bar | 23 gal/min –3481 psi |
| Oil Tank: | 130 liters | 34.4 gallons |
| Hydraulic Oil Cooling: | Water and Air Oil Cooler | |

| Feed Frame Alternatives | 850 | | 1800 | |
|---|---|---|---|---|
| **EDM3013** | **Metric** | **U.S. System** | **Metric** | **U.S. System** |
| Feed Stroke: | 850 mm | 33.5 in | 1800 mm | 71 in |
| Thrust Force: | 65 kN | 14610 lbf | 90 kN | 20230 lbf |
| Pull Force: | 65 kN | 14610 lbf | 90 kN | 20230 lbf |
| Max. Feed Speed: | 1.0 m/s | 3.28 fps | 0.8 m/s | 2.6 fps |
| Drilling Angle: | 360 degrees | | | |

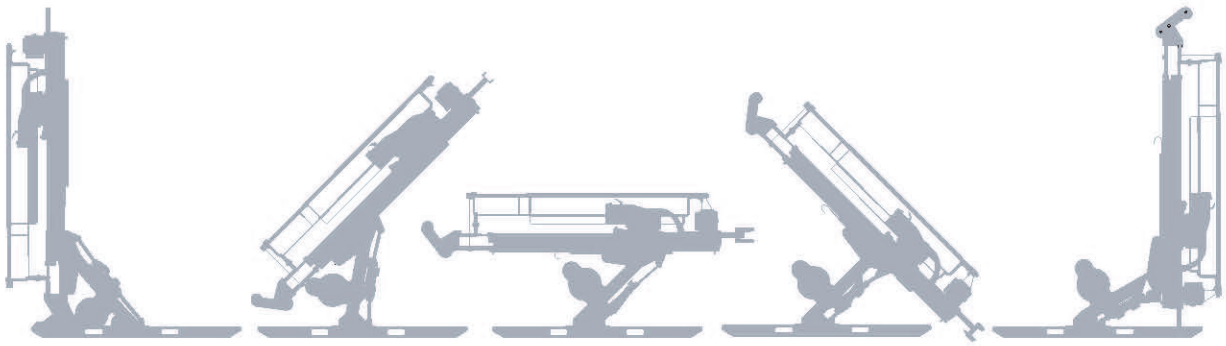
| Rod Holder | Metric | U.S. System |
|---|---|---|
| Maximum Rod Size (HO) | 88.9 mm | 3.5 in |
| Maximum Inside Diameter (w/oJaws): | 101.6 mm | 4 in |
| Maximum Inside Diameter (w/oCovers): | 170 mm | 6.7 in |
| Holding Force: | 45 kN | 10116 lbf |
| Holding Force with TC Inserts: | 90 kN | 20230 lbf |
| Type: | Hydraulically open, gas pressure close | |

| Wireline Hoist | Metric | U.S. System |
|---|---|---|
| Drum Capacity (4.76mm – 3/16" wire) | 1250 m | 4100 ft |
| Line pull min. (full drum) | 3.5 kN | 668 lb |
| Line pull max. (bare drum) | 11 kN | 2665 lb |
| Line speed min. (bare drum) | 85 m/min | 278 ft/min |
| Line speed max. (full drum) | 245 m/min | 803 ft/min |
| Level wind angle | Adjustable | |

***There is an automatic winding system to prevent rope from making straight or mixed winding.

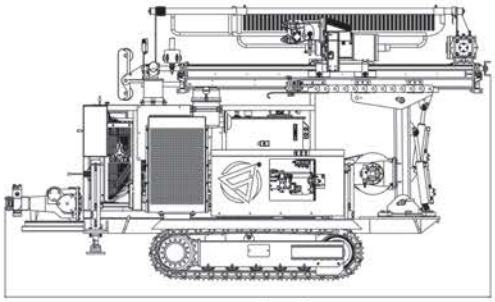
**Mud Pump**

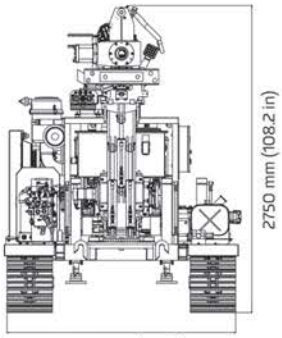
| TP135H | Metric | U.S. System |
|---|---|---|
| Flow: | 1351 l/min | 35 gal./min |
| Pressure: | 70 bar | 1000 psi |



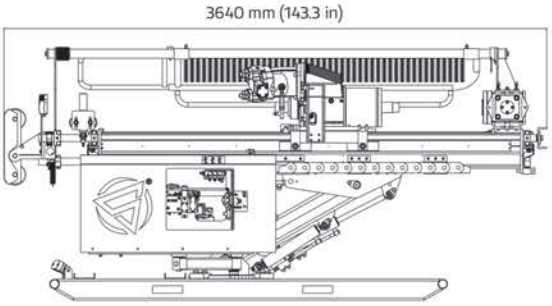
# Transportation Dimensions

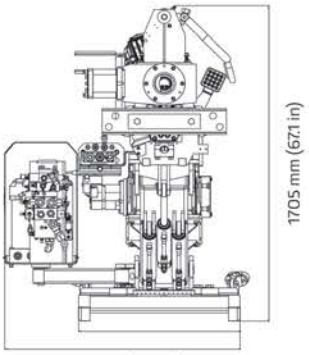
## EDM3013 Crawler



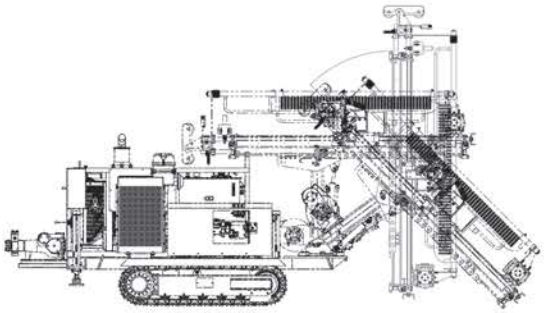



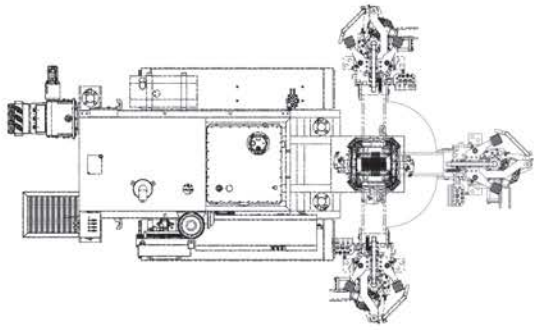

## EDM3013 Skid

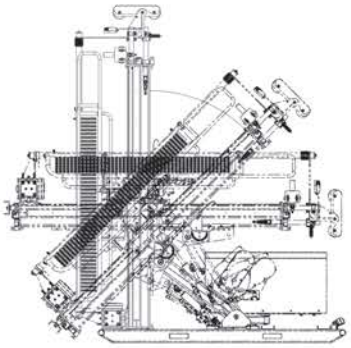


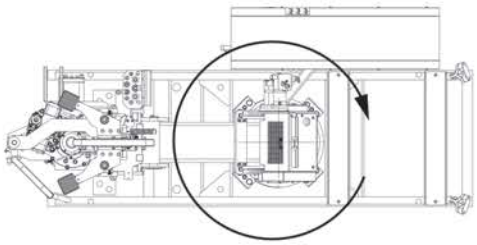




# Working Dimensions









**Weight**

| | |
|---|---|
| **EDM3013 DC:** | **6700 kg (14770 lb)** |
| **EDM3013 EC/d:** | **6760 kg (14903 lb)** |

**Weight- EDM3013 ES:**

**Drilling Unit and Control Unit : 4210kg (9280 lb)**
**Power Unit: 1800 kg (3968 lb)**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# SURFACE CORING DRILL RIG
# EDM 3014

Talashgaran Fartak
Commercial , Drilling & Exploration.Co

www.tfde-co.com

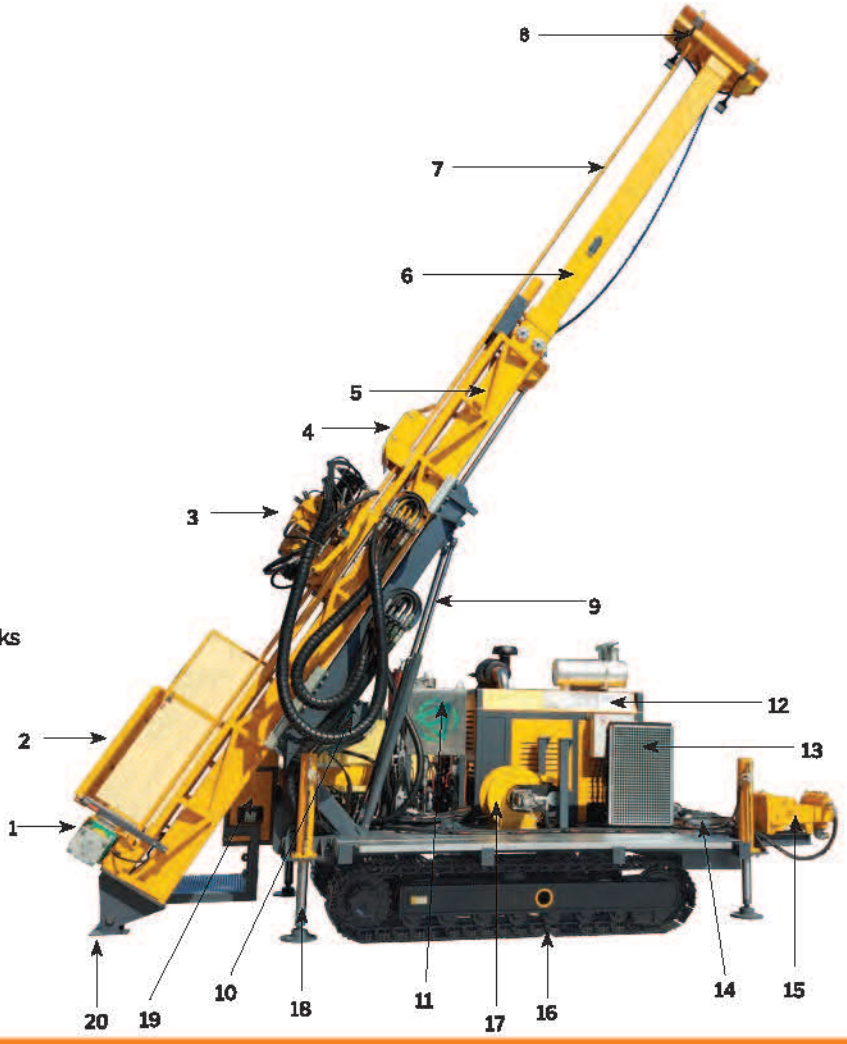
# EDM 3014 Surface Coring Drill Rig

EDM 3014 is fully hydraulic diamond core drilling rig, designed for surface research drillings.
It is the perfect combination of the proven EDM concept, combined with new and powerful components.
The EDM 3014 uses well proven technology for diamond core drills combined with new improvements in order to get easy drill operation. Hydraulic jacks, mast dump, hinged top mast and all controls available at the control panel provide the driller an easy set-up. Other features such as the strong main winch, powerful direct feed cylinder, advanced diesel engine, telescopic mast and Hydraulic Rod Holder.
EDM 3014 Coring Rig rotation speed, power and rotation unit aperture diameter is designed to give optimal performance in 60–122.6 mm (B–P) diameter wireline or conventional drilling.
EDM 3014, drilling unit, power unit, wireline unit (automatic winding system), main winch control of the mixer and mud pump are performed from the operator panel.
The gauge located on the operator panel displays, drilling rig advancement position;
- Hold back force,
- Feed force,
- Rotation speed,

It can observe the data and is able to control diesel engine.
EDM 3014, can be mounted on 3 different chassis.
- Skid frame
- Wheel frame
- Crawler frame

EDM 3014 drilling rig, as progress is being achieved with the drilling rig hydraulic cylinder, more precise settings can be done.
EDM 3014 drilling rig, automatic rod removal and clamping feature allows high progress rate, optimal core percentage and big time save.

