



“ Our earnest effort
to build
your dream. ”



عدان العالمية للتجارة
ADDAAN INTERNATIONAL
TRADING COMPANY LTD.

www.addaaninternational.com

PROFILE

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“Our earnest effort
to build your Success.”

About

Addaan Trading Company LTD (AITC)

AITC Ltd is a global Trading company specialized in the procurement of spare parts and equipment used in the Mining.

We are agent for many brands and are providing drilling tools, bits, rods, machines, mud pumps. We are exclusive distribution agents for dozens of companies.

Our comprehensive range of services & products provide the customer with, innovative, effective, strategic as well as cost effective solutions.

VISION

To be a modern distribution company utilizing high technology, develop our solid network, providing our society value-adding services with high quality consumer goods.

MISSION

Is a journey to a sustainable and profitable growth, expand the reach creating long-term value for our customers, our people and our business partners, while maintaining our values and integrity.

Our Products

- 1. Drilling Machines
- 1.1 DESCO Drill Rig:

DESCO manufacturers a complete line of premium mance in some of the world's most the biggest Korean producers for drilling rigs. They sold over 5000 units during factory production line.

1.1.1. SP6500SA-RC & DD (Most Standard)



As one of the most standard drills upto RC 4" -350M. HO-700M depth for exploration drilling (RC & Diamond).

SP6500SA-RC surface coring drill is an advanced addition to the SP-SA-RC series featuring a telescopic and dump mast.

SP6500SA-RC is capable multi-purpose of both reverse circulation & diamond coring well as DTH, rotary drilling methods with pullback capacity of 16 ton and a torque can be increased.

SP6500SA-RC can also include advanced rod management system that ensures safe and efficient operation.

The reverse circulation (RC) drilling method utilizes to collect rock samples quickly and efficiently.

The high drilling speed and low cost of RC drilling makes it an ideal method for exploration project.

- SP6500SA-RC for exploration RC & diamond drilling.
- Design for drilling up to RC - 350M & HQ - 400M.
- Multi-purpose (reverse circulation & diamond drilling methods).
- Wireline system
- Percussion & rotary' drilling methods (Additional).
- Vertical. Angle Drilling (45 degree - go degree) capability.
- Foot clamping system.
- All instrument & control levers are concentrated.
- Mounted full package on drill rig.
- Self-loading system.
- Installed major hyd. Parts so easy to find spare parts in the market.
- Options - inverter. auto rod changer. pre-heating system. wireless remote control and so on.

1.1.2. SP5500SA-RC & DD

(Most simple & compact)

As one of the most standard drills upto RC 4" -250M. HQ-400M depth for exploration drilling (RC & Diamond). SP5500SA-RC surface coring drill is an advanced addition to the SP-SA-RC series featuring a telescopic and dump mast.

SP5500SA-RC is capable multi-purpose of both reverse circulation & diamond coring as well as DTH, rotary drilling methods with pullback capacity of 12 ton and a torque can be increased SP5500SA-RC can also include an advanced rod management system that ensures safe and efficient operation. The reverse circulation (RC) drilling method utilizes to collect rock samples quickly and efficiently. The high drilling speed and low cost of RC drilling makes it an ideal method for exploration project.



- SP5500SA-RC for exploration RC & diamond drilling.
- Design for drilling up to RC - 250M & HQ 400M.
- Multi-purpose (reverse circulation & diamond drilling methods) .
- Wireline system.
- Percussion & rotary drilling methods (Additional).
- Vertical, Angle Drilling (45 degree - 90 degree) capability .
- Foot clamping system.
- All instrument & control levers are concentrated.
- Mounted full package on drill rig.
- Self-loading system.
- Installed major hyd Parts so easy to find spare parts in the market.
- Options - inverter, auto rod changer, pre-heating system, wireless remote control and so on

1.1.3. SP7500SA-RC & DD

(Deep exploration diamond drilling)



As one of the most standard drills upto RC 4" -600M. PQ-1000M depth for exploration drilling (RC & Diamond). SP7500SA-RC surface coring drill is an advanced addition to the SP-SA-RC series featuring a telescopic and dump mast.

SP7500SA-RC is capable multi-purpose of both reverse circulation & diamond coring as well as DTH, rotary drilling methods with pullback capacity of 30 ton and a torque can be increased.

SP7500SA-RC can also include advanced rod management system that ensures safe and efficient operation.

The reverse circulation (RC) drilling method utilizes to collect rock samples quickly and efficiently.

The high drilling speed and low cost of RC drilling makes it an ideal method for exploration project of deeper RC & diamond drilling.

- SP7000SA-RC for exploration RC & diamond drilling.
- Design for drilling up to RC- 600M & PQ 1000M.
- Multi-purpose (reverse circulation & diamond drilling methods) .
- Wireline system.
- Percussion & rotary drilling methods (Additional) .
- Vertical. Angle Drilling (45 degree - go degree) capability .
- Foot clamping system.
- All instrument & control levers are concentrated.
- Mounted full package on drill rig.
- Self-loading system.
- Installed major hyd Parts so easy to find spare parts in the market.
- Options - inverter. auto rod changer. pre-heating system.
- wireless remote control and so on.

1.2. BARKOM Drill Rig

Barkom has a big market share for many years in diamond core drilling and as well as its own drilling equipment.

Barkom Group manufactures Underground Drill Rigs. BDU 400X specifically designed for underground diamond core drilling. Its modular structure enables it to fit narrow and confined areas of underground galleries. BDU 600 is designed to improve the performance of BDU 400X as well as adding new features to it. One of the major differences is the diesel engine and track system added to the rig.

1.2.1. BDU 600 Underground Drill Rig



BDU 600

Underground Drill Rig



**Gearbox with
High Torque
Output**



Wireline System



Crawler



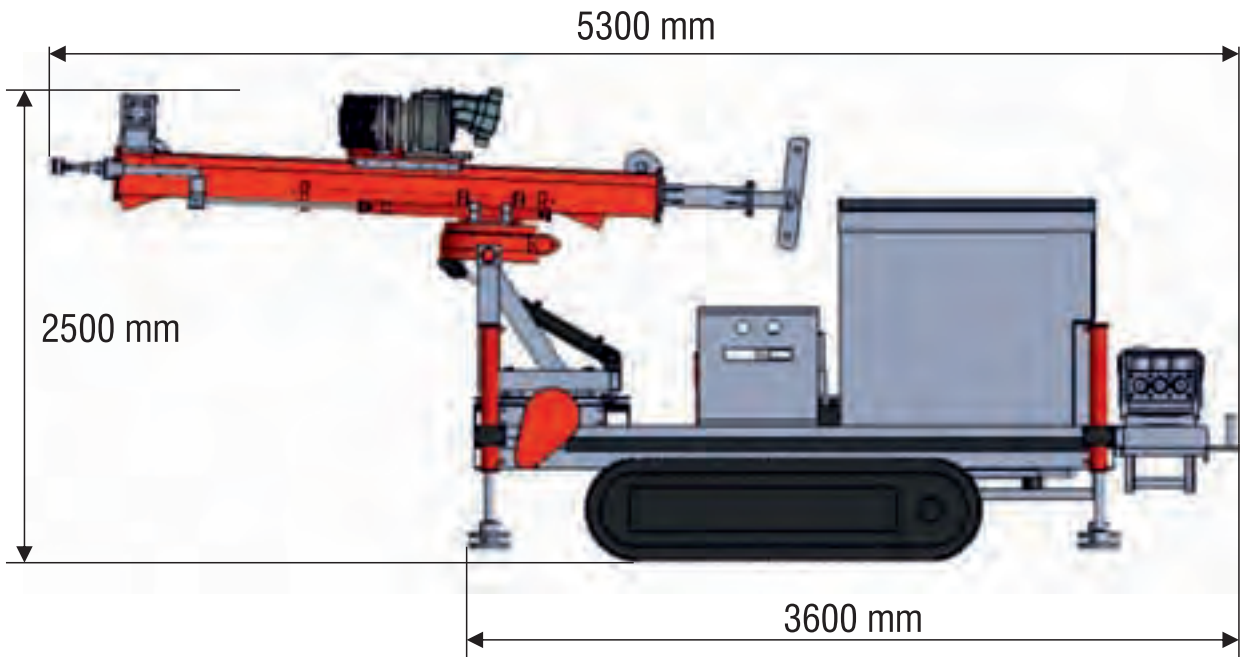
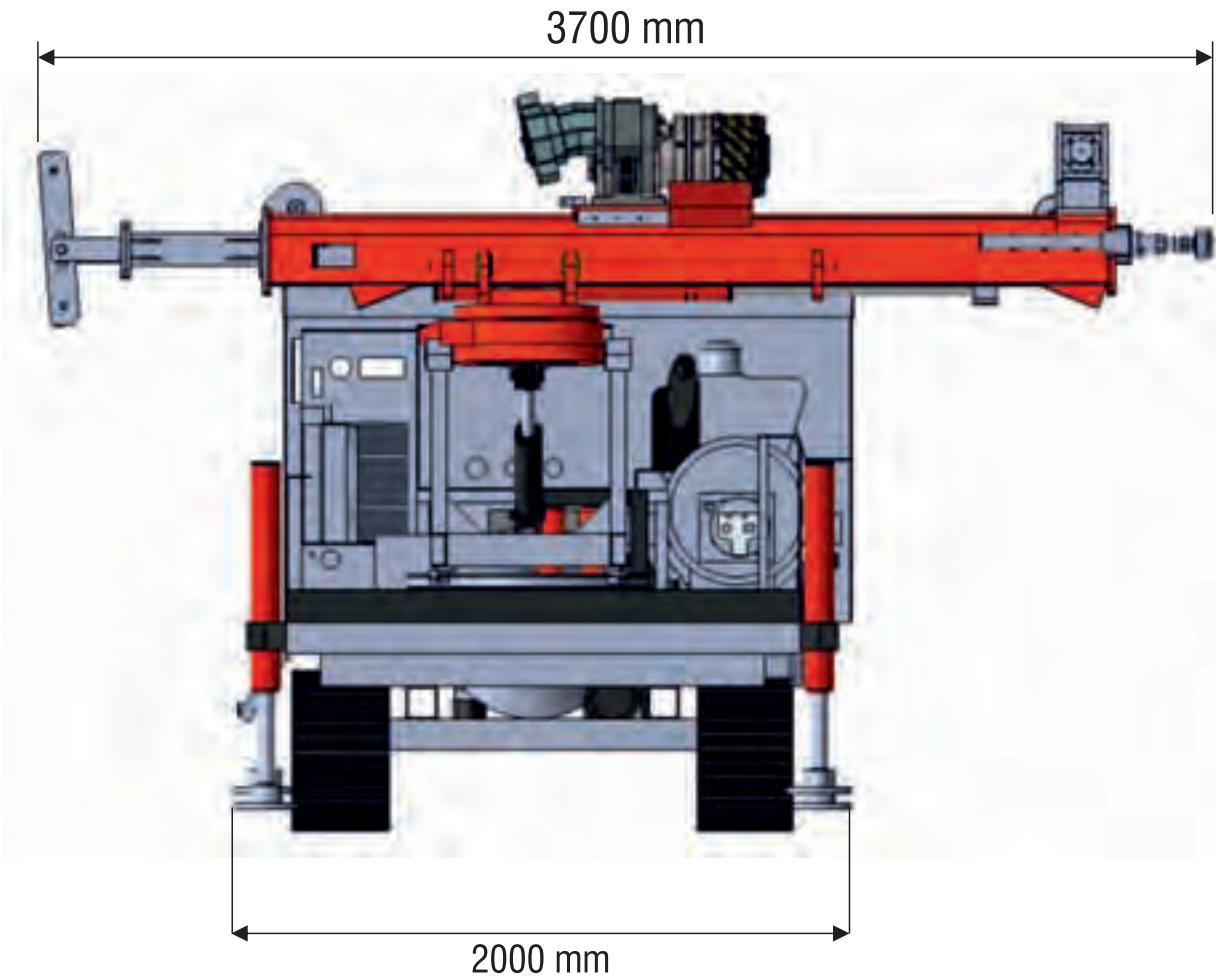
360° Rotating Mast



**Triplex Mud Pump
Portable Control Panel**



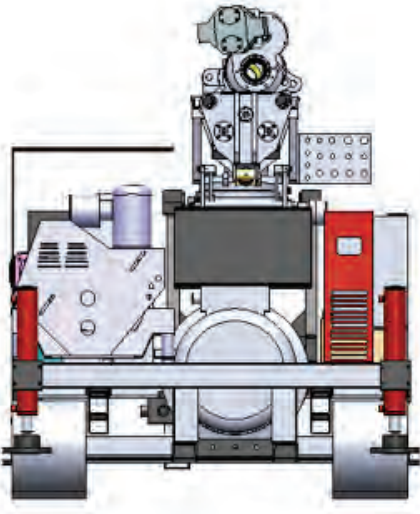
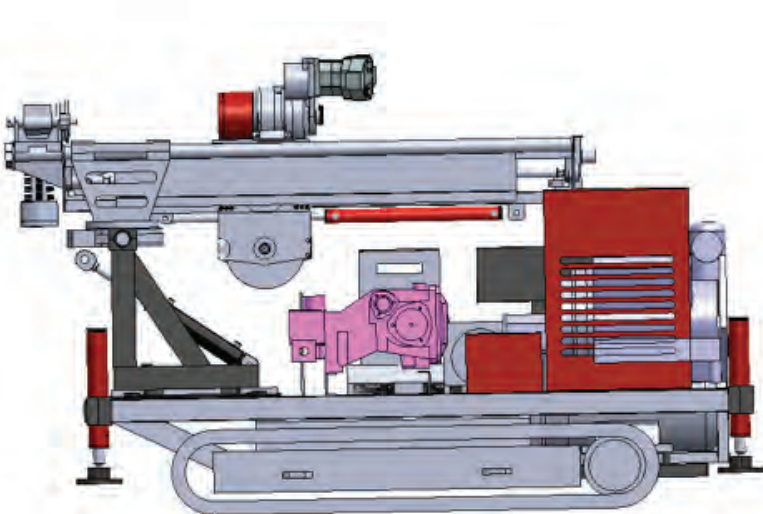
BDU 600 Underground Drill Rig



BDU 600 Technical Information

DIMENSIONS & WEIGHT	Length	m	5,30
	Width	m	2,00
	Height	m	2,50
	Mast Height	m	3,70
	Weight	Ton	5
ELECTRIC MOTOR	Model		GAMAK GM2E
	Power	kW	55
	Cooling System		Air Cooling
DIESEL MOTOR	Model		BEINEI/DEUTZ F3L912
	Power	kW	36
	Fuel Tank Capacity	Liter	30
	Coolin System		Air Cooling
ROTARY HEAD	Reduction		Spur Gear 3.3/1
	Maximum Rotation	rpm	2000
	Maximum Torque	Nm	1400
	Travel Distance	mm	1600
	Maximum Pipe Diameter	mm	90
FEED SYSTEM	Rotary head driven by hydraulic cylinders through heavy duty chain		
	Mast Movement (Sliding / Table)	mm	800 / 900
	Mast Rotation (Tilting / Rotating)	mm	0-95° / 360°
	Pull Capacity	Ton	12
	Push Capacity	Ton	7
HYDRAULIC SYSTEM	Model		Bosch Rexroth
	System		4 pump open loop
	Working Pressure	Bar	280
	Hydraulic Oil Tank Capacity	Liter	280
	Filtration	Micron	10
	Cooling System		Water Cooling
	Ambient Temperature Range	°C	-20 ~ 45
CLAMP	Maximum Diameter	mm	90
TRAVEL SYSTEM	Hydraulic motors are attached to the driving gear of the crawler system		
	Model		S4/17 (SC426B)
	Maximum Travel Speed	Km/hour	2
	Maximum Ground Pressure	Mpa	0,15
LIGHTING AND ELECTRICAL SYSTEM	Control Panel		1 x 10 lux
	Machine		2 x 10 lux
HYDRAULIC JACKS	Four hydraulic jacks are fitted to the outer corners of the rig for easy and accurate leveling of the rig.		
DRILLING DEPTH CAPACITY	BWL	m	800
	NWL	m	600
	HWL	m	300
WIRELINE SYSTEM	Line Diameter	mm	5
	Capacity	M	600
	Line Pull	Kg	100
MUD MUMP	Model		Hydraulic Triplex
	Maximum Flow	Liters / Minute	135
	Maximum Pressure	Bar	60
	Valve Type		Steel

1.2.2. BDU 400 Underground Drill Rig



Technical Specifications (BDU 400)

DIMENSIONS & WEIGHT	Length	m	5,20
	Width	m	1,35
	Height	m	2,30
	Mast Height	m	2,65
	Weight	Ton	3
ELECTRIC MOTOR	Model		GAMAK GM2E
	Power	kW	55
	Cooling System		Air Cooling
ROTARY HEAD	Reduction		Spur Gear 5.6/1
	Maximum Rotation	rpm	2000
	Maximum Torque	Nm	1200
	Travel Distance	mm	1300
	Maximum Pipe Diameter	mm	70
FEED SYSTEM	Rotary head driven by hydraulic cylinders through heavy duty chain		
	Mast Movement (Sliding / Table)	mm	280 / 250
	Mast Rotation (Tilting / Rotating)	mm	0-95° / 360°
	Pull Capacity	Ton	6,5
	Push Capacity	Ton	6,5
HYDRAULIC SYSTEM	Model		Bosch Rexroth
	System		3 pump open loop
	Working Pressure	Bar	280
	Hydraulic Oil Tank Capacity	Liter	220
	Filtration	Micron	10
	Cooling System		Water Cooling
	Ambient Temperature Range	°C	-20 ~ 45
CLAMP	Maximum Diameter	mm	70
TRAVEL SYSTEM	Hydraulic motors attached to the front wheels provide the necessary drive torque		
	Number of Wheels		2 front & 2 back
	Wheel Weight Capacity	Kg	800
	Maximum Walk Speed	Km / hour	2
LIGHTING AND ELECTRICAL SYSTEM	Control Panel		1 x 10 lux
	Machine		1 x 10 lux
HYDRAULIC JACKS	Four hydraulic jacks are fitted to the outer corners of the rig for easy and accurate leveling of the rig.		
DRILLING DEPTH CAPACITY	BWL	m	600
	NWL	m	400
OPTIONS			
MUD PUMP	Model		Hydraulic Triplex
	Maximum Flow Rate	Liters / Minute	135
	Maximum Pressure	Bar	60
	Valve Type		Steel Valve

1.4. American Mfg Company

American Mfg Company is a quality manufacturer of replacement parts for the wide variety of mud pumps, centrifugal pumps, rig parts, and swivel parts found on the World market today. American Mfg Company's plant is located in beautiful St. Joseph, Minnesota in America's heartland. A highly trained staff uses state-of-the-art equipment and proven quality control methods to produce the finest pump replacement parts found in the market today.

1- American AW1122D Piston Pump

Specifications	
Pump Model	AW1118, AW1122
Configuration	Horizontal Triplex Piston
Number of Pistons	3
Stroke Length	2.75 Inches (69.9 mm)
Frame Load Rating	lbs. (2,721 kg)
Pump Weight	lbs. (197 kg)
Direction of Rotation	Top of Shaft away from head
Internal Gear Rotation	3.6:1
Intermittent Duty Speed Rating	RPM (Jackshaft)
Continuous Duty Speed Rating	RPM (Jackshaft)
Ball Valve Max Speed Rating	RPM (Jackshaft)
Minimum Speed	RPM
Mechanical Efficiency	85%
Lubrication System	Splash, Gravity Return
Lube Oil Capacity	Gallon
Lube Oil Type	SAE 30
Maximum Fluid Temperature	140°F (250° Capability)
Minimum Fluid Temperature	0°F (-20° Capability)
Standard Suction Size	2.00 Inch NPT (50.8 mm)
Standard Discharge Size	1.25 Inch NPT (31.8 mm)
Fluid End Material	Ductile Iron
Valve Type	Disc Valves/Ball Valves
Hydraulic Motor Mount	SAE C - 4 Bolt with 1.25"-14T



Performance Rating																
Pump Model	Piston		Displacement/ REV		Maximum Pressure		Pump Capacity @ Input Speed (RPM)									
	Inch	mm	Gallon	Liter	PSI	kg/cm ²	350 RPM		500 RPM		635 RPM		750 RPM		900 RPM	
							gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm
AW1118	2.25	57.2	0.0394	0.149	1,000	70.3	13.8	52.2	19.7	74.6	25	94.6	29.6	112	35.5	134.4
AW1122	2.75	69.9	0.0589	0.223	1,000	70.3	20.6	78	29.5	112	37.4	142	44.2	167	53	201

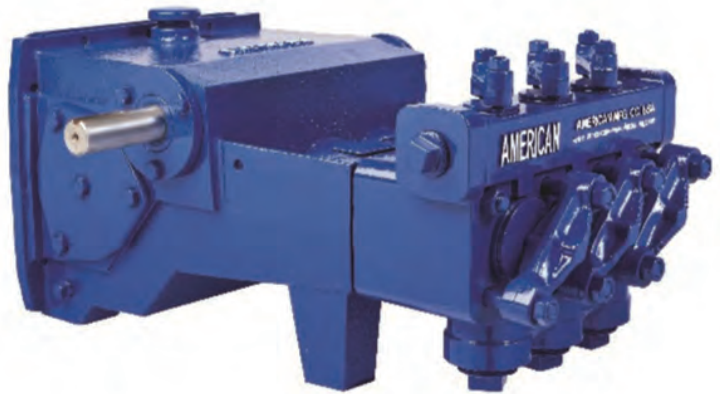
2- American AW1122BCD Piston Pump

AW11 Piston Pump Data

30 BHP Continuous Duty (36 BHP Intermittent Duty)

Specifications

Pump Model	AW1118, AW1122
Configuration	Horizontal Triplex Piston
Number of Pistons	3
Stroke Length	2.75 Inches (69.9 mm)
Frame Load Rating	lbs. (2,721 kg)
Pump Weight	lbs. (197 kg)
Direction of Rotation	Top of Shaft away from head
Internal Gear Rotation	3.6:1
Intermittent Duty Speed Rating	RPM (Jackshaft)
Continuous Duty Speed Rating	RPM (Jackshaft)
Ball Valve Max Speed Rating	RPM (Jackshaft)
Minimum Speed	RPM
Mechanical Efficiency	85%
Lubrication System	Splash, Gravity Return
Lube Oil Capacity	Gallon
Lube Oil Type	SAE 30
Maximum Fluid Temperature	140°F (250° Capability)
Minimum Fluid Temperature	0°F (-20° Capability)
Standard Suction Size	2.00 Inch NPT (50.8 mm)
Standard Discharge Size	1.25 Inch NPT (31.8 mm)
Fluid End Material	Ductile Iron
Valve Type	Disc Valves/Ball Valves
Hydraulic Motor Mount	SAE C - 4 Bolt with 1.25"-14T



Performance Rating

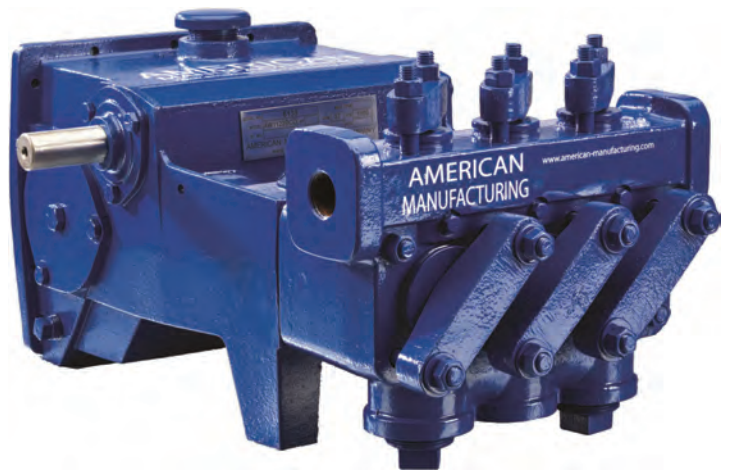
Pump Model	Piston		Displacement/ REV		Maximum Pressure		Pump Capacity @ Input Speed (RPM)									
							500 RPM		635 RPM		750 RPM		900 RPM			
	Inch	mm	Gallon	Liter	PSI	kg/cm ²	350 RPM									
							gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm
AW1118	2.25	57.2	0.0394	0.149	1,000	70.3	13.8	52.2	19.7	74.6	25	94.6	29.6	112	35.5	134.4
AW1122	2.75	69.9	0.0589	0.223	1,000	70.3	20.6	78	29.5	112	37.4	142	44.2	167	53	201

3- American AL0918B Piston Pump

AL0918 Piston Pump Data

11.6 BHP Continuous Duty (13.8 BHP Intermittent Duty)

Specifications	
Pump Model	AL0918
Configuration	Horizontal Triplex Piston
Number of Pistons	3
Stroke Length	2.25 Inches (57.2 mm)
Frame Load Rating	2800 lbs. (1,270 kg)
Pump Weight	200 lbs. (90.7 kg)
Direction of Rotation	Top of Shaft away from head
Internal Gear Rotation	3.6:1
Intermittent Duty Speed Rating	890 RPM (Jackshaft)
Continuous Duty Speed Rating	750 RPM (Jackshaft)
Ball Valve Max Speed Rating	625 RPM
Minimum Speed	360 RPM
Mechanical Efficiency	85%
Lubrication System	Splash, Gravity Return
Lube Oil Capacity	2.25 Quarts
Lube Oil Type	SAE 30
Maximum Fluid Temperature	140 °F (250 °F Capability)
Minimum Fluid Temperature	0 °F (-20 °F Capability)
Standard Suction Size	1.50 Inch NPT (38.1 mm)
Standard Discharge Size	1.00 Inch NPT (25.4 mm)
Fluid End Material	Cast Iron
Valve Type	Disc Valve / Ball Valve
Hydraulic Motor Mount	SAE C - 4 Bolt with 1.25"-14T



AL0918B Performance Rating

Diameter		Displacement/REV		Maximum Pressure		Capacity @ Input Speed									
						350 RPM		625 RPM		700 RPM		750 RPM		890 RPM	
Inch	mm	Gallon	Liter	PSI	kg/cm ²	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm
2.25	57.2	0.0323	0.122	700	49.2	11.3	43	20.2	76	22.6	86	24.2	92	28.7	109

4-American AME0413HD Piston Pump

AME0413HD Piston Pump Data

6.7 BHP Continuous Duty (8.5 BHP Intermittent Duty)

Specifications

Pump Model	AME0413HD
Configuration	Vertical Quadruplex Piston
Number of Pistons	4
Stroke Length	1.0 Inches (25.4 mm)
Frame Load Rating	lbs. (562.455 kg)
Pump Weight (Average)	lbs. (36.29 kg)
Direction of Rotation	Either
Internal Gear Rotation	1:1
Intermittent Duty Speed Rating	RPM
Continuous Duty Speed Rating	RPM
Minimum Speed	RPM
Mechanical Efficiency	85%
Lubrication System	Splash, Gravity Return
Lube Oil Capacity	Quart
Lube Oil Type	SAE 30
Maximum Fluid Temperature	140 °F
Minimum Fluid Temperature	0 °F
Standard Suction Size	1.25 Inch NPT
Standard Discharge Size	0.75 Inch NPT
Fluid End Material	Cast Iron
Valve Type	Disc Valve



Performance Rating

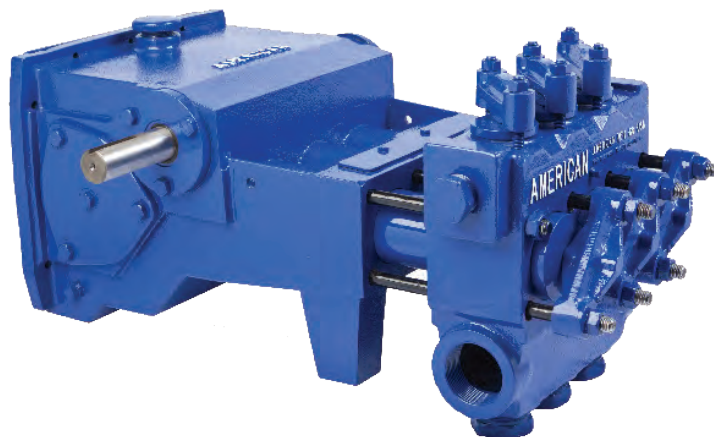
Pump Model	Diameter		Displacement/ REV		Maximum Pressure		Pump Capacity @ Input Speed (RPM)									
							390 RPM		400 RPM		425 RPM		450 RPM		575 RPM	
	Inch	mm	Gallon	Liter	PSI	kg/cm ²	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm
AME0413HD	1.625	41.27	0.036	0.12	550	38.6	14.01	53	14.36	54.35	15.26	57.77	16.16	61.17	20.65	78.17