1. Rod holder
2. Head guard
3. Rotation unit
4. Rod centralizer
5. Feed frame
6. Telescopic mast
7. Rod gulde
8. Crown block
9. Mast raising cylinders
10. Main hoist
11. Hydraulic oil tank
12. Power unit
13. Cooling circuit
14. Fuel tank
15. Fluid pump
16. Carrier
17. Wireline winch
18. Hydraulic levenling jacks
19. Control panel
20. Foot bracket



# Technical Specifications

## Drilling Depth Capacity EDM3014

These figures serve as guidelines only. They are calculated with available pull/feed force, weight of drill string in water filled hole, average WOB and reserve for breaking solid core in rock with 5MPa Tensile Strength. EDM cannot guarantee these capacities will be reached in all working conditions due to varying factors such ITH used, conditions of the ground and differences in operation.

| | Fluid Filled | |
|---|---|---|
| **Drill Rod** | **Metric** | **U.S. System** |
| BO / BRO Wireline | 1375 m | 4511 ft |
| NO / NRO Wireline | 1050 m | 3444 ft |
| NRO Thin Wall | 1190 m | 3904 ft |
| HO / HRO Wireline | 720 m | 2362 ft |
| HRO Thin Wall | 900 m | 2952 ft |
| PHD / PO Wireline | 475 m | 1558 ft |
| PHD Thin Wall | 635 m | 2083 ft |

| **Rotation Unit** | |
|---|---|
| Rod sizes: | B – P |
| Power: | Hydraulic Motor |
| Transmission: | Funk 4 speed |
| Final Drive: | Straight cut gears |
| Ratio: | 2:1 |
| Rotation Unit Opener: | Side shift type – hydraulically actuated |
| Hydraulic P Chuck | Hydraulic Open, Close by Gas Pressure |
| Spindle inner diameter: | 127 mm (5 in) |
| Chuck axial holding force: | 22 kN (50 000 lb) |

| **Torque and RPM Ratings** | | Speed | Torque | |
|---|---|---|---|---|
| **Spindle Speeds** | **Ratio** | **RPM** | **Nm** | **lbft** |
| 1st Gear | 6.27:1 | 122–201 | 5320–3252 | 3923–2400 |
| 2ns Gear | 3.12:1 | 246–403 | 2647–1620 | 1962–1195 |
| 3ed Gear | 1.75:1 | 437–719 | 1485–907 | 1095–670 |
| 4th Gear | 1.00:1 | 765–1245 | 848–520 | 625–383 |

**System Power Unit**

| **Cummins QSB 6.7 L, turbo charged, after cooled diesel engine.** | Metric | U.S. System |
|---|---|---|
| Volume: | 6.7 liter | 1.77 gallons |
| Power: | 164 kW | 220 bhp |
| RPM: | 2200 | 2200 |
| Electrical System: | 12V | 12V |
| Cooling System: | Water | |
| Emmissions Certifications: | Stage III | Tire 3 |

## EDM3014

| Hydraulic System | Metric | U.S. System |
|---|---|---|
| Primary Pump: | 1651 l/min – 310 bar | 43.5 gal/min – 4500 psi |
| Secondary Pump: | 65 l/min – 210 bar | 17.2 gal/min – 3045 psi |
| Auxiliary Pump: | 43 l/min – 210 bar | 11.4 gal/min – 3045 psi |
| Hydraulic Oil Cooling: | Air | |

| Mast and Feed System | Metric | U.S. System |
|---|---|---|
| Feed Stroke: | 3.35 m | 11 ft |
| Thrust Force: | 88.4 kN | 19880 lb |
| Pull Force: | 167.7 kN | 37700 lb |
| Mast Dump Travel: | 2.35 m | 7.7 ft |
| Mast Telescope: | 3.35 m | 11 ft |
| Drilling Angle: | 45 to 90 degrees | 45 to 90 degrees |
| Rod Pull Length: | 3.05 m or 6.09 m on telescopic mast | 10 ft or 20 ft on telescopic mast |

| Rod Holder | Metric | U.S. System |
|---|---|---|
| Maximum Rod Size (HWT) | 114.3 mm | 4.5 in |
| Holding Force: | 178 kN | 40015 lb |
| Type: | Hydraulically opens | |

| Wireline Hoist | Metric | U.S. System |
|---|---|---|
| Drum Capacity (4.76 mm – 3.16" wire) | 1800 m | 5905 ft |
| Line pull min. (full drum) | 3.5 kN | 786 lb |
| Line pull max. (bare drum) | 12 kN | 2698 lb |
| Line speed min. (bare drum) | 115 m/min | 377 ft/min |
| Line speed max. (full drum) | 420 m/min | 1377 ft/min |

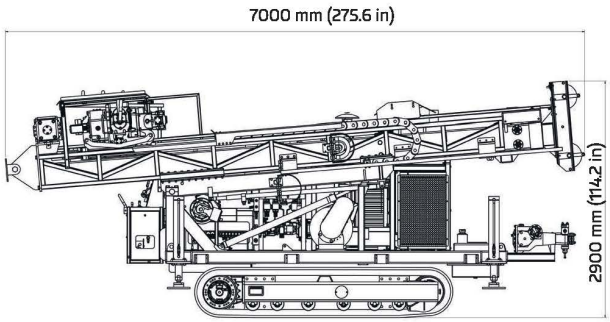
***There is an automatic winding system to prevent rope from making straight or mixed winding.

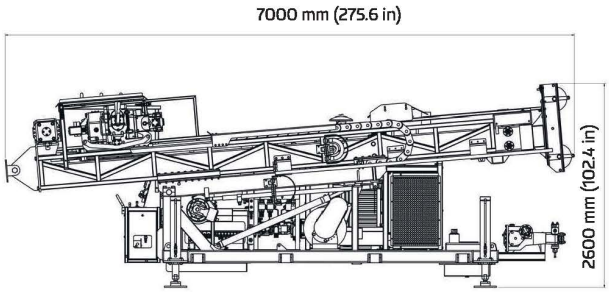
| Main Winch | Metric | U.S. System |
|---|---|---|
| Single line capacity: (bare drum) | 71.2 kN | 16000 lb |
| Line speed: (bare drum) | 35 m/min | 114 ft/min |
| Cable size: | 15 mm | 0.59 in |
| Cable length: | 35 m | 114 ft |

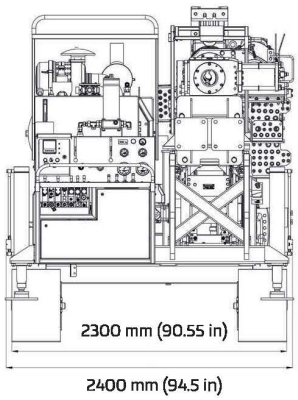
**Mud Pump**

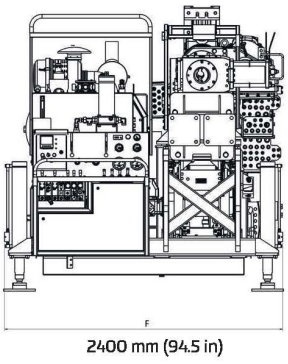
| TP135H | Metric | U.S. System |
|---|---|---|
| Flow: | 1351 l/min | 35 gal.min |
| Pressure: | 70 bar | 1000 psi |

# Transportation Dimensions

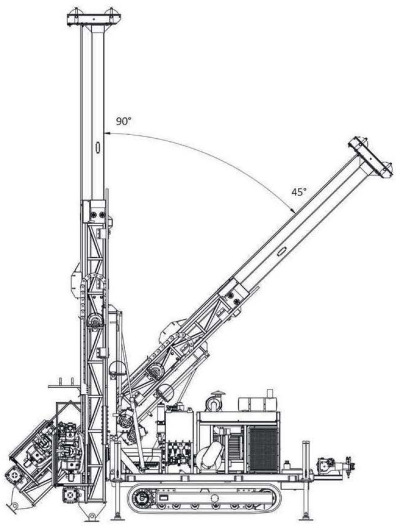


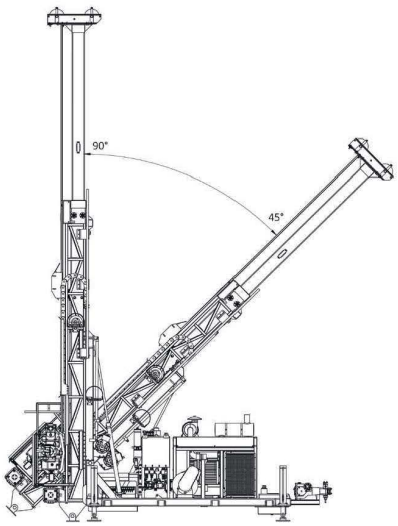




# Working Dimensions




**Weight**

| | |
|---|---|
| **EDM 3014 Crawler:** | 11000 kg (24250 lb) |

**Weight**

| | |
|---|---|
| **EDM 3014 Skid Frame:** | 8500 kg (18740 lb) |


# SURFACE CORING DRILL RIG
# EDM 3015

Talashgaran Fartak
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www.tfde-co.com

# EDM 3015 Surface Coring Drill Rig

EDM 3015 is fully hydraulic diamond core drilling rig, designed for surface research drillings.
It is the perfect combination of the proven EDM concept, combined with new and powerful components.
The EDM 3015 uses well proven technology for diamond core drills combined with new improvements in order to get easy drill operation. Hydraulic jacks, mast dump, hinged top mast and all controls available at the control panel provide the driller an easy set-up. Other features such as the strong main winch, powerful direct feed cylinder, advanced diesel engine, foldable mast and Gas Spring Rod Holder.
EDM 3015 Coring Rig rotation speed, power and rotation unit aperture diameter is designed to give optimal performance in 60-122.6 mm (B-P) diameter wireline or conventional drilling.
EDM 3015, drilling unit, power unit, wireline unit (automatic winding system), main winch control of the mixer and mud pump are performed from the operator panel.
The gauge located on the operator panel displays, drilling rig advancement position;
- Hold back force,
- Feed force,
- Rotation speed,

It can observe the data and is able to control diesel engine.
EDM 3015, can be mounted on 3 different chassis.
- Skid frame
- Wheel frame
- Crawler frame

EDM 3015, drilling rig, as progress is being achieved with the drilling rig hydraulic cylinder, more precise settings can be done.
EDM 3015 drilling rig, automatic rod removal and clamping feature allows high progress rate, optimal core percentage and big time save.

# Technical Specifications

## Drilling Depth Capacity EDM3015

These figures serve as guidelines only. They are calculated with available pull/feed force, weight of drill string in water filled hole, average WOB and reserve for breaking solid core in rock with 5MPa Tensile Strength. EDM cannot guarantee these capacities will be reached in all working conditions due to varying factors such ITH used, conditions of the ground and differences in operation.

| | Fluid Filled | |
|---|---|---|
| **Drill Rod** | **Metric** | **U.S. System** |
| BO / BRO Wireline | 1550 m | 5085 ft |
| NO / NRO Wireline | 1200 m | 3937 ft |
| NRO Thin Wall | 1410 m | 4625 ft |
| HO / HRO Wireline | 800 m | 2624 ft |
| HRO Thin Wall | 940 m | 3083 ft |
| PHD / PO Wireline | 500 m | 1640 ft |
| PHD Thin Wall | 665 m | 2181 ft |

| **Rotation Unit** | |
|---|---|
| Rod sizes: | B – P |
| Power: | Hydraulic Motor |
| Transmission: | Funk 4 speed |
| Final Drive: | Straight cut gears |
| Ratio: | 2.42:1 |
| Rotation Unit Opener: | Side shift type – manual actuated |
| Hydraulic P Chuck | Hydraulic Open, Spring Closed |
| Spindle inner diameter: | 117 mm (4–5/8 in) |
| Chuck axial holding force: | 181 kN (40 690 lb) |

| **Torque and RPM Ratings** | | Speed | Torque | |
|---|---|---|---|---|
| **Spindle Speeds** | **Ratio** | **RPM** | **Nm** | **lbft** |
| 1st Gear | 6.63:1 | 117–196 | 5113–3051 | 3771–2250 |
| 2ns Gear | 3.17:1 | 246–410 | 2445–1459 | 1803–1076 |
| 3ed Gear | 1.72:1 | 451–756 | 1326–792 | 978–584 |
| 4th Gear | 1.00:1 | 776–1300 | 771–460 | 569–340 |

| **System Power Unit** | | |
|---|---|---|
| **Cummins QSB 6.7 L, turbo charged, after cooled diesel engine.** | **Metric** | **U.S. System** |
| Volume: | 6.7 liter | 1.77 gallons |
| Power: | 164 kW | 220 bhp |
| RPM: | 1800 | 1800 |
| Electrical System: | 12V | 12V |
| Cooling System: | Water | |
| Emmissions Certifications: | Stage III | Tire 3 |

## EDM3015

| Hydraulic System | Metric | U.S. System |
|---|---|---|
| Primary Pump: | 250 l/min – 280 bar | 66 gal/min – 4061 psi |
| Secondary Pump: | 127 l/min – 200 bar | 33 gal/min – 2900 psi |
| Auxiliary Pump: | 50 l/min – 200 bar | 13 gal/min – 2900 psi |
| Hydraulic Oil Cooling: | Air | |

| Mast and Feed System | Metric | U.S. System |
|---|---|---|
| Feed Stroke: | 3.50 m | 11 ft |
| Thrust Force: | 60 kN | 13480 lb |
| Pull Force: | 138 kN | 31000 lb |
| Mast Dump Travel: | 1.20 m | 3.9 ft |
| Mast Telescope: | 3.35 m | 11 ft |
| Drilling Angle: | 45 to 90 degrees | 45 to 90 degrees |
| Rod Pull Length: | 3.05 m or 6.09 m on telescopic mast | 10 ft or 20 ft on telescopic mast |

| Rod Holder | Metric | U.S. System |
|---|---|---|
| Maximum Rod Size (HWT) | 114.3 mm | 4.5 in |
| Maximum Inside Diameter: | 210 mm | 8.3 in |
| Holding Force: | 178 kN | 40015 lb |
| Type: | Hydraulically opens, gas pressure close | |

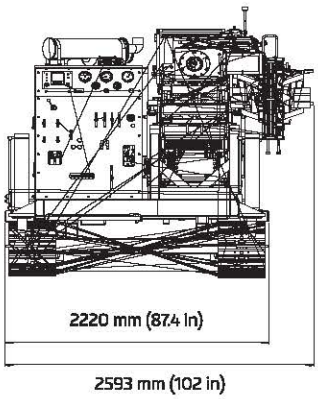
| Wireline Hoist | Metric | U.S. System |
|---|---|---|
| Drum Capacity (4.76 mm – 3.16" wire) | 1800 m | 5905 ft |
| Line pull min. (full drum) | 3.0 kN | 674 lb |
| Line pull max. (bare drum) | 11.9 kN | 2675 lb |
| Line speed min. (bare drum) | 115 m/min | 377 ft/min |
| Line speed max. (full drum) | 455 m/min | 1492 ft/min |

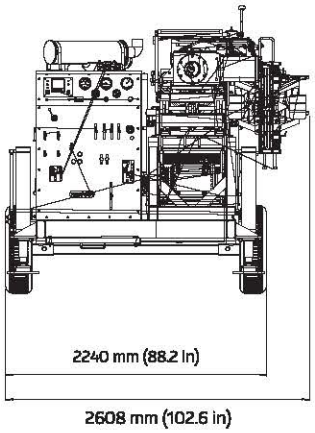
| Main Winch | Metric | U.S. System |
|---|---|---|
| Single line capacity: (bare drum) | 80 kN | 18000 lb |
| Line speed: (bare drum) | 43 m/min | 141 ft/min |
| Cable size: | 16 mm | 10/16 in |
| Cable length: | 35 m | 114 ft |

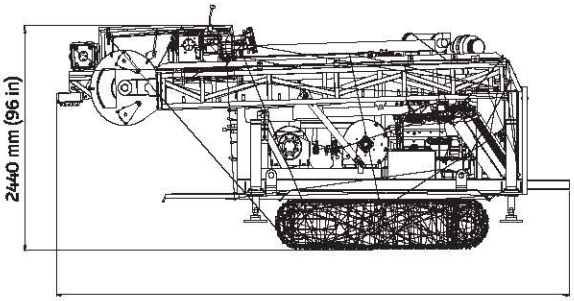
**Mud Pump**

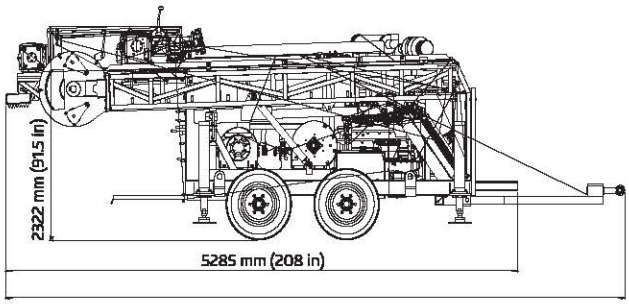
| TP135H | Metric | U.S. System |
|---|---|---|
| Flow: | 1351 l/min | 35 gal.min |
| Pressure: | 70 bar | 1000 psi |

# Transportation Dimensions

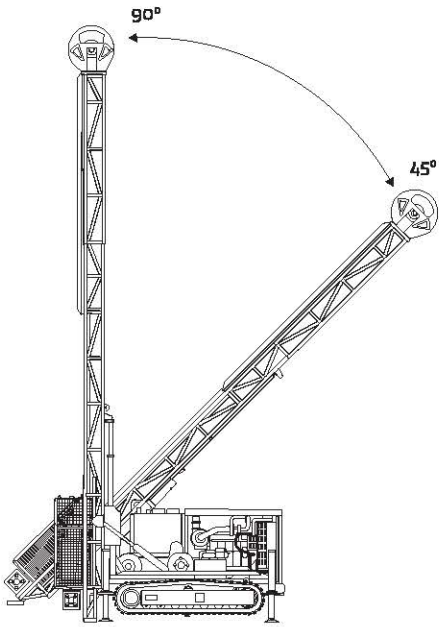


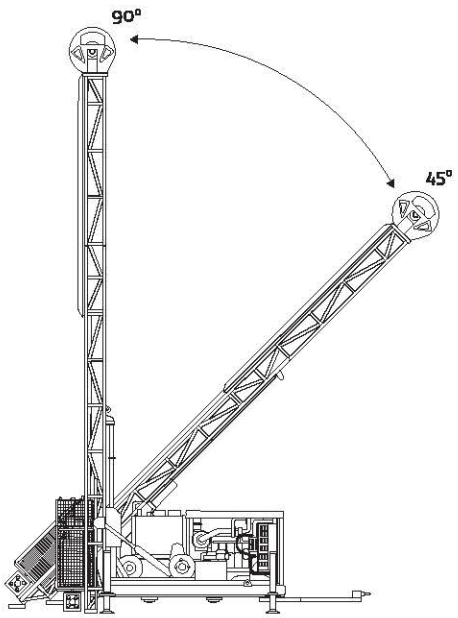




# Transportation Dimensions




## Weight

**EDM 3015 Crawler:** 9000 kg (18000 lb)

## Weight

**EDM 3015 Trailer:** 7500 kg (16534 lb)


RX-5
RX-5


# SURFACE CORING DRILL RIG
# EDM 3016

Talashgaran Fartak
Commercial , Drilling & Exploration.Co

www.tfde-co.com

# EDM 3016 Surface Coring Drill Rig

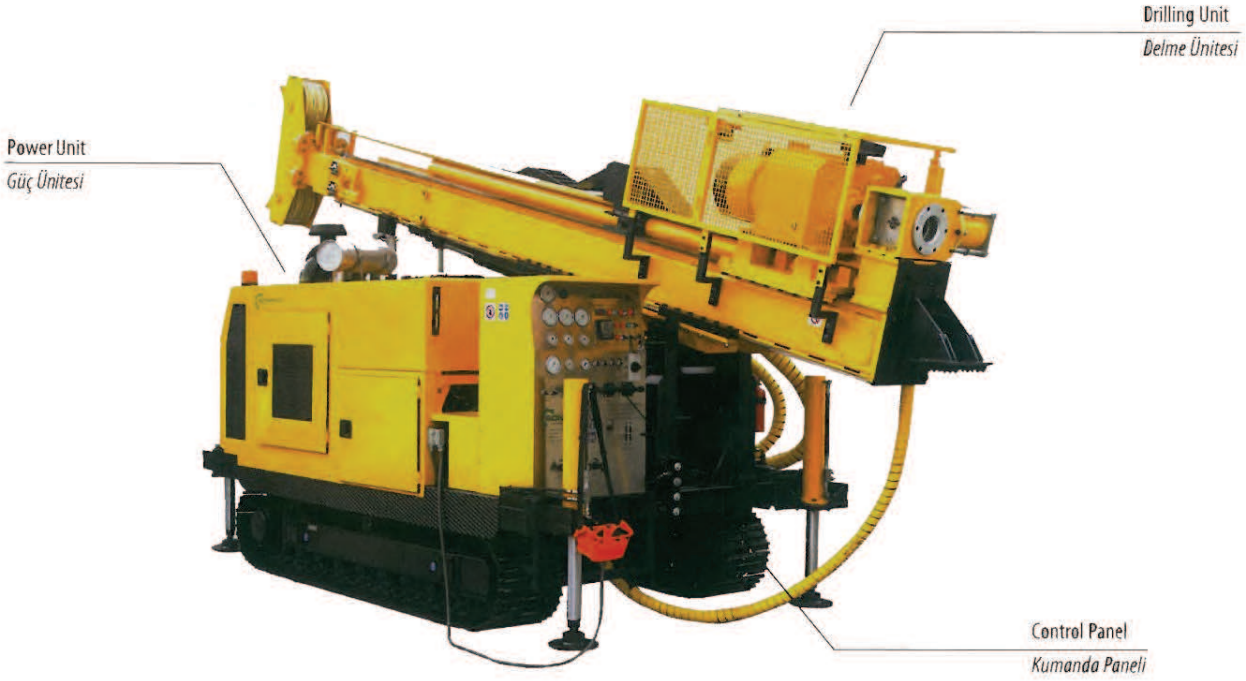
EDM 3016 is fully hydraulic diamond core drilling machine, designed for surface research drillings.

EDM 3016, drilling unit, power unit wireline unit, main winch control of the mixer and mud pump are performed from the operator panel. the gauge located on the operator panel displays, drilling machine advancement position; hold back force, feed force, rotation speed, it can observe the data and is able to control diesel engine.

EDM 3016can mounted on different chassis. Skid frame, crawler frame.

EDM 3016 drilling machine, as progress is being achieved with the drilling machine hydraulic cylinder, more precise settings can be done

EDM 3016 drilling machine, automatic rod removal and clamping feature allows high progress rate, optimal core percentage and big time save.



# Technical Specifications

## Drilling Depth Capacity EDM3016

These figures serve as guidelines only. They are calculated with available pull/feed force, weight of drill string in water filled hole, average WOB and reserve for breaking solid core in rock with 5MPa Tensile Strength. EDM cannot guarantee these capacities will be reached in all working conditions due to varying factors such ITH used, conditions of the ground and differences in operation.

The below drill depth capacities only serve as guidelines refer to vertical down drilling.
Talashgaran Fartak cannot guarantee that these results can be achieved in all drilling conditions.

| Size | Meters | U.S. System (ft) |
|---|---|---|
| B Wireline | 2000 | 6561 |
| N Wireline | 1500 | 4921 |
| H Wireline | 1100 | 3609 |
| P Wireline | 750 | 2460 |

## ROTATION UNIT

| | |
|---|---|
| Power | Hydraulic Motor |
| Type | Hydraulic Open, Disc Space Closed |
| Spindle Inner Diameter | 121 mm (4.77 in) |
| Chuck Axial Holding Force | 160 kN (35900 lbf) |

Rotation Unit Data

| Spindle Speed | Ration | Speed | Torque Nm | Torque lbfft |
|---|---|---|---|---|
| 1st Gear | 8.78 | 151–371 | 2175–5350 | 1604–3945 |
| 2nds Gear | 2.716 | 488–1200 | 662–1630 | 488–1202 |

## WIRELINE HOIST

| | | |
|---|---|---|
| Capacity | 2000 m | 6560 ft |
| Pull min. (empty drum) | 11.5 kN | 2585 lbf |
| Pull max. ( full drum) | 3 kN | 668 lbf |
| Line Speed min. (empty drum) | 115 m/min | 377 ft/min |
| Line Speed max. (full drum) | 445 m/min | 1492 ft/min |
| Cable Size | 4.76 mm | 3/16 in |
| Cable length | 1500 m | 4905 ft |

## MAIN HOIST

| | | |
|---|---|---|
| Capacity | 180 kN | 40000 lbf |
| Line Speed (bare drum) | 30 m/min. | 98 ft/min |
| Cable Size | 16 mm | 10/16 in |
| Cable length | 35 m | 114 ft |

## POWER UNIT

| | | |
|---|---|---|
| Manufacturer | | Deutz |
| Model | | TCD2013 Tire III |
| Volume | | 7.1 lt/6cyl. |
| Power | | 188 kW (240 hp) |
| RPM | | 2200 |
| Engine Type | | Diesel Turbo Charged |
| Cooling | | Water |
| Electrical System | | 24 V |
| Main Pump | Flow | 308 l/min. |
| | Pressure | 310 bar (4500 psi) |
| Service Pump | Flow | 156 l/min. |
| | Pressure | 200 bar ( 2900 psi) |
| Auxiliary Pump | Flow | 61 l/min. |
| | Pressure | 220 bar (3190 psi) |

## FEED UNIT

| Feed Type | Foldable Mast | Telescopic Mast |
|---|---|---|
| Thrust Force | 60 kN (13440 lbf) | 60 kN (13440 lbf) |
| Pull Force | 160 kN (34906 lbf) | 160 kN (34906 lbf) |
| Feed Retraction | 3.5 m (11.5 ft) | 3.5 m (11.5 ft) |
| Mast Dump Travel | 1.45 m (4 ft) | 1.45 m (4 ft) |
| Drilling Angle | 45 – 90 | 45 – 90 |
| Rod Pull Length | 6m / 9m (20ft / 30ft) | 6m / 9m (20ft / 30ft) |

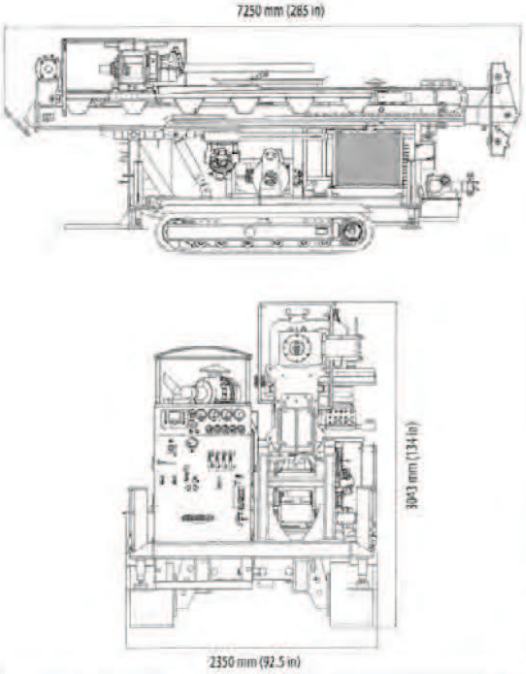
## Water Pimp

### EDM 3016

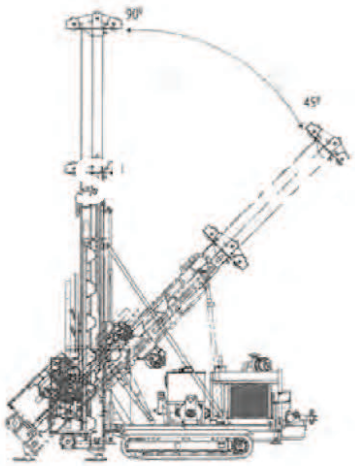
| | |
|---|---|
| Flow | 135 l/min (36 gal./min) |
| Pressure | 70 bar (1000 psi) |
| Weight | 209 kg (460 lb) |