5-American 470 Piston Pump

AL11 Piston Pump Data

37 BHP Continuous Duty (52 BHP Intermittent Duty)

Specifications	
Pump Model	AL1118, AL1122
Configuration	Horizontal Triplex Piston
Number of Pistons	3
Stroke Length	2.75 Inches (69.9 mm)
Frame Load Rating	lbs. (2.724 kg)
Pump Weight	lbs. (209 kg)
Direction of Rotation	Top of Shaft away from head
Internal Gear Rotation	3.6:1
Intermittent Duty Speed Rating	1,275 RPM (Jackshaft)
Continuous Duty Speed Rating	RPM (Jackshaft)
Ball Valve Max Speed Rating	RPM (Jackshaft)
Minimum Speed	RPM
Mechanical Efficiency	85%
Lubrication System	Splash, Gravity Return
Lube Oil Capacity	Gallon
Lube Oil Type	SAE 30
Maximum Fluid Temperature	140 °F (250 ° Capability)
Minimum Fluid Temperature	0 °F (-20 ° Capability)
Standard Suction Size	2.50 Inch NPT (63.5 mm)
Standard Discharge Size	1.25 Inch NPT (31.8 mm)
Fluid End Material	Ductile Iron
Valve Type	Disc Valves/ Ball Valves
Hydraulic Motor Mount	SAE C - 4 Bolt with 1.25"-14T



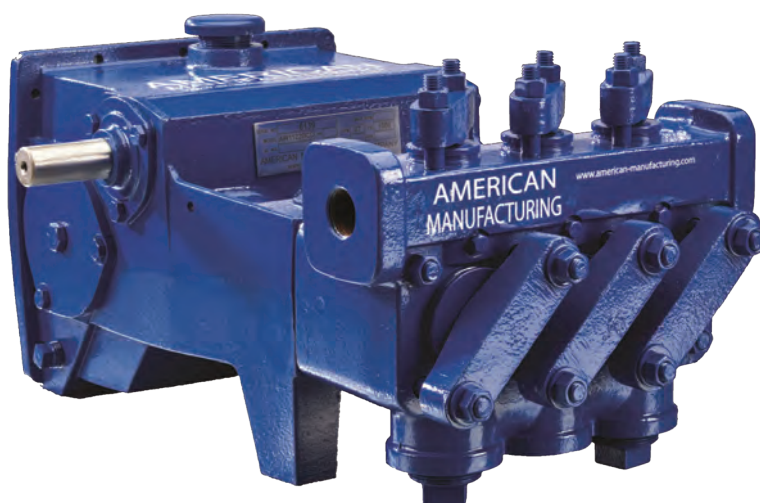
Performance Rating																
Pump Model	Piston		Displacement/ REV		Maximum Pressure		Pump Capacity @ Input Speed (RPM)									
							350 RPM		690 RPM		800 RPM		900 RPM		1275 RPM	
	Inch	mm	Gallon	Liter	PSI	kg/cm ²	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm
AL1118	2.25	57.2	0.0394	0.149	1,500	105.5	13.8	52.2	27.2	102.9	31.6	119.6	35.5	134.4	50.3	190.4
AL1122	2.75	69.9	0.0589	0.223	1,000	70.3	20.6	78	40.7	154	47.1	179	53	201	75.1	285

6- American AL0918D Piston Pump

AL0918 Piston Pump Data

11.6 BHP Continuous Duty (13.8 BHP Intermittent Duty)

Specifications	
Pump Model	AL0918
Configuration	Horizontal Triplex Piston
Number of Pistons	3
Stroke Length	2.25 Inches (57.2 mm)
Frame Load Rating	2800 lbs. (1,270 kg)
Pump Weight	200 lbs. (90.7 kg)
Direction of Rotation	Top of Shaft away from head
Internal Gear Rotation	3.6:1
Intermittent Duty Speed Rating	890 RPM (Jackshaft)
Continuous Duty Speed Rating	750 RPM (Jackshaft)
Ball Valve max speed rating	625 RPM
Minimum Speed	360 RPM
Mechanical Efficiency	85%
Lubrication System	Splash, Gravity Return
Lube Oil Capacity	2.25 Quarts
Lube Oil Type	SAE 30
Maximum Fluid Temperature	140 °F (250 °F Capability)
Minimum Fluid Temperature	0 °F (-20 °F Capability)
Standard Suction Size	1.50 Inch NPT (38.1 mm)
Standard Discharge Size	1.00 Inch NPT (25.4 mm)
Fluid End Material	Cast Iron
Valve Type	Disc Valves / Ball Valves
Hydraulic Motor Mount	SAE C - 4 Bolt with 1.25"-14T



Performance Rating

Pump Model	Diameter		Displacement/ REV		Maximum Pressure		Pump Capacity @ Input Speed (RPM)									
							350 RPM		625 RPM		700 RPM		750 RPM		890 RPM	
	Inch	mm	Gallon	Liter	PSI	kg/cm ²	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm
AL0918	2.25	57.2	0.0323	0.122	700	49.2	11.3	43	20.2	76	22.6	86	24.2	92	28.7	109

Diamond Drilling Tools

1-Diamond Drilling

For Drillers who Demand the Best

EHWA Diamond Industrial Co. Ltd and General Tool have developed a family of Drilling Tools to achieve maximum performance for all drilling applications .

These tools include :

- Impregnated core bits
- Reaming shells
- Casing shoes
- Thin wall core bits
- Diamond blades for cutting core samples



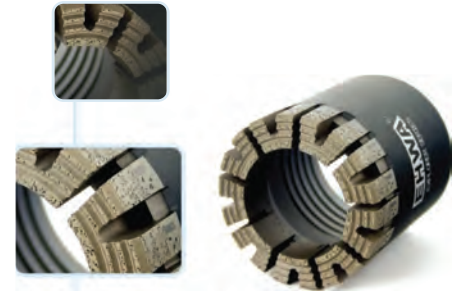
MINING CORE BITS



EHWA offers two grades of bits for all drilling applications. Each bit has a standard diamond depth of 13mm, controlled distribution of diamond, a pre - conditioned matrix for reduced break - in time, advanced engineered waterways for enhanced flow, and precise placement of natural diamonds, TC pads, and TSP diamond for ID and OD wear protection.

• **Explorer Series**

The Explorer Series of Impregnated Core Bits is a unique blend of components and ultra high quality diamonds designed for the most demanding drilling applications. Each core bit is manufactured under controlled conditions to ensure consistency and repeatability. The Explorer Series provides a variety of matrices for all rock formations.



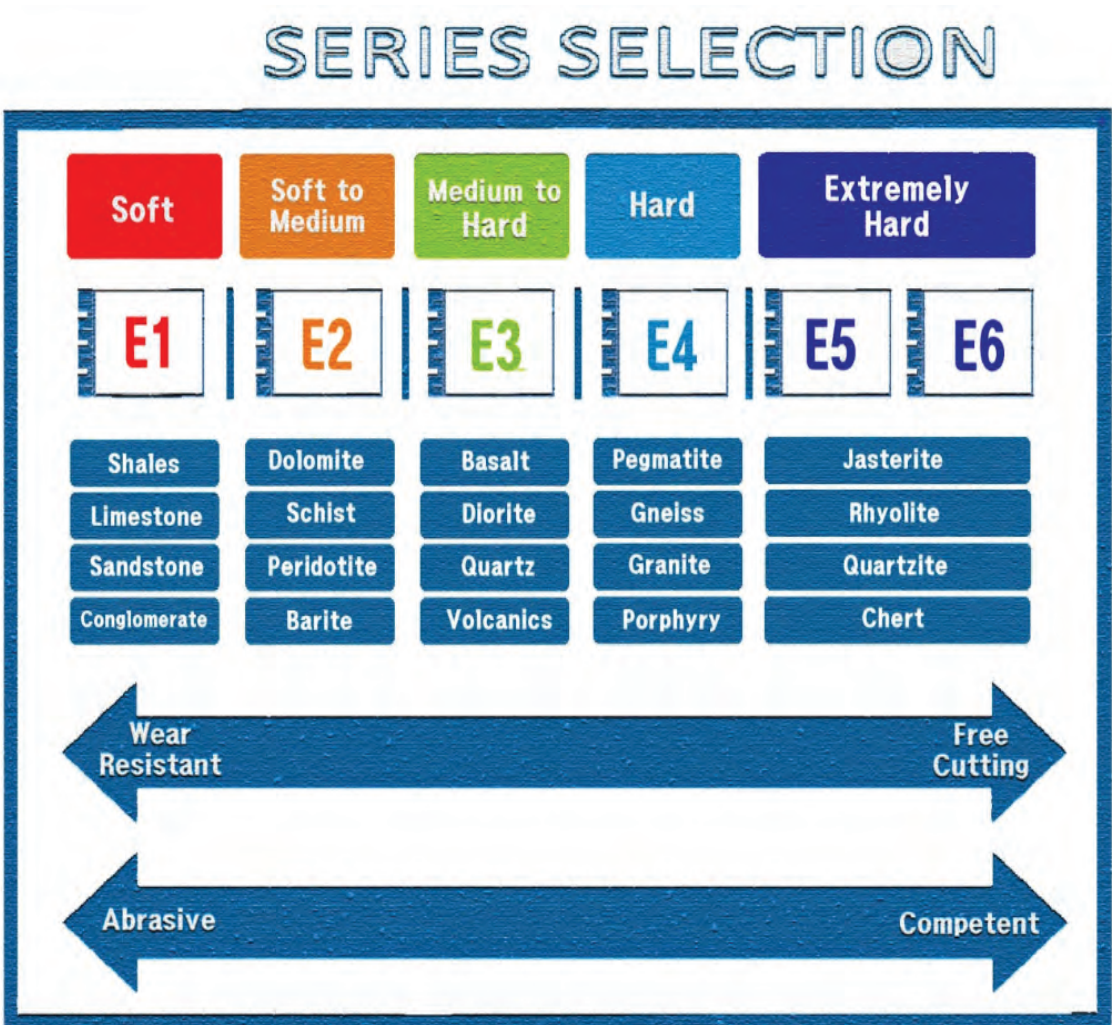
• **Pro Series**



Pie Type

- Other crown profiles available upon request.
- All crown profiles available for both Explorer and Geo - Pro Series

The Geo - Pro Series of Impregnated Core Bits is manufactured with the same precise high quality standards as the Explorer Series. These bits were developed for the Drilling Contractor that demands consistency of product and performance under the severest ground conditions. Available in four (4) distinct series.



Wireline Core Barrel

BWL CORE BARREL (1.5 & 3 M)

ITEM	PART NUMBER	DESCRIPTION
	AD-036411	BWL CORE BARREL 1,5M
	AD-5342999	BWL INNER TUBE GROUP 1.5M
	AD-036412	BWL CORE BARREL 3M
	AD-5343000	BWL INNER TUBE GROUP 3M
1	AD-5342292	BWL HEAD ASSEMBLY
2	AD-42356	BWL INNER TUBE 1,5M
	AD-42356CR	BWL INNER TUBE 1,5M Cr. Plated
	AD-42339	BWL INNER TUBE 3M
	AD-42339CR	BWL INNER TUBE 3M Cr. Plated
3	AD-42831	BWL STOP RING
4	AD-42342	BWL CORE LIFTER
5	AD-42830	BWL CORE LIFTER CASE
6	AD-5345400	BWL LOCKING COUPLING FULL HOLE TANG
	AD-5345398	BWL TC* LOCKING COUPLING
7	AD-42833	BWL ADAPTER COUPLING
8	AD-42345	BWL LANDING RING
9	AD-42357	BWL OUTER TUBE 1,5M
	AD-42357CR	BWL OUTER TUBE 1,5M Cr. Plated
	AD-42346	BWL OUTER TUBE 3M
	AD-42346CR	BWL OUTER TUBE 3M Cr. Plated
10	AD-44406	BWL INNER TUBE STABILIZER
11	AD-534060	BWL TC* REAMING SHELL



BWLU CORE BARREL 1,5M & 3M

ITEM	PART NUMBER	DESCRIPTION
	AD-5344018	BWLU CORE BARREL 1,5M
	AD-5344030	BWLU INNER TUBE GROUP 1.5M
	AD-5344024	BWLU CORE BARREL 3M
	AD-5344036	BWLU INNER TUBE GROUP 3M
1	AD-5344012	BWLU HEAD ASSEMBLY
2	AD-42356	BWL INNER TUBE 1,5M
	AD-42356CR	BWL INNER TUBE 1,5M Cr. Plated
	AD-42339	BWL INNER TUBE 3M
	AD-42339CR	BWL INNER TUBE 3M Cr. Plated
3	AD-42831	BWL STOP RING
4	AD-42342	BWL CORE LIFTER
5	AD-42830	BWL CORE LIFTER CASE
6	AD-5345400	BWL LOCKING COUPLING FULL HOLE TANG
	AD-5345398	BWL TC* LOCKING COUPLING
7	AD-42833	BWL ADAPTER COUPLING
8	AD-42345	BWL LANDING RING
9	AD-42357	BWL OUTER TUBE 1,5M
	AD-42357CR	BWL OUTER TUBE 1,5M Cr. Plated
	AD-42346	BWL OUTER TUBE 3M
	AD-42346CR	BWL OUTER TUBE 3M Cr. Plated
10	AD-44406	BWL INNER TUBE STABILIZER
11	AD-534060	BWL TC* REAMING SHELL



NWL CORE BARREL (1.5 & 3 M)

ITEM	PART NUMBER	DESCRIPTION
	AD-036001	NWL CORE BARREL 1,5M
	AD-5342920	NWL INNER TUBE GROUP 1.5M
	AD-036002	NWL CORE BARREL 3M
	AD-5342921	NWL INNER TUBE GROUP 3M
1	AD-5342751	NWL HEAD ASSEMBLY
2	AD-42909	NWL INNER TUBE 1,5M
	AD-42909CR	NWL INNER TUBE 1,5M Cr. Plated
	AD-42891	NWL INNER TUBE 3M
	AD-42891CR	NWL INNER TUBE 3M Cr. Plated
3	AD-42893	NWL STOP RING
4	AD-42894	NWL CORE LIFTER
5	AD-42892	NWL CORE LIFTER CASE
6	AD-5345405	NWL LOCKING COUPLING FULL HOLE TANG
	AD-26764	NWL TC* LOCKING COUPLING
7	AD-42896	NWL ADAPTER COUPLING
8	AD-42897	NWL LANDING RING
9	AD-42910	NWL OUTER TUBE 1,5M
	AD-42910CR	NWL OUTER TUBE 1,5M Cr. Plated
	AD-42898	NWL OUTER TUBE 3M
	AD-42898CR	NWL OUTER TUBE 3M Cr. Plated
10	AD-44407	NWL INNER TUBE STABILIZER
11	AD-534061	NWL TC* REAMING SHELL



NWLU CORE BARREL 1,5M & 3M

ITEM	PART NUMBER	DESCRIPTION
	AD-5344020	NWLU CORE BARREL 1,5M
	AD-5344032	NWLU INNER TUBE GROUP 1.5M
	AD-5344026	NWLU CORE BARREL 3M
	AD-5344038	NWLU INNER TUBE GROUP 3M
1	AD-5348625	NWLU HEAD ASSEMBLY
2	AD-42909	NWL INNER TUBE 1,5M
	AD-42909CR	NWL INNER TUBE 1,5M Cr. Plated
	AD-42891	NWL INNER TUBE 3M
	AD-42891CR	NWL INNER TUBE 3M Cr. Plated
3	AD-42893	NWL STOP RING
4	AD-42894	NWL CORE LIFTER
5	AD-42892	NWL CORE LIFTER CASE
6	AD-5345405	NWL LOCKING COUPLING FULL HOLE TANG
	AD-26764	NWL TC* LOCKING COUPLING
7	AD-5346706	NWL ADAPTER COUPLING
8	AD-42897	NWL LANDING RING
9	AD-42910	NWL OUTER TUBE 1,5M
	AD-42910CR	NWL OUTER TUBE 1,5M Cr. Plated
	AD-42898	NWL OUTER TUBE 3M
	AD-42898CR	NWL OUTER TUBE 3M Cr. Plated
10	AD-44407	NWL INNER TUBE STABILIZER
11	AD-534061	NWL TC* REAMING SHELL



NWLTK/NWL2" CORE BARREL 1,5M & 3M

ITEM	PART NUMBER	DESCRIPTION
	AD-036012	NWLTK CORE BARREL 1,5M
	AD-5342922	NWLTK INNER TUBE GROUP 1.5M
	AD-036013	NWLTK CORE BARREL 3M
	AD-5342923	NWLTK INNER TUBE GROUP 3M
1	AD-5342752	NWLTK HEAD ASSEMBLY
2	AD-44663	NWLTK INNER TUBE 1,5M
	AD-44663CR	NWLTK INNER TUBE 1,5M Cr. Plated
	AD-34601	NWLTK INNER TUBE 3M
	AD-34601CR	NWLTK INNER TUBE 3M Cr. Plated
3	AD-92210	NWLTK STOP RING
4	AD-16416	NWLTK CORE LIFTER
5	AD-92209	NWLTK CORE LIFTER CASE
6	AD-5345405	NWL LOCKING COUPLING FULL HOLE TANG
	AD-26764	NWL TC* LOCKING COUPLING
7	AD-42896	NWL ADAPTER COUPLING
8	AD-92214	NWLTK LANDING RING
9	AD-42910	NWL OUTER TUBE 1,5M
	AD-42910CR	NWL OUTER TUBE 1,5M Cr. Plated
	AD-42898	NWL OUTER TUBE 3M
	AD-42898CR	NWL OUTER TUBE 3M Cr. Plated
10	AD-34812	NWLTK INNER TUBE STABILIZER
11	AD-534061	NWL TC* REAMING SHELL



HWL CORE BARREL 1,5M & 3M

ITEM	PART NUMBER	DESCRIPTION
	AD-5342946	HWL CORE BARREL 1,5M
	AD-5342942	HWL INNER TUBE GROUP 1.5M
	AD-5342947	HWL CORE BARREL 3M
	AD-5342943	HWL INNER TUBE GROUP 3M
1	AD-0501440	HWL HEAD ASSEMBLY
2	AD-52258	HWL INNER TUBE 1,5M
	AD-52258CR	HWL INNER TUBE 1,5M Cr. Plated
	AD-52236	HWL INNER TUBE 3M
	AD-52236CR	HWL INNER TUBE 3M Cr. Plated
3	AD-52238	HWL STOP RING
4	AD-03489	HWL CORE LIFTER
5	AD-52237	HWL CORE LIFTER CASE
6	AD-5345409	HWL LOCKING COUPLING FULL HOLE TANG
	AD-26765	HWL TC* LOCKING COUPLING
7	AD-52241	HWL ADAPTER COUPLING
8	AD-52242	HWL LANDING RING
9	AD-52259	HWL OUTER TUBE 1,5M
	AD-52259CR	HWL OUTER TUBE 1,5M Cr. Plated
	AD-52243	HWL OUTER TUBE 3M
	AD-52243CR	HWL OUTER TUBE 3M Cr. Plated
10	AD-44408	HWL INNER TUBE STABILIZER
11	AD-534062	HWL TC* REAMING SHELL



PWL CORE BARREL 1,5M & 3M

ITEM	PART NUMBER	DESCRIPTION
	AD-5343865	PWL CORE BARREL 1,5M
	AD-5343863	PWL INNER TUBE GROUP 1.5M
	AD-5343866	PWL CORE BARREL 3M
	AD-5343864	PWL INNER TUBE GROUP 3M
1	AD-0501444	PWL HEAD ASSEMBLY
2	AD-62159	PWL INNER TUBE 1,5M
	AD-62159CR	PWL INNER TUBE 1,5M Cr. Plated
	AD-62534	PWL INNER TUBE 3M
	AD-62534CR	PWL INNER TUBE 3M Cr. Plated
3	AD-62161	PWL STOP RING
4	AD-62162	PWL CORE LIFTER
5	AD-25172	PWL CORE LIFTER CASE
6	AD-011343	PWL LOCKING COUPLING FULL HOLE TANG
	AD-011105	PWL TC* LOCKING COUPLING
7	AD-5343808	PWL ADAPTER COUPLING
8	AD-5343814	PWL LANDING RING
9	AD-5343802	PWL OUTER TUBE 1,5M
	AD-5343802CR	PWL OUTER TUBE 1,5M Cr. Plated
	AD-5343801	PWL OUTER TUBE 3M
	AD-5343801CR	PWL OUTER TUBE 3M Cr. Plated
10	AD-44923	PWL INNER TUBE STABILIZER
11	AD-534063	PWL TC* REAMING SHELL



NWL3 CORE BARREL (1.5 & 3 M)

ITEM	PART NUMBER	DESCRIPTION
	AD-5340572	NWL3 CORE BARREL 1,5M
	AD-5342924	NWL3 INNER TUBE GROUP 1.5M
	AD-5340573	NWL3 CORE BARREL 3M
	AD-5342925	NWL3 INNER TUBE GROUP 3M
1	AD-5342751	NWL HEAD ASSEMBLY
2	AD-6532	NWL3 PUMP OUT ADAPTER ASSEMBLY
3	AD-62662	NWL3 PISTON PLUG
4	AD-62134	NWL3 PISTON O-RING
5	AD-62526	NWL3 CORE EJECTION PISTON
6	AD-62527	NWL3 SPLIT TUBE 1,5M
	AD-62528	NWL3 SPLIT TUBE 3M
7	AD-42909	NWL INNER TUBE 1,5M
	AD-52891	NWL INNER TUBE 3M
8	AD-62530	NWL3 STOP RING
9	AD-62531	NWL3 CORE LIFTER
10	AD-62529	NWL3 CORE LIFTER CASE
11	AD-5345405	NWL LOCKING COUPLING FULL HOLE TANG
	AD-26764	NWL TC* LOCKING COUPLING
12	AD-42896	NWL ADAPTER COUPLING
13	AD-42897	NWL LANDING RING
14	AD-42910	NWL OUTER TUBE 1,5M
	AD-42910CR	NWL OUTER TUBE 1,5M Cr. Plated
	AD-42898	NWL OUTER TUBE 3M
	AD-42898CR	NWL OUTER TUBE 3M Cr. Plated
15	AD-44407	NWL INNER TUBE STABILIZER
16	AD-534061	NWL TC* REAMING SHELL



PWL CORE BARREL 1,5M & 3M

ITEM	PART NUMBER	DESCRIPTION
	AD-5342948	HWL3 CORE BARREL 1,5M
	AD-5342944	HWL3 INNER TUBE GROUP 1.5M
	AD-5342949	HWL3 CORE BARREL 3M
	AD-5342945	HWL3 INNER TUBE GROUP 3M
1	AD-0501440	HWL HEAD ASSEMBLY
2	AD-62517	HWL3 PUMP OUT ADAPTER ASSEMBLY
3	AD-62662	HWL3 PISTON PLUG
4	AD-02651	HWL3 PISTON O-RING
5	AD-62510	HWL3 CORE EJECTION PISTON
6	AD-62512	HWL3 SPLIT TUBE 1,5M
	AD-62513	HWL3 SPLIT TUBE 3M
7	AD-52258	HWL INNER TUBE 1,5M
	AD-52236	HWL INNER TUBE 3M
8	AD-62515	HWL3 STOP RING
9	AD-62516	HWL3 CORE LIFTER
10	AD-62514	HWL3 CORE LIFTER CASE
11	AD-5345409	HWL LOCKING COUPLING FULL HOLE TANG
	AD-26765	HWL TC* LOCKING COUPLING
12	AD-52241	HWL ADAPTER COUPLING
13	AD-52242	HWL LANDING RING
14	AD-52259	HWL OUTER TUBE 1,5M
	AD-52259CR	HWL OUTER TUBE 1,5M Cr. Plated
	AD-52243	HWL OUTER TUBE 3M
	AD-52243CR	HWL OUTER TUBE 3M Cr. Plated
15	AD-44408	HWL INNER TUBE STABILIZER
16	AD-534062	HWL TC* REAMING SHELL



NWL3 CORE BARREL (1.5 & 3 M)

ITEM	PART NUMBER	DESCRIPTION
	AD-5343869	PWL3 CORE BARREL 1,5M
	AD-5343867	PWL3 INNER TUBE GROUP 1.5M
	AD-5343870	PWL3 CORE BARREL 3M
	AD-5343868	PWL3 INNER TUBE GROUP 3M
1	AD-0501444	PWL HEAD ASSEMBLY
2	AD-62182	PWL3 PUMP OUT ADAPTER
3	AD-62662	PWL3 PISTON PLUG ASSEMBLY
4	AD-62178	PWL3 PISTON O-RING
5	AD-62179	PWL3 CORE EJECTION PISTON
6	AD-62180	PWL3 SPLIT TUBE 1,5M
	AD-62710	PWL3 SPLIT TUBE 3M
7	AD-62159	PWL INNER TUBE 1,5M
	AD-62534	PWL INNER TUBE 3M
8	AD-62176	PWL3 STOP RING
9	AD-62177	PWL3 CORE LIFTER
10	AD-62160	PWL3 CORE LIFTER CASE
11	AD-011343	PWL LOCKING COUPLING FULL HOLE TANG
	AD-011105	PWL TC* LOCKING COUPLING
12	AD-5343808	PWL ADAPTER COUPLING
13	AD-5343814	PWL LANDING RING
14	AD-5343802	PWL OUTER TUBE 1,5M
	AD-5343802CR	PWL OUTER TUBE 1,5M Cr. Plated
	AD-5343801	PWL OUTER TUBE 3M
	AD-5343801CR	PWL OUTER TUBE 3M Cr. Plated
15	AD-44923	PWL INNER TUBE STABILIZER
16	AD-534063	PWL TC* REAMING SHELL



CORE BARREL 1.5M & 3M CONVERSION KITS

NWL3 CORE BARREL 1.5M & 3M CONVERSION KIT

ITEM	PART NUMBER	DESCRIPTION
1	AD-653201	WL3 ADAPTER COUPLING
2	AD-6532	NWL3 PUMP OUT ADAPTER
3	AD-62662	WL3 PISTON PLUG
4	AD-6266201	WL3 FLANGE NUT
5	AD-6266202	WL3 HEX NUT
6	AD-62134	NWL3 PISTON O-RING
7	AD-62526	NWL3 CORE EJECTION PISTON
8	AD-62530	NWL3 STOP RING
9	AD-62531	NWL3 CORE LIFTER
10	AD-62529	NWL3 CORE LIFTER CASE
11	AD-62527	NWL3 SPLIT TUBE 1,5M
	AD-62528	NWL3 SPLIT TUBE 3M



HWL3 CORE BARREL 1.5M & 3M CONVERSION KIT

ITEM	PART NUMBER	DESCRIPTION
1	AD-6251701	WL3 ADAPTER COUPLING
2	AD-62517	HWL3 PUMP OUT ADAPTER
3	AD-62663	WL3 PISTON PLUG
4	AD-6266301	WL3 FLANGE NUT
5	AD-6266302	WL3 HEX NUT
6	AD-02651	HWL3 PISTON O-RING
7	AD-62510	HWL3 CORE EJECTION PISTON
8	AD-62515	HWL3 STOP RING
9	AD-62516	HWL3 CORE LIFTER
10	AD-62514	HWL3 CORE LIFTER CASE
11	AD-62512	HWL3 SPLIT TUBE 1,5M
	AD-62513	HWL3 SPLIT TUBE 3M



PWL3 CORE BARREL 1.5M & 3M CONVERSION KIT

ITEM	PART NUMBER	DESCRIPTION
1	AD-6218201	WL3 ADAPTER COUPLING
2	AD-62182	PWL3 PUMP OUT ADAPTER
3	AD-62664	WL3 PISTON PLUG
4	AD-6266401	WL3 FLANGE NUT
5	AD-6266402	WL3 HEX NUT
6	AD-62178	PWL3 PISTON O-RING
7	AD-62179	PWL3 CORE EJECTION PISTON
8	AD-62176	PWL3 STOP RING
9	AD-62177	PWL3 CORE LIFTER
10	AD-62160	PWL3 CORE LIFTER CASE
11	AD-62180	PWL3 SPLIT TUBE 1,5M
	AD-62710	PWL3 SPLIT TUBE 3M



B SINGLE TUBE CORE BARREL



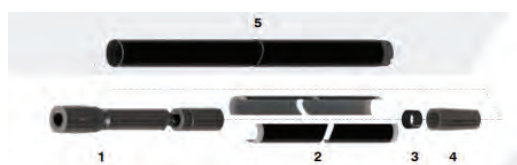
SINGLE TUBE CORE BARREL	B-56	B-66	B-76	B-86	B-101	B-116	B-131
ITEM DESCRIPTION	PART	PART	PART	PART	PART	PART	PART
1 HEAD	AD-B560-011	AD-B660-011	AD-B760-011	AD-B860-011	AD-B101-011	AD-B116-011	AD-B131
2 OUTER TUBE 3M	AD-B560-030	AD-B660-030	AD-B760-030	AD-B860-030	AD-B101-030	AD-B116-030	AD-B131
OUTER TUBE 1.5M	AD-B560-015	AD-B660-015	AD-B760-015	AD-B860-015	AD-B101-015	AD-B116-015	AD-B131
3 CORE LIFTER	AD-B560-012	AD-B660-012	AD-B760-012	AD-B860-012	AD-B101-012	AD-B116-012	AD-B131
4 REAMING SHELL TC*	AD-B560-017	AD-B660-017	AD-B760-017	AD-B860-017	AD-B101-017	AD-B116-017	AD-B131
5 CORE BARREL 3M	AD-B560-018	AD-B660-018	AD-B760-018	AD-B860-018	AD-B101-018	AD-B116-018	AD-B131
CORE BARREL 1.5M	AD-B560-019	AD-B660-019	AD-B760-019	AD-B860-019	AD-B101-019	AD-B116-019	AD-B131