# EDM 3016 Diesel Crawler

## DIMENSIONS / ÖLÇÜLER mm/in

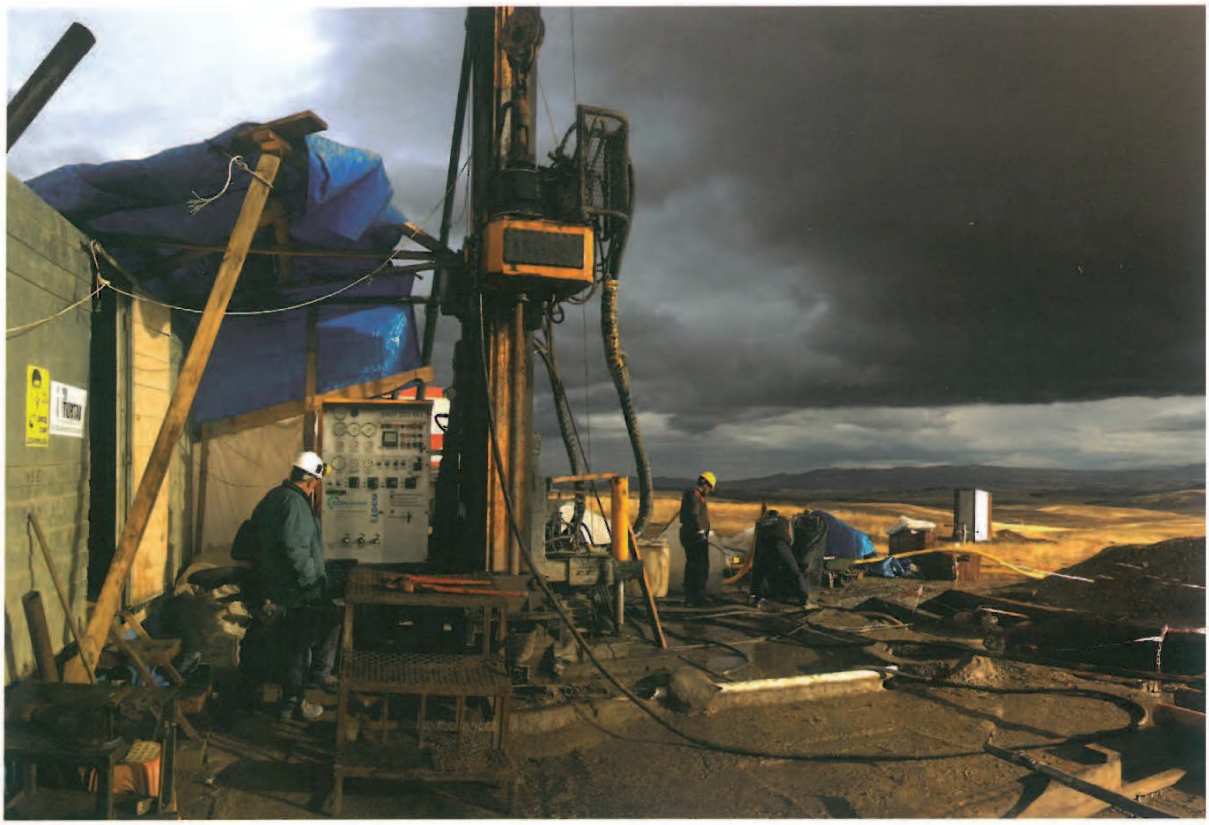



## WORKING ANGLES / ÇALIŞMA AÇILARI

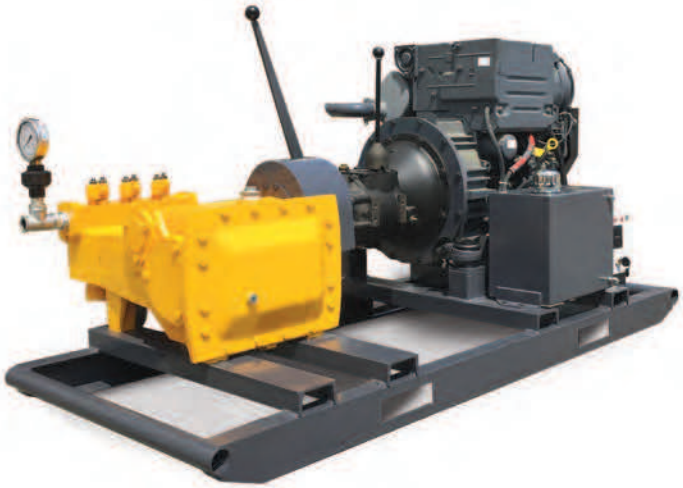


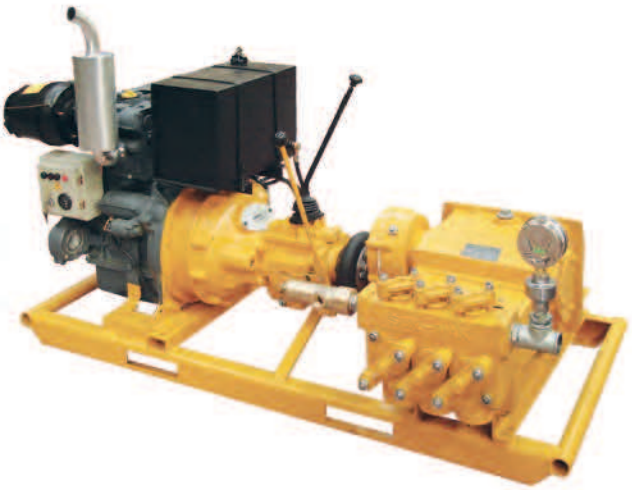

## WEIGHT / AĞIRLIK

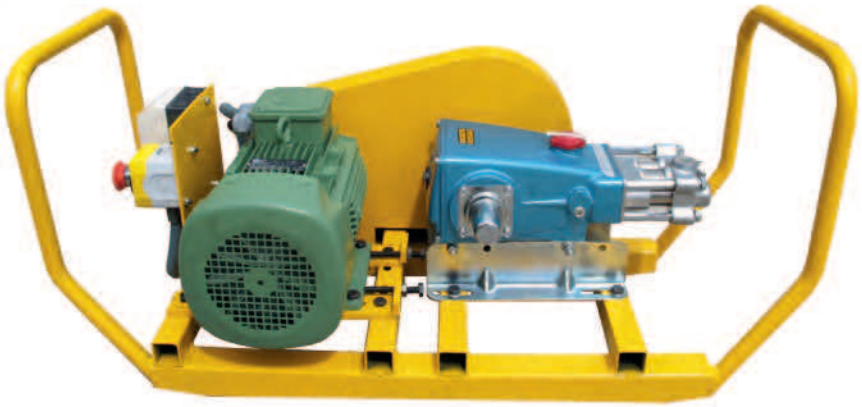
| | |
|---|---|
| Levent 2002 DC Diesel Crawler<br>*Levent 2002 DC Dizel Paletli* | 14500 kg (32000 lb) |


TPIC
Levent
RX-6







# MUD PUMPS

Talashgaran Fartak
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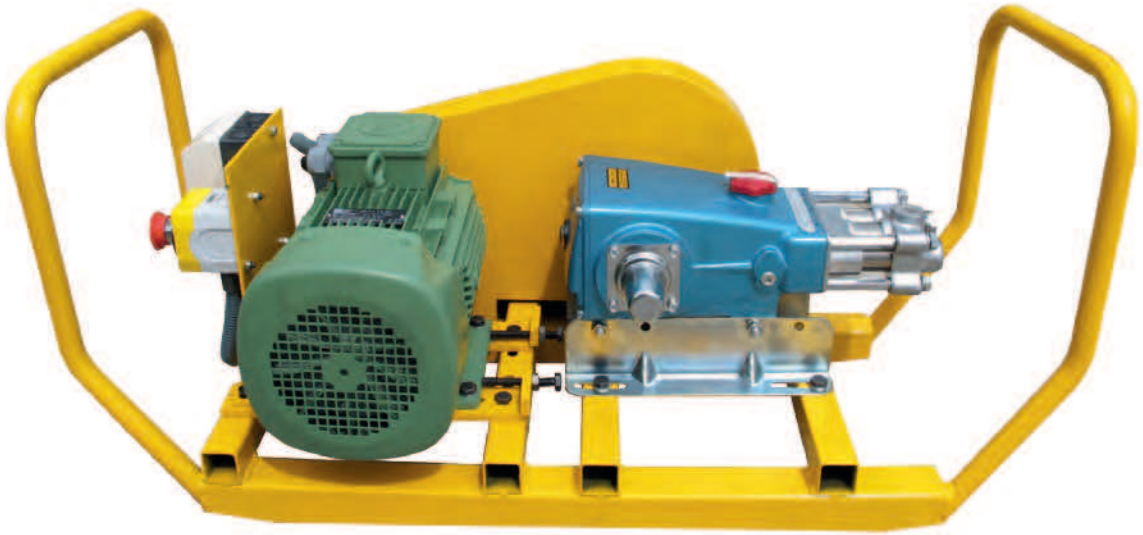


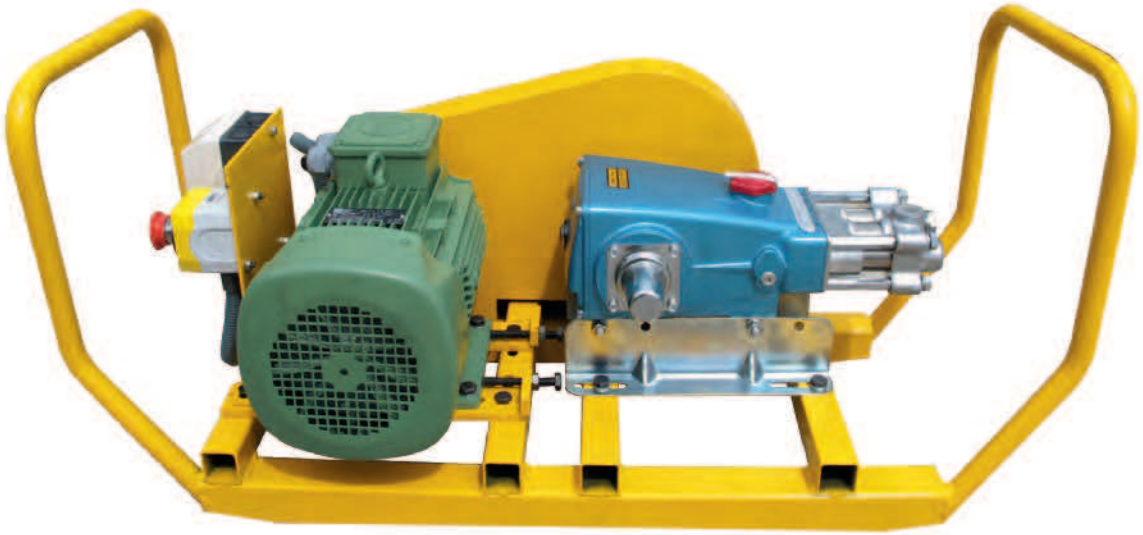
# UTP 450
## Triplex Mud Pump

Talashgaran Fartak
Commercial , Drilling & Exploration.Co

www.tfde-co.com

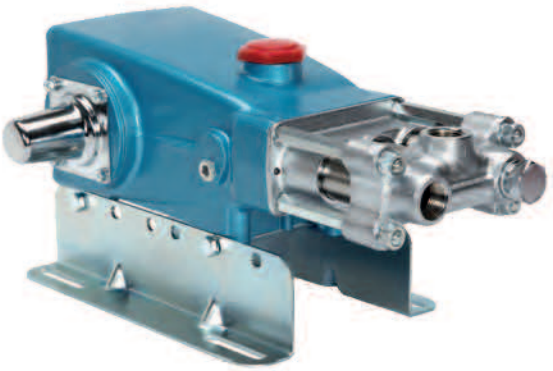
## PRODUCT CODE: UTP450

- TP-45 series Triplex Pumps are generally designated to pump clean water.
- They can be equipped in three different ways as Electrical motor, Petrol engine and Hydraulic driven motor.
- Triplex Pumps spare parts, stainless steel cylinders, stainless valves, balls and seals can be easily changed.
- The three cylinders, which are made of steel reinforced stainless steel material, are durable against to corrosion and can be changed easily.
- The valves, which are in the form of ball, are made of stainless steel and the valve seats are manufactured from tempered steel.
- The pump safety valve is adjusted according to 45 bar pressure.
- If the pressure in the system exceeds these values, then the safety valve activates and by means of this the pump housing is protected against to excessive pressure.
- The pump safety valve can be adjusted to lower values mentioned above.
- The pressure values can be observed with a manometer 0-100 bar.

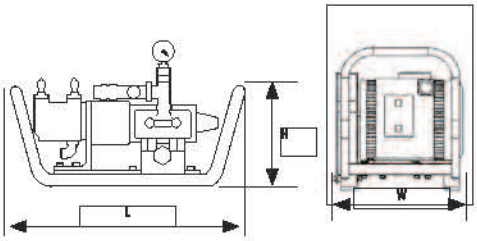
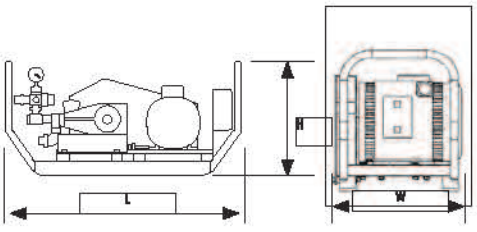


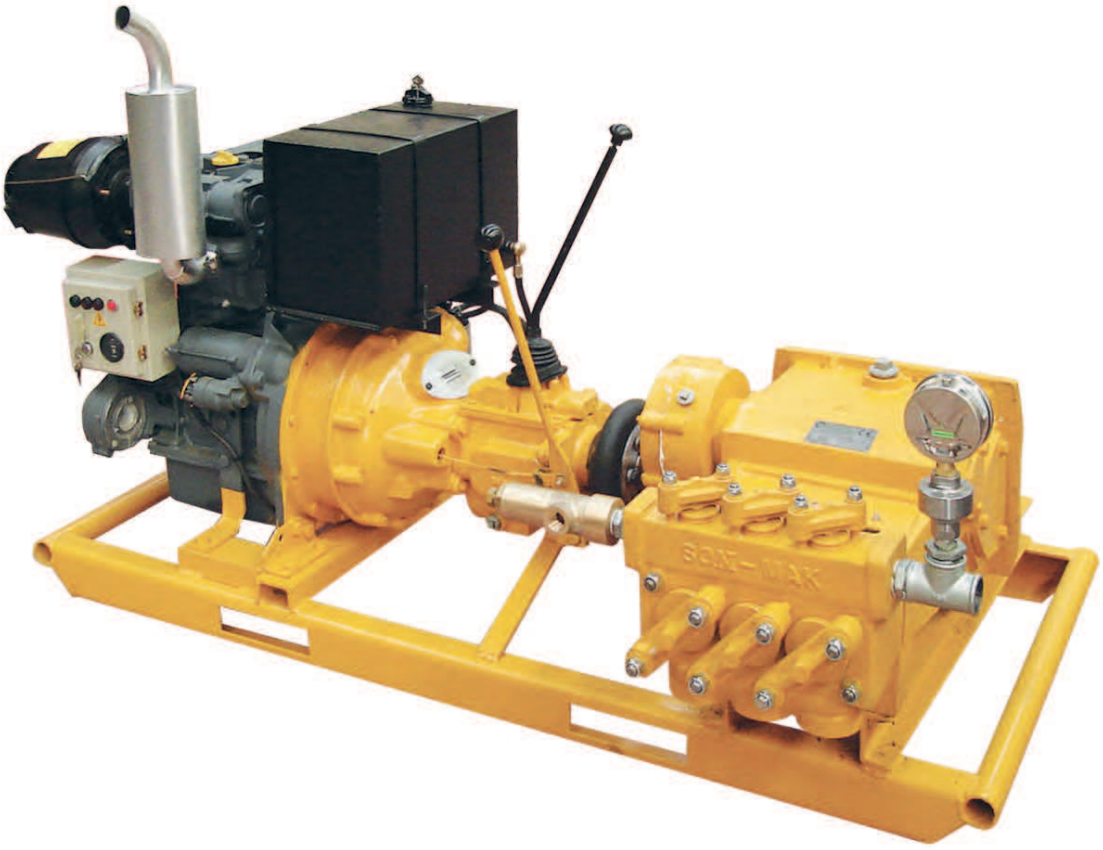
## PUMP SPECIFICATIONS / POMPA ÖZELLİKLERİ

| | |
|---|---|
| Configuration<br>*Model* | Horizontal Triplex Pump<br>*Tripleks Pompa* |
| Number of Pistons<br>*Piston Sayısı* | 3 |
| Stroke Lenght<br>*Strok Uzunluğu* | 28 mm (1.1 In) |
| Lube Oil Capacity<br>*Yağ Kapasitesi* | 1.2 l (40 oz)<br>*1.2 lt* |
| Lube Oil Type<br>*Yağ Tipi* | SAE 30 |
| Suction Size<br>*Emiş* | 1" NPT |
| Discharge Size<br>*Çıkış* | 3/4" NPT |
| Pump Weight<br>*Pompa Ağırlığı* | 15.7 kg. (34.6 lbs) |
| Flow<br>*Debi* | 45 l (12 gal.)<br>*45 lt* |
| Pressure Range<br>*Basınç Aralığı* | 7 to 50 bar (100 psi to 700 psi)<br>*7 - 50 bar* |
| RPM<br>*Devir* | 900 rpm |



## PUMP VARIANT / POMPA ÇEŞİTLERİ

| | Water Flow l/min<br>*Su Debisi lt/dk* | Water Pressure Bar<br>*Su Basıncı Bar* | Transmission<br>*Tahrik* | Weight<br>*Ağırlık* | Dimensions *Ölçüler* | | |
|---|---|---|---|---|---|---|---|
| | | | | | L | W | H |
| **UTP450H**<br>  <br>TP-45H TRIPLEX WATER PUMP / HYDRAULIC MOTOR<br>*TP-45H TRİPLEKS SU POMPASI / HİDROLİK MOTORLU* | 45 | 45 | | 50 | 680 | 375 | 480 |
| **UTP450E**<br>  <br>TP-45E TRIPLEX WATER PUMP / ELECTRICAL WITH V-BELT<br>*TP-45E TRİPLEKS SU POMPASI / ELEKTRİK MOTORLU KAYIŞ KASNAKLI* | 45 | 45 | V-belt | 50 | 1050 | 375 | 480 |



# UTP 800
## Triplex Mud Pump

Talashgaran Fartak
Commercial , Drilling & Exploration.Co

www.tfde-co.com

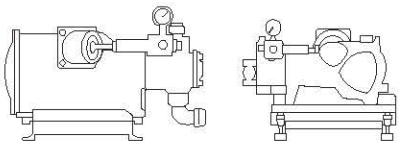
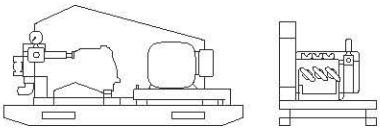
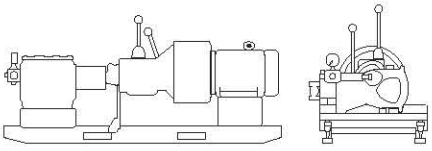
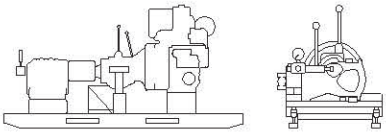
# UTP800 Triplex Water Pump

Product Code: UTP 800

- UTP 800 series Triplex Pumps are generally designated pump water and mud.
- They can be equipped in three different ways as Electrical motor, Diesel engine and Hydraulic driven motor.
- Triplex Pumps spare parts, ceramic cylinders, stainless valves, balls and seals can be easily changed.
- The three cylinders, which are made of steel reinforced ceramic material, are durable against to corrosion and can be changed easily.
- The valves, which are in the form of ball, are made of stainless steel and the valve seats are manufactured from tempered steel.
- The pump safety valve adjusted according to 50 bar pressure.
- If the pressure in the system exceeds these values, then the safety valve activates and by means of this the pump housing is protected against to excessive pressure.
- The pump safety valve can be adjusted to lower values mentioned above.
- The pressure values can be observed with a manometer 0–100 bar.

*Horsepower based on %85 or %90 efficiency. Actual application horsepower requirements can be calculated using equation; BHP= (GPM*PSI) / (1714*0.85 or 0.90)
*Pump capacities shown are based on %100 volumetric efficiency. * Dimensions shown are for general sizing purposes and should not be used for construction.

**PUMP VARIANT** / POMPA ÇEŞİTLERİ

| | Water Flow l/min | Water Pressure Bar | Transmission | Weight | Dimensions L | W | H |
|---|---|---|---|---|---|---|---|
| **UTP800H**  TRIPLEX MUD PUMP / HYDRAULIC MOTOR | 75 | 40 | | 117 | 740 | 620 | 450 |
| **UTP800E**  TRIPLEX MUD PUMP / V-BELT | 75 | 50 | V-belt | 265 | 1200 | 650 | 850 |
| **UTP800EG**  TRIPLEX MUD PUMP / ELECTRICAL WITH GEARBOX | 16 | 50 | 1st Gear | 305 | 1800 | 800 | 850 |
| | 23 | 50 | 2nd Gear | | | | |
| | 38 | 50 | 3rd Gear | | | | |
| | 75 | 50 | 4th Gear | | | | |
| **UTP800DG**  TRIPLEX MUD PUMP / DIESEL WITH GEARBOX | 16 | 50 | 1st Gear | 365 | 1800 | 800 | 950 |
| | 23 | 50 | 2st Gear | | | | |
| | 38 | 50 | 3st Gear | | | | |
| | 75 | 40 | 4st Gear | | | | |

## PUMP SPECIFICATIONS

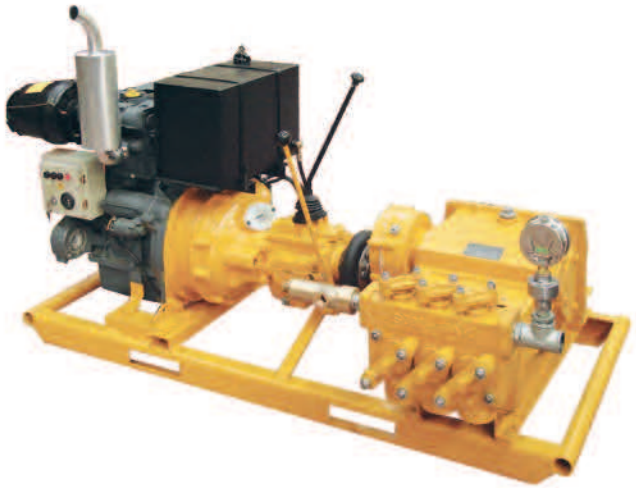
11.6 BHP Continuous Duty (13.8 BHP Intermittent Duty)

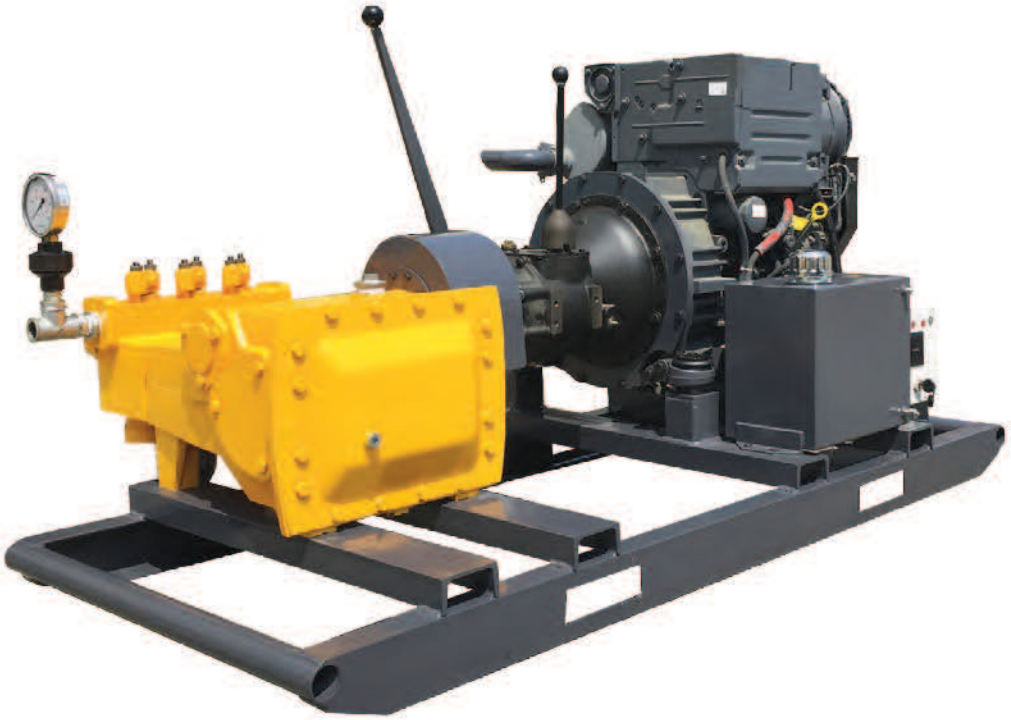
| | |
|---|---|
| Configuration | Horizontal Triplex piston |
| Number of Pistons | 3 |
| Stroke Length | 57.2 mm (2.25 Inches) |
| Frame Load Rating | 1.27 kg (2800 lbs) |
| Pump Weight | 91 kg (200 lbs) |
| Direction of Rotation | Top of shaft away from head |
| Internal Grear Ratio | 3.6:1 |
| Intermittent Duty Speed Rating | 890 rpm |
| Continuous Duty Speed Rating | 750 rpm |
| Ball Valve Max Speed Rating | 825 rpm |
| Minimum Speed | 360 rpm |
| Mechanical Efficiency | %85 |
| Lubrication System | Splash, Gravity Return |
| Lube Oil Capacity | 2.15 liters (1 Gallon) |
| Lube Oil Type | SAE 30 |
| Maximum Fluid Temperature | 140°F (250°F Capability) |
| | 60°C (121 °C Capability) |
| Minimum Fluid Temperature | 0°F (–20°F Capability) |
| | –17.8 °C (–28.9°C Capability) |
| Standard Suction Size | 38.1 mm (1.50 Inch NPT) |
| Standard Discharge Size | 25.4 mm (1.00 Inch NPT) |
| Fluid End Material | Cast Iron |
| Valve Types | Ball Valves, Disc Valves |
| Hydraulic Motor Mount | SAE C–4 Bolt with 1.25" –14T |

## PERFORMANCE RATING

| | | | | | | | Pump Capacity at Input Speed (RPM) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pump Model | Piston Diameter | | Displacement | | Maximum Pressure | | 350 RPM | | 625 RPM | | 700 RPM | | 750 RPM | | 890 RPM | |
| | mm | Inch | Liter | Gallon | Bar | PSI | lpm | gpm | lpm | gpm | lpm | gpm | lpm | gpm | lpm | gpm |
| UTP800 | 57.2 | 2.25 | 0.122 | 0.0323 | 48 | 700 | 43 | 11.3 | 76 | 20.2 | 86 | 22.6 | 92 | 24.2 | 109 | 28.7 |

* Horserpower based on %85 or %90 efficiency. Actual application horsepower requirements can be calculated using equation;
  BHP= (GPM*PSI) / (1714*0.85 or 0.90)
* Pump capacities shown are based on %100 volumetric efficiency.
* Dimensions shown are for general sizing purposes and should not be used for construction. Contact Son-Mak for actual dimensions of pump ordered.