T DOUBLE TUBE CORE BARREL



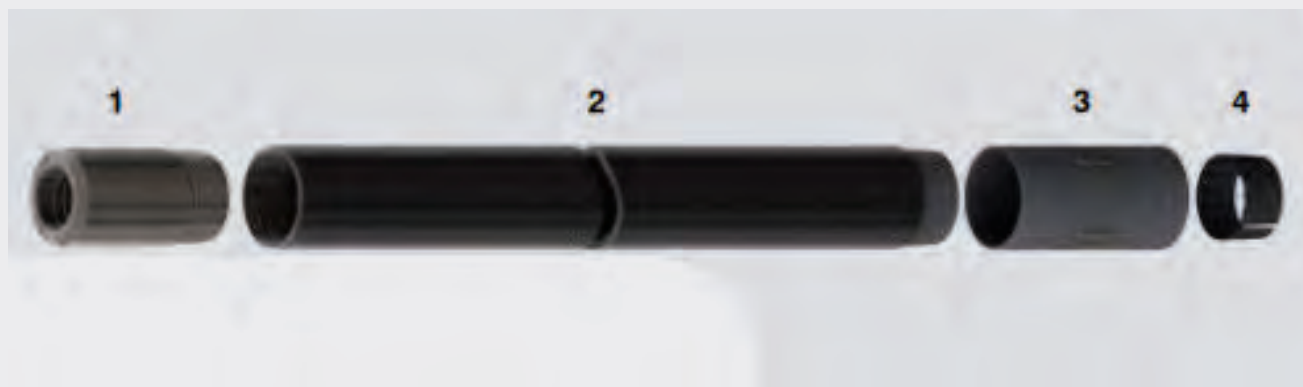
DOUBLE TUBE CORE BARREL	B-56	B-66	B-76	B-86	B-101
ITEM DESCRIPTION	PART	PART	PART	PART	PART
1 HEAD	AD-T560-011	AD-T660-011	AD-T760-011	AD-T860-011	AD-T101-011
2 INNER TUBE 3M	AD-T560-063	AD-T660-063	AD-T760-063	AD-T860-063	AD-T101-063
INNER TUBE 1,5M	AD-T560-065	AD-T660-065	AD-T760-065	AD-T860-065	AD-T101-065
3 EXTENTION TUBE	AD-T560-014	AD-T660-014	AD-T760-014	AD-T860-014	AD-T101-014
4 CORE LIFTER	AD-T560-012	AD-T660-012	AD-T760-012	AD-T860-012	AD-T101-012
5 CORE LIFTER CASE	AD-T560-013	AD-T660-013	AD-T760-013	AD-T860-013	AD-T101-013
6 OUTER TUBE 3M	AD-T560-030	AD-T660-030	AD-T760-030	AD-T860-030	AD-T101-030
OUTER TUBE 1,5M	AD-T560-015	AD-T660-015	AD-T760-015	AD-T860-015	AD-T101-015
7 REAMING SHELL TC*	AD-T560-017	AD-T660-017	AD-T760-017	AD-T860-017	AD-T101-017
8 CORE BARREL 3M	AD-T560-018	AD-T660-018	AD-T760-018	AD-T860-018	AD-T101-018
CORE BARREL 1,5M	AD-T560-019	AD-T660-019	AD-T760-019	AD-T860-019	AD-T101-019

T6 S DOUBLE TUBE SPLIT CORE BARREL



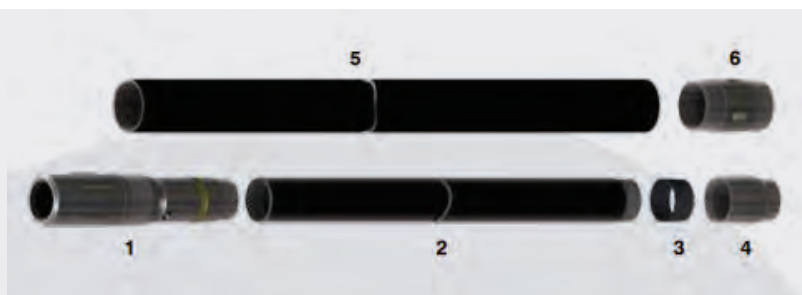
DOUBLE TUBE SPLIT CORE BARREL	T6 S-86	T6 S-101	T6 S-116	T6 S-131
ITEM DESCRIPTION	PART	PART	PART	PART
1 HEAD	AD-T6086-000	AD-T6101-000	AD-T6116-000	AD-T6131-000
2 SPLIT INNER TUBE 1,5M	AD-T6086-S02	AD-T6101-S02	AD-T6116-S02	AD-T6131-S02
3 CORE LIFTER	AD-T6086-S03	AD-T6101-S03	AD-T6116-S03	AD-T6131-S03
4 CORE LIFTER CASE	AD-T6086-S04	AD-T6101-S04	AD-T6116-S04	AD-T6131-S04
5 OUTER TUBE 1,5M	AD-T6086-S05	AD-T6101-S05	AD-T6116-S05	AD-T6131-S05
6 CORE BARREL 1,5M	AD-T6086-S06	AD-T6101-S06	AD-T6116-S06	AD-T6131-S06

WG SINGLE TUBE CORE BARREL



WG SINGLE TUBE CORE BARREL			BWG	BWG CORE DIAMETER	BWG HOLE DIAMETER	NWG	NWG CORE DIAMETER	NWG HOLE DIAMETER
ITEM	ITEM DESCRIPTION	PART				PART		
1	HEAD	AD-BWG-011				AD-NWG-011		
2	OUTER TUBE 3M	AD-BWG-030				AD-NWG-030		
	OUTER TUBE 1.5M	AD-BWG-015				AD-NWG-015		
3	REAMING SHELL TC*	AD-BWG-013		42mm	60mm	AD-NWG-013	54.7mm	75.6mm
4	CORE LIFTER	AD-BWG-014				AD-NWG-014		
5	CORE BARREL 3M	AD-BWG-016				AD-NWG-016		
	CORE BARREL 1.5M	AD-BWG-017				AD-NWG-017		

WM DOUBLE TUBE CORE BARREL



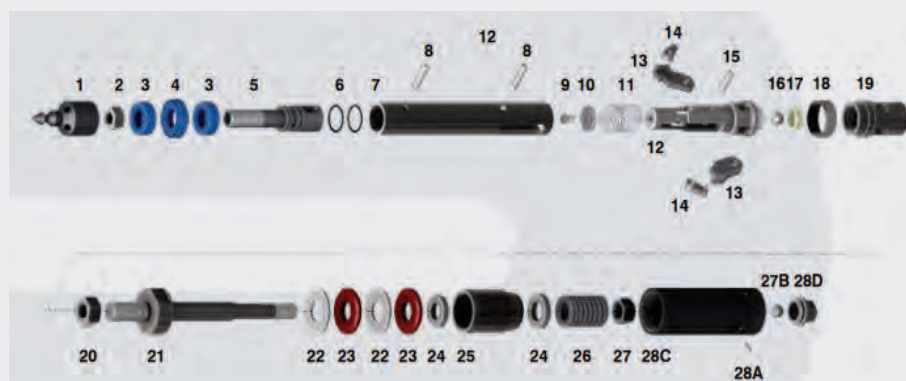
WG SINGLE TUBE CORE BARREL			BWG	BWG CORE DIAMETER	BWG HOLE DIAMETER	NWG	NWG CORE DIAMETER	NWG HOLE DIAMETER
ITEM	ITEM DESCRIPTION	PART				PART		
1	HEAD	AD-BWM-011				AD-NWM-011		
2	INNER TUBE 3M	AD-BWM-063				AD-NWM-063		
	INNER TUBE 1.5M	AD-BWM-065				AD-NWM-065		
3	CORE LIFTER	AD-BWM-013				AD-NWM-013		
4	CORE LIFTER CASE	AD-BWM-014				AD-NWM-014		
5	OUTER TUBE 3M	AD-BWM-030		42mm	60mm	AD-NWM-030	54.7mm	75.6mm
	OUTER TUBE 1.5M	AD-BWM-015				AD-NWM-015		
6	REAMING SHELL TC*	AD-BWM-016				AD-NWM-016		
7	CORE BARREL 3M	AD-BWM-017				AD-NWM-017		
	CORE BARREL 1.5M	AD-BWM-018				AD-NWM-018		

BWL INNER TUBE ASSEMBLY



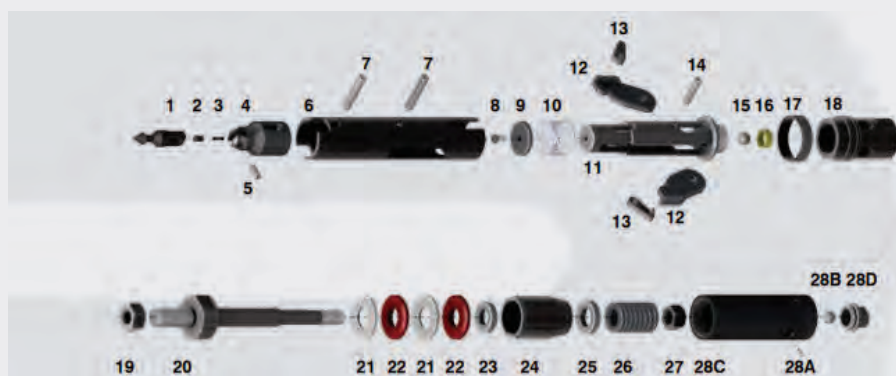
ITEM	PART NUMBER	DESCRIPTION	QTY
1	AD-24913	WL SPEARHEAD POINT	11
2	AD-24914	WL DETENT PLUNGER	1
3	AD-51141	WL COMPRESSION SPRING	1
4	AD-5344135	BWL SPEARHEAD BASE	1
5	AD-24905	WL SPRING PIN	1
6	AD-5341647	BWL LATCH RETRACTING CASE	1
7	AD-32941	BWL SPRING PIN	2
8	AD-5341932	WL BOLT	1
9	AD-036427	BWL WASHER	1
10	AD-5343180	BWL LATCH COMPRESSION SPRING	1
11	AD-5341621	BWL UPPER LATCH BODY	1
12	AD-036417	BWL LATCH	2
13	AD-036418	BWL LINK	2
14	AD-32944	BWL SPRING PIN	1
15	AD-26374	WL STEEL BALL	1
16	AD-26380	WL LANDING INDICATOR BUSHING	1
17	AD-036421	BWL LANDING SHOULDER	1
18	AD-036578	BWL LOWER LATCH BODY	1
19	AD-44601	BWL HEX NUT	1
20	AD-42331	BWL SPINDLE	1
21	AD-42335	BWL VALVE ADJUSTING WASHER	2
22	AD-44208	BWL SHUT OFF VALVE, HARD	2
23	AD-42030	BWL THRUST/HANGER BEARING	2
24	AD-42336	BWL SPINDLE BUSHING	1
25	AD-42031	BWL COMPRESSION SPRING	1
26	AD-013144	BWL NYLOC NUT	1
27	AD-04655	BWL INNER TUBE CAP ASSEMBLY	
27A	AD-71447	GREASE FITTING	1
27B	AD-42943	STEEL BALL	1
27C	AD-04676	BWL INNER TUBE CAP	1
27D	AD-04656	BWL CHECK VALVE BODY	1

BWLU INNER TUBE ASSEMBLY

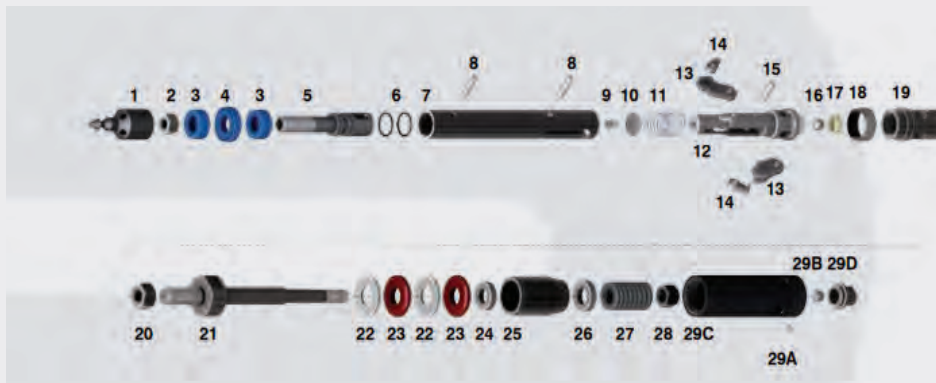


ITEM	PART NUMBER	DESCRIPTION	QTY
1	AD-534431	BWLU SPEARHEAD POINT	1
2	AD-44691	BWLU HEX NUT	1
3	AD-46603	BWLU PUMP-IN SEAL WASHER	2
4	AD-46683	BWLU PUMP-IN SEAL	1
5	AD-534432	BWLU SPAREHEAD BASE	1
6	AD-44619	BWLU O-RING	2
7	AD-5347671	BWLU LATCH RETRACTING CASE	1
8	AD-32941	BWL SPRING PIN	2
9	AD-5341933	BWLU BOLT	1
10	AD-0364271	BWLU WASHER	1
11	AD-5341836	BWLU LATCH COMPRESSION SPRING	1
12	AD-5341622	BWLU UPPER LATCH BODY	1
13	AD-0364171	BWLU LATCH	2
14	AD-0364181	BWLU LINK	2
15	AD-329441	BWLU SPRING PIN	1
16	AD-263741	BWLU STEEL BALL	1
17	AD-5343905	BWLU LANDING INDICATOR BUSHING	1
18	AD-0364211	BWLU LANDING SHOULDER	1
19	AD-0365781	BWLU LOWER LATCH BODY	1
20	AD-44601	BWL HEX NUT	1
21	AD-42331	BWL SPINDLE	1
22	AD-42335	BWL VALVE ADJUSTING WASHER	2
23	AD-44208	BWL SHUT OFF VALVE, HARD	2
24	AD-42030	BWL THRUST/HANGER BEARING	1
25	AD-42336	BWL SPINDLE BUSHING	1
26	AD-42031	BWL COMPRESSION SPRING	1
27	AD-013144	BWL NYLOC NUT	1
28	AD-04655	BWL INNER TUBE CAP ASSEMBLY	
28A	AD-71447	GREASE FITTING	1
28B	AD-42943	STEEL BALL	1
28C	AD-04676	BWL INNER TUBE CAP	1
28D	AD-04656	BWL CHECK VALVE BODY	1

BWLU INNER TUBE ASSEMBLY

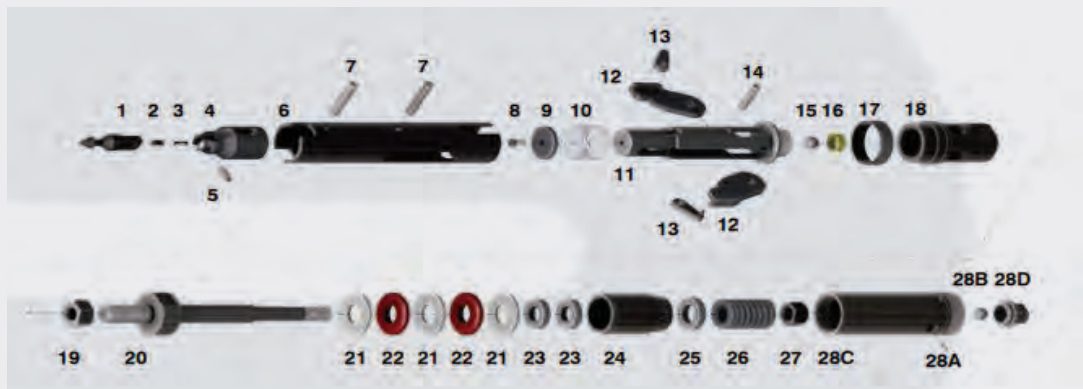


ITEM	PART NUMBER	DESCRIPTION	QTY
1	AD-24913	WL SPEARHEAD POINT	1
2	AD-24914	WL DETENT PLUNGER	1
3	AD-51141	WL COMPRESSION SPRING	1
4	AD-5340329	NWL SPEARHEAD BASE	1
5	AD-24905	WL SPRING PIN	1
6	AD-036455	NWL LATCH RETRACTING CASE	1
7	AD-42305	NWL SPRING PIN	2
8	AD-5341932	WL BOLT	1
9	AD-036022	NWL WASHER	1
10	AD-5343812	NWL LATCH COMPRESSION SPRING	1
11	AD5341778	NWL UPPER LATCH BODY	1
12	AD-014816	NWL LATCH	2
13	AD-036454	NWL LINK	2
14	AD-42548	NWL SPRING PIN	1
15	AD-26374	WL STEEL BALL	1
16	AD-26380	WL LANDING INDICATOR BUSHING	1
17	AD-036009	NWL LANDING SHOULDER	1
18	AD-036008	NWL LOWER LATCH BODY	1
19	AD-24885	NWL HEX NUT	1
20	AD-42886	NWL SPINDLE	1
21	AD-42888	NWL VALVE ADJUSTING WASHER	2
22	AD-44209	NWL SHUT OFF VALVE, HARD	2
23	AD-81298	NWL HANGER BEARING	1
24	AD-42889	NWL SPINDLE BUSHING	1
25	AD-42312	NWL THRUST BEARING	1
26	AD-42313	NWL COMPRESSION SPRING	1
27	AD-22918	NWL NYLOC NUT	1
28	AD-04664	NWL INNER TUBE CAP ASSEMBLY	
28A	AD-71447	GREASE FITTING	1
28B	AD-42943	STEEL BALL	1
28C	AD-04677	NWL INNER TUBE CAP	1
28D	AD-73382	NWL CHECK VALVE BODY	1



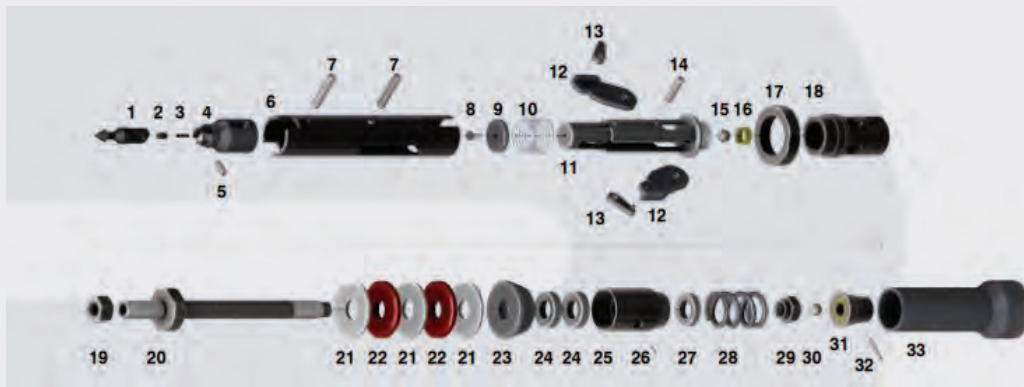
NWLU INNER TUBE ASSEMBLY

ITEM	PART NUMBER	DESCRIPTION	QTY
1	AD-534433	NWLU SPEARHEAD POINT	1
2	AD-42895	NWLU HEX NUT	1
3	AD-46392	NWLU PUMP-IN SEAL WASHER	2
4	AD-46302	NWLU PUMP-IN SEAL	1
5	AD-534434	NWLU SPAREHEAD BASE	1
6	AD-42985	NWLU O-RING	2
7	AD-0364551	NWLU LATCH RETRACTING CASE	1
8	AD-42305	NWL SPRING PIN	2
9	AD-5341932	NWL BOLT	1
10	AD-036022	NWL WASHER	1
11	AD-5343136	NWL LATCH COMPRESSION SPRING	1
12	AD-5341778	NWL UPPER LATCH BODY	1
13	AD-014816	NWL LATCH	2
14	AD-014817	NWL LINK	2
15	AD-42307	NWL SPRING PIN	1
16	AD-263741	NWLU STEEL BALL	1
17	AD-5343906	NWLU LANDING INDICATOR BUSHING	1
18	AD-033009	NWL LANDING SHOULDER	1
19	BR-036008	NWL LOWER LATCH BODY	1
20	AD-42885	NWL HEX NUT	1
21	AD-42886	NWL SPINDLE	1
22	AD-42888	NWL VALVE ADJUSTING WASHER	2
23	AD-44209	NWL SHUT OFF VALVE, HARD	2
24	AD-81298	NWL HANGER BEARING	1
25	AD-42889	NWL SPINDLE BUSHING	1
26	AD-42312	NWL THRUST BEARING	1
27	AD-42313	NWL COMPRESSION SPRING	1
28	AD-22918	NWL NYLOC NUT	1
29	AD-04664	NWL INNER TUBE CAP ASSEMBLY	
29A	AD-71447	GREASE FITTING	1
29B	AD-26374	STEEL BALL	1
29C	AD-04677	NWL INNER TUBE CAP	1
29D	AD-73382	NWL CHECK VALVE BODY	1



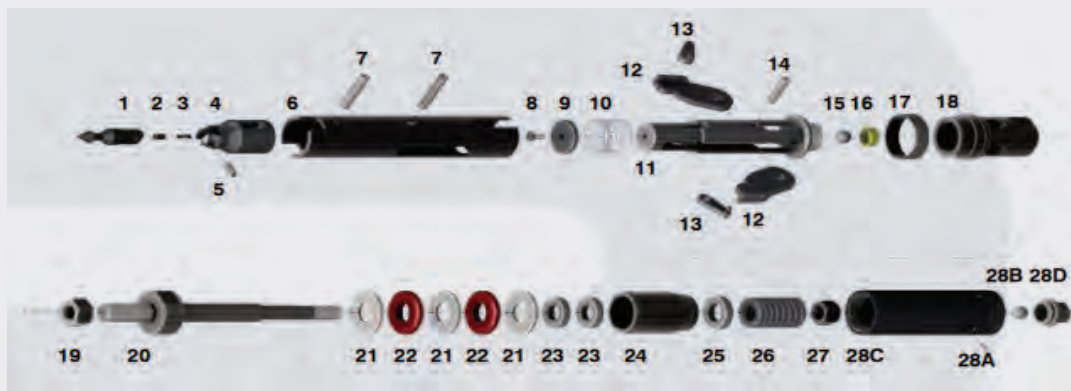
NWLTK/NWL2" INNER TUBE ASSEMBLY

ITEM	PART NUMBER	DESCRIPTION	QTY
1	AD-24913	WL SPEARHEAD POINT	1
2	AD-24914	WL DETENT PLUNGER	1
3	AD-51141	WL COMPRESSION SPRING	1
4	AD-5344136	NWL SPEARHEAD BASE	1
5	AD-24905	WL SPRING PIN	1
6	AD-036455	NWL LATCH RETRACTING CASE	1
7	AD-42305	NWL SPRING PIN	2
8	AD-5341932	WL BOLT	1
9	AD-036022	NWL WASHER	1
10	AD-5343812	NWL LATCH COMPRESSION SPRING	1
11	AD-5341778	NWL UPPER LATCH BODY	1
12	AD-014816	NWL LATCH	2
13	AD-036454	NWL LINK	2
14	AD-42548	NWL SPRING PIN	1
15	AD-26374	WL STEEL BALL	1
16	AD-26380	WL LANDING INDICATOR BUSHING	1
17	AD-036026	NWL LANDING SHOULDER	1
18	AD-036008	NWL LOWER LATCH BODY	1
19	AD-24885	NWL HEX NUT	1
20	AD-42886	NWL SPINDLE	1
21	AD-42888	NWL VALVE ADJUSTING WASHER	2
22	AD-44209	NWL SHUT OFF VALVE, HARD	2
23	AD-81298	NWL HANGER BEARING	1
24	AD-42889	NWL SPINDLE BUSHING	1
25	AD-42312	NWL THRUST BEARING	1
26	AD-42313	NWL COMPRESSION SPRING	1
27	AD-22918	NWL NYLOC NUT	1
28	AD-43604	NWLTK INNER TUBE CAP ASSEMBLY	
28A	AD-71447	GREASE FITTING	1
28B	AD-26374	STEEL BALL	1
28C	AD-34602	NWLTK INNER TUBE CAP	1
28D	AD-73382	NWL CHECK VALVE BODY	1



PWL INNER TUBE ASSEMBLY

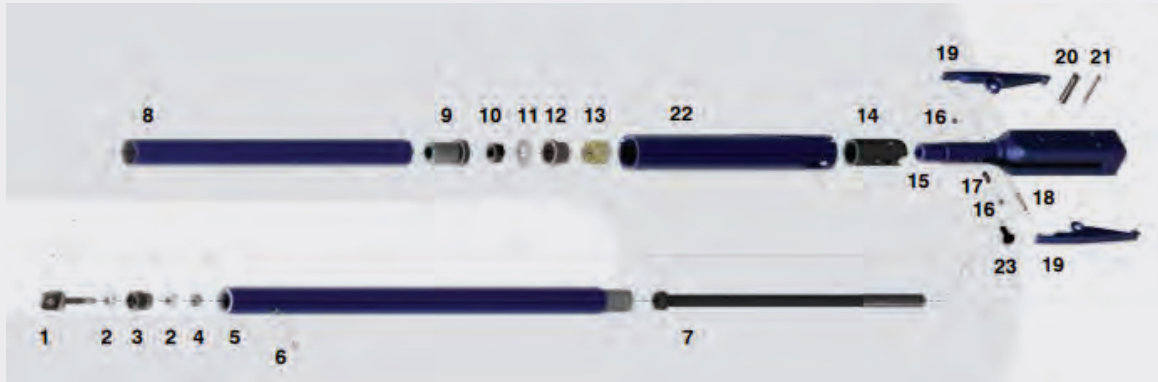
ITEM	PART NUMBER	DESCRIPTION	QTY
1	AD-24913	WL SPEARHEAD POINT	1
2	AD-24914	WL DETENT PLUNGER	1
3	AD-51141	WL COMPRESSION SPRING	1
4	AD-5340330	HWL SPEARHEAD BASE	1
5	AD-24905	WL SPRING PIN	1
6	AD-5340151	HWL LATCH RETRACTING CASE	1
7	AD-42524	HWL SPRING PIN	2
8	AD-5341932	WL BOLT	1
9	AD-014953	HWL WASHER	1
10	AD-5343619	HWL LATCH COMPRESSION SPRING	1
11	AD-5340156	HWL UPPER LATCH BODY	1
12	AD-014818	HWL LATCH	2
13	AD-036216	HWL LINK	2
14	AD-42305	HWL SPRING PIN	1
15	AD-26374	WL STEEL BALL	1
16	AD-26380	WL LANDING INDICATOR BUSHING	1
17	AD-5343797	PWL LANDING SHOULDER	1
18	AD-5348072	HWL LOWER LATCH BODY	1
19	AD-73475	HWL HEX NUT	1
20	AD-5348073	PWL SPINDLE	1
21	AD-5345206	PWL VALVE ADJUSTING WASHER	3
22	AD-5340308	PWL SHUT OFF VALVE, HARD	2
23	AD-5340299	PWL TAPERED SHUT OFF WASHER	1
24	AD-4252901	PWL HANGER BEARING	2
25	AD-5340794	PWL SPINDLE BUSHING	1
26	AD-71447	GREASE FITTING	1
27	AD-42528	PWL THRUST BEARING	1
28	AD-5340755	PWL COMPRESSION SPRING	1
29	AD-013062	PWL NYLOC NUT	1
30	AD-42943	STEEL BALL	1
31	AD-5340745	PWL CHECK VALE BODY	1
32	AD-010865	PWL SPRING PIN	1
33	AD-5343804	PWL INNER TUBE CAP	1



HWL INNER TUBE ASSEMBLY

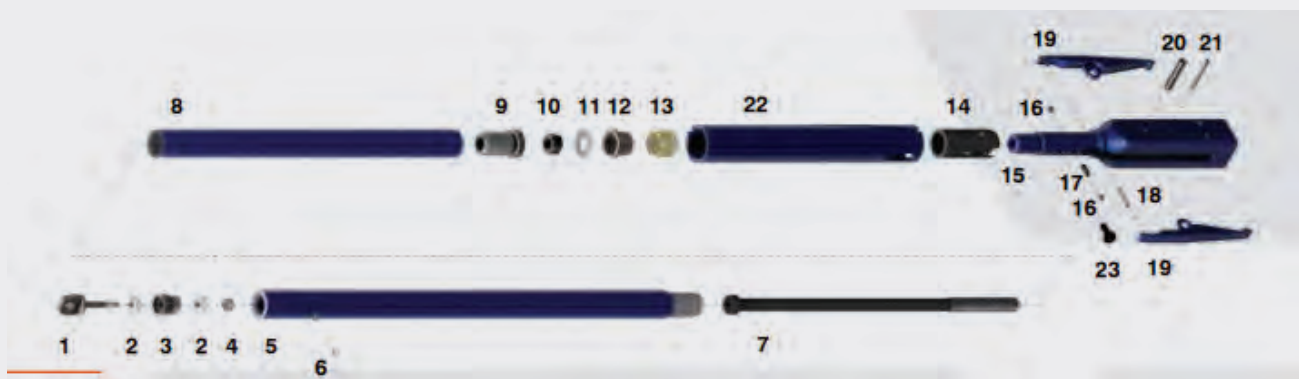
ITEM	PART NUMBER	DESCRIPTION	QTY
1	AD-24913	WL SPEARHEAD POINT	1
2	AD-24914	WL DETENT PLUNGER	1
3	AD-51141	WL COMPRESSION SPRING	1
4	AD-5340330	HWL SPEARHEAD BASE	1
5	AD-24905	WL SPRING PIN	1
6	AD-5340151	HWL LATCH RETRACTING CASE	1
7	AD-42524	HWL SPRING PIN	2
8	AD-5341932	WL BOLT	1
9	AD-014953	HWL WASHER	1
10	AD-5343619	HWL LATCH COMPRESSION SPRING	1
11	AD-R-5340156	HWL UPPER LATCH BODY	1
12	AD-014818	HWL LATCH	2
13	AD-036216	HWL LINK	2
14	AD-42305	HWL SPRING PIN	1
15	AD-26374	WL STEEL BALL	1
16	AD-26380	WL LANDING INDICATOR BUSHING	1
17	AD-014958	HWL LANDING SHOULDER	1
18	AD-014957	HWL LOWER LATCH BODY	1
19	AD-44574	HWL HEX NUT	1
20	AD-25231	HWL SPINDLE	1
21	AD-52233	HWL VALVE ADJUSTING WASHER	3
22	AD-34513	HWL SHUT OFF VALVE, HARD	2
23	AD-42312	HWL HANGER BEARING	2
24	AD-52234	HWL SPINDLE BUSHING	1
25	AD-42528	HWL THRUST BEARING	1
26	AD-42529	HWL COMPRESSION SPRING	1
27	AD-013465	HWL NYLOC NUT	1
28	AD-04678	HWL INNER TUBE CAP ASSEMBLY	
28A	AD-71447	GREASE FITTING	1
28B	AD-26374	STEEL BALL	1
28C	AD-04401	HWL INNER TUBE CAP	1
28D	D-73382	HWL CHECK VALVE BODY	1

OVERSHOT SURFACE



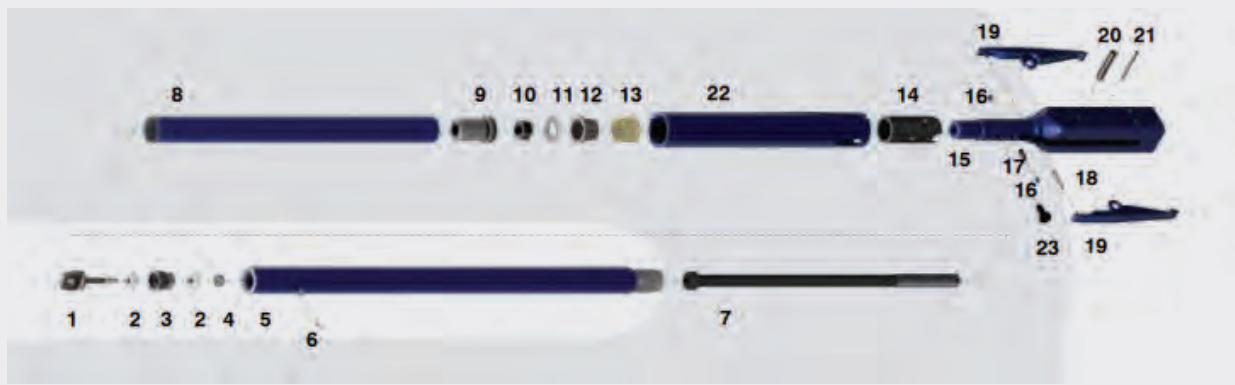
BWL / BWLTK E-ZY LOCK OVERSHOT

ITEM	PART NUMBER	DESCRIPTION	QTY
1	AD-52991	BOLT CABLE SWIVEL EYE	1
2	AD-52986	THRUST BEARING	2
3	AD-52990	CABLE SWIVEL COLLAR	1
4	AD-52985	NYLOC NUT	1
5	AD-44434	BWL CABLE SWIVEL BODY	1
6	AD-71447	BWL GREASE FITTING	1
7	AD-5346821	BWL JAR STAFF	1
8	AD-44435	BWL JAR TUBE	1
9	AD-5346820	BWL JAR STAFF SEAT	1
10	AD-26904	BWL HEX NUT	1
11	AD-5348184	BWL WASHER	1
12	AD-5346823	BWL CAP, E-ZY LOCK	1
13	AD-5344104	BWL SPRING, E-ZY LOCK	1
14	AD-5346883	BWL SLEEVE, E-ZY LOCK	1
15	AD-5346825	BWL OVERSHOT HEAD, E-ZY LOCK	1
16	AD-5343772	BWL STEEL BALL	2
17	AD-5345053	BWL COMPRESSION SPRING	1
18	AD-9651	BWL LIFTING DOG COMPRESSION SPRING	1
19	AD-9650	BWL LIFTING DOG	2
20	AD-24941	BWL LIFTING DOG SPRING PIN	1
21	AD-92073	BWL SPRING PIN	1
22	AD-51575	BWL LOCKING SLEEVE	1
23	AD-5345073	BWL BOLT, LOCKING SLEEVE	1



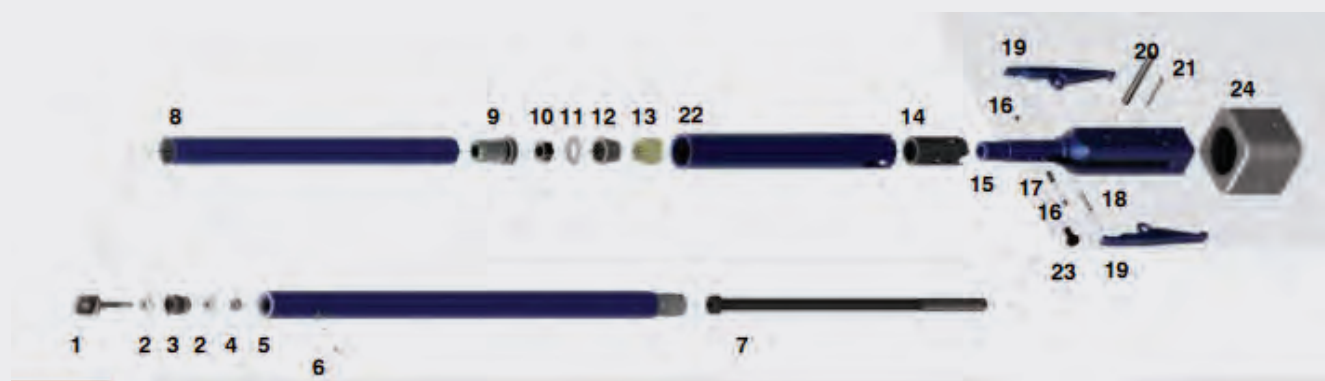
NWL /NWLTK / NWL3 E-ZY LOCK OVERSHOT

ITEM	PART NUMBER	DESCRIPTION	QTY
1	AD-52991	BOLT CABLE SWIVEL EYE	1
2	AD-52986	THRUST BEARING	2
3	AD-52990	CABLE SWIVEL COLLAR	1
4	AD-52985	NYLOC NUT	1
5	AD-44444	WL CABLE SWIVEL BODY	1
6	AD-71447	WL GREASE FITTING	1
7	AD-5340516	WL JAR STAFF	1
8	AD-5340515	WL JAR TUBE	1
9	AD-5340514	WL JAR STAFF SEAT	1
10	AD-44524	WL HEX NUT	1
11	AD-5348178	WL WASHER	1
12	AD-5344103	WL CAP, E-ZY LOCK	1
13	AD-5344105	WL SPRING, E-ZY LOCK	1
14	AD-5346745	WL SLEEVE, E-ZY LOCK	1
15	AD-5346746	NWL OVERSHOT HEAD, E-ZY LOCK	1
16	AD-5343772	WL STEEL BALL	2
17	AD-9651	WL COMPRESSION SPRING	1
18	AD-5342027	WL LIFTING DOG COMPRESSION SPRING	1
19	AD-5340529	WL LIFTING DOG	2
20	AD-42906	NWL LIFTING DOG SPRING PIN	1
21	AD-73394	NWL SPRING PIN	1
22	AD-51965	WL LOCKING SLEEVE	1
23	AD-5345073	WL BOLT, LOCKING SLEEVE	1



NWL /NWLTK / NWL3 E-ZY LOCK OVERSHOT

ITEM	PART NUMBER	DESCRIPTION	QTY
1	AD-52991	BOLT CABLE SWIVEL EYE	1
2	AD-52986	THRUST BEARING	2
3	AD-52990	CABLE SWIVEL COLLAR	1
4	AD-52985	NYLOC NUT	1
5	AD-44444	WL CABLE SWIVEL BODY	1
6	AD-71447	WL GREASE FITTING	1
7	AD-5340516	WL JAR STAFF	1
8	AD-5340515	WL JAR TUBE	1
9	AD-5340514	WL JAR STAFF SEAT	1
10	AD-44524	WL HEX NUT	1
11	AD-5348178	WL WASHER	1
12	AD-5344103	WL CAP, E-ZY LOCK	1
13	AD-5344105	WL SPRING, E-ZY LOCK	1
14	AD-5346745	WL SLEEVE, E-ZY LOCK	1
15	AD-5346748	HWL OVERSHOT HEAD, E-ZY LOCK	1
16	AD-5343772	WL STEEL BALL	2
17	AD-9651	WL COMPRESSION SPRING	1
18	AD-5342027	WL LIFTING DOG COMPRESSION SPRING	1
19	AD-5340529	WL LIFTING DOG	2
20	AD-5340527	HWL LIFTING DOG SPRING PIN	1
21	AD-42307	HWL SPRING PIN	1
22	AD-51965	WL LOCKING SLEEVE	1
23	AD-5345073	WL BOLT, LOCKING SLEEVE	1



PWL / PWL3 E-ZY LOCK OVERSHOT

ITEM	PART NUMBER	DESCRIPTION	QTY
1	AD-52991	BOLT CABLE SWIVEL EYE	1
2	AD-52986	THRUST BEARING	2
3	AD-52990	CABLE SWIVEL COLLAR	1
4	AD-52985	NYLOC NUT	1
5	AD-44444	WL CABLE SWIVEL BODY	1
6	AD-71447	WL GREASE FITTING	1
7	AD-5340516	WL JAR STAFF	1
8	AD-5340515	WL JAR TUBE	1
9	AD-5340514	WL JAR STAFF SEAT	1
10	AD-44524	WL HEX NUT	1
11	AD-5348178	WL WASHER	1
12	AD-5344103	WL CAP, E-ZY LOCK	1
13	AD-5344105	WL SPRING, E-ZY LOCK	1
14	AD-5346745	WL SLEEVE, E-ZY LOCK	1
15	AD-5346746	NWL OVERSHOT HEAD, E-ZY LOCK	1
16	AD-5343772	WL STEEL BALL	2
17	AD-9651	WL COMPRESSION SPRING	1
18	AD-5342027	WL LIFTING DOG COMPRESSION SPRING	1
19	AD-5340529	WL LIFTING DOG	2
20	AD-5340528	PWL LIFTING DOG SPRING PIN	1
21	AD-423071	PWL SPRING PIN	1
22	AD-51965	WL LOCKING SLEEVE	1
23	AD-5345073	WL BOLT, LOCKING SLEEVE	1
24	AD-5341072	PWL LOCKING SLEEVE RING	1

OVERSHOT SURFACE



BWLU OVERSHOT

ITEM	PART NUMBER	DESCRIPTION	QTY
1	AD-52991	BOLT CABLE SWIVEL EYE	1
2	AD-52986	THRUST BEARING	2
3	AD-52990	CABLE SWIVEL COLLAR	1
4	AD-52985	NYLOC NUT	1
5	AD-4443501	WLU CABLE SWIVEL BODY	1
6	AD-4668301	BWLU THUMB NUT	1
7	AD-4668302	BWLU WASHER	1
8	AD-46683	BWLU SEAL	1
9	AD-5346896	WLU JAR STAFF	1
10	AD-4443502	WLU JAR TUBE	1
11	AD-5346895	BWLU OVERSHOT HEAD	1
12	AD-5345053	WLU CONNECTION SPRING PIN	1
13	AD-9650	BWL LIFTING DOG	2
14	AD-9651	BWL LIFTING DOG COMPRESSION SPRING	1
15	AD-42906	WLU LIFTING DOG SPRING PIN	1
16	AD-73394	WLU SPRING PIN	1



NWLU OVERSHOT

ITEM	PART NUMBER	DESCRIPTION	QTY
1	AD-52991	BOLT CABLE SWIVEL EYE	1
2	AD-52986	THRUST BEARING	2
3	AD-52990	CABLE SWIVEL COLLAR	1
4	AD-52985	NYLOC NUT	1
5	AD-4443501	WLU CABLE SWIVEL BODY	1
6	AD-4630201	NWLU THUMB NUT	1
7	AD-4630202	NWLU WASHER	1
8	AD-46302	NWLU SEAL	1
9	AD-5346896	WLU JAR STAFF	1
10	AD-4443502	WLU JAR TUBE	1
11	AD-5346897	NWLU OVERSHOT HEAD	1
12	AD-5345053	WLU CONNECTION SPRING PIN	1
13	AD-5340529	WL LIFTING DOG	2
14	AD-5342027	WL LIFTING DOG COMPRESSION SPRING	1
15	AD-42906	WLU LIFTING DOG SPRING PIN	1
16	AD-73394	WLU SPRING PIN	1



HWLU OVERSHOT

ITEM	PART NUMBER	DESCRIPTION	QTY
1	AD-52991	BOLT CABLE SWIVEL EYE	1
2	AD-52986	THRUST BEARING	2
3	AD-52990	CABLE SWIVEL COLLAR	1
4	AD-52985	NYLOC NUT	1
5	AD-4443501	WLU CABLE SWIVEL BODY	1
6	AD-4668501	HWLU THUMB NUT	1
7	AD-4668502	HWLU WASHER	1
8	AD-46685	HWLU SEAL	1
9	AD-5346896	WLU JAR STAFF	1
10	AD-4443502	WLU JAR TUBE	1
11	AD-5346899	HWLU OVERSHOT HEAD	1
12	AD-5345053	WLU CONNECTION SPRING PIN	1
13	AD-5340529	WL LIFTING DOG	2
14	AD-5342027	WL LIFTING DOG COMPRESSION SPRING	1
15	AD-42906	WLU LIFTING DOG SPRING PIN	1
16	AD-73394	WLU SPRING PIN	1

Over Shot Spare Kit



BWL / BWLTK OVERSHOT SPARE KIT

ITEM	PART NUMBER	DESCRIPTION	QTY
1	AD-52986	THRUST BEARING	1
2	AD-52985	NYLOC NUT	1
3	AD-71447	BWL GREASE FITTING	1
4	AD-26904	BWL HEX NUT	1
5	AD-5343772	BWL STEEL BALL	2
6	AD-5345053	BWL COMPRESSION SPRING	2
7	AD-9651	BWL LIFTING DOG COMPRESSION SPRING	1
8	AD-9650	BWL LIFTING DOG	2
9	AD-24941	BWL LIFTING DOG SPRING PIN	1
10	AD-92073	BWL SPRING PIN	1
11	AD-5345073	BWL BOLT, LOCKING SLEEVE	1



NWL / NWLTK / NWL3 OVERSHOT SPARE KIT

ITEM	PART NUMBER	DESCRIPTION	QTY
1	AD-52986	THRUST BEARING	1
2	AD-52985	NYLOC NUT	1
3	AD-71447	WL GREASE FITTING	1
4	AD-44524	WL HEX NUT	1
5	AD-5343772	WL STEEL BALL	2
6	AD-9651	WL COMPRESSION SPRING	2
7	AD-5342027	WL LIFTING DOG COMPRESSION SPRING	1
8	AD-5340529	WL LIFTING DOG	2
9	AD-42906	NWL LIFTING DOG SPRING PIN	1
10	AD-73394	NWL SPRING PIN	1
11	AD-5345073	WL BOLT, LOCKING SLEEVE	1



HWL / HWL3 / PWL / PWL3 OVERSHOT SPARE KIT

ITEM	PART NUMBER	DESCRIPTION	QTY
1	AD-52986	THRUST BEARING	1
2	AD-52985	NYLOC NUT	1
3	AD-71447	WL GREASE FITTING	1
4	AD-44524	WL HEX NUT	1
5	AD-5343772	WL STEEL BALL	2
6	AD-9651	WL COMPRESSION SPRING	2
7	AD-5342027	WL LIFTING DOG COMPRESSION SPRING	1
8	AD-5340529	WL LIFTING DOG	2
9	AD-5340527	HWL LIFTING DOG SPRING PIN	1
	AD-5340528	PWL LIFTING DOG SPRING PIN	1
10	AD-42307	HWL SPRING PIN	1
	AD-423071	PWL SPRING PIN	1
11	AD-5345073	WL BOLT, LOCKING SLEEVE	1



BWLU OVERSHOT SPARES KIT

ITEM	PART NUMBER	DESCRIPTION	QTY
1	AD-52986	THRUST BEARING	1
2	AD-52985	NYLOC NUT	1
3	AD-4668302	BWLU WASHER	1
4	AD-46683	BWLU SEAL	1
5	AD-5345053	WLU CONNECTION SPRING PIN	1
6	AD-9651	BWL LIFTING DOG COMPRESSION SPRING	1
7	AD-9650	BWL LIFTING DOG	2
8	AD-42906	WLU LIFTING DOG SPRING PIN	1
9	AD-73394	WLU SPRING PIN	1



NWLU OVERSHOT SPARE KIT

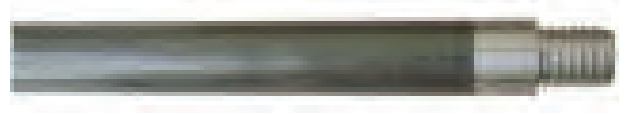
ITEM	PART NUMBER	DESCRIPTION	QTY
1	AD-52986	THRUST BEARING	1
2	AD-52985	NYLOC NUT	1
3	AD-4630202	NWLU WASHER	1
4	ADR-46302	NWLU SEAL	1
5	AD-5345053	WLU CONNECTION SPRING PIN	1
6	AD-5342027	WL LIFTING DOG COMPRESSION SPRING	1
7	AD-5340529	WL LIFTING DOG	2
8	AD-42906	WLU LIFTING DOG SPRING PIN	1
9	AD-73394	WLU SPRING PIN	1



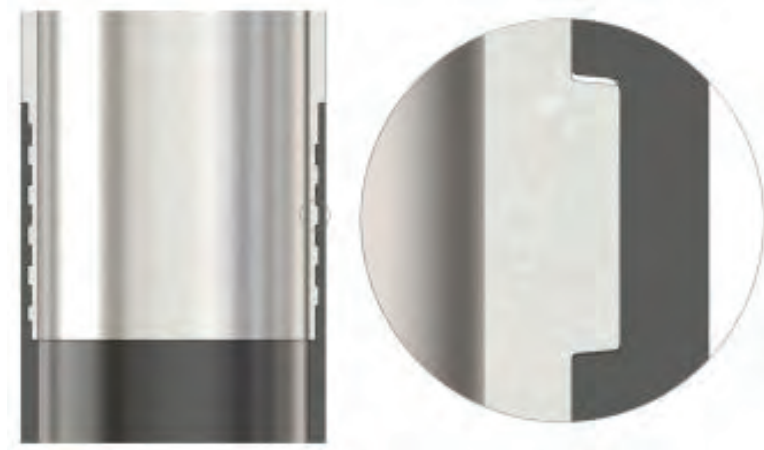
HWLU OVERSHOT SPARE KIT

ITEM	PART NUMBER	DESCRIPTION	QTY
1	AD-52986	THRUST BEARING	1
2	AD-52985	NYLOC NUT	1
3	AD-4668502	HWLU WASHER	1
4	AD-46685	HWLU SEAL	1
5	AD-5345053	WLU CONNECTION SPRING PIN	1
6	AD-5342027	WL LIFTING DOG COMPRESSION SPRING	1
7	AD-5340529	WL LIFTING DOG	2
8	AD-42906	WLU LIFTING DOG SPRING PIN	1
9	AD-73394	WLU SPRING PIN	1

Drill Rod and Casings



BWL DRILL ROD SPECIFICATIONS						
ITEM #	DESCRIPTION	WEIGHT (kg)	OD (mm)	ID (mm)	PITCH (TPI)	PIN LENGTH (mm)
BR-5348206	DRILL ROD 1.5M	9.7	55.6	46.1	3	44.4
BR-5348208	DRILL ROD 3.0M	19.4	55.6	46.1	3	44.4
BWL BUNDLE SPECIFICATIONS						
ROD TYPE	CONTENT (pcs)	WEIGHT (kg)	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	VOLUME (m3)
BWL 1.5M	40	392	1600	480	420	0.32
BWL 3.0M	40	781	3150	480	420	0.64
NWL DRILL ROD SPECIFICATIONS						
ITEM #	DESCRIPTION	WEIGHT (kg)	OD (mm)	ID (mm)	PITCH (TPI)	PIN LENGTH (mm)
BR-5348210	DRILL ROD 1.5M	11.9	69.9	60.3	3	44.4
BR-5348212	DRILL ROD 3.0M	23.8	69.9	60.3	3	44.4
NWL BUNDLE SPECIFICATIONS						
ROD TYPE	CONTENT (pcs)	WEIGHT (kg)	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	VOLUME (m3)
NWL 1.5M	19	230	1600	380	330	0.2
NWL 3.0M	19	457	3150	380	330	0.4
HWL DRILL ROD SPECIFICATIONS						
ITEM #	DESCRIPTION	WEIGHT (kg)	OD (mm)	ID (mm)	PITCH (TPI)	PIN LENGTH (mm)
BR-5348214	DRILL ROD 1.5M	17.5	89.9	77.8	3	44.4
BR-5348216	DRILL ROD 3.0M	34.9	89.9	77.8	3	44.4
HWL BUNDLE SPECIFICATIONS						
ROD TYPE	CONTENT (pcs)	WEIGHT (kg)	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	VOLUME (m3)
HWL 1.5M	19	337	1600	480	420	0.32
HWL 3.0M	19	668	3150	480	420	0.64
PWL / HWT DRILL ROD SPECIFICATIONS						
ITEM #	DESCRIPTION	WEIGHT (kg)	OD (mm)	ID (mm)	PITCH (TPI)	PIN LENGTH (mm)
BR-5341743	DRILL ROD 1.5M	26.3	114.3	101.6	2.5	63
BR-5342314	DRILL ROD 3.0M	52.4	114.3	101.6	2.5	63
PWL / HWT BUNDLE SPECIFICATIONS						
ROD TYPE	CONTENT (pcs)	WEIGHT (kg)	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	VOLUME (m3)
HWL 1.5M	7	188	1650	360	340	0.2
HWL 3.0M	7	372	3150	360	340	0.39
AW DRILL ROD SPECIFICATIONS						
ITEM #	DESCRIPTION	WEIGHT (kg)	OD (mm)	ID (mm)	PITCH (TPI)	PIN LENGTH (mm)
AD-AW15-00	AW 1.5m	9.6	44	30.9	3	49
AD-AW30-00	AW 3.0m	18.4	44	30.9	3	49
BW DRILL ROD SPECIFICATIONS						
ITEM #	DESCRIPTION	WEIGHT (kg)	OD (mm)	ID (mm)	PITCH (TPI)	PIN LENGTH (mm)
AD-BW15-00	BW 1.5m	15.8	54	39	3	59
AD-BW30-00	BW 3.0m	28.7	54	39	3	59
NW DRILL ROD SPECIFICATIONS						
ITEM #	DESCRIPTION	WEIGHT (kg)	OD (mm)	ID (mm)	PITCH (TPI)	PIN LENGTH (mm)
AD-NW15-00	NW 1.5m	13.2	66.7	57	3	59
AD-NW30-00	NW 3.0m	26.3	66.7	57	3	59



CASINGS & BUNDLE SPECIFICATIONS

CASING SPECIFICATIONS

ITEM #	DESCRIPTION	WEIGHT (kg)	OD (mm)	ID (mm)	PITCH (TPI)	PIN LENGTH (mm)
AD-66531	AW CASING 1.5M	10.3	57.1	48.4	4	57.15
AD-66533	AW CASING 3.0M	18	57.1	48.4	4	57.15
AD-66537	BW CASING 1.5M	15.8	73	60.3	4	63.5
AD-66539	BW CASING 3.0M	31.3	73	60.3	4	63.5
AD-66543	NW CASING 1.5M	17.1	88.9	77.8	4	69.85
AD-66545	NW CASING 3.0M	33.9	88.9	77.8	4	69.85
AD-66549	HW CASING 1.5M	26	114.3	101.6	4	76.2
AD-66551	HW CASING 3.0M	51.7	114.3	101.6	4	76.2
AD-66730	PW CASING 1.5M	37.7	139.7	127	4	82.55
AD-66731	PW CASING 3.0M	75.1	139.7	127	4	82.55

CASING BUNDLE SPECIFICATIONS

ROD TYPE	CONTENT (pcs)	WEIGHT (kg)	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	VOLUME (m3)
AW 1.5M	40	416	1600	480	420	0.32
AW 3.0M	40	725	3100	480	420	0.62
BW 1.5M	19	304	1600	380	330	0.2
BW 3.0M	19	600	3100	380	330	0.39
NW 1.5M	19	329	1600	480	420	0.32
NW 3.0M	19	649	3150	480	420	0.64
HW 1.5M	7	186	1600	360	340	0.2
HW 3.0M	7	367	3150	360	340	0.39
PW 1.5M	7	268	1600	480	420	0.33
PW 3.0M	7	531	3150	480	420	0.64



BUPSET® - WJ DRILL RODS & BUNDLE SPECIFICATIONS

BUPSET DRILL ROD SPECIFICATIONS

ITEM #	DESCRIPTION	WEIGHT (kg)	OD (mm)	ID (mm)	Joint Diameter (mm)	PITCH (TPI)	PIN LENGTH (mm)
AD-04959	NWL 3,0M	20.6	69.9	62	60.3	3	44.4
AD-04960	HWL 3,0M	26.8	88.9	81	77.8	3	44.4
AD-04961	PWL / HWT 3,0M	39.7	114.3	104.5	101.6	2.5	63

BUPSET DRILL ROD BUNDLE SPECIFICATIONS

ROD TYPE	CONTENT (pcs)	WEIGHT (kg)	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	VOLUME (m3)
NWL 3.0M	19	396	3150	380	330	0.4
HWL 3.0M	19	514	3150	480	420	0.64
PWL / HWT 3.0M	7	283	3200	360	340	0.39

AWJ DRILL ROD SPECIFICATIONS

ITEM #	DESCRIPTION	WEIGHT (kg)	OD (mm)	ID (mm)	PITCH (TPI)	PIN LENGTH (mm)
AD-36468	AWJ 1.5M	7.8	44	32	3	44.45
AD-36467	AWJ 3.0M	15.3	44	32	3	44.45

BWJ DRILL ROD SPECIFICATIONS

ITEM #	DESCRIPTION	WEIGHT (kg)	OD (mm)	ID (mm)	PITCH (TPI)	PIN LENGTH (mm)
AD-5344731	BWJ 1.5M	10	54	44	5	50.8
AD-5344732	BWJ 3.0M	19.6	54	44	5	50.8

NWJ DRILL ROD SPECIFICATIONS

ITEM #	DESCRIPTION	WEIGHT (kg)	OD (mm)	ID (mm)	PITCH (TPI)	PIN LENGTH (mm)
AD-36738	NWJ 1.5M	12.5	67	57	4	63.5
AD-36739	NWJ 3.0M	23.8	67	57	4	63.5