# UTP 1350
## Triplex Mud Pump

Talashgaran Fartak
Commercial , Drilling & Exploration.Co

www.tfde-co.com

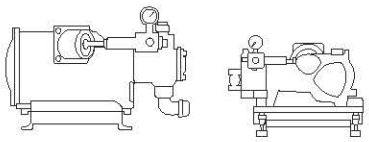
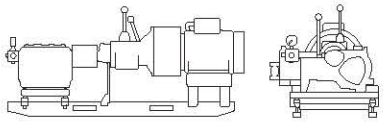
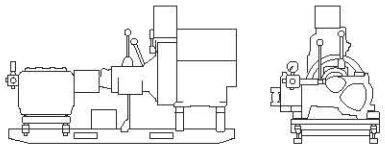
# UTP1350 Triplex Water Pump

Product Code: UTP 1350

- UTP 1350 series Triplex Pumps are generally designated pump water and mud.
- They can be equipped in three different ways as Electrical motor, Diesel engine and Hydraulic driven motor.
- Triplex Pumps spare parts, ceramic cylinders, stainless valves, balls and seals can be easily changed.
- The three cylinders, which are made of steel reinforced ceramic material, are durable against to corrosion and can be changed easily.
- The valves, which are in the form of ball, are made of stainless steel and the valve seats are manufactured from tempered steel.
- The pump safety valve adjusted according to 50 bar pressure.
- If the pressure in the system exceeds these values, then the safety valve activates and by means of this the pump housing is protected against to excessive pressure.
- The pump safety valve can be adjusted to lower values mentioned above, however, it should not be adjusted over 70 bar.
- The pressure values can be observed with a manometer 0–100 bar.

* Horsepower based on %85 or %90 efficiency. Actual application horsepower requirements can be calculated using equation; BHP= (GPM*PSI) / (1714*0.85 or 0.90)
* Pump capacities shown are based on %100 volumetric efficiency. * Dimensions shown are for general sizing purposes and should not be used for construction.

**PUMP VARIANT** / POMPA ÇEŞİTLERİ

| | Water Flow l/min | Water Pressure Bar | Transmission | Weight | Dimensions | | |
|---|---|---|---|---|---|---|---|
| | | | | | L | W | H |
| **UTP1350H**  TRIPLEX MUD PUMP / HYDRAULIC MOTOR | 135 | 35 | | 205 | 880 | 775 | 520 |
| **UTP1350EG**  TRIPLEX MUD PUMP / ELECTRICAL WITH GEARBOX | 30 | 70 | 1st Gear | 485 | 1800 | 1000 | 850 |
| | 45 | 70 | 2st Gear | | | | |
| | 75 | 70 | 3st Gear | | | | |
| | 135 | 45 | 4st Gear | | | | |
| **UTP1350DG**  TRIPLEX MUD PUMP / DIESEL WITH GEARBOX | 30 | 70 | 1st Gear | 535 | 1800 | 1000 | 850 |
| | 45 | 70 | 2st Gear | | | | |
| | 75 | 70 | 3st Gear | | | | |
| | 135 | 45 | 4st Gear | | | | |

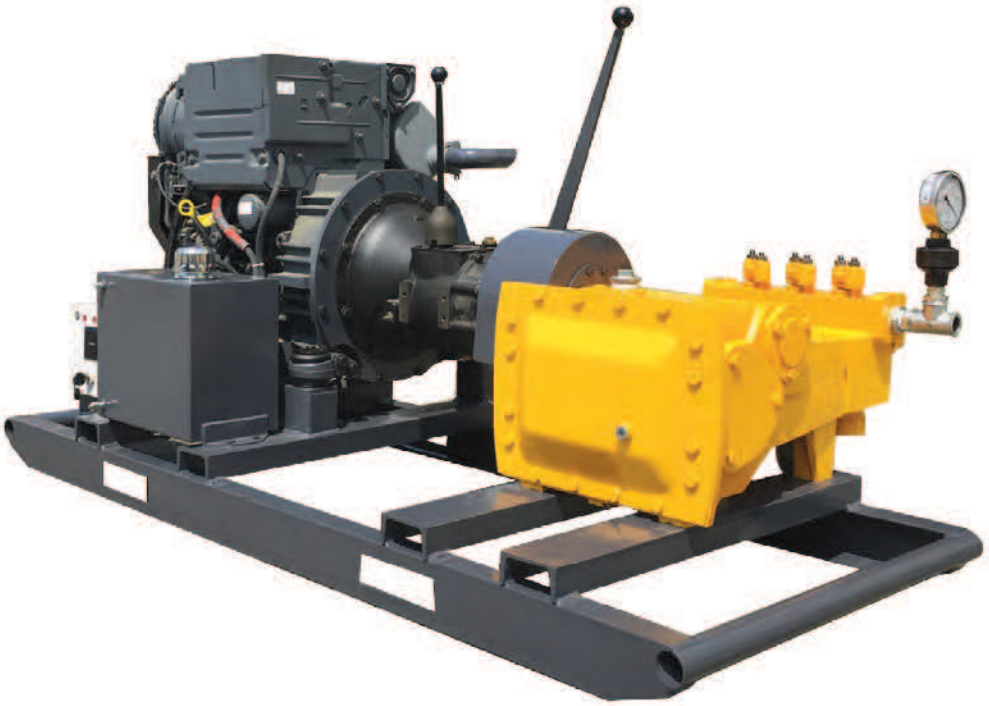
## PUMP SPECIFICATIONS

| 30 BHP Continuous Duty (13.8 BHP Intermittent Duty) | |
|---|---|
| Configuration | Horizontal Triplex piston |
| Number of Pistons | 3 |
| Stroke Length | 69.9 mm (2.75 Inches) |
| Frame Load Rating | 2.721 kg (6000 lbs) |
| Pump Weight | 210 kg (460 lbs) |
| Direction of Rotation | Top of shaft away from head |
| Internal Grear Ratio | 3.6:1 |
| Intermittent Duty Speed Rating | 275 rpm |
| Continuous Duty Speed Rating | 900 rpm |
| Ball Valve Max Speed Rating | 1050 rpm |
| Minimum Speed | 380 rpm |
| Mechanical Efficiency | %85 |
| Lubrication System | Splash, Gravity Return |
| Lube Oil Capacity | 3.78 liters (1 Gallon) |
| Lube Oil Type | SAE 30 |
| Maximum Fluid Temperature | 140°F (250°F Capability) |
| | 60°C (121 °C Capability) |
| Minimum Fluid Temperature | 0°F (-20°F Capability) |
| | -17.8 °C (-28.9°C Capability) |
| Standard Suction Size | 63.5 mm (2.50 Inch NPT) |
| Standard Discharge Size | 31.8 mm (1.25 Inch NPT) |
| Fluid End Material | Cast Iron |
| Valve Types | Ball Valves, Disc Valves |
| Hydraulic Motor Mount | SAE C-4 Bolt with 1.25" -14T |

## PERFORMANCE RATING

| | | | | | | | Pump Capacity at Input Speed (RPM) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pump Model | Piston Diameter | | Displacement | | Maximum Pressure | | 350 RPM | | 625 RPM | | 700 RPM | | 750 RPM | | 890 RPM | |
| | mm | Inch | Liter | Gallon | Bar | PSI | lpm | gpm | lpm | gpm | lpm | gpm | lpm | gpm | lpm | gpm |
| UTP1350 | 69.9 | 2.75 | 0.223 | 0.0589 | 68.95 | 1000 | 80.25 | 21.2 | 112 | 29.6 | 141 | 37.4 | 167 | 44.2 | 200 | 53 |

* Horserpower based on %85 or %90 efficiency. Actual application horsepower requirements can be calculated using equation;
  BHP= (GPM*PSI) / (1714*0.85 or 0.90)
* Pump capacities shown are based on %100 volumetric efficiency.
* Dimensions shown are for general sizing purposes and should not be used for construction. Contact Son-Mak for actual dimensions of pump ordered.



# UTP 2200
## Triplex Mud Pump

Talashgaran Fartak
Commercial , Drilling & Exploration.Co

www.tfde-co.com

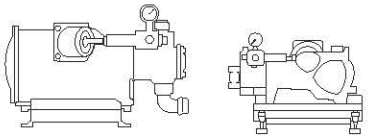
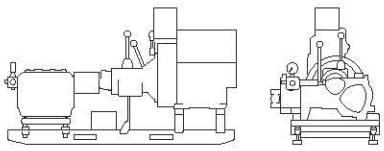
# UTP2200 Triplex Water Pump

Product Code: UTP 2200

- UTP 2200 series Triplex Pumps are generally designated pump water and mud.
- They can be equipped in three different ways as Electrical motor, Diesel engine and Hydraulic driven motor.
- Triplex Pumps spare parts, ceramic cylinders, stainless valves, balls and seals can be easily changed.
- The three cylinders, which are made of steel reinforced ceramic material, are durable against to corrosion and can be changed easily.
- The valves, which are in the form of ball, are made of stainless steel and the valve seats are manufactured from tempered steel.
- The pump safety valve adjusted according to 50 bar pressure.
- If the pressure in the system exceeds these values, then the safety valve activates and by means of this the pump housing is protected against to excessive pressure.
- The pump safety valve can be adjusted to lower values mentioned above, however, it should not be adjusted over 70 bar.
- The pressure values can be observed with a manometer 0–100 bar.

* Horsepower based on %85 or %90 efficiency. Actual application horsepower requirements can be calculated using equation; BHP= (GPM*PSI) / (1714*0.85 or 0.90)
* Pump capacities shown are based on %100 volumetric efficiency. * Dimensions shown are for general sizing purposes and should not be used for construction.

**PUMP VARIANT** / POMPA ÇEŞİTLERİ

| | Water Flow l/min | Water Pressure Bar | Transmission | Weight | Dimensions | | |
|---|---|---|---|---|---|---|---|
| **UTP2200H** | | | | | L | W | H |
|  TRIPLEX MUD PUMP / HYDRAULIC MOTOR | 200 | 35 | | 250 | 880 | 775 | 520 |
| **UTP2200DG** | | | | | | | |
|  TRIPLEX MUD PUMP DIESEL WITH GEARBOX | 50 | 70 | 1st Gear | 660 | 1800 | 1000 | 850 |
| | 70 | 70 | 2st Gear | | | | |
| | 110 | 70 | 3st Gear | | | | |
| | 220 | 45 | 4st Gear | | | | |

## PUMP SPECIFICATIONS

37 BHP Continuous Duty (13.8 BHP Intermittent Duty)

| | |
|---|---|
| Configuration | Horizontal Triplex piston |
| Number of Pistons | 3 |
| Stroke Length | 69.9 mm (2.75 inches) |
| Frame Load Rating | 2.721 kg (6000 lbs) |
| Pump Weight | 200 kg (440 lbs) |
| Direction of Rotation | Top of shaft away from head |
| Internal Grear Ratio | 3.6:1 |
| Intermittent Duty Speed Rating | 900 rpm |
| Continuous Duty Speed Rating | 750 rpm |
| Ball Valve Max Speed Rating | 635 rpm |
| Minimum Speed | 360 rpm |
| Mechanical Efficiency | %85 |
| Lubrication System | Splash, Gravity Return |
| Lube Oil Capacity | 3.78 liters (1 Gallon) |
| Lube Oil Type | SAE 30 |
| Maximum Fluid Temperature | 140°F (250°F Capability) |
| | 60°C (121 °C Capability) |
| Minimum Fluid Temperature | 0°F (-20°F Capability) |
| | -17.8°C (-28.9°C Capability) |
| Standard Suction Size | 50.8 mm (2.00 Inch NPT) |
| Standard Discharge Size | 31.8 mm (1.25 Inch NPT) |
| Fluid End Material | Cast Iron |
| Valve Types | Ball Valves, Disc Valves |
| Hydraulic Motor Mount | SAE C-4 Bolt with 1.25" -14T |

## PERFORMANCE RATING

| | | | | | | | Pump Capacity at Input Speed (RPM) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pump Model | Piston Diameter | | Displacement | | Maximum Pressure | | 360 RPM | | 525 RPM | | 700 RPM | | 750 RPM | | 890 RPM | |
| | mm | Inch | Liter | Gallon | Bar | PSI | lpm | gpm | lpm | gpm | lpm | gpm | lpm | gpm | lpm | gpm |
| UTP2200 | 69.9 | 2.75 | 0.223 | 0.0589 | 68.95 | 1000 | 80.25 | 21.2 | 112 | 29.5 | 200 | 53 | 234 | 61.9 | 284 | 75.1 |

* Horserpower based on %85 or %90 efficiency. Actual application horsepower requirements can be calculated using equation;
  BHP= (GPM*PSI) / (1714*0.85 or 0.90)
* Pump capacities shown are based on %100 volumetric efficiency.
* Dimensions shown are for general sizing purposes and should not be used for construction. Contact Son-Mak for actual dimensions of pump ordered.

# DRILLING EQUIPMENTS

Talashgaran Fartak
Commercial , Drilling & Exploration.Co

www.tfde-co.com

# HEAD ASSEMBLIES & CORE BARREL

# Wireline Core Barrel Assemblies

Wireline core barrels, inner tube and inner tube assembly in particular constitute the most important part of these sets. Both ends of the inner tubes are made of male threaded cold-drawn steel tubes. The types of threads at both ends are the same. Since the part where the core is inserted will be eroded faster than the top section, use of the tube by turning upside down from time to time will extend its service life.

The core lifter case where the core lifter (see 8 ) is inserted is located at the bottom side of the inner tube. There is a case inside the core lifter and just above the part where the core lifter is inserted and the core lifter can be placed there (see 10) . This ring prevents the core lifter to be dragged into the inner tube together with the core.

The inner tube assembly is located at the top of the inner tube.

This assembly is the most important part of wireline system and it includes some systems. When inner tube is inserted into the outer tube, the latches on the inner tube assembly are opened by link affect and are inserted inside the housing on the head of the outer tube. Therefore, the inner tube is prevented to retrocede during progress.

At the end of the progress, when spear head located at the top of the assembly is held and dragged by the overshot, latches retract and close so that the inner tube is released to a free position where it can pass through the rods and be taken upwards.

# BO Wireline Core Barrel Kit Selection

1.5 M/5.0 FT & 3.0 M/10.0 FT CORE BARREL

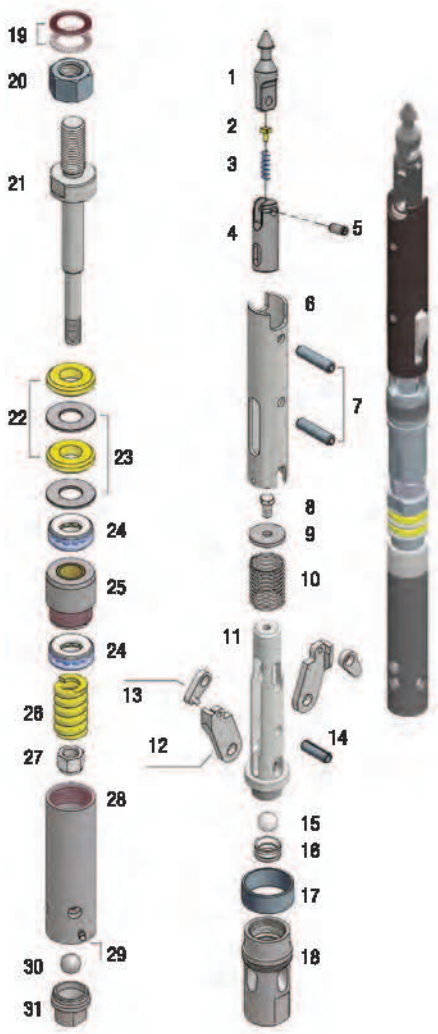
| ID # | PART # | DESCRIPTION | SM 2500 | SM 2501 | SM 2502 | SM 2503 |
|---|---|---|---|---|---|---|
| | **SM 2500** | **BO CORE BARREL ASSEMBLY 1.5 M (5')** | | | | |
| | **SM 2501** | **BO INNER-TUBE GROUP 1.5 M (5')** | | | | |
| | **SM 2502** | **BO CORE BARREL ASSEMBLY 3.0 M (10')** | | | | |
| | **SM 2503** | **BO INNER-TUBE GROUP 3.0 M (10')** | | | | |
| 1 | SM 2504 | BO HEAD ASSEMBLY | | | | |
| 2 | SM 2505 | BO INNER-TUBE 1.5 M (5') | | | | |
| | SM 2505CP | BO INNER-TUBE 1.5 M (5') CHROME PLATED | | | | |
| | SM 2506 | BO INNER-TUBE 3.0 M (10') | | | | |
| | SM 2506CP | BO INNER-TUBE 3.0 M (10') CHROME PLATED | | | | |
| 3 | SM 2507 | BO STOP RING | | | | |
| 4 | SM 2508SL | BO CORE LIFTER, SLOTTED | | | | |
| | SM 2508FL | BO CORE LIFTER, FLUTED | | | | |
| 5 | SM 2509 | BO CORE LIFTER CASE | | | | |
| 6 | SM 2510 | BO LOCKING COUPLING, FULL HOLE-WITH TANG | | | | |
| | SM 2510TC | BO LOCKING COUPLING, CARBIDE WITH TANG | | | | |
| | LC20 | BO LOCKING COUPLING, DIAMOND WITH TANG | | | | |
| | SM 2510/R | BRO LOCKING COUPLING, FULL HOLE-WITH TANG | | | | |
| | SM 2510TC/R | BRO LOCKING COUPLING, CARBIDE WITH TANG | | | | |
| | LC20/R | BRO LOCKING COUPLING, DIAMOND WITH TANG | | | | |
| 7 | SM 2511 | BO ADAPTER COUPLING | | | | |
| 8 | SM 2512 | BO LANDING RING | | | | |
| 9 | SM 2513 | BO OUTER-TUBE 1.5 M (5') | | | | |
| | SM 2513CP | BO OUTER-TUBE 1.5 M (5') CHROME PLATED | | | | |
| | SM 2514 | BO OUTER-TUBE 3.0 M (10') | | | | |
| | SM 2514CP | BO OUTER-TUBE 3.0 M (10') CHROME PLATED | | | | |
| 10 | SM 2515 | BO INNER-TUBE STABILIZER | | | | |

# BO Wireline Core Barrel Spare Parts Kit

| ID # | PART # | DESCRIPTION | QTY | KG | LB |
|---|---|---|---|---|---|
| | K2500 | BO Core Barrel Spare Parts Kit | | | |
| 1 | 3200500 | SPEARHEAD ASSEMBLY, BO | 1 | 1.12 | 2.47 |
| 2 | SM 1524 | BOLT 3/8" – 16UNC X 3/4" | 2 | 0.10 | 0.22 |
| 3 | SM 2524 | COMPRESSION SPRING | 1 | 0.05 | 0.11 |
| 4 | SM 2526 | LATCH | 4 | 0.36 | 0.79 |
| 5 | SM 2527 | LINK | 4 | 0.08 | 0.18 |
| 6 | SM 2528 | PIN 3/8" X 1-1/4" | 2 | 0.02 | 0.04 |
| 7 | SM 2529 | BALL 22MM | 1 | 0.05 | 0.11 |
| 8 | SM 2530 | LANDING INDICATOR BUSHING | 2 | 0.02 | 0.04 |
| 9 | SM 2531 | LANDING SHOULDER | 1 | 0.07 | 0.15 |
| 10 | SM 2533 | LOCKING NUT, 7/8"UNC | 1 | 0.08 | 0.18 |
| 11 | SM 2535 | SHUT-OFF VALVE | 4 | 0.40 | 0.88 |
| 12 | SM 2537 | THRUST BEARING | 2 | 0.14 | 0.31 |
| 13 | SM 2538 | SPINDLE BUSHING | 1 | 0.43 | 0.95 |
| 14 | SM 2540 | LOCKING NUT, 5/8"UNC | 1 | 0.03 | 0.07 |
| 15 | SM 1549 | GREASE FITTING | 2 | 0.02 | 0.04 |
| 16 | SM 2507 | STOP RING | 2 | 0.02 | 0.04 |
| 17 | SM 2508 | CORE LIFTER | 20 | 0.60 | 1.32 |
| 18 | SM 2509 | CORE LIFTER CASE | 4 | 0.36 | 0.79 |
| 19 | SM 2512 | LANDING RING | 2 | 0.14 | 0.31 |
| 20 | SM 2515 | INNER-TUBE STABILIZER | 2 | 0.10 | 0.22 |

# BO Core Barrel Head Assembly

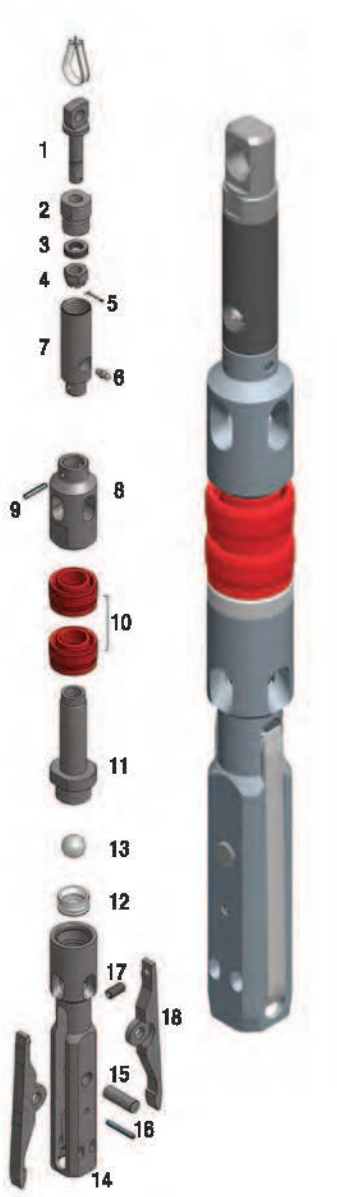
| I D # | PART # | DESCRIPTION | QTY |
|---|---|---|---|
| | **SM 2504** | **BO Core Barrel Head Assembly** | |
| 1 | SM 2516 | SPEARHEAD POINT | 1 |
| 2 | SM 2517 | COMPRESSION SPRING | 1 |
| 3 | SM 2518 | DETENT PLUNGER | 1 |
| 4 | SM 2519 | SPEARHEAD BASE | 1 |
| 5 | SM 2520 | SPIROL PIN 7/16" x 1-3/4" | 1 |
| 6 | SM 2521 | LATCH RETRACTING CASE | 1 |
| 7 | SM 2522 | SPRING PIN 3/8" x 1-3/4" | 2 |
| 8 | SM 1524 | BOLT 3/8" – 16UNC x 3/4" | 1 |
| 9 | SM 2523 | WASHER | 1 |
| 10 | SM 2524 | COMPRESSION SPRING | 1 |
| 11 | SM 2525 | UPPER LATCH BODY | 1 |
| 12 | SM 2526 | LATCH | 2 |
| 13 | SM 2527 | LINK | 2 |
| 14 | SM 2528 | SPIROL PIN 3/8" x 1-1/4" | 1 |
| 15 | SM 2529 | BALL 22 mm | 1 |
| 16 | SM 2530 | LANDING INDICATOR BUSHING | 1 |
| 17 | SM 2531 | LANDING SHOULDER | 1 |
| 18 | SM 2532 | LOWER LATCH BODY | 1 |
| 19 | SM 1538 | WASHER NORD-LOCK 7/8" | 1 |
| 20 | SM 2533 | HEX NUT 7/8" UNC | 1 |
| 21 | SM 2534 | SPINDLE | 1 |
| 22 | SM 2535 | SHUT-OFF VALVE, HARD | 2 |
| 23 | SM 2536 | VALVE ADJUSTING WASHER | 2 |
| 24 | SM 2537 | THRUST BEARING | 2 |
| 25 | SM 2538 | SPINDLE BUSHING | 1 |
| 26 | SM 2539 | COMPRESSION SPRING | 1 |
| 27 | SM 2540 | LOCKING NUT 5/8" UNC | 1 |
| 28 | SM 2541 | INNER-TUBE CAP | 1 |
| 29 | SM 1549 | GREASE FITTING | 1 |
| 30 | SM 2551 | BALL 3/4" | 1 |
| 31 | SM 2544 | CHECK VALVE BODY | 1 |



# OVERSHOTS

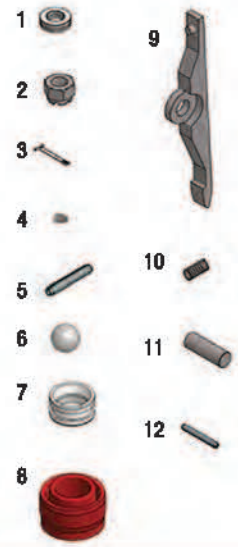
# BO-U Overshot Assembly

| I D # | PART # | DESCRIPTION | QTY | KG | LB |
|---|---|---|---|---|---|
| | **OVSU7500** | **BO-U Over-Shot Assembly** | | **2.82** | **6.21** |
| 1 | OVS6501 | CABLE SWIVEL EYE BOLT | 1 | 0.11 | 0.24 |
| 2 | OVS6502 | CABLE SWIVEL COLLAR | 1 | 0.11 | 0.24 |
| 3 | OVS6503 | THRUST BEARING | 1 | 0.01 | 0.02 |
| 4 | OVS6504 | CASTLE NUT 1/2" UNF | 1 | 0.02 | 0.04 |
| 5 | OVS6505 | COTTER PIN 3/32" X 3/4" | 1 | 0.01 | 0.02 |
| 6 | SM 1549 | GREASE FITTING | 1 | 0.01 | 0.02 |
| 7 | OVSU6518 | CABLE SWIVEL BODY | 1 | 0.27 | 0.59 |
| 8 | OVSU7519 | OVERSHOT UPPER BODY | 1 | 0.30 | 0.66 |
| 9 | OVSU6520 | SPIROL PIN 3/16"X1-1/8" | 1 | 0.01 | 0.02 |
| 10 | SM 2549 | SEAL | 2 | 0.06 | 0.13 |
| 11 | SM 2550 | SEAL SEAT | 1 | 0.60 | 1.32 |
| 12 | SM 2530 | LATCH INDICATOR BUSHING | 1 | 0.01 | 0.02 |
| 13 | SM 2529 | BALL 22MM | 1 | 0.10 | 0.22 |
| 14 | OVSU7523 | OVERSHOT HEAD | 1 | 0.80 | 1.76 |
| 15 | OVS7514 | SPIROL PIN 1/2"X1-1/2" | 1 | 0.05 | 0.11 |
| 16 | OVS7515 | SPRING PIN 3/16"X1-3/8" | 1 | 0.01 | 0.02 |
| 17 | OVS7512 | COMPRESSION SPRING | 1 | 0.02 | 0.04 |
| 18 | OVS7513 | LIFTING DOG | 2 | 0.32 | 0.70 |