Auxiliary Equipment

ADAPTORS OVERVIEW DRILL ROD ADAPTORS

PART NUMBER	DESCRIPTION	
AD-AN001	AW ROD PIN	NW ROD PIN
AD-AH001	AW ROD PIN	HW ROD PIN
AD-BN001	BW ROD PIN	NW ROD PIN
AD-BH001	BW ROD PIN	HW ROD PIN
AD-NH001	NW ROD PIN	HW ROD PIN
AD-AN002	AW ROD BOX	NW ROD BOX
AD-AH002	AW ROD BOX	HW ROD BOX
AD-BN002	BW ROD BOX	NW ROD BOX
AD-BH002	BW ROD BOX	HW ROD BOX
AD-NH002	NW ROD BOX	HW ROD BOX
AD-AB003	AW ROD BOX	BW ROD PIN
AD-AN003	AW ROD BOX	NW ROD PIN
AD-NH003	NW ROD BOX	HW ROD PIN
AD-BA004	BWL ROD PIN	AW ROD PIN
AD-BB004	BWL ROD PIN	BW ROD PIN
AD-BN004	BWL ROD PIN	NW ROD PIN
AD-NA004	NWL ROD PIN	AW ROD PIN
AD-NB004	NWL ROD PIN	BW ROD PIN
AD-NN004	NWL ROD PIN	NW ROD PIN
AD-HA004	HWL ROD PIN	AW ROD PIN
AD-HB004	HWL ROD PIN	BW ROD PIN
AD-HN004	HWL ROD PIN	NW ROD PIN
AD-BA005	BWL ROD PIN	AW ROD BOX
AD-BB005	BWL ROD PIN	BW ROD BOX
AD-BN005	BWL ROD PIN	NW ROD BOX
AD-NA005	NWL ROD PIN	AW ROD BOX
AD-NB005	NWL ROD PIN	BW ROD BOX
AD-NN005	NWL ROD PIN	NW ROD BOX
AD-HA005	HWL ROD PIN	AW ROD BOX
AD-HB005	HWL ROD PIN	BW ROD BOX
AD-HN005	HWL ROD PIN	NW ROD BOX
AD-AA006	AWL ROD BOX	AW ROD PIN
AD-AB006	AWL ROD BOX	BW ROD PIN
AD-AN006	AWL ROD BOX	NW ROD PIN
AD-BA006	BWL ROD BOX	AW ROD PIN
AD-BB006	BWL ROD BOX	BW ROD PIN
AD-NB006	BWL ROD BOX	NW ROD PIN
AD-NA006	NWL ROD BOX	AW ROD PIN
AD-NB006	NWL ROD BOX	BW ROD PIN
AD-NN007	NWL ROD BOX	NW ROD PIN
AD-NH007	NWL ROD BOX	HW ROD PIN
AD-HA007	HWL ROD BOX	AW ROD PIN
AD-HB007	HWL ROD BOX	BW ROD PIN
AD-HN007	HWL ROD BOX	NW ROD PIN
AD-HH007	HWL ROD BOX	HW ROD PIN



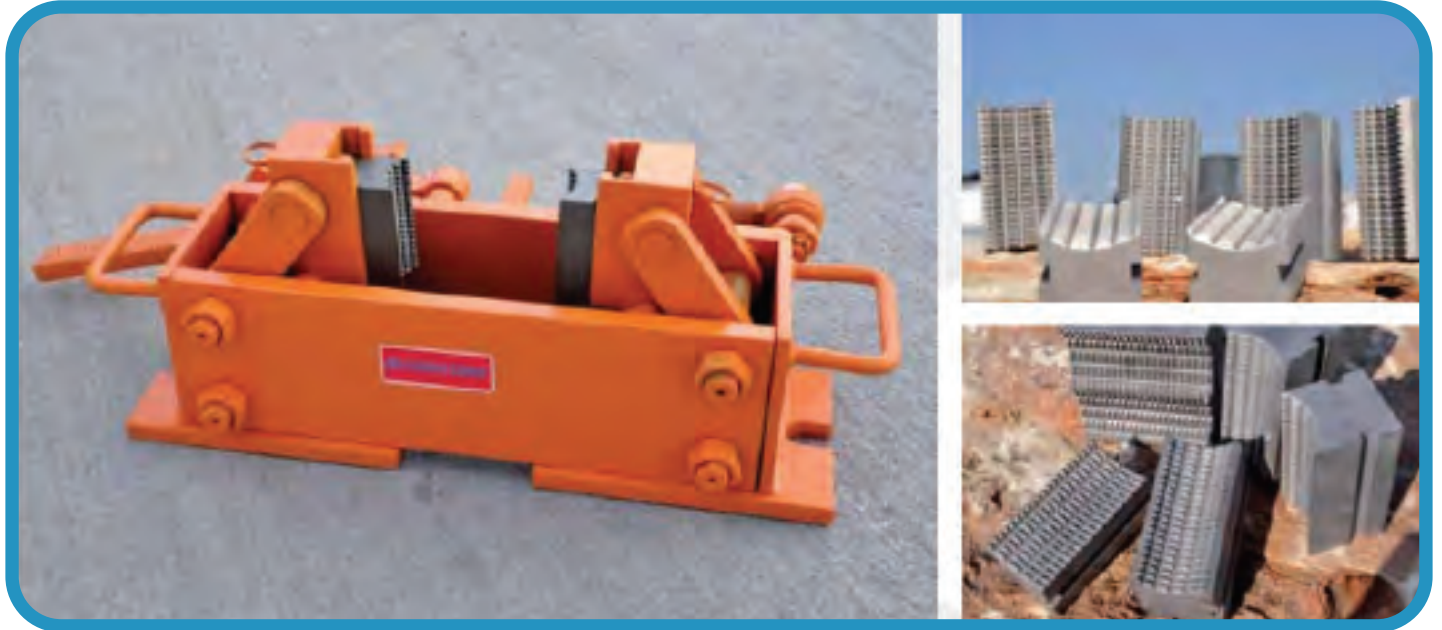
Casing Cutters Overview

CASING CUTTER & SPARES		
PART NUMBER	DESCRIPTION	QUANTITY
AD-5046951	PLUNGER CASE	1
AD-5046952	O-RING	1
AD-5046953	PLUNGER	1
AD-5046954	CUTTER ARMS	1
AD-5046955	DIAMOND CUTTER	1
AD-5046956	SCREW	1
AD-5046957	SPIROL PIN	1
AD-5046958	SPRING	1
AD-5046900	BODY	1
AD-5046960	SETTING NUT	1
AD-5046961	SETTING BOLT	1
AD-5046900	NWL CASING CUTTER	
AD-5046950	NW/HWL CASING CUTTER	
AD-5046970	HW/PWL CASING CUTTER	
AD-5046980	PW CASING CUTTER	

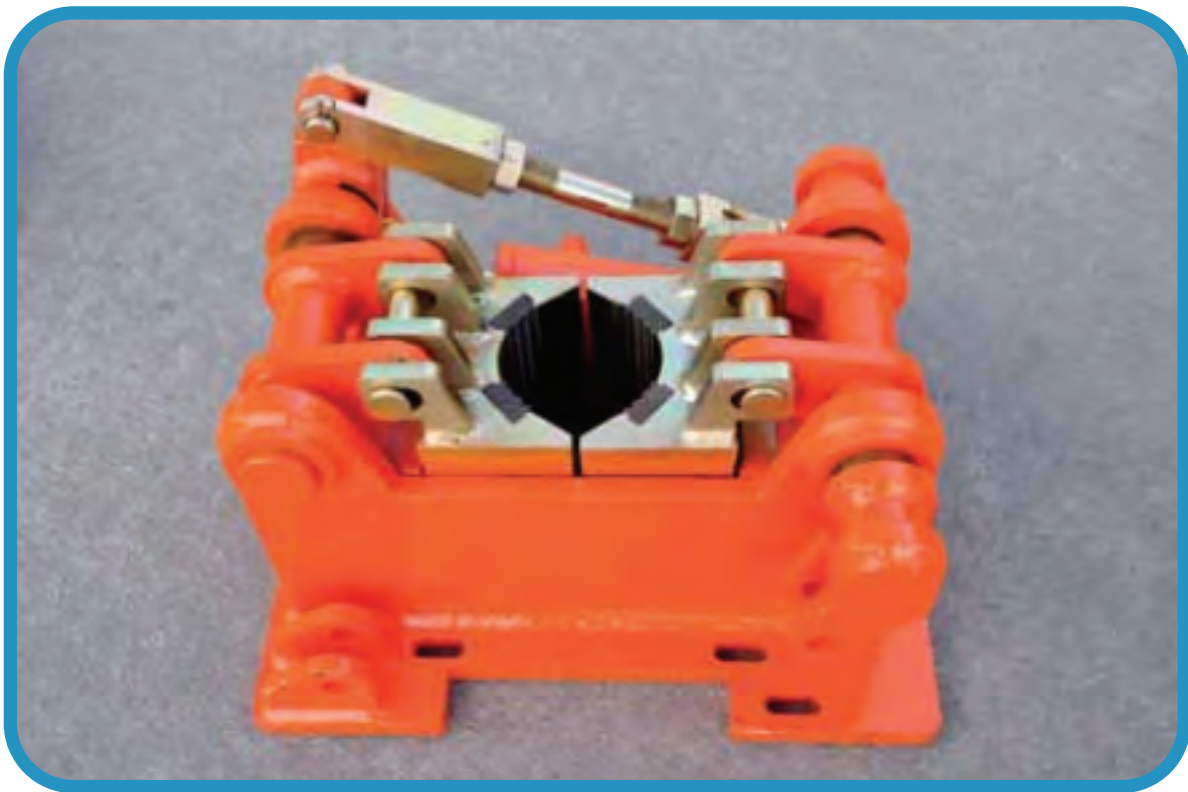


CASING CUTTER SPARE KIT (PART # AD-S5046900)		
PART NUMBER	DESCRIPTION	QUANTITY
AD-5046954	CUTTER ARMS	1
AD-5046955	DIAMOND CUTTER	1
AD-5046956	SCREW	1
AD-5046952	O-RING	1
AD-5046957	SPIROL PIN	1
AD-5046958	SPRING	1

Manuel Foot Clamp



Hydraulic Foot Clamp



Water Swivel Overview

STANDARD DUTY WATER SWIVEL

PART NUMBER	DESCRIPTION	QUANTITY
AD-5346951	HOISTING CAP	1
AD-5346952	SWIVEL PACKING	1
AD-5346953	SPINDLE EXTENTION	1
AD-5346954	SWIVEL BODY CAP	1
AD-5346955	BEARING	2
AD-5346956	SWIVEL BODY	1
AD-5346957	GREASE FITTING	1
AD-5346958	SEAL	1
AD-5346900	SWIVEL	1
AD-5346960	BOLT	1
AD-5346961	NUT	1
AD-5346962	HOSE ADAPTER	1
AD-5346950	BWL WATER SWIVEL	
AD-5346970	NWL WATER SWIVEL	
AD-5346980	HWL WATER SWIVEL	
AD-5346990	PWL WATER SWIVEL	

HEAVY DUTY WATER SWIVEL

PART NUMBER	DESCRIPTION	QUANTITY
AD-5246951	HOISTING CAP	1
AD-5246952	COMPRESSION SPRING	1
AD-5246953	SWIVEL PACKING	1
AD-5246954	O-RING	1
AD-5246955	PACKAGE HOUSING	1
AD-5246956	SPINDLE NUT	1
AD-5246957	LOCK WASHER	1
AD-5246958	RETAINING RING	1
AD-5246900	BALL BEARING	1
AD-5246960	SPINDLE EXTENSION	1
AD-5246961	SPINDLE	1
AD-5246962	BALL THRUST BEARING	1
AD-5246963	SWIVEL BODY	1
AD-5246964	GREASE FITTING	1
AD-5346965	HOSE ADAPTER	1
AD-5346966	ADAPTER	1
AD-5246950	BWL HEAVY DUTY WATER SWIVEL	
AD-5246970	NWL HEAVY DUTY WATER SWIVEL	
AD-5246980	HWL HEAVY DUTY WATER SWIVEL	
AD-5246990	PWL HEAVY DUTY WATER SWIVEL	



Hoisting Plug Overview

STANDARD HOISTING PLUG		
PART NUMBER	DESCRIPTION	QUANTITY
AD-5346851	LOCK NUT	1
AD-5346852	WASHER	1
AD-5346853	THRUST BEARING	1
AD-5346854	HOISTING PLUG BODY	1
AD-5346855	GREASE FITTING	2
AD-5346856	HANGER BEARING	1
AD-5346857	DRILL ROD ADAPTER	1
AD-5346850	BWL HOISTING PLUG	
AD-5346870	NWL HOISTING PLUG	
AD-5346880	HWL HOISTING PLUG	
AD-5346890	PWL HOISTING PLUG	



Loading Chamber & Spares

BWL/NWL/HWL LOADING CHAMBER (PART # AD-5342493)		
PART NUMBER	DESCRIPTION	QUANTITY
AD-5341817	PACKING PLUG	1
AD-5341816	CABLE GUIDE WASHER 3/16"	3
AD-52546	CABLE PACKING	2
AD-014597	QUICK COUPLER TIP 16NPT	1
AD-5342495	LOADING CHAMBER BODY	1



Recovery Tools

RECOVERY TAP

PART NUMBER	DESCRIPTION
AD-BL001	BWL DRILL ROD RECOVERY TAP
AD-NL001	NWL DRILL ROD RECOVERY TAP
AD-HL001	HWL DRILL ROD RECOVERY TAP
AD-PL001	PWL DRILL ROD RECOVERY TAP
AD-BW001	BW DRILL ROD RECOVERY TAP
AD-NW001	NW DRILL ROD RECOVERY TAP
AD-BC001	BW CASING RECOVERY TAP
AD-NC001	NW CASING RECOVERY TAP
AD-HC001	HW CASING RECOVERY TAP
AD-PC001	PW CASING RECOVERY TAP

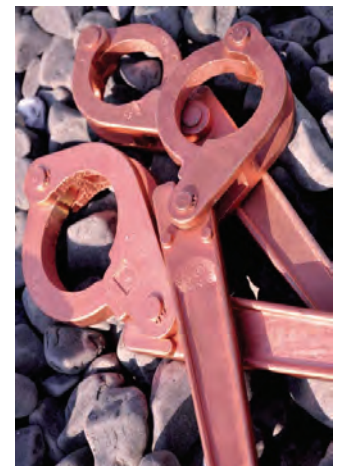
RECOVERY BELL

PART NUMBER	DESCRIPTION
AD-BL002	BWL DRILL ROD RECOVERY BELL
AD-NL002	NWL DRILL ROD RECOVERY BELL
AD-HL002	HWL DRILL ROD RECOVERY BELL
AD-PL002	PWL DRILL ROD RECOVERY BELL
AD-BW002	BW DRILL ROD RECOVERY BELL
AD-NW002	NW DRILL ROD RECOVERY BELL
AD-BC002	BW CASING RECOVERY BELL
AD-NC002	NW CASING RECOVERY BELL
AD-HC002	HW CASING RECOVERY BELL
AD-PC002	PW CASING RECOVERY BELL



Inner Tube & Outer Tube Wrenches

SIZE	WEIGHT (kg.)		DIAMETER		INNER TUBE WRENCHES PRODUCT NO.	OUTER TUBE WRENCHES PRODUCT NO.
	Inner Tube Wrench	Outer Tube Wrench	Inner Tube Wrench	Outer Tube Wrench		
BWL	1.5	1.9	43 mm	56 mm	ITW-B43-1500	OTW-B56-1900
NWL	1.9	3.4	56 mm	73 mm	ITW-N56-1900	OTW-N73-3400
HWL	3.4	4.4	73 mm	92 mm	ITW-H73-3400	OTW-H92-4400
PWL	4.3	7.3	95 mm	117 mm	ITW-P95-4300	OTW-P117-7300
T46	1.3	1.5	37 mm	45 mm	ITW-T46-1300	OTW-T46-1500
T56	1.6	1.9	47 mm	56 mm	ITW-T56-1600	OTW-T56-1900
T66	1.9	2.4	56 mm	65 mm	ITW-T66-1900	OTW-T66-2400
T76	2.5	3.5	67 mm	76 mm	ITW-T76-2500	OTW-T76-3500
T86	3.6	4	77 mm	85 mm	ITW-T86-3600	OTW-T86-4000



Geotechnical And Soil Improvement

Split Tube Sampler

SPT Split tube sampler is utilized in the 'Standard Test Method for Standard Penetration Test (SPT) and Split-Barrel Sampling of Soils', used for determining the bearing capacity of the material. SPT Split tube sampler is designed for non-cohesive soil formation such as sands and gravels from which it is virtually impossible to obtain undisturbed samples, where samples taken this way are considered disturbed. SPT Split Tube Sampler is manufactured from high tensile alloy steel tube and SPT Shoe is heat treated to be hardened in order to give an optimum wear resistance.

PART #	OUTER DIAMETER of Sampler	Rod Connection
AD-ST001-01	2" (50,8mm)	AW-BW
AD-ST002-01	2 ½" (60,3mm)	AW-BW
AD-ST003-01	3" (76mm)	AW-BW
AD-ST004-01	3 1/2" (88,9mm)	AW-BW



Other diameters and rod connections can also be manufactured according to client request. Both rod connections are available at each SPT Split Tube Sampler as AW-BW rod.

Shelby Tube Sampler

Shelby Tube Sampler is utilized in the 'Standard Practice for Thin-Walled Tube Sampling of Soils for Geotechnical Purposes', used for sampling undisturbed samples of cohesive silts and soft clays. This sampler should be forced into the soil by pressing under steady pressure in order to take sample.

PART #	OUTER DIAMETER of Sampler	Rod Connection
AD-SB001-01	2" (50,8mm)	AW
AD-SB002-01	2 ½" (63,5mm)	AW
AD-SB003-01	3" (76mm)	NW
AD-SB004-01	3 1/2" (88,9mm)	NW



SPT Hammer

We are supplying Automatic SPT Hammer and Hydraulic SPT Hammer that are of high quality for reasonable price, Standard Penetration Test (SPT).

Usage of Automatic SPT Hammer; SPT Drive Rods and a Split Tube Sampler are connected to base of the anvil of Automatic SPT Hammer and driven into the ground by the falling weight of 63.5 kg complete mechanism by automatically.

The overall length of the hammer is 2.6 m extended and 1.8 m when no extended. The total weight of the hammer is 107 kg.

Additionally to Automatic SPT Hammer, Hydraulic SPT Hammer is designed to be operated by hydraulic driven of machine. Hammer weight is 63.5kg (140lbs) and hammer travel distance is 76.2cm.

Automatic SPT Hammer

AITC provides our clients high quality Automatic Drive Hammer for Standard Penetration Test (SPT).

SPT Drive Rods and a Split Tube Sampler are connected to base of the anvil of Automatic Drive Hammer and driven into the ground by the falling weight of 63.5 kg to complete mechanism by automatically.

The overall length of the hammer is 2.6 m extended and 1.8 m when no extended. The total weight of the hammer is 107 kg.



SPT HYDRAULIC HAMMER

Hammer Weight : 63.5 kg - 140 lbs
Hammer Travel Distance : 76.2 cm - 30"



DRIVE HAMMER

There is another options for drive hammer, Barkom offers 63,5 kg Drive Hammer made from high quality cast iron forged steel eyebolts and extra heavy provide safety and wearing qualities.



NOTE :

Motor Requirement for Hydraulic SPT Hammer; Maximum Flow Rate: 60 l/min = 15.85 gpm
Maximum Pressure: 140 bar = 2030.5 psi Motor can work with open spool control valve also.

Auger

AITC offers best quality auger and auger bit for geotechnical drilling application to clients. Following standard sizes are available in product range;

PART #	HOLE SIZE		DIAMETER		PITCH		HEX CONN.		STOCK LENGHT		WEIGHT	
	in	mm	in	mm	in	mm	in	mm	ft	m	lb	kg
AD-0002-90	2 1/2	64	2 3/8	60	2	51	13/16	21	3	0.91	12.00	5.40
AD-0002-15									5	1.50	18.00	8.20
AD-0003-90	3	76	2 5/8	67	2	51	13/16	21	3	0.91	14.00	6.40
AD-0003-15									5	1.50	22.00	10.00
AD-0032-90	3 1/2	89	3 1/4	83	3 1/3	85	1 1/8	29	3	0.91	18.00	8.20
AD-0032-15									5	1.50	30.00	13.60
AD-0032-31									10	3.10	61.00	27.70
AD-0033-90	3 3/4	95	3 1/2	89	3 1/3	85	13/16	21	3	0.91	18.00	8.20
AD-0042-90	4 1/2	114	4	102	3 1/3	85	1 1/8	29	3	0.91	22.00	10.00
AD-0042-15									5	1.50	34.00	15.40
AD-0042-31									10	3.10	70.00	31.80
AD-0005-90	5	127	4 1/2	114	4	102	1 1/8	29	3	0.91	27.00	12.20
AD-0005-15									5	1.50	36.00	16.30
AD-0006-90	6	152	5 1/2	140	5	127	1 1/8	29	3	0.91	26.00	11.80
AD-0006-15									5	1.50	40.00	18.10
AD-0043-90	4 1/2	114	4	102	3 1/3	85	1 5/8	41	3	0.91	+	+
AD-0043-15									5	1.50	54.00	24.50
AD-0043-31									10	3.00	104.00	47.20
AD-0052-15	5	127	4 1/2	114	4	102	1 5/8	41	5	1.50	54.00	24.50
AD-0052-31									10	3.00	106.00	48.10
AD-0061-15	6	152	5 1/2	140	5	127	1 5/8	41	5	1.50	58.00	26.30
AD-0061-31									10	3.00	115.00	50.30
AD-0007-10	7	178	6	152	5	127	1 5/8	41	5	1.50	64.00	29.00
AD-0008-15	8	203	7	178	7	178	1 5/8	41	5	1.50	72.00	32.70
AD-0008-31									10	3.00	138.00	63.00
AD-0010-15	10	254	8 1/2	225	7	178	1 5/8	41	5	1.50	+	+
AD-0012-15	12	305	10	254	8	203	1 5/8	41	5	1.50	+	+



Drill pipes

A drill pipe is a high-strength steel pipe used in drilling. Depending on the drilling method and purpose of drilling, pipes come in different thickness and lengths, with the most common lengths being 3-10 meters. Drill pipes are joined together one by one as the drill progresses deeper into the bedrock. Together, the pipes form a drill string, which can extend several kilometers down into the ground.

Each drill pipe consists of three parts welded together, a central portion and two end pieces. The end piece contains either a male ("pin") or a female ("box") thread, which permits interconnection of two drill pipes. The entire drill string is subjected to extremely high loads during drilling, and the thread is always the most critical part in each pipe. If for any reason the male and female thread do not fit exactly into each other, the thread will most probably break and you will lose your entire drill string.

Driconeq focuses on this critical point. We have the experience and knowledge to customize your drill pipe to match the conditions you are drilling in. Our end pieces are manufactured in a high-quality steel which is then tempered to achieve a superior durability. Our technique extends the thread's lifespan by over 50% compared with steel grade 4140 that is frequently used.

Drilling accessories

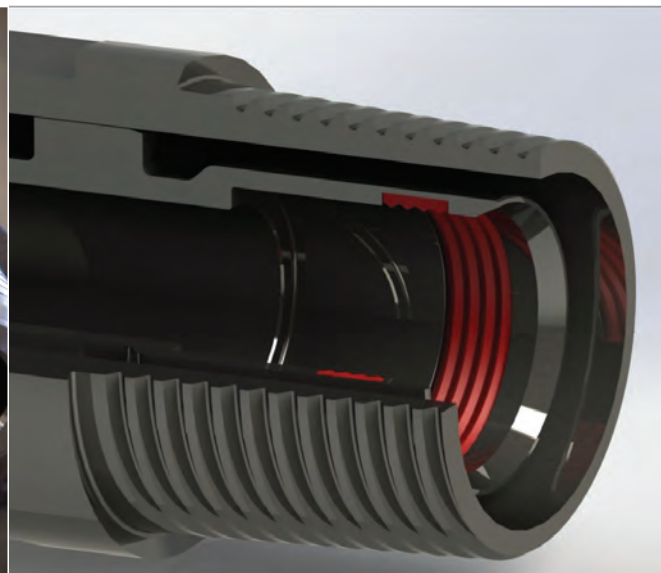
In a drilling operation you need more than drill pipes to obtain a complete drill string, from the drilling rig to the drill bit. The construction of a drill string varies depending on the drilling method used, requirements on hole quality and the ground conditions.

Regardless of which drilling method you use, or what accessories you need, Driconeq will customise a complete solution for you. Our accessories have the same high quality as our drill pipes, so we can ensure maximum life for your entire drill string. Our meticulous production and delivery processes ensure that each part fits with the next, providing a reliable complete solution tailored to your wishes.

Hdd Drilling

Directional boring, commonly called horizontal directional drilling or HDD, is a steerable trenchless method of installing underground pipe, conduit, or cable in a shallow arc along a prescribed bore path by using a surface-launched drilling rig, with minimal impact on the surrounding area.

Directional boring is used when trenching or excavating is not practical. It is suitable for a variety of soil conditions and jobs including road, landscape and river crossings. Directional boring is not practical if there are voids in the rock or incomplete layers of rock. The best material is solid rock or sedimentary material. Soils with cobblestone are not recommended. There are different types of heads used in the pilot-hole process, and they depend on the geological material.



DTH Drilling – Efficiency and Flexibility

When you need to drill high quality holes with diameters between 100-254 mm, DTH (Down The Hole) drilling is by far the best and most effective method. DTH drilling can be performed in most types of rock, hard or soft. It's a commonly used method in the mining industry (blast hole drilling), waterwell drilling, construction, and in the oil and gas industry.

RC Drilling – Fast and Reliable Results

We don't always know a lot about what is hidden in the bedrock beneath our feet. There is therefore a lot we can learn, and using specialist methods we can improve our knowledge significantly. For example, with RC drilling (reversed circulation) you can find out if the bedrock is strong enough to support construction or if you can extract materials from it.



DTH Drill Pipes and Adaptors

AITC always sources high quality DTH Drill pipes and adaptors that are carefully selected seamless steel pipe and high quality alloy steel for joint tools and are precisely friction welded to ensure straightness and concentricity. These have multiple precisely heat-treated tool joints. Internally and externally upset drill rods are available.



Outer diameter		Thread	Wall thickness	Length
mm	inch		mm	mm
76	3	API 2 3/8 REG	6.3	1000-4000mm
		API 2 7/8 REG	8	4000-6000mm
		API 3 1/2 REG		
		API 4 1/2 REG		
89	3 1/2	API 2 3/8 IF	6.3	1000-4000mm
		API 2 7/8" IF	8.8	4000-6000mm
102	4	API 3 1/2" IF	6.3	1500-4000mm
		API 4 1/2" IF	8.8	4000-6000mm
114	4 1/2	API 5 1/2" IF	7.5	1500-4500mm
		BECO 3 1/2"	8	4500-9000mm
			10	
127	5		8	1500-5000mm
			10	5000-9000mm
			12	
133	5 1/4		8	1000-4000mm
			10	4000-12000mm
			12	
140	5 1/2		14	3000-9000mm
			19	9000-12000mm

Eccentric Overburden Drilling System

AITC's solution for Eccentric Overburden Drilling System is as follows:

- Rapid removal of cuttings; High penetration rate, especially in resistant rock formation.
- Easy soil and groundwater sampling during drilling.
- Possible to measure yield estimate at selected depth in the formation.
- Advantageous in unconsolidated formations with a high risk of caving.

Eccentric Overburden Drilling System Consist of Guide device, Casing shoe, Reamer, Pilot bit, Guide sleeve and Locking kits.

Model	Casing sizes		Min. inner dia. Of casing shoe	Reaming Dia.	Hammer shank	Drill pipe		
	Max. OD	Min. ID				Thread	O.D.	Wrench Flat
ODEX90	115	102	90	123	DHD3.5/COP32/QL30	API 2 3/8" REG	76	65
ODEX115	142	128	115	152	DHD340/COP44/SD4/QL40/M40	API 2 3/8" REG	76	65
ODEX140	171	157	140	187	DHD350R/COP54/SD5/QL50/M50	API 2 3/8" REG	89	65
ODEX165	196	183	165	211	DHD360/COP64/SD6/QL60/M60	API 2 3/8" REG	114	95
ODEX190	222	205	190	237	DHD360/COP64/SD6/QL60/M60	API 3 1/2" REG	114	95
ODEX240	273	261	240	308	DHD380/COP84/SD8/QL80/M80	API 3 1/2" REG	114	95
ODEX280	324	305	280	378	DHD1120/SD10/NUMA100	API 4 1/2" REG	114	95



Introduction To DTH

DTH drilling tool is a kind of drilling system which uses compressed air as motivation, makes drilling impact motivation parts down the hole, to control the piston reciprocating motion by the distribution device in the hammer, and then impacts the DTH bit in the front of the hammer to transit the impacting power to the bit. The DTH bit in the front of the hammer breaks the rock to drill hole. At present, DTH drilling tool is widely used in underground mining, quarries, hydraulic and Hydro-Power Engineering, water well drilling, Mineral exploration, anchoring hole drilling, geothermal engineering, Subway excavation, another civil engineering. It has the advantage of high flatness, smooth hole wall, high rigidity of drill rod and hammer, independent of high axial thrust, no limit of drilling depth, low cost of devices and easiness to maintain. At the drilling hole of dia.105mm dia. 254mm, a plenty of the DTH drilling tools are used.