# BO-U Overshot Spares

| I D # | PART # | DESCRIPTION | QTY | KG | LB |
|---|---|---|---|---|---|
| | **KBOU65** | **BO-U Over-Shot Spare Parts Kit** | | **0.66** | **1.45** |
| 1 | OVS6503 | THRUST BEARING | 1 | 0.01 | 0.02 |
| 2 | OVS6504 | CASTLE HEX NUT 1/2" UNF | 1 | 0.02 | 0.04 |
| 3 | OVS6505 | COTTER PIN 3/32" X 3/4" | 1 | 0.02 | 0.04 |
| 4 | SM 1549 | GREASE FITTING | 1 | 0.01 | 0.02 |
| 5 | OVSU6520 | SPIROL PIN 3/16" X 1-1/8" | 2 | 0.02 | 0.02 |
| 6 | SM 2529 | BALL, 22MM | 1 | 0.05 | 0.11 |
| 7 | SM 2530 | INDICATOR BUSHING | 2 | 0.02 | 0.04 |
| 8 | SM 2549 | SEAL | 2 | 0.12 | 0.26 |
| 9 | OVS7513 | LIFTING DOG, BO | 2 | 0.32 | 0.07 |
| 10 | OVS7512 | COMPRESSION SPRING | 1 | 0.02 | 0.04 |
| 11 | OVS7514 | PRESS – FIT PIN 1/2" X 1-1/2" | 1 | 0.05 | 0.11 |
| 12 | OVS7515 | SPRING PIN 3/16" X 1-3/8" | 1 | 0.01 | 0.02 |



# DIAMOND PRODUCTS

# EAGLE IMPREGNATED DIAMOND BIT

EAGLE IMPREGNATED DIAMOND bits are the most widely used IMPREGNATED DIAMOND BITs in the core drilling operations by adjusting the combination of metal powders and diamonds in the matrix. EAGLE IMPREGNATED DIAMOND BITs can be manufactured to maximize penetration rates and bit life in a variety of rock formations.

As drilling progresses, the crown is slowly worn away exposing new diamonds on the cutting surface. When the wear rate between the matrix material and the diamonds is balanced, optimum penatration rates and bit life will be achieved.

EAGLE Bits are offered as a non-customizable design with a standard crown height and waterways.

EAGLE Bits offer a great combination of quality and value.

## IMPREGNATED DIAMOND BIT SERIES GUIDE

Eagle Bit's are typically designated by series. Each series is designed to work under specific condions of ground hardness and abrasiveness.

Please refer to the selection table to identify the appropriate series for your drilling conditions.

**SERIES 1/2** 1/2 Series for abrasive formations and most fractured formations.
Is also a good choice for cutting concrete with reinforcing.

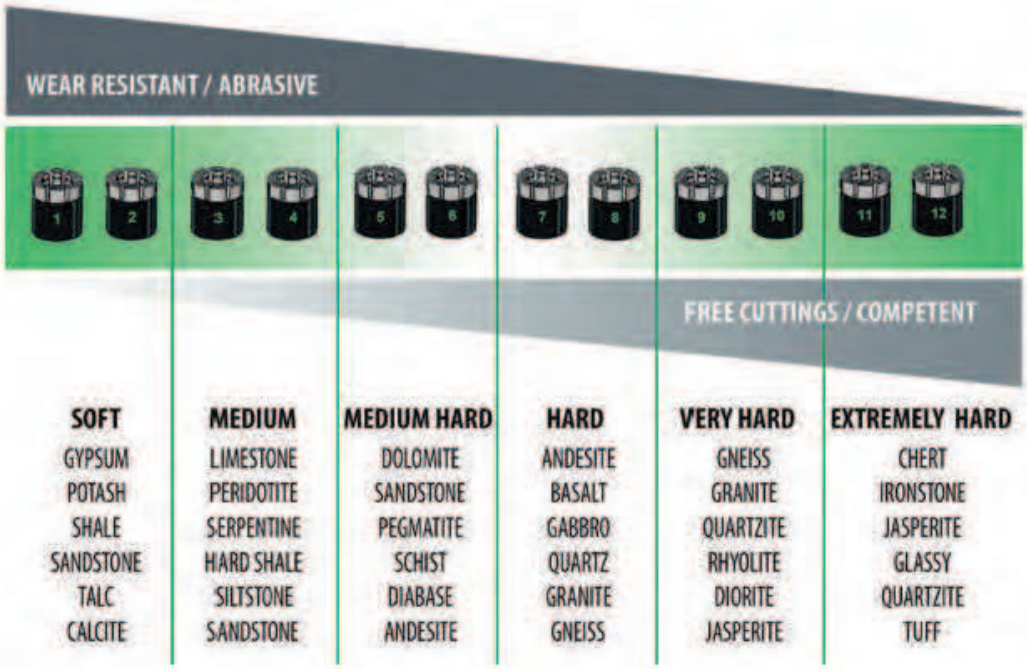
**SERIES 3/4** 3/4 Series is a good choice for cutting soft to medium formations.
Recommended for low powered drills only.High loads will seriously reduce bit life.

**SERIES 5/6** 5/6 Series is a general purpose formula for cutting formations in the medium hard range.
This series bit is less susceptebile to over-drilling at high loads than series 3/4.

**SERIES 7/8** 7/8 Series is a general purpose bit for cutting hard formations.For hard competent and nonabrasive formations. This free cutting bit requires high rotational speeds and light bit loads for best performance.

**SERIES 9/10** 9/10 Series is a free cutting formula for cutting very hard and ultra hard formations.
High rotational speeds and light bit loads.

**SERIES 11/12** 11/12 Series is made to cut ultra hard fine grain formations.
Needs high rotation speeds and low thrust.



## EAGLE REAMING SHELLS & DIAMOND LOCKING COUPLINGS

EAGLE Reaming Shells complete line of reaming shells are produced with premium natural diamonds to ensure great wear resistance while providing consistent hole diameter and helping to maintain drill string stability.

The reaming shell is used to maintain a specified hole diameter asthe rod string descends. In addition the reaming shell helps to stabilize the rod string.

## DIAMOND REAMING SHELLS ( RS ) / ELMASLI PORTKRON

| SIZE | PART | DESCRIPTION | AÇIKLAMA |
|---|---|---|---|
| AWL | RS100 | A-WL DIAMOND REAMING SHELL | A-WL ELMASLI PORTKRON |
| BWL | RS200 | B-WL DIAMOND REAMING SHELL | B-WL ELMASLI PORTKRON |
| NWL | RS300 | N-WL DIAMOND REAMING SHELL | N-WL ELMASLI PORTKRON |
| HWL | RS400 | H-WL DIAMOND REAMING SHELL | H-WL ELMASLI PORTKRON |
| PWL | RS500 | P-WL DIAMOND REAMING SHELL | P-WL ELMASLI PORTKRON |

# RODS & CASINGS

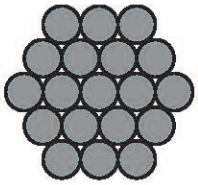
## CONVENTIONAL DRILL RODS SPECIFICATIONS

| SIZE | METRIC SYSTEM | | | U.S. SYSTEM | | | |
|---|---|---|---|---|---|---|---|
| | DIAMETER (mm) | | WEIGHT (kg) | DIAMETER (in) | | WEIGHT (lbs) | THREADS |
| | OUTER | INNER | 3.0 m | OUTER | INNER | 10 ft | pitch (in) |
| AW | 44.40 | 30.9 | 19.7 | 1.75 | 1.25 | 44.0 | 3.0 |
| BW | 54.00 | 44.5 | 18.2 | 2.12 | 1.75 | 40.0 | 3.0 |
| NW | 66.70 | 57.1 | 23.3 | 2.62 | 2.25 | 51.0 | 3.0 |
| AWJ | 44.50 | 34.9 | 14.7 | 1.75 | 1.37 | 33.0 | 5.0 |
| BWJ | 54.00 | 44.5 | 18.2 | 2.13 | 1.75 | 40.0 | 5.0 |
| NWJ | 66.70 | 57.1 | 24.6 | 2.62 | 2.25 | 55.0 | 4.0 |

## CONVENTIONAL DRILL RODS /GELENEKSEL SONDAJ TÜLERİ

| SIZE | PART* | DESCRIPTION | AÇIKLAMA |
|---|---|---|---|
| AW | AW150 | AW CONVENTIONAL ROD 1.5 MT / 5 FT | AW TÜ 1.5 MT / 5 FT |
| | AW300 | AW CONVENTIONAL ROD 3.0 MT / 10 FT | AW TÜ 3.0 MT / 10 FT |
| BW | BW150 | BW CONVENTIONAL ROD 1.5 MT / 5 FT | BW TÜ 1.5 MT / 5 FT |
| | BW300 | BW CONVENTIONAL ROD 3.0 MT / 10 FT | BW TÜ 3.0 MT / 10 FT |
| NW | NW150 | NW CONVENTIONAL ROD 1.5 MT / 5 FT | NW TÜ 1.5 MT / 5 FT |
| | NW300 | NW CONVENTIONAL ROD 3.0 MT / 10 FT | NW TÜ 3.0 MT / 10 FT |
| AWJ | AWJ150 | AWJ CONVENTIONAL ROD 1.5 MT / 5 FT | AWJ TÜ 1.5 MT / 5 FT |
| | AWJ300 | AWJ CONVENTIONAL ROD 3.0 MT / 10 FT | AWJ TÜ 3.0 MT / 10 FT |
| BWJ | BWJ150 | BWJ CONVENTIONAL ROD 1.5 MT / 5 FT | BWJ TÜ 1.5 MT / 5 FT |
| | BWJ300 | BWJ CONVENTIONAL ROD 3.0 MT / 10 FT | BWJ TÜ 3.0 MT / 10 FT |
| NWJ | NWJ150 | NWJ CONVENTIONAL ROD 1.5 MT / 5 FT | NWJ TÜ 1.5 MT / 5 FT |
| | NWJ300 | NWJ CONVENTIONAL ROD 3.0 MT / 10 FT | NWJ TÜ 3.0 MT / 10 FT |

# CONVENTIONAL DRILL RODS BUNDLE SPECIFICATIONS



AWJ CONVENTIONAL ROD BUNDLE SPECIFICATIONS

1.5M / 5FT ROD BUNDLE - 19 RODS

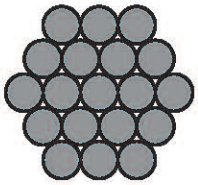
DIMENSIONS ( L - W - H ) : 1600 mm X 200 mm X 200 mm / 5.24 ft X 0.8 ft X 0.8 ft

WEIGHT: 150 kg / 330 lb

3.0M / 10FT ROD BUNDLE - 19 RODS

DIMENSIONS ( L - W - H ) : 3200 mm X 200 mm X 200 mm / 10.3 ft X 0.8 ft X 0.8 ft

WEIGHT: 290 kg / 637 lb



BWJ CONVENTIONAL ROD BUNDLE SPECIFICATIONS

1.5M / 5FT ROD BUNDLE - 19 RODS

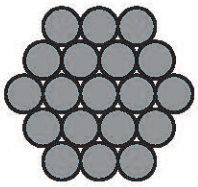
DIMENSIONS ( L - W - H ) : 1600 mm X 300 mm X 300 mm / 5.24 ft X 1.0 ft X 1.0 ft

WEIGHT: 188 kg / 415 lb

3.0M / 10FT ROD BUNDLE - 19 RODS

DIMENSIONS ( L - W - H ) : 3200 mm X 300 mm X 300 mm / 10.3 ft X 1.0 ft X 1.0 ft

WEIGHT: 365 kg / 800 lb



NWJ CONVENTIONAL ROD BUNDLE SPECIFICATIONS

1.5M / 5FT ROD BUNDLE - 19 RODS

DIMENSIONS ( L - W - H ) : 1600 mm X 300 mm X 300 mm / 5.24 ft X 1.0 ft X 1.0 ft

WEIGHT: 270 kg / 593 lb

3.0M / 10FT ROD BUNDLE - 19 RODS

DIMENSIONS ( L - W - H ) : 3200 mm X 300 mm X 300 mm / 10.3 ft X 1.0 ft X 1.0 ft

WEIGHT: 480 kg / 1058 lb

# تلاشگران فرتاک

## شرکت بازرگانی ، حفاری و اکتشاف


تهران، میدان جهاد (فاطمی)، ابتدای اتوبان شهید گمنام، خیابان جهانمهر، نبش کوچه بوعلی سینا غربی، پلاک ۷، طبقه اول، کد پستی : ۱۴۳۱۶۵۳۵۶۱

تلفن: ۸۸۹۷۳۶۲۶ / ۸۸۹۸۱۰۶۶ (۰۲۱)

واتس آپ: ۰۹۹۱ ۶۹۴۱۲۲۴

فکس : ۸۸۹۵۰۷۳۱ (۰۲۱)

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Quality Management System has conformed with an ISO 9001:2008

CE