HBR1, HBR2 & HBR3 DTH hammer

PARTS			
Shank	BR1	BR2	BR3
Length (without BIT)	760mm	880mm	889mm
External diameter	54	62	82
Top Sub Thread	RD40 BOX	RD50 Box	API 2 3/8" REG
Weight (without BIT)	10	14.5	26
Hole range	64mm-76mm	70mm-90mm	90-110mm
Working Pressure	0.7-1.75Mpa	0.7-1.75Mpa	0.7-1.75Mpa
Impact rate at 1.4Mpa	27Hz	27Hz	25Hz
Recommended rotation speed	25-40r/min	25-40r/min	25-40r/min
Air consumption 0.7Mpa	1.5 m³/min	2.5 m³/min	4 m³/min
Air consumption 1.0Mpa	2.5 m³/min	4 m³/min	6 m³/min
Air consumption 1.4Mpa	3.0 m³/min	5 m³/min	8m³/min

PART LIST

PARTS	PART NUMBER HBR1	PART NUMBER HBR2	PART NUMBER HBR3
Shank	BR1	BR2	BR3
Top Sub	BR1001	BR2001	BR3001
Check Valve	BR1002	BR2002	BR3002
Spring	BR1003	BR2003	BR3003
Air Distributor	BR1004	BR2004	BR3004
Internal Cylinder	BR1005	BR2005	BR3005
Piston	BR1006	BR2006	BR3006
External Cylinder	BR1007	BR2007	BR3007
Guide Sleeve	BR1008	BR2008	BR3008
"O" Ring of Stop Ring	BR1009	BR2009	BR3009
Stop Ring	BR1010	BR2010	BR3010
Drive Chuck	BR1011	BR2011	BR3011
Drill Bit	BR1012	BR2012	BR3012



HD 35 DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	DHD3.5
Length (without BIT)	930mm
External diameter	82mm
Top Sub Thread	API 2 3/8" REG
Weight (without BIT)	24.4kg
Hole range	90mm-105mm
Working pressure	1.0-1.5Mpa
Impact rate at 1.5Mpa	28Hz
Recommended rotation speed	25-40r/min
Air consumption 1.0Mpa	4.5 m³/min
Air consumption 1.5Mpa	9.0m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HD3501
"O" Ring of Top Sub	HD3502
Check Valve	HD3503
Spring	HD3504
Compression Buffer	HD3505
Air Distributor	HD3506
Internal Cylinder	HD3507
Piston	HD3508
External Cylinder	HD3509
"O" Ring of Stop Ring	HD3510
Stop Ring	HD3511
Drive Chuck	HD3512
Drill Bit	HD3513



HD 45 DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	DHD340/COP44
Length (without BIT)	1030mm
External diameter	99mm
Top Sub Thread	API 2 3/8" REG
Weight (without BIT)	39kg
Hole range	110mm-135mm
Working pressure	1.0-2.5Mpa
Impact rate at 1.7Mpa	27Hz
Recommended rotation speed	25-40r/min
Air consumption 1.0Mpa	6m³/min
Air consumption 1.8Mpa	10m³/min
Air consumption 2.4Mpa	15m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HD4501
"O" Ring of Top Sub	HD4502
Check Valve	HD4503
Spring	HD4504
Compression Buffer	HD4505
Air Distributor	HD4506
Internal Cylinder	HD4507
Piston	HD4508
External Cylinder	HD4509
"O" Ring of Stop Ring	HD4510
Stop Ring	HD4511
Drive Chuck	HD4512
Drill Bit	HD4513



HSD4 DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	SD4
Length (without BIT)	1084mm
External diameter	99mm
Top Sub Thread	API 2 3/8" REG
Weight (without BIT)	40.5kg
Hole range	110mm-135mm
Working pressure	1.0-2.5Mpa
Impact rate at 1.7Mpa	27Hz
Recommended rotation speed	25-40r/min
Air consumption 1.0Mpa	6m³/min
Air consumption 1.8Mpa	10m³/min
Air consumption 2.4Mpa	15m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HSD401
"O" Ring of Top Sub	HSD402
Check Valve	HSD403
Spring	HSD404
Compression Buffer	HSD405
Air Distributor	HSD406
Internal Cylinder	HSD407
Piston	HSD408
External Cylinder	HSD409
"O" Ring of Stop Ring	HSD410
Stop Ring	HSD411
Drive Chuck	HSD412
Drill Bit	HSD413



HQL40 DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	QL40
Length (without BIT)	1097mm
External diameter	99mm
Top Sub Thread	API 2 3/8" REG
Weight (without BIT)	41kg
Hole range	110mm-135mm
Working pressure	1.0-2.5Mpa
Impact rate at 1.7Mpa	27Hz
Recommended rotation speed	25-40r/min
Air consumption 1.0Mpa	6m³/min
Air consumption 1.8Mpa	10m³/min
Air consumption 2.4Mpa	15m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HQL4001
"O" Ring of Top Sub	HQL4002
Check Valve	HQL4003
Spring	HQL4004
Compression Buffer	HQL4005
Air Distributor	HQL4006
Internal Cylinder	HQL4007
Piston	HQL4008
External Cylinder	HQL4009
Guide Sleeve	HQL4010
"O" Ring of Stop Ring	HQL4011
Stop Ring	HQL4012
Drive Chuck	HQL4013
Drill Bit	HQL4014



HD55 DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	DHD350R/COP54
Length (without BIT)	1214mm
External diameter	125mm
Top Sub Thread	API 2 3/8" REG API 3 1/2" REG
Weight (without BIT)	77.5kg
Hole range	135mm-155mm
Working pressure	1.0-2.5Mpa
Impact rate at 1.7Mpa	25Hz
Recommended rotation speed	20-35r/min
Air consumption 1.0Mpa	9m³/min
Air consumption 1.8Mpa	15m³/min
Air consumption 2.4Mpa	23m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HD5501
"O" Ring of Top Sub	HD5502
Check Valve	HD5503
Spring	HD5504
Ring	HD5505
Compression Buffer	HD5506
Compression Buffer Seat	HD5507
Air Distributor	HD5508
Internal Cylinder	HD5509
Piston	HD5510
External Cylinder	HD5511
"O" Ring of Stop Ring	HD5512
Stop Ring	HD5513
Drive Chuck	HD5514
Drill Bit	HD5515



HSD5 DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	SD5
Length (without BIT)	1175mm
External diameter	125mm
Top Sub Thread	API 3 1/2" REG
Weight (without BIT)	72.5kg
Hole range	135mm-155mm
Working pressure	1.0-2.5Mpa
Impact rate at 1.7Mpa	25Hz
Recommended rotation speed	20-35r/min
Air consumption 1.0Mpa	9m³/min
Air consumption 1.8Mpa	15m³/min
Air consumption 2.4Mpa	23m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HSD501
"O" Ring of Top Sub	HSD502
Breakout Ring of Top Sub	HSD503
Check Valve	HSD504
Spring	HSD505
Compression Buffer	HSD506
Air Distributor	HSD507
Internal Cylinder	HSD508
Piston	HSD509
External Cylinder	HSD510
"O" Ring of Stop Ring	HSD511
Stop Ring	HSD512
Drive Chuck	HSD513
Drill Bit	HSD514



HQL50 DTH Hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	QL50
Length (without BIT)	1156mm
External diameter	125mm
Top Sub Thread	API 3 1/2" REG
Weight (without BIT)	73kg
Hole range	135mm-155mm
Working pressure	1.0-2.5Mpa
Impact rate at 1.7Mpa	25Hz
Recommended rotation speed	20-35r/min
Air consumption 1.0Mpa	9m³/min
Air consumption 1.8Mpa	15m³/min
Air consumption 2.4Mpa	23m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HQL5001
"O" Ring of Top Sub	HQL5002
Check Valve	HQL5003
Spring	HQL5004
Ring	HQL5005
Compression Buffer	HQL5006
Compression Buffer Seat	HQL5007
Air Distributor	HQL5008
Internal Cylinder	HQL5009
Piston	HQL5010
External Cylinder	HQL5011
"O" Ring of Stop Ring	HQL5012
Stop Ring	HQL5013
Drive Chuck	HQL5014
Drill Bit	HQL5015



HD65 DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	DHD360 / COP64
Length (without BIT)	1248mm
External diameter	148mm
Top Sub Thread	API 3 1/2" REG
Weight (without BIT)	100kg
Hole range	155mm-190mm
Working pressure	1.0-2.5Mpa
Impact rate at 1.7Mpa	23Hz
Recommended rotation speed	20-30r/min
Air consumption 1.0Mpa	10m³/min
Air consumption 1.8Mpa	20m³/min
Air consumption 2.4Mpa	28.5m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HD6501
"O" Ring of Top Sub	HD6502
Check Valve	HD6503
Spring	HD6504
Compression Buffer	HD6505
Air Distributor	HD6506
Internal Cylinder	HD6507
Piston	HD6508
External Cylinder	HD6509
"O" Ring of Stop Ring	HD6510
Stop Ring	HD6511
Guide Sleeve	HD6512
Drive Chuck	HD6513
Drill Bit	HD6514



HSD6 DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	SD6
Length (without BIT)	1261mm
External diameter	148mm
Top Sub Thread	API 3 1/2" REG
Weight (without BIT)	100kg
Hole range	155mm-190mm
Working pressure	1.0-2.5Mpa
Impact rate at 1.7Mpa	23Hz
Recommended rotation speed	20-30r/min
Air consumption 1.0Mpa	10m³/min
Air consumption 1.8Mpa	20m³/min
Air consumption 2.4Mpa	28.5m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HSD601
"O" Ring of Top Sub	HSD602
Check Valve	HSD603
Spring	HSD604
Compression Buffer	HSD605
Air Distributor	HSD606
Internal Cylinder	HSD607
Piston	HSD608
External Cylinder	HSD609
"O" Ring of Stop Ring	HSD610
Stop Ring	HSD611
Guide Sleeve	HSD612
Drive Chuck	HSD613
Drill Bit	HSD614



HQL60 DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	QL60
Length (without BIT)	1212mm
External diameter	148mm
Top Sub Thread	API 3 1/2" REG
Weight (without BIT)	95kg
Hole range	155mm-190mm
Working pressure	1.0-2.5Mpa
Impact rate at 1.7Mpa	23Hz
Recommended rotation speed	20-30r/min
Air consumption 1.0Mpa	10m³/min
Air consumption 1.8Mpa	20m³/min
Air consumption 2.4Mpa	28.5m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HQL6001
"O" Ring of Top Sub	HQL6002
Check Valve	HQL6003
Spring	HQL6004
Compression Buffer	HQL6005
Air Distributor	HQL6006
Internal Cylinder	HQL6007
Piston	HQL6008
External Cylinder	HQL6009
Guide Sleeve	HQL6010
"O" Ring of Stop Ring	HQL6011
Stop Ring	HQL6012
Drive Chuck	HQL6013
Drill Bit	HQL6014



HD85 DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	DHD380/Cop84
Length (without BIT)	1492mm
External diameter	185mm
Top Sub Thread	API 4 1/2" REG
Weight (without BIT)	187kgs
Hole range	195mm-254mm
Working pressure	1.0-2.5Mpa
Impact rate at 1.7Mpa	20Hz
Recommended rotation speed	20-30r/min
Air consumption 1.0Mpa	15 m³/min
Air consumption 1.8Mpa	26 m³/min
Air consumption 2.4Mpa	34 m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HD8501
"O" Ring of Top Sub	HD8502
Breakout Ring of Top Sub	HD8503
Check Valve	HD8504
Spring	HD8505
Compression Buffer	HD8506
Air Distributor	HD8507
Internal Cylinder	HD8508
Piston	HD8509
External Cylinder	HD8510
"O" Ring of Stop Ring	HD8511
Stop Ring	HD8512
Drive Chuck	HD8513
Drill Bit	HD8514



HSD8 DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	SD8
Length (without BIT)	1463mm
External diameter	185mm
Top Sub Thread	API 4 1/2" REG
Weight (without BIT)	192kg
Hole range	195mm-254mm
Working pressure	1.0-2.5Mpa
Impact rate at 1.7Mpa	20Hz
Recommended rotation speed	15-25r/min
Air consumption 1.0Mpa	15 m³/min
Air consumption 1.8Mpa	26 m³/min
Air consumption 2.4Mpa	34 m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HSD801
"O" Ring of Top Sub	HSD802
Breakout Ring of Top Sub	HSD803
Check Valve	HSD804
Spring	HSD805
Compression Buffer	HSD806
Air Distributor	HSD807
Internal Cylinder	HSD808
Piston	HSD809
External Cylinder	HSD810
"O" Ring of Stop Ring	HSD811
Stop Ring	HSD812
Guide Sleeve	HSD813
Drive Chuck	HSD814
Drill Bit	HSD815



HQL80 DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	QL80
Length (without BIT)	1465mm
External diameter	185mm
Top Sub Thread	API 4 1/2" REG
Weight (without BIT)	182kgs
Hole range	195mm-254mm
Working pressure	1.0-2.5Mpa
Impact rate at 1.7Mpa	20Hz
Recommended rotation speed	15-25r/min
Air consumption 1.0Mpa	15 m³/min
Air consumption 1.8Mpa	26 m³/min
Air consumption 2.4Mpa	34 m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HQL8001
"O" Ring of Top Sub	HQL8002
Breakout Ring of Top Sub	HQL8003
Check Valve	HQL8004
Spring	HQL8005
Compression Buffer	HQL8006
Air Distributor	HQL8007
Internal Cylinder	HQL8008
Piston	HQL8009
External Cylinder	HQL8010
Guide Sleeve	HQL8011
"O" Ring of Stop Ring	HQL8012
Stop Ring	HQL8013
Breakout Ring of Drive Chuck	HQL8014
Drive Chuck	HQL8015
Drill Bit	HQL8016



HSD10 DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	SD10
Length (without BIT)	1502mm
External diameter	225mm
Top Sub Thread	API 4 1/2" REG API 5 1/2" REG
Weight (without BIT)	290kg
Hole range	254mm-311mm
Working pressure	1.0-2.5Mpa
Impact rate at 1.7Mpa	18Hz
Recommended rotation speed	15-25r/min
Air consumption 1.0Mpa	22 m³/min
Air consumption 1.8Mpa	40 m³/min
Air consumption 2.4Mpa	55 m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HSD1001
"O" Ring of Top Sub	HSD1002
Breakout Ring of Top Sub	HSD1003
Check Valve	HSD1004
Spring	HSD1005
Air Distributor	HSD1006
Internal Cylinder	HSD1007
Piston	HSD1008
External Cylinder	HSD1009
Piston Retaining Ring	HSD1010
"O" Ring of Stop Ring	HSD1011
Stop Ring	HSD1012
Guide Sleeve	HSD1013
Breakout Ring of Drive Chuck	HSD1014
Drive Chuck	HSD1015
Drill Bit	HSD1016



HN100 DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	NUMA100
Length (without BIT)	1510mm
External diameter	225mm
Top Sub Thread	API 6 5/8"REG
Weight (without BIT)	288kg
Hole range	254mm-311mm
Working pressure	1.0-2.5Mpa
Impact rate at 1.7Mpa	18Hz
Recommended rotation speed	15-25r/min
Air consumption 1.0Mpa	22 m³/min
Air consumption 1.8Mpa	45 m³/min
Air consumption 2.4Mpa	60 m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HN10001
"O" Ring of Top Sub	HN10002
Breakout Ring of Top Sub	HN10003
Check Valve	HN10004
Spring	HN10005
Air Distributor	HN10006
Internal Cylinder	HN10007
Piston	HN10008
External Cylinder	HN10009
Piston Retaining Ring	HN10010
"O" Ring of Stop Ring	HN10011
Stop Ring	HN10012
Breakout Ring of Drive Chuck	HN10013
Drive Chuck	HN10014
Drill Bit	HN10015



HSD12 DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	SD12
Length (without BIT)	1880mm
External diameter	275mm
Top Sub Thread	API 6 5/8" REG
Weight (without BIT)	487kg
Hole range	305mm-445mm
Working pressure	1.0-2.5Mpa
Impact rate at 1.7Mpa	16Hz
Recommended rotation speed	15-25r/min
Air consumption 1.0Mpa	30 m³/min
Air consumption 1.8Mpa	56 m³/min
Air consumption 2.4Mpa	78 m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HSD1201
"O" Ring of Top Sub	HSD1202
Breakout Ring of Top Sub	HSD1203
Check Valve	HSD1204
Spring	HSD1205
Air Distributor	HSD1206
Internal Cylinder	HSD1207
Piston	HSD1208
External Cylinder	HSD1209
Piston Retaining Ring	HSD1210
"O" Ring of Stop Ring	HSD1211
Stop Ring	HSD1212
Guide Sleeve	HSD1213
Breakout Ring of Drive Chuck	HSD1214
Drive Chuck	HSD1215
Drill Bit	HSD1216



HD1120 DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	DHD1120
Length (without BIT)	1900mm
External diameter	275mm
Top Sub Thread	API 6 5/8"REG
Weight (without BIT)	480kgs
Hole range	305mm-445mm
Working pressure	1.0-2.5Mpa
Impact rate at 1.7Mpa	16Hz
Recommended rotation speed	15-25r/min
Air consumption 1.0Mpa	30 m³/min
Air consumption 1.8Mpa	56 m³/min
Air consumption 2.4Mpa	78 m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HD12001
"O" Ring of Top Sub	HD12002
Breakout Ring of Top Sub	HD12003
Check Valve	HD12004
Spring	HD12005
Compression Buffer	HD12006
Air Distributor	HD12007
Internal Cylinder	HD12008
Piston	HD12009
External Cylinder	HD12010
Guide Sleeve	HD12011
"O" Ring of Stop Ring	HD12012
Stop Ring	HD12013
Breakout Ring of Drive Chuck	HD12014
Drive Chuck	HD12015
Drill Bit	HD12016



Available Shanks
DHD1120

HN120 DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	NUMA120
Length (without BIT)	1900mm
External diameter	275mm
Top Sub Thread	API 6 5/8"REG
Weight (without BIT)	487kg
Hole range	305mm-445mm
Working pressure	1.0-2.5Mpa
Impact rate at 1.7Mpa	16Hz
Recommended rotation speed	15-25r/min
Air consumption 1.0Mpa	30 m³/min
Air consumption 1.8Mpa	56 m³/min
Air consumption 2.4Mpa	78 m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	N12001
"O" Ring of Top Sub	N12002
Breakout Ring of Top Sub	N12003
Check Valve	N12004
Spring	N12005
Compression Buffer	N12006
Air Distributor	N12007
Internal Cylinder	N12008
Piston	N12009
External Cylinder	N12010
Guide Sleeve	N12011
"O" Ring of Stop Ring	N12012
Stop Ring	N12013
Breakout Ring of Drive Chuck	N12014
Drive Chuck	N12015
Drill Bit	N12016



Available Shanks
NUMA120

HN125 DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	NUMA125
Length (without BIT)	1900mm
External diameter	275mm
Top Sub Thread	API 6 5/8"REG
Weight (without BIT)	480kg
Hole range	305mm-445mm
Working pressure	1.0-2.5Mpa
Impact rate at 1.7Mpa	16Hz
Recommended rotation speed	15-25r/min
Air consumption 1.0Mpa	30m³/min
Air consumption 1.8Mpa	56m³/min
Air consumption 2.4Mpa	78m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HN12501
"O" Ring of Top Sub	HN12502
Breakout Ring of Top Sub	HN12503
Check Valve	HN12504
Spring	HN12505
Compression Buffer	HN12506
Air Distributor	HN12507
Internal Cylinder	HN12508
Piston	HN12509
External Cylinder	HN12510
"O" Ring of Stop Ring	HN12511
Stop Ring	HN12512
Breakout Ring of Drive Chuck	HN12513
Drive Chuck	HN12514
Drill Bit	HN12515



HIGH AIR PRESSURE DTH

HD35A DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	DHD3.5
Length (without BIT)	888mm
External diameter	82mm
Top Sub Thread	API 2 3/8" REG
Weight (without BIT)	25kg
Hole range	90mm-105mm
Working pressure	1.0-1.5Mpa
Impact rate at 1.5Mpa	25Hz
Recommended rotation speed	25-40r/min
Air consumption 1.0Mpa	3.8m³/min
Air consumption 1.5Mpa	7.5m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HD35A01
"O" Ring of Top Sub	HD35A02
Check Valve	HD35A03
Spring	HD35A04
Air Distributor	HD35A05
Internal Cylinder	HD35A06
Piston	HD35A07
External Cylinder	HD35A08
Guide Sleeve	HD35A09
"O" Ring of Stop Ring	HD35A10
Stop Ring	HD35A11
Drive Chuck	HD35A12
Drill Bit	HD35A13



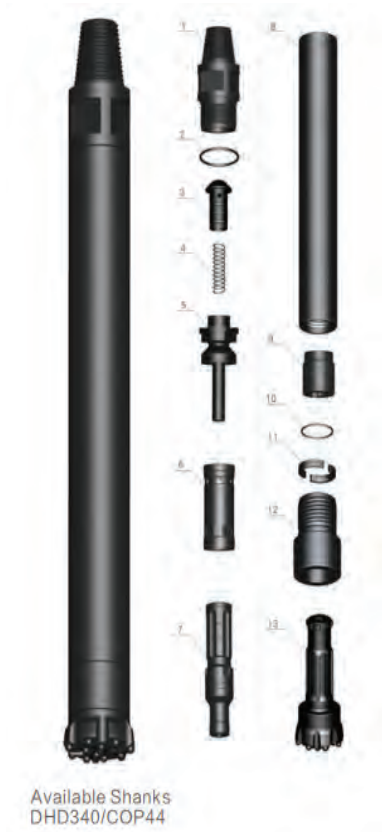
HM30A DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	Mission30
Length (without BIT)	888mm
External diameter	82mm
Top Sub Thread	API 2 3/8" REG
Weight (without BIT)	25kg
Hole range	90mm-105mm
Working pressure	1.0-1.5Mpa
Impact rate at 1.5Mpa	25Hz
Recommended rotation speed	25-40r/min
Air consumption 1.0Mpa	3.8m³/min
Air consumption 1.5Mpa	7.5m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	M30A01
"O" Ring of Top Sub	M30A02
Check Valve	M30A03
Spring	M30A04
Air Distributor	M30A05
Internal Cylinder	M30A06
Piston	M30A07
External Cylinder	M30A08
Guide Sleeve	M30A09
"O" Ring of Stop Ring	M30A10
Stop Ring	M30A11
Drive Chuck	M30A12
Drill Bit	M30A13



HD45A DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	DHD340/COP44
Length (without BIT)	1011mm
External diameter	92mm/99mm(optiond)
Top Sub Thread	API 2 3/8" REG
Weight (without BIT)	39kg
Hole range	110mm-130mm
Working pressure	1.0-2.5Mpa
Impact rate at 1.7Mpa	30Hz
Recommended rotation speed	22-35r/min
Air consumption 1.0Mpa	6m³/min
Air consumption 1.8Mpa	10m³/min
Air consumption 2.4Mpa	15m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HD45A01
"O" Ring of Top Sub	HD45A02
Check Valve	HD45A03
Spring	HD45A04
Air Distributor	HD45A05
Internal Cylinder	HD45A06
Piston	HD45A07
External Cylinder	HD45A08
Guide Sleeve	HD45A09
"O" Ring of Stop Ring	HD45A10
Stop Ring	HD45A11
Drive Chuck	HD45A12
Drill Bit	HD45A13



HSD4A DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	SD4
Length (without BIT)	1012mm
External diameter	99mm
Top Sub Thread	API 2 3/8" REG
Weight (without BIT)	40.50kg
Hole range	110mm-135mm
Working pressure	1.0-2.5Mpa
Impact rate at 1.7Mpa	30Hz
Recommended rotation speed	25-40r/min
Air consumption 1.0Mpa	6m³/min
Air consumption 1.8Mpa	9m³/min
Air consumption 2.4Mpa	14m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HSD4A01
"O" Ring of Top Sub	HSD4A02
Check Valve	HSD4A03
Spring	HSD4A04
Air Distributor	HSD4A05
Internal Cylinder	HSD4A06
Piston	HSD4A07
External Cylinder	HSD4A08
Guide Sleeve	HSD4A09
"O" Ring of Stop Ring	HSD4A10
Stop Ring	HSD4A11
Drive Chuck	HSD4A12
Drill Bit	HSD4A13



HQL40A DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	QL40
Length (without BIT)	1070mm
External diameter	99mm
Top Sub Thread	API 2 3/8" REG
Weight (without BIT)	40kg
Hole range	110mm-130mm
Working pressure	1.0-2.5Mpa
Impact rate at 1.7Mpa	30Hz
Recommended rotation speed	25-40r/min
Air consumption 1.0Mpa	5m³/min
Air consumption 1.8Mpa	9m³/min
Air consumption 2.4Mpa	14m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HQL40A01
"O" Ring of Top Sub	HQL40A02
Check Valve	HQL40A03
Spring	HQL40A04
Air Distributor	HQL40A05
Internal Cylinder	HQL40A06
Piston	HQL40A07
External Cylinder	HQL40A08
Guide Sleeve	HQL40A09
"O" Ring of Stop Ring	HQL40A10
Stop Ring	HQL40A11
Drive Chuck	HQL40A12
Drill Bit	HQL40A13



HM40A DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	Mission40
Length (without BIT)	1005mm
External diameter	99mm
Top Sub Thread	API 2 3/8" REG
Weight (without BIT)	40kg
Hole range	110mm-130mm
Working pressure	1.0-2.5Mpa
Impact rate at 1.7Mpa	30Hz
Recommended rotation speed	25-40r/min
Air consumption 1.0Mpa	5m³/min
Air consumption 1.8Mpa	9m³/min
Air consumption 2.4Mpa	14m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HM40A01
"O" Ring of Top Sub	HM40A02
Check Valve	HM40A03
Spring	HM40A04
Air Distributor	HM40A05
Internal Cylinder	HM40A06
Piston	HM40A07
Guide Sleeve	HM40A08
External Cylinder	HM40A09
"O" Ring of Stop Ring	HM40A10
Stop Ring	HM40A11
Drive Chuck	HM40A12
Drill Bit	HM40A13



Available Shanks
Mission40

HD55A DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	DHD350R/COP54
Length (without BIT)	1110mm
External diameter	116mm/125mm (Optional)
Top Sub Thread	API 2 3/8" REG API 3
Weight (without BIT)	66kg
Hole range	127mm-155mm
Working pressure	1.0-2.5Mpa
Impact rate at 1.7Mpa	28Hz
Recommended rotation speed	20-35r/min
Air consumption 1.0Mpa	7m³/min
Air consumption 1.8Mpa	13-14m³/min
Air consumption 2.4Mpa	18-19m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HD55A01
"O" Ring of Top Sub	HD55A02
Check Valve	HD55A03
Spring	HD55A04
Air Distributor	HD55A05
Internal Cylinder	HD55A06
Piston	HD55A07
External Cylinder	HD55A08
Guide Sleeve	HD55A09
"O" Ring of Stop Ring	HD55A10
Stop Ring	HD55A11
Drive Chuck	HD55A12
Drill Bit	HD55A13



Available Shanks
DHD350R/COP54

HSD5A DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	SD5
Length (without BIT)	1090mm
External diameter	125mm
Top Sub Thread	API 2 3/8" REG API 3 1/2"REG
Weight (without BIT)	70kg
Hole range	135mm-155mm
Working pressure	1.0-2.5Mpa
Impact rate at 1.7Mpa	28Hz
Recommended rotation speed	20-35r/min
Air consumption 1.0Mpa	7m³/min
Air consumption 1.8Mpa	14m³/min
Air consumption 2.4Mpa	19m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HSD5A01
"O" Ring of Top Sub	HSD5A02
Check Valve	HSD5A03
Spring	HSD5A04
Air Distributor	HSD5A05
Internal Cylinder	HSD5A06
Piston	HSD5A07
External Cylinder	HSD5A08
Guide Sleeve	HSD5A09
"O" Ring of Stop Ring	HSD5A10
Stop Ring	HSD5A11
Drive Chuck	HSD5A12
Drill Bit	HSD5A13



Available Shanks
SD5

HQL50A DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	QL50
Length (without BIT)	1090mm
External diameter	125mm
Top Sub Thread	API 2 3/8" REG API 3 1/2"REG
Weight (without BIT)	64.4kg
Hole range	135mm-155mm
Working pressure	1.0-2.5Mpa
Impact rate at 1.7Mpa	28Hz
Recommended rotation speed	20-35r/min
Air consumption 1.0Mpa	7m³/min
Air consumption 1.8Mpa	14m³/min
Air consumption 2.4Mpa	19m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HQL50A01
"O" Ring of Top Sub	HQL50A02
Check Valve	HQL50A03
Spring	HQL50A04
Air Distributor	HQL50A05
Internal Cylinder	HQL50A06
Piston	HQL50A07
External Cylinder	HQL50A08
Guide Sleeve	HQL50A09
"O" Ring of Stop Ring	HQL50A10
Stop Ring	HQL50A11
Drive Chuck	HQL50A12
Drill Bit	HQL50A13



Available Shanks
QL50

HM50A DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	Mission50
Length (without BIT)	1110mm
External diameter	125mm
Top Sub Thread	API 2 3/8" REG API 3 1/2" REG API 2 3/8" IF API 2 7/8" REG
Weight (without BIT)	66kg
Hole range	135mm-155mm
Working pressure	1.0-2.5Mpa
Impact rate at 1.7Mpa	28Hz
Recommended rotation speed	20-35r/min
Air consumption 1.0Mpa	7m³/min
Air consumption 1.8Mpa	14m³/min
Air consumption 2.4Mpa	19m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HM50A01
"O" Ring of Top Sub	HM50A02
Check Valve	HM50A03
Spring	HM50A04
Air Distributor	HM50A05
Internal Cylinder	HM50A06
Piston	HM50A07
External Cylinder	HM50A08
Guide Sleeve	HM50A09
"O" Ring of Stop Ring	HM50A10
Stop Ring	HM50A11
Drive Chuck	HM50A12
Drill Bit	HM50A13



HD65A DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	DHD360/ COP64
Length (without BIT)	1238mm
External diameter	148mm
Top Sub Thread	API 3 1/2" REG
Weight (without BIT)	105kg
Hole range	155mm-190mm
Working pressure	1.0-2.5Mpa
Impact rate at 1.7Mpa	25Hz
Recommended rotation speed	20-30r/min
Air consumption 1.0Mpa	9m³/min
Air consumption 1.8Mpa	18m³/min
Air consumption 2.4Mpa	26m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HD65A01
"O" Ring of Top Sub	HD65A02
Check Valve	HD65A03
Spring	HD65A04
Air Distributor	HD65A05
Internal Cylinder	HD65A06
Piston	HD65A07
External Cylinder	HD65A08
Guide Sleeve	HD65A09
"O" Ring of Stop Ring	HD65A10
Stop Ring	HD65A11
Drive Chuck	HD65A12
Drill Bit	HD65A13



HSD6A DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	SD6
Length (without BIT)	1182mm
External diameter	148mm
Top Sub Thread	API 3 1/2" REG
Weight (without BIT)	90kg
Hole range	155mm-190mm
Working pressure	1.0-2.5Mpa
Impact rate at 1.7Mpa	25Hz
Recommended rotation speed	20-30r/min
Air consumption 1.0Mpa	9m³/min
Air consumption 1.8Mpa	18m³/min
Air consumption 2.4Mpa	26m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HSD6A01
"O" Ring of Top Sub	HSD6A02
Check Valve	HSD6A03
Spring	HSD6A04
Air Distributor	HSD6A05
Internal Cylinder	HSD6A06
Piston	HSD6A07
External Cylinder	HSD6A08
Guide Sleeve	HSD6A09
"O" Ring of Stop Ring	HSD6A10
Stop Ring	HSD6A11
Guide Sleeve	HSD6A12
Drive Chuck	HSD6A13
Drill Bit	HSD6A14



HQL60A DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	QL60
Length (without BIT)	1183mm
External diameter	148mm
Top Sub Thread	API 3 1/2" REG
Weight (without BIT)	92kg
Hole range	155mm-190mm
Working pressure	1.0-2.5Mpa
Impact rate at 1.7Mpa	25Hz
Recommended rotation speed	20-30r/min
Air consumption 1.0Mpa	9m³/min
Air consumption 1.8Mpa	18m³/min
Air consumption 2.4Mpa	26m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HQL60A01
"O" Ring of Top Sub	HQL60A02
Check Valve	HQL60A03
Spring	HQL60A04
Air Distributor	HQL60A05
Internal Cylinder	HQL60A06
Piston	HQL60A07
External Cylinder	HQL60A08
Guide Sleeve	HQL60A09
"O" Ring of Stop Ring	HQL60A10
Stop Ring	HQL60A11
Drive Chuck	HQL60A12
Drill Bit	HQL60A13



HM60A DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	Mission60
Length (without BIT)	1161mm
External diameter	148mm
Top Sub Thread	API 3 1/2" REG
Weight (without BIT)	96kg
Hole range	155mm-190mm
Working pressure	1.0-2.5Mpa
Impact rate at 1.7Mpa	25Hz
Recommended rotation speed	20-30r/min
Air consumption 1.0Mpa	9m³/min
Air consumption 1.8Mpa	18m³/min
Air consumption 2.4Mpa	26m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	M60A01
"O" Ring of Top Sub	M60A02
Check Valve	M60A03
Spring	M60A04
Air Distributor	M60A05
Internal Cylinder	M60A06
Piston	M60A07
External Cylinder	M60A08
Guide Sleeve	M60A09
"O" Ring of Stop Ring	M60A10
Stop Ring	M60A11
Drive Chuck	M60A12
Drill Bit	M60A13



Available Shanks
Mission60

HD85A DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	DHD380/COP84
Length (without BIT)	1359mm
External diameter	185mm
Top Sub Thread	API 4 1/2" REG
Weight (without BIT)	175kg
Hole range	195mm-254mm
Working pressure	1.0-3.0Mpa
Impact rate at 1.7Mpa	22Hz
Recommended rotation speed	15-25r/min
Air consumption 1.0Mpa	12 m³/min
Air consumption 1.8Mpa	22 m³/min
Air consumption 2.4Mpa	28 m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HD85A01
"O" Ring of Top Sub	HD85A02
Check Valve	HD85A03
Spring	HD85A04
Air Distributor	HD85A05
Internal Cylinder	HD85A06
Piston	HD85A07
External Cylinder	HD85A08
Guide Sleeve	HD85A09
"O" Ring of Stop Ring	HD85A10
Stop Ring	HD85A11
Drive Chuck	HD85A12
Drill Bit	HD85A13



Available Shanks
DHD380/COP84

HSD8A DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	SD8
Length (without BIT)	1330mm
External diameter	185mm
Top Sub Thread	API 4 1/2" REG
Weight (without BIT)	174kgs
Hole range	195mm-254mm
Working pressure	1.0-3.0Mpa
Impact rate at 1.7Mpa	22Hz
Recommended rotation speed	15-25r/min
Air consumption 1.0Mpa	12 m³/min
Air consumption 1.8Mpa	22 m³/min
Air consumption 2.4Mpa	28 m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HSD8A01
"O" Ring of Top Sub	HSD8A02
Breakout Ring of Top Sub	HSD8A03
Check Valve	HSD8A04
Spring	HSD8A05
Air Distributor	HSD8A06
Internal Cylinder	HSD8A07
Piston	HSD8A08
External Cylinder	HSD8A09
Guided Sleeve	HSD8A10
"O" Ring of Stop Ring	HSD8A11
Stop Ring	HSD8A12
Guide Case	HSD8A13
Drive Chuck	HSD8A14
Drill Bit	HSD8A15



HQL80A DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	QL80
Length (without BIT)	1330mm
External diameter	185mm
Top Sub Thread	API 4 1/2" REG
Weight (without BIT)	171kgs
Hole range	195mm-254mm
Working pressure	1.0-3.0Mpa
Impact rate at 1.7Mpa	22Hz
Recommended rotation speed	15-25r/min
Air consumption 1.0Mpa	12 m³/min
Air consumption 1.8Mpa	22 m³/min
Air consumption 2.4Mpa	28 m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HQL80A01
"O" Ring of Top Sub	HQL80A02
Breakout Ring of Top Sub	HQL80A03
Check Valve	HQL80A04
Spring	HQL80A05
Air Distributor	HQL80A06
Internal Cylinder	HQL80A07
Piston	HQL80A08
External Cylinder	HQL80A09
Guided Sleeve	HQL80A10
"O" Ring of Stop Ring	HQL80A11
Stop Ring	HQL80A12
Breakout Ring of Drive Chuck	HQL80A13
Drive Chuck	HQL80A14
Drill Bit	HQL80A15



HSD10A DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	SD10
Length (without BIT)	1525mm
External diameter	226mm
Top Sub Thread	API 6 5/8" REG
Weight (without BIT)	316kg
Hole range	254mm-311mm
Working pressure	1.0-3.0Mpa
Impact rate at 1.7Mpa	20Hz
Recommended rotation speed	15-25r/min
Air consumption 1.0Mpa	22 m³/min
Air consumption 1.8Mpa	40 m³/min
Air consumption 2.4Mpa	65 m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HSD10A01
"O" Ring of Top Sub	HSD10A02
Breakout Ring of Top Sub	HSD10A03
Check Valve	HSD10A04
Spring	HSD10A05
Air Distributor	HSD10A06
Internal Cylinder	HSD10A07
Piston	HSD10A08
External Cylinder	HSD10A09
Guided Sleeve	HSD10A10
"O" Ring of Stop Ring	HSD10A11
Stop Ring	HSD10A12
Guide Case	HSD10A13
Breakout Ring of Drive Chuck	HSD10A14
Drive Chuck	HSD10A15
Drill Bit	HSD10A16



Available Shanks
SD10

HN100A DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	NUMA100
Length (without BIT)	1545mm
External diameter	225mm
Top Sub Thread	API 4 1/2" REG API 5 1/2" REG
Weight (without BIT)	290kg
Hole range	254mm-311mm
Working pressure	1.2-3.0 Mpa
Impact rate at 1.7Mpa	20 Hz
Recommended rotation speed	15-25 r/min
Air consumption 1.0Mpa	22 m³/min
Air consumption 1.8Mpa	45 m³/min
Air consumption 2.4Mpa	60 m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HN100A01
"O" Ring of Top Sub	HN100A02
Breakout Ring of Top Sub	HN100A03
Check Valve	HN100A04
Spring	HN100A05
Air Distributor	HN100A06
Internal Cylinder	HN100A07
Piston	HN100A08
External Cylinder	HN100A09
Piston Retaining Ring	HN100A10
Guided Sleeve	HN100A11
"O" Ring of Stop Ring	HN100A12
Stop Ring	HN100A13
Breakout Ring of Drive Chuck	HN100A14
Drive Chuck	HN100A15
Drill Bit	HN100A16



Available Shanks
NUMA100

HSD12A DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	SD12
Length (without BIT)	1860mm
External diameter	275mm
Top Sub Thread	API 6 5/8" REG
Weight (without BIT)	480kg
Hole range	305mm-445mm
Working pressure	1.0-3.0Mpa
Impact rate at 1.7Mpa	20Hz
Recommended rotation speed	15-25 r/min
Air consumption 1.0Mpa	28 m³/min
Air consumption 1.8Mpa	50 m³/min
Air consumption 2.4Mpa	71 m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HSD12A01
"O" Ring of Top Sub	HSD12A02
Breakout Ring of Top Sub	HSD12A03
Check Valve	HSD12A04
Spring	HSD12A05
Air Distributor	HSD12A06
Internal Cylinder	HSD12A07
Piston	HSD12A08
External Cylinder	HSD12A09
Guided Sleeve	HSD12A10
"O" Ring of Stop Ring	HSD12A11
Stop Ring	HSD12A12
Guide Case	HSD12A13
Breakout Ring of Drive Chuck	HSD12A14
Drive Chuck	HSD12A15
Drill Bit	HSD12A16



Available Shanks
SD12

HD120A DTH hammer

Hammer overview	
Shank	DHD1120
Length (without BIT)	1880mm
External diameter	275mm
Top Sub Thread	API 6 5/8" REG
Weight (without BIT)	474kgs
Hole range	305mm-445mm
Working pressure	1.0-3.0Mpa
Impact rate at 1.7Mpa	20Hz
Recommended rotation speed	15-25r/min
Air consumption 1.0Mpa	28m³/min
Air consumption 1.8Mpa	50m³/min
Air consumption 2.4Mpa	71m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HD120A01
"O" Ring of Top Sub	HD120A02
Breakout Ring of Top Sub	HD120A03
Check Valve	HD120A04
Spring	HD120A05
Air Distributor	HD120A06
Internal Cylinder	HD120A07
Piston	HD120A08
External Cylinder	HD120A09
Piston Retaining Ring	HD120A10
Guided Sleeve	HD120A11
"O" Ring of Stop Ring	HD120A12
Stop Ring	HD120A13
Breakout Ring of Drive Chuck	HD120A14
Drive Chuck	HD120A15
Drill Bit	HD120A16



Available Shanks
DHD1120

HN120A DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	NUMA120
Length (without BIT)	1880mm
External diameter	275mm
Top Sub Thread	API 6 5/8" REG
Weight (without BIT)	475kg
Hole range	305mm-445mm
Working pressure	1.0-2.5Mpa
Impact rate at 1.7Mpa	20Hz
Recommended rotation speed	15-25r/min
Air consumption 1.0Mpa	28 m³/min
Air consumption 1.8Mpa	50 m³/min
Air consumption 2.4Mpa	71 m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HN120A01
"O" Ring of Top Sub	HN120A02
Breakout Ring of Top Sub	HN120A03
Check Valve	HN120A04
Spring	HN120A05
Air Distributor	HN120A06
Internal Cylinder	HN120A07
Piston	HN120A08
External Cylinder	HN120A09
Guided Sleeve	HN120A10
"O" Ring of Stop Ring	HN120A11
Stop Ring	HN120A12
Breakout Ring of Drive Chuck	HN120A13
Drive Chuck	HN120A14
Drill Bit	HN120A15



HN125A DTH hammer

Hammer overview	
PARTS	SPECIFICATIONS
Shank	NUMA125
Length (without BIT)	1960mm
External diameter	275mm
Top Sub Thread	API 6 5/8" REG API 7 5/8" REG
Weight (without BIT)	470kgs
Hole range	305mm-445mm
Working pressure	1.2-3.0Mpa
Impact rate at 1.7Mpa	20Hz
Recommended rotation speed	15-25r/min
Air consumption 1.0Mpa	28m³/min
Air consumption 1.8Mpa	50m³/min
Air consumption 2.4Mpa	71m³/min
PART LIST	
PARTS	PART NUMBER
Top Sub	HN125A01
"O" Ring of Top Sub	HN125A02
Breakout Ring of Top Sub	HN125A03
Check Valve	HN125A04
Spring	HN125A05
Air Distributor	HN125A06
Internal Cylinder	HN125A07
Piston	HN125A08
External Cylinder	HN125A09
Guided Sleeve	HN125A10
"O" Ring of Stop Ring	HN125A11
Stop Ring	HN125A12
Breakout Ring of Drive Chuck	HN125A13
Drive Chuck	HN125A14
Retainer	HN125A15
Drill Bit	HN125A16



Available DTH BIT selection

Face Shape Selection

Concave



Suitable for all-round rock formation, especially for medium hard and homogeneous rock formations. Excellent control over hole deviation.

Convex



Suitable for soft to a medium hard rock formation. Non-abrasive rock formations. High penetration rate.

Flat Face



Suitable for hard and abrasive rock formations. Hard penetration rates and resistance to steel wash.

Carbide Button Shape Selection



Domed/Spherical buttons
Suitable for Abrasive and hard formation.



Parabolic/Semi Ballistic buttons
for medium abrasive and hard formation.



Ballistic buttons
Suitable for medium abrasive and medium hard formation. They also can be used as gauge buttons for soft rock.

3 inch DTH bit- The data is referenced by DHD3.5 flat face bit.



IR DHD3.5 (8 Spline)



M30 (8 Spline)



COP32 (8 Spline)



QL30/COP34 (8 Spline)



BR 3 (6 Spline)

SPECIFICATIONS

BIT DIAMETER		Flushing holes No. x Button Dia (mm)	No. x Button Dia. mm		Weight (kg)	Part No
mm	inch		Gauge Buttons	Front Buttons		
90	3 1/2"	2 x Ø 14	6 x Ø 14	4 x Ø 12	4.5	HD35-90
92	3 5/8"	2 x Ø 14	6 x Ø 14	4 x Ø 12	4.6	HD35-92
95	3 3/4"	2 x Ø 14	6 x Ø 14	4 x Ø 13	4.7	HD35-95
100	3 15/16"	2 x Ø 14	6 x Ø 14	5 x Ø 13	4.8	HD35-100
105	4 1/8"	2 x Ø 14	6 x Ø 14	5 x Ø 13	5	HD35-105
110	4 5/16"	2 x Ø 14	8 x Ø 14	5 x Ø 13	5.5	HD35-110

4 inch DTH bit - The data is referenced by DHD340A flat face bit.



SPECIFICATIONS

BIT DIAMETER		Flushing holes No. x Button Dia (mm)	No. x Button Dia. mm		Weight (kg)	Part No
mm	inch		Gauge Buttons	Front Buttons		
105	4 1/8"	2 x Ø 18	6 x Ø 14	5 x Ø 13	7.5	HD45-105
110	4 5/16"	2 x Ø 18	7 x Ø 14	6 x Ø 13	7.8	HD45-110
115	4 1/2"	2 x Ø 18	7 x Ø 14	7 x Ø 13	8.5	HD45-115
120	4 3/4"	2 x Ø 18	8 x Ø 14	7 x Ø 13	8.8	HD45-120
125	4 15/16"	2 x Ø 18	8 x Ø 14	7 x Ø 13	9	HD45-125
130	5 1/8"	2 x Ø 18	8 x Ø 14	7 x Ø 14	9.4	HD45-130

5 inch DTH bit - The data is referenced by DHD350R flat face bit.



DHD350R/COP54 (8 Spline)



M50 (12 Spline)



SD5 (8 Spline)

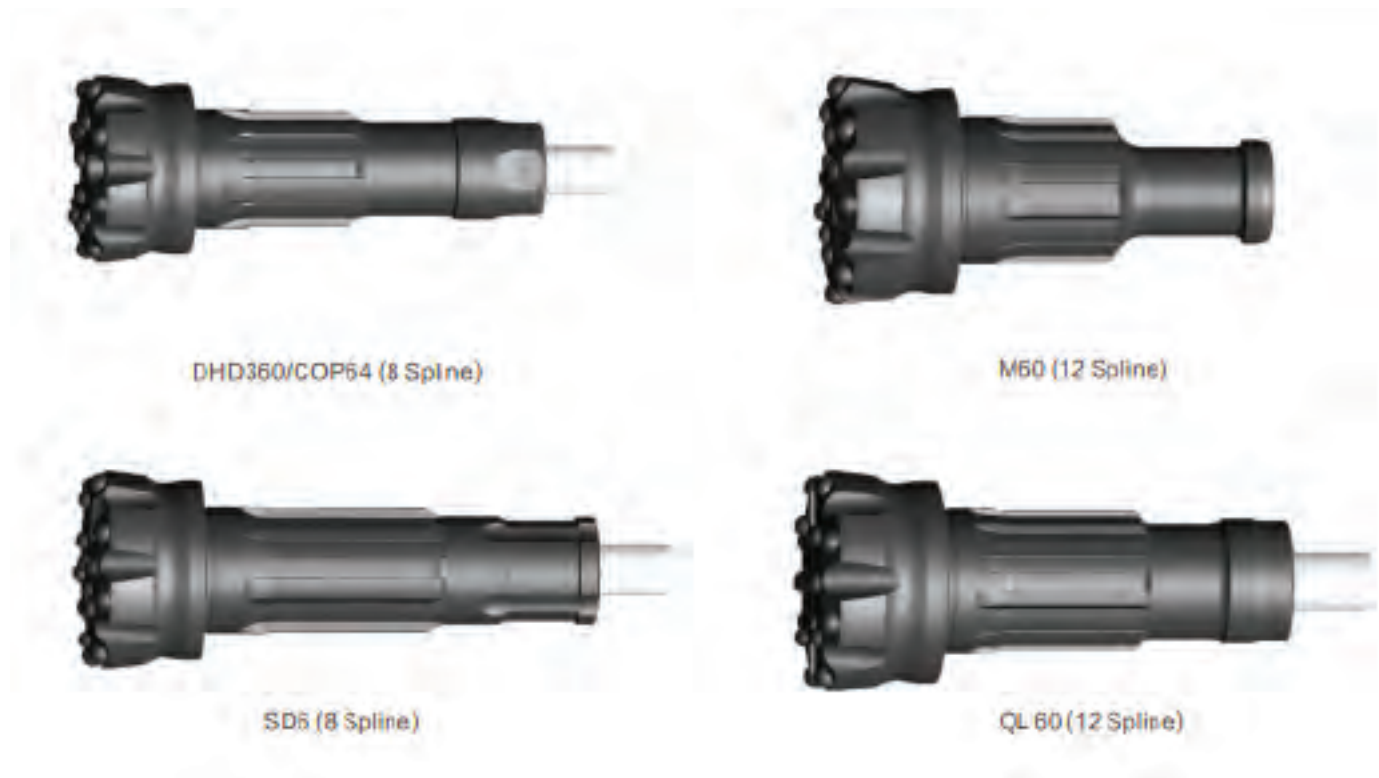


QL50 (12 Spline)

SPECIFICATIONS

BIT DIAMETER		Flushing holes No. x Button Dia (mm)	No. x Button Dia. mm		Weight (kg)	Part No
mm	inch		Gauge Buttons	Front Buttons		
130	5 1/8"	2 x Ø 20	7 x Ø 16	7 x Ø 14	15	HD55-130
135	5 1/4"	2 x Ø 20	7 x Ø 18	7 x Ø 14	15.5	HD55-135
140	5 1/2"	2 x Ø 20	8 x Ø 16	8 x Ø 14	16	HD55-140
146	5 3/4"	2 x Ø 20	8 x Ø 18	8 x Ø 15	16.5	HD55-146
150	5 7/8"	2 x Ø 20	8 x Ø 18	8 x Ø 15	16.7	HD55-150
152	6"	2 x Ø 20	8 x Ø 18	8 x Ø 15	16.8	HD55-152
156	6 1/8"	2 x Ø 20	8 x Ø 18	8 x Ø 16	17	HD55-156

6 inch DTH bit - The data is referenced by DHD360 concave face bit.



SPECIFICATIONS

BIT DIAMETER		Flushing holes No. x Button Dia (mm)	No. x Button Dia. mm		Weight (kg)	Part No
mm	inch		Gauge Buttons	Front Buttons		
152	6"	2 x Ø 26	8 x Ø 18	4 x Ø 16 + 4 x Ø 14	23	HD65-152
156	6 1/8"	2 x Ø 26	8 x Ø 18	4 x Ø 16 + 4 x Ø 14	23.5	HD65-156
160	6 5/16"	2 x Ø 26	8 x Ø 18	4 x Ø 16 + 4 x Ø 14	23.5	HD65-160
165	6 1/2"	2 x Ø 26	8 x Ø 18	8 x Ø 16	24	HD65-165
171	6 3/4"	2 x Ø 26	8 x Ø 18	10 x Ø 16	25	HD65-171
185	7 1/4"	3 x Ø 22	9 x Ø 18	10 x Ø 16	27	HD65-185
190	7 1/2"	2 x Ø 26	10 x Ø 18	13 x Ø 16	28	HD65-190
203	8"	2 x Ø 26	10 x Ø 18	14 x Ø 16	31	HD65-203

8 inch DTH bit - The data is referenced by DHD380 concave face bit.



SPECIFICATIONS

BIT DIAMETER		Flushing holes No. x Button Dia (mm)	No. x Button Dia. mm		Weight (kg)	Part No
mm	inch		Gauge Buttons	Front Buttons		
200	7 7/8"	2 x Ø 30	10 x Ø 18	8 x Ø 18 + 6 x Ø 16	46	HD85-200
203	8"	2 x Ø 30	10 x Ø 18	8 x Ø 18 + 6 x Ø 16	47	HD85-203
216	8 1/2"	2 x Ø 30	10 x Ø 18	8 x Ø 18 + 6 x Ø 16	53	HD85-216
219	8 5/8"	2 x Ø 30	10 x Ø 18	8 x Ø 18 + 6 x Ø 16	54	HD85-219
222	8 3/4"	2 x Ø 30	10 x Ø 18	8 x Ø 18 + 6 x Ø 16	55	HD85-222
225	8 7/8"	2 x Ø 30	10 x Ø 18	8 x Ø 18 + 6 x Ø 16	56	HD85-225
229	9"	2 x Ø 30	10 x Ø 18	8 x Ø 18 + 7 x Ø 16	57	HD85-229
235	9 1/4"	2 x Ø 30	10 x Ø 18	20 x Ø 16	58	HD85-235
241	9 1/2"	2 x Ø 30	12 x Ø 18	20 x Ø 16	58	HD85-241
254	10"	2 x Ø 30	12 x Ø 19	8 x Ø 18 + 18 x Ø 16	61	HD85-254
270	10 5/8"	2 x Ø 30	12 x Ø 19	8 x Ø 18 + 19 x Ø 16	62	HD85-270
280	11"	3 x Ø 26	12 x Ø 19	9 x Ø 18 + 21 x Ø 16	67	HD85-280

10 inch DTH bit - The data is referenced by SD10 concave face bit.



SPECIFICATIONS

BIT DIAMETER		Flushing holes No. x Button Dia (mm)	No. x Button Dia. mm		Weight (kg)	Part No
mm	inch		Gauge Buttons	Front Buttons		
254	10"	2 x Ø 30	12 x Ø 19	8 x Ø 18 + 18 x Ø 16	85	HD10-254
280	11"	3 x Ø 26	12 x Ø 19	9 x Ø 18 + 20 x Ø 16	91	HD10-280
295	11 5/8"	3 x Ø 26	15 x Ø 19	27 x Ø 18 + 9 x Ø 16	95	HD10-295
305	12"	3 x Ø 26	15 x Ø 19	27 x Ø 18 + 9 x Ø 16	97	HD10-305
311	12 1/4"	3 x Ø 26	15 x Ø 19	27 x Ø 18 + 9 x Ø 16	98	HD10-311
315	12 3/8"	3 x Ø 26	15 x Ø 19	27 x Ø 18 + 9 x Ø 16	101	HD10-315
330	13"	3 x Ø 26	15 x Ø 19	27 x Ø 18 + 9 x Ø 16	114	HD10-330

12 inch DTH bit- The data is referenced by SD12 concave face bit.



SPECIFICATIONS

BIT DIAMETER		Flushing holes No. x Button Dia (mm)	No. x Button Dia. mm		Weight (kg)	Part No
mm	inch		Gauge Buttons	Front Buttons		
305	12"	3 x Ø 32	15 x Ø 19	27 x Ø 18 + 9 x Ø 16	130	HD12-305
311	12 1/4"	3 x Ø 32	15 x Ø 19	27 x Ø 18 + 9 x Ø 16	132	HD12-311
330	13"	3 x Ø 32	15 x Ø 19 + 12 x Ø 19	27 x Ø 18 + 16 x Ø 16	145	HD12-330
350	13 3/4"	3 x Ø 32	15 x Ø 19 + 12 x Ø 19	28 x Ø 18 + 20 x Ø 16	158	HD12-350
356	14"	4 x Ø 28	16 x Ø 19 + 16 x Ø 19	28 x Ø 18 + 20 x Ø 16	162	HD12-356
381	15"	4 x Ø 28	16 x Ø 19 + 12 x Ø 19	42 x Ø 18	187	HD12-381

DTH drill pipe

OUTER DIAMETER		Thread	Wall thickness	Wall thickness	Length
mm	inch		mm	mm	mm
76	3"	API 2 3/8" REG	6.3mm	8mm	1000-6000mm
89	3 1/2"	API 2 7/8" REG	6.3mm	8mm	1000-6000mm
102	4"	API 3 1/2" REG	6.3mm	8mm	1500-6000mm
114	4 1/2"	API 4 1/2" REG	8mm	10mm	1500-9000mm
127	5"	2 3/8" IF	10mm	12mm	1500-9000mm
140	5 1/2"	2 7/8" IF	14mm	19mm	3000-12000mm
		3 1/2" IF			
		3 1/2" BECO			
		4 1/2" BECO			

RC HAMMERS

Features & Characteristics

Reverse Circulation hammer (RC hammer) is our most advanced product, used in deep hole exploration drilling and mining ore grade control, etc.

- Reference the design and production experience of conventional DTH hammer and combine the operating characteristics of RC hammer; internal structure design is optimized to ensure ideal energy transfer and high drilling speed as well as steady sampling.
- Simple internal structure and rigid components ensure long using life and easy maintenance of the hammer.
- Sample tube is integrative designed and can be placed without disassembling of the hammer.
With carburizing treatment, the sample tube has good wear resistance.
- RC bit has patented design. One hammer could drill different size of holes just by replacing different size bits, and ensure no contamination of the sample as well.
- In difficult conditions such as loose soil, hard rock formation or plenty of water exists, sampling can be done well.



Hammer	Bit Shank	Hole Range	External Diameter	Length (without bit)	Weight	Connection Thread	Working Pressure
		(mm)	(mm)	(mm)	(Kg)	(Inch)	(Mpa)
RC3-E531	RE531	84-100	81	1069	29	3" Remet	1.5-3.5Mpa



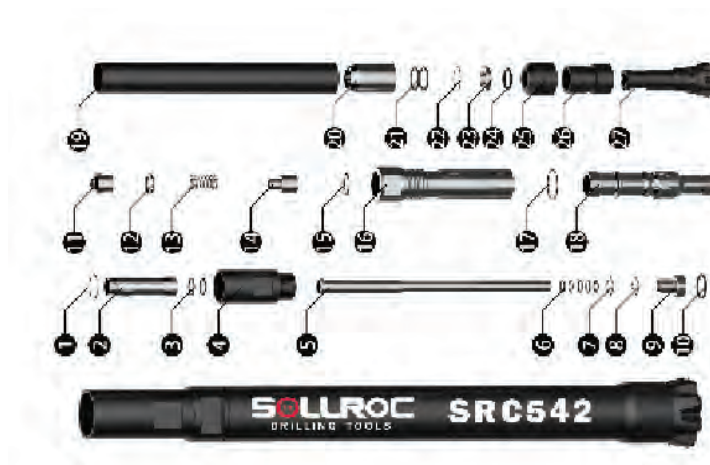
Hammer	Bit Shank	Hole Range	External Diameter	Length (without bit)	Weight	Connection Thread	Working Pressure
		(mm)	(mm)	(mm)	(Kg)	(Inch)	(Mpa)
RC3.5-Y	RC3.5Y	98-115	94	1184	44	3" Remet	1.5-3.5Mpa



Hammer	Bit Shank	Hole Range	External Diameter	Length (without bit)	Weight	Connection Thread	Working Pressure
		(mm)	(mm)	(mm)	(Kg)	(Inch)	(Mpa)
RC4-E004	RE004	111-127	107	1252	52	3.5" / 4" Remet	1.5-3.5Mpa
						4" Metzke	



Hammer	Bit Shank	Hole Range	External Diameter	Length (without bit)	Weight	Connection Thread	Working Pressure
		(mm)	(mm)	(mm)	(Kg)	(Inch)	(Mpa)
RC4.5-E542	RE542	113-130	109.5	1191	57	3.5" / 4" Remet	1.5-3.5Mpa
						4" Metzke	



Hammer	Bit Shank	Hole Range	External Diameter	Length (without bit)	Weight	Connection Thread	Working Pressure
		(mm)	(mm)	(mm)	(Kg)	(Inch)	(Mpa)
RC4.5-E543	RE543	120-135	116	1191	63	3.5" / 4" Remet	1.5-3.5Mpa
						4" Metzke	



Hammer	Bit Shank	Hole Range	External Diameter	Length (without bit)	Weight	Connection Thread	Working Pressure
		(mm)	(mm)	(mm)	(Kg)	(Inch)	(Mpa)
RC4.5-E545	RE545	122-135	117.5	1261	65	4" / 4.5" Remet	1.5-3.5Mpa
						4" / 4.5" Metzke	



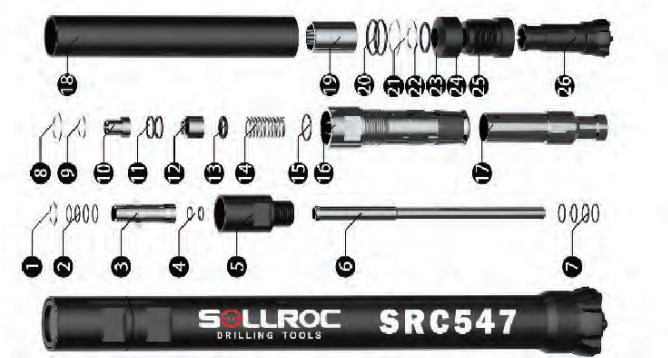
Hammer	Bit Shank	Hole Range	Extern al Diame ter	Length (without bit)	Weight	Connection Thread	Working Pressure
		(mm)	(mm)	(mm)	(Kg)	(Inch)	(Mpa)
RC5-P40	PR40	124-142	120.5	1362	80.5	3.5" / 4.5"Remet 3.5" / 4.5"Metzke	1.5-3.5Mpa



Hammer	Bit Shank	Hole Range	Extern al Diame ter	Length (without bit)	Weight	Connection Thread	Working Pressure
		(mm)	(mm)	(mm)	(Kg)	(Inch)	(Mpa)
RC5.5-P52/P52R	PR52/P R52R	126-142	121	1227	68.5	4" / 4.5"Remet	1.5-3.5Mpa
						4" / 4.5"Metzke	



Hammer	Bit Shank	Hole Range	Extern al Diamo ter	Length (without bit)	Weight	Connection Thread	Working Pressure
		(mm)	(mm)	(mm)	(Kg)	(Inch)	(Mpa)
RC5.5-E547	RE547	130-146	124.5	1270	74	4.5" Remet	1.5-3.5Mpa
						4.5"Metzke	



Hammer	Bit Shank	Hole Range	Extern al Diamo ter	Length (without bit)	Weight	Connection Thread	Working Pressure
		(mm)	(mm)	(mm)	(Kg)	(Inch)	(Mpa)
RC5.5-P54/P54R	PR54	135-150	130	1294	84.5	4.5"Remet 4.5"Metzke	1.5-3.5Mpa



Hammer	Bit Shank	Hole Range	Extern al Diamo ter	Length (without bit)	Weight	Connection Thread	Working Pressure
		(mm)	(mm)	(mm)	(Kg)	(Inch)	(Mpa)
RC5.5-M5456	MX5456	136-150	132	1362	90	4.5"Remet 4.5"Metzke	1.5-3.5Mpa

Features & Characteristics


















Uses higher grade carbides for longer life Minimizes hole erosion in fragile formations Drills faster through soft formations with less blockages Drills straighter through consolidated and unconsolidated formations.

RC bits Model RC3-E531 for shank RE531								
Diameter		No. x Button diameter		Button angle	Flushing holes	Shroud Dia	Weight	Part No.
		mm				mm	(kg)	
mm	inch	Gauge Button	Front Button					
86	3 3/8	6 x 12mm	5 x 12mm	35	2	84	6	RC3-E531-86
89	3 1/2	8 x 12mm	5 x 12mm	35	2	87	6.1	RC3-E531-89
95	3 3/4	8 x 12mm	6 x 12mm	35	2	93	6.3	RC3-E531-95
102	4	8 x 12mm	6 x 12mm	35	2	100	6.5	RC3-E531-102
RC bits Model RC3.5-Y for shank RC3.5Y								
Diameter		No. x Button diameter		Button angle	Flushing holes	Shroud Dia	Weight	Part No.
		mm				mm	(kg)	
mm	inch	Gauge Button	Front Button					
92	3 5/8	6 x 14mm	6 x 12mm	35	2	90	6.1	RC3.5Y-92
95	3 3/4	6 x 14mm	6 x 12mm	35	2	93	6.3	RC3.5Y-95
RC bits Model RC4-E004 for shank RE004								
Diameter		No x Button diameter		Button angle	Flushing holes	Shroud Dia	Weight	Part No.
		mm				mm	(kg)	
mm	inch	Gauge Button	Front Button					
114	4 1/2	8 x 14mm	8 x 13mm	35	2	112	11.8	RC4-E004-114
118	4 5/8	8 x 14mm	8 x 13mm	35	2	116	12	RC4-E004-118
121	4 3/4	8 x 14mm	8 x 13mm	35	2	119	12.4	RC4-E004-121
127	5	8 x 14mm	8 x 13mm	35	2	125	12.8	RC4-E004-127
RC bits Model RC4.5-E542 for shank RE542								
Diameter		No x Button diameter		Button angle	Flushing holes	Shroud Dia	Weight	Part No.
		mm				mm	(kg)	
mm	inch	Gauge Button	Front Button					
121	4 3/4	8 x 14mm	8 x 13mm	35	2	119	10.7	RC4.5-E542-121
124	4 7/8	8 x 14mm	8 x 13mm	35	2	122	10.9	RC4.5-E542-124
127	5	8 x 14mm	8 x 14mm	35	2	125	11.2	RC4.5-E542-127
130	5 1/8	8 x 16mm	8 x 14mm	35	2	128	11.5	RC4.5-E542-130

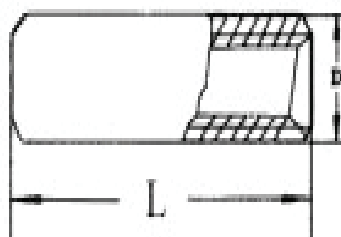
RC bits Model RC4.5-E543 for shank RE543								
Diameter		No x Button diameter		Button angle	Flushing holes	Shroud Dia mm	Weight	Part No.
		mm					(kg)	
mm	inch	Gauge Button	Front Button					
124	4 7/8	8 x 14mm	8 x 13mm	35	2	122	11	RC4.5-E543-124
127	5	8 x 14mm	8 x 14mm	35	2	125	11.2	RC4.5-E543-127
130	5 1/8	8 x 16mm	8 x 14mm	35	2	128	11.4	RC4.5-E543-130
133	5 1/4	8 x 16mm	9 x 14mm	35	2	131	11.7	RC4.5-E543-133
RC bits Model RC5-E545 for shank RE545								
Diameter		No x Button diameter		Button angle	Flushing holes	Shroud Dia mm	Weight	Part No.
		mm					(kg)	
mm	inch	Gauge Button	Front Button					
124	4 7/8	8 x 14mm	8 x 13mm	35	2	122	11	RC5-E545-124
127	5	8 x 14mm	8 x 14mm	35	2	125	11.2	RC5-E545-127
133	5 1/4	8 x 16mm	9 x 14mm	35	2	131	11.7	RC5-E545-133
136	5 3/8	8 x 16mm	6x16+3x14	35	2	134	12	RC5-E545-136
RC bits Model RC5-P40 for shank PR40								
Diameter		No x Button diameter		Button angle	Flushing holes	Shroud Dia	Weight	Part No
		mm				mm	(kg)	
mm	inch	Gauge Button	Front Button					
124	4 7/8	8 x 14mm	8 x 13mm	35	2	122	14.5	RC5-P40-124
127	5	8 x 14mm	8 x 14mm	35	2	125	14.7	RC5-P40-127
130	5 1/8	8 x 16mm	8 x 14mm	35	2	128	14.9	RC5-P40-130
133	5 1/4	8 x 16mm	6x14+3x14	35	2	131	15	RC5-P40-133
138	5 7/16	8 x 16mm	6x16+3x14	35	2	136	15.8	RC5-P40-138
140	5 1/2	8 x 16mm	6x16+3x14	35	2	138	16	RC5-P40-140
RC bits Model RC5.5-P52/P52R for shank PR52/PR52R								
Diameter		No x Button diameter		Button angle	Flushing holes	Shroud Dia	Weight	Part No.
		mm				mm	(kg)	
mm	inch	Gauge Button	Front Button					
133	5 1/4	8 x 16mm	6x14+3x14	35	2	131	16.9	RC5.5-P52-133
136	5 3/8	8 x 16mm	6x16+3x14	35	2	134	17.1	RC5.5-P52-136
140	5 1/2	8 x 16mm	6x16+3x14	35	2	138	17.2	RC5.5-P52-140
143	5 5/8	8 x 16mm	6x16+3x14	35	2	141	17.3	RC5.5-P52-143














RC bits Model RC5.5-E547 for shank RE547								
Diameter		No x Button diameter		Button angle	Flushing holes	Shroud Dia mm	Weight	Part No
		mm					(kg)	
mm	inch	Gauge Button	Front Button					
136	5 3/8	8 x 16mm	6x16+3x14	35	2	134	14.2	RC5.5-E547-136
140	5 1/2	8 x 16mm	6x16+3x14	35	2	138	14.5	RC5.5-E547-140
143	5 5/8	8 x 16mm	6x16+3x14	35	2	141	14.7	RC5.5-E547-143
146	5 3/4	8 x 16mm	6x16+3x14	35	2	144	15	RC5.5-E547-146
RC bits Model RC5.5-P54/P54R for shank PR54/PR54R								
Diameter		No x Button diameter		Button angle	Flushing holes	Shroud Dia mm	Weight	Part No
		mm					(kg)	
mm	inch	Gauge Buttons	Front Buttons					
136	5 3/8	8 x 16mm	6x16+3x14	35	2	134	19	RC5.5-P54-136
140	5 1/2	8 x 16mm	6x16+3x14	35	2	138	19.3	RC5.5-P54-140
143	5 5/8	8 x 16mm	6x16+3x14	35	2	141	19.5	RC5.5-P54-143
146	5 3/4	8 x 16mm	6x16+3x14	35	2	144	19.6	RC5.5-P54-146

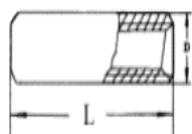


T38 Drill bits	Diameter		Tip Size (mm)			Flushing Hole No.		Weight	Part No.	
	mm	inch	Front	Gauge	Angle	Side	Front			
NORMAL THREAD										
	64	2 1/2"	11x3	12x6	35°	3		1.8	N64T38-311/612	
	64	2 1/2"	10x4	10x8	40°	2		1.6	N64T38-410/810	
	64	2 1/2"	10x4	11x6	35°	3		1.7	N64T38-410/611	
	70	2 3/4"	11x4	11x8	40°	2		1.9	N70T38-411/811	
	70	2 3/4"	10x5	11x8	30°	4		1.9	N70T38-510/811	
	70	2 3/4"	10x4	12x6	35°	3		1.8	N70T38-411/612	
	76	3"	11x4	11x8	40°	2		2.4	N76T38-411/811	
	76	3"	11x5	13x8	35°	2	1	2.4	N76T38-511/813	
	76	3"	11x4	12x6	35°	3	1	2.6	N76T38-411/612	
	76	3"	11x5	12x8	35°	4		2.6	N76T38-511/812	
	76	3"	11x5	11x8	40°	4		2.6	N76T38-511/811	
	89	3 1/2"	13x4	13x8	40°	4		3.3	N89T38-413/813	
	89	3 1/2"	13x5	13x8	35°	2		3.3	N89T38-513/813	
	89	3 1/2"	11x6	12x8	35°	2		3.3	N89T38-611/812	
	89	3 1/2"	11x5	13x6	35°	3	1	3.3	N89T38-511/613	
	89	3 1/2"	11x5	13x8	35°	4		3.3	N89T38-511/813	
	89	3 1/2"	13x5	13x8	35°	4		3.3	N89T38-511/813	
	89	3 1/2"	13x5	13x8	35°	4		3.3	N89T38-513/813	
RETRAC THREAD										
	64	2 1/2"	10x4	10x8	30°	2		2.2	R64T38-410/810	
	64	2 1/2"	10x4	11x6	35°	3		2.2	R64T38-410/611	
	70	2 3/4"	11x4	13x6	40°	2		2.4	R70T38-411/613	
	70	2 3/4"	10x4	11x8	35°	3		2.4	R70T38-410/811	
	70	2 3/4"	10x5	11x8	35°	4		2.4	R70T38-510/811	
	76	3"	11x4	11x8	40°	2		3.3	R76T38-411/811	
	76	3"	11x5	11x8	35°	4		3.3	R76T38-511/811	
	76	3"	11x5	12x8	35°	4		3.3	R76T38-511/812	
	89	3 1/2"	13x4	13x8	40°	2		4.8	R89T38-413/813	
	89	3 1/2"	13x5	13x8	35°	2		4.8	R89T38-513/813	
	89	3 1/2"	11x5	13x8	35°	4		4.8	R89T38-511/813	
	89	3 1/2"	13x5	13x8	35°	4		4.8	R89T38-513/813	
X-BITS										
	64	2 1/2"			25x13	2		1.6	X64T38-25/13	
	76	3"			25x13	3		1.7	X76T38-25/13	
	89	3 1/2"			25x13	2		1.9	X89T38-25/13	
Domed bits for reaming										
	102		4	13x1	13x16	35°	2	2	3.8	102T38
	127		5	13x1	13x18	35°	1	3	5.2	127T38

T38 Couplings	Length		Diameter		THREAD	Weight	Part No.
	mm	inch	mm	inch			
	190	7 1/2"	55	2 5/32"	T38	2.1	55T38-L190



T45 Drill bits	Diameter		Tip Size (mm)			Flushing Hole No.		Weight	Part No.
	mm	inch	Front	Gauge	Angle	Side	Front		
NORMAL THREAD									
	70	2 3/4"	11 x 4	11x8	40°	2		2.3	N70T45-411/811
	70	2 3/4"	11 x 3, 9 x 1	11x6	35°	3		2.2	N70T45-411/611
	70	1 1/2"	10 x 5	11x8	35°	4		2.2	N70T45-510/811
	76	3"	11 x 4	11x8	40°	2		2.6	N76T45-411/811
	76	3"	11 x 5	12x8	35°	2	1	2.6	N76T45-511/812
	76	3"	11 x 4	13x6	35°	3		2.4	N76T45-511/613
	76	3"	11 x 5	12x8	35°	4		2.6	N76T45-511/812
	89	3 1/2"	13 x 4	13x8	40°	2		4.6	N89T45-413/813
	89	3 1/2"	11 x 5	13x6	35°	2		4.6	N89T45-511/613
	89	3 1/2"	11 x 5	13x6	35°	3	1	4.1	N89T45-511/613
	89	3 1/2"	11 x 5	12x8	35°	4		4.6	N89T45-511/812
	89	3 1/2"	13 x 4	13x8	35°	4		4.6	N89T45-413/813
	102	4	14 x 5	14x8	40°	2		5	N102T45-514/814
	102	4	13 x 6	16x8	40°	2	1	5	N102T45-613/816
	102	4	13 x 5	14x6	35°	3	1	4.5	N102T45-513/614
	102	4	13 x 5	14x8	35°	4		4.5	N102T45-513/814
	102	4	13 x 6	13x8	35°	4	1	4.5	N102T45-613/813
RETRAC THREAD									
	70	2 3/4"	11 x 4	11x8	40°	2		2.5	R70T45-411/811
	70	2 3/4"	11 x 3, 9 x 1	11x6	35°	3		2.5	R70T45-411/611
	70	2 3/4"	10 x 5	11x8	35°	4		2.5	R70T45-510/811
	76	3"	11 x 4	11x8	40°	2		3.2	R76T45-411/811
	76	3"	11 x 5	12x8	35°	2	1	3.2	R76T45-511/812
	76	3"	11 x 4	13x6	35°	3		3.2	R76T45-411/613
	76	3"	11 x 5	11x8	35°	4		3.2	R76T45-511/811
	76	3"	11 x 5	12x8	35°	4		3.2	R76T45-511/812
	89	3 1/2"	13 x 4	13x8	40°	2		5.4	R89T45-413/813
	89	3 1/2"	11 x 6	12x8	35°	2		5.4	R89T45-611/812
	89	3 1/2"	11 x 5	13x6	35°	3	1	5.4	R89T45-511/613
	89	3 1/2"	11 x 5	13x6	35°	3	1	5.4	R89T45-511/613
	89	3 1/2"	11 x 5	12x8	35°	4		5.4	R89T45-511/812
	89	3 1/2"	13 x 5	13x8	35°	4		5.4	R89T45-513/813
	102	4	14x5	14x8	40°	2		6.8	R102T45-514/814
	102	4	13x6	18x8	40°	2	1	6.8	R102T45-613/816
	102	4	13x3,13x2	14x6	35°	3	1	6.8	R102T45-513/614
	102	4	13x4,13x1	14x8	35°	4		6.8	R102T45-513/814
	102	4	13x4,13x2	13x8	35°	4	1	6.8	R102T45-613/813



Domed bits for reaming								
127	5	13x1	13x18	35°	3	1	6	127T45
152	6	14x2	14x18	35°	3	1	10.6	152T45

T45 Couplings	Length		Diameter		THREAD	Weight	Part No.
	mm	inch	mm	inch			
	210	8 1/4"	63	2 33/64"	T45	3	63T45-L210
	210	8 1/4"	66	2 37/64"	T45	3.3	66T45-L210

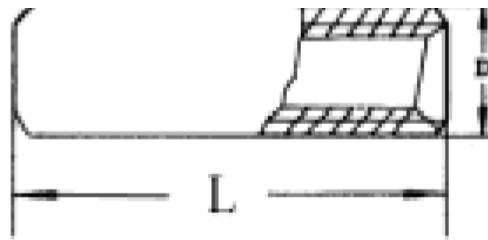
T51 Drill bits	Diameter		Tip Size (mm)			Flushing Hole No.		Weight	Part No.
	mm	inch	Front	Gauge	Angle	Side	Front		
NORMAL THREAD									
	89	3 1/2"	13x4	13x8	40°	2		4.9	N89T51-413/813
	89	3 1/2"	13x5	13x8	35°	2	1	4.9	N89T51-513/813
	89	3 1/2"	11x3,11x2	13x6	35°	4		4.9	N89T51-511/613
	89	3 1/2"	11x4,11x1	13x8	35°	4		4.9	N89T51-511/813
	89	3 1/2"	13x4,13x1	13x8	35°	4		4.9	N89T51-513/813
	102	4"	14x4	14x8	40°	2		5.8	N102T51-414/814
	102	4"	13x6	16x8	35°	2	1	5.8	N102T51-613/816
	102	4"	13x3,13x2	14x6	35°	3	1	5.8	N102T51-513/614
	102	4"	13x4,13x1	14x8	35°	4		5.8	N102T51-513/814
	102	4"	13x4,13x2	13x8	35°	4	1	5.8	N102T51-613/813
	115	4 1/2"	14x6	14x8	35°	2		6.8	N115T51-614/814
	115	4 1/2"	14x6	16x8	35°	2		6.8	N115T51-614/816
	115	4 1/2"	13x4,13x2	14x8	35°	4		6.8	N115T51-613/814
	115	4 1/2"	13x4,13x3	14x8	35°	4		6.8	N115T51-713/814
	115	4 1/2"	14x4,14x2	16x8	35°	4		6.8	N115T51-614/816
	127	5"	14x8	16x8	35°	2	1	7.5	N127T51-814/816
	127	5"	16x4,13x2	16x8	35°	4		7.5	N127T51-616/816
	127	5"	14x4,14x3	14x8	35°	4		7.5	N127T51-714/814
RETRAC THREAD									
	89	3 1/2"	13x4	13x8	40°	2		5.3	R89T51-413/813
	89	3 1/2"	13x5	13x8	35°	2	1	5.3	R89T51-513/813
	89	3 1/2"	11x3,11x2	13x6	35°	4		5.3	R89T51-511/613
	89	3 1/2"	11x4,11x1	13x8	35°	4		5.3	R89T51-511/813
	89	3 1/2"	13x4,13x1	13x8	35°	4		5.3	R89T51-513/813
	102	4"	14x4	14x8	40°	2		7.3	R102T51-414/814
	102	4"	13x6	16x8	35°	2	1	7.3	R102T51-613/816
	102	4"	13x4,13x1	14x8	35°	4		7.3	R102T51-513/814
	102	4"	13x4,13x2	13x8	35°	4	1	7.3	R102T51-613/813
	102	4"	13x4,13x1	14x8	35°	4	1	7.3	R102T51-513/814
	115	4 1/2"	14x6	14x8	35°	2		9.8	R115T51-614/814
	115	4 1/2"	14x6	16x8	35°	2		9.8	R115T51-614/816
	115	4 1/2"	13x4,13x2	14x8	35°	4		9.8	R115T51-613/814
	115	4 1/2"	13x4,13x3	14x8	35°	4		9.8	R115T51-713/814
	115	4 1/2"	14x4,14x2	16x8	35°	4		9.8	R115T51-614/816
	127	5"	14x8	16x8	35°	2	1	12	R127T51-814/816
	127	5"	16x4,13x2	16x8	35°	4		12	R127T51-616/816
	127	5"	14x4,14x3	14x8	35°	4		12	R127T51-714/814

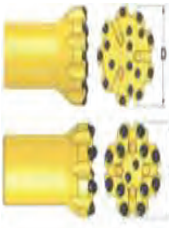
Domed bits for reaming

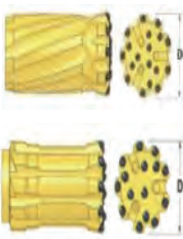








152	6	14x2	14x18	35°	3 1	10.6	152T51
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T51 Couplings	Length		Diameter		THREAD	Weight	Part No.
	mm	inch	mm	inch			
	225	8 7/8"	71	2 51/64"	T51	4.6	71T51-L225
	225	8 7/8"	76	3"	T51	4.8	76T51-L225
	235	9 1/4"	72	2 7/8"	T51	4.7	72T51-L235
	235	9 1/4"	77	3 1/32"	T51	4.9	77T51-L235



T60 Drill bits	Diameter		Tip Size (mm)			Flushing Hole No.		Weight	Part No.
	mm	inch	Front	Gauge	Angle	Side	Front		
NORMAL THREAD									
	92	3 5/8"	13x4, 13x1	13x8	35°	4		5.3	N92T60-513/813
	96	3 3/4"	13x4, 13x1	14x8	35°	4		5.6	N92T60-513/814
	102	4"	11x9	13x9	35°	3		6	N102T60-911/913
	115	4 1/2"	12x10	14x9	35°	3		6.8	N115T60-012/914
	127	5"	13x10	14x9	35°	3		7.5	N127T60-013/914
	140	5 1/2"	14x10	16x9	35°	3		9	N140T60-014/916
	152	6"	14x12	16x9	35°	3		10.6	N152T60-214/916

RETRAC THREAD									
	92	3 5/8"	12x9	12x9	40°	2		5.4	R92T60-912/912
	96	3 3/4"	12x9	12x9	40°	2		6.3	R92T60-912/912
	102	4"	12x10	13x9	40°	2		7.3	R102T60-012/913
	115	4 1/2"	12x10	14x9	35°	3		9.8	R115T60-012/914
	118	4 5/8"	13x6	16x9	35°	3		10	R118T60-613/916
	127	5"	13x10	14x9	35°	3		12	R127T60-013/914
	140	5 1/2"	14x10	16x9	35°	3		14	R140T60-014/916
	152	6"	14x12	16x9	35°	3		16	R152T60-214/916

ST58 Drill bits	Diameter		Tip Size (mm)			Flushing Hole No.		Weight	Part No.
	mm	inch	Front	Gauge	Angle	Side	Front		
NORMAL THREAD									
	89	3 1/2"	12x6	12x8	35°	2	1	4.1	N89T58-513/813
	89	3 1/2"	13x6	13x8	35°	2	1	4.1	N89T58-613/813
	89	3 1/2"	13x4, 13x1	13x8	35°	4		4.1	N89T58-513/813
	89	3 1/2"	12x4, 12x2	12x8	35°	4		4.1	N89T58-612/812
	95	3 3/4"	13x4, 13x1	14x8	35°	4		4.6	N95T58-513/814
	102	4"	14x6	14x8	35°	2		6	N102T58-614/814
	102	4"	13x6	16x8	35°	2	1	6	N102T58-613/816
	115	4 1/2"	14x6	16x8	35°	2		7	N115T58-614/816
RETRAC THREAD									
	89	3 1/2"	12x6	14x8	35°	2	1	5.1	R89T58-612/814
	89	3 1/2"	13x4, 13x1	13x8	35°	4		5.1	R89T58-513/813
	102	4"	12x7	14x8	35°	2	1	6.5	R102T58-712/814
	115	4 1/2"	14x6	16x8	35°	2		8.5	R115T58-614/816
Domed bits for reaming									
	152	6	16x6	16x9	35°	2	1	13	152T58-616/916
	152	6	14x2	14x8	35°	2	1	10.4	152T58-214/1814

ST68 Drill bits	Diameter		Tip Size (mm)			Flushing Hole No.		Weight	Part No.
	mm	inch	Front	Gauge	Angle	Side	Front		
NORMAL THREAD									
	102	4"	14x6	14x8	35°	2		8.7	N102T68-614/814
	102	4"	12x4,12x4	12x10	35°	4		8.7	N102T68-612/012
	105	4 1/8"	14x6	14x8	35°	2		8.9	N105T68-614/814
	105	4 1/8"	14x4,12x2	14x8	35°	4		8.9	N105T68-612/814
	110	4 3/8"	14x6	16x8	35°	2		9.4	N110T68-614/816
	110	4 3/8"	14x4,14x2	16x8	35°	4		8.9	N110T68-614/816
	115	4 1/2"	14x6	16x8	35°	2		9.6	N115T68-614/816
	115	4 1/2"	14x4,14x2	16x8	35°	4		9.5	N115T68-714/816
	115	4 1/2"	14x4,14x4	14x10	35°	4		9.5	N115T68-614/014
	127	5"	14x8	16x9	35°	3		11	N127T68-814/916
RETRAC THREAD									
	102	4"	12x4,12x4	12x10	35°	4		9.3	R102T68-612/814
	102	4"	14x4,12x2	14x8	35°	4		9.3	R102T68-612/814
	110	4 3/8"	14x6	16x8	35°	2		10	R110T68-614/816
	115	4 1/2"	14x6	16x8	35°	2		10	R115T68-614/816
	127	5"	14x8	16x9	35°	3		15	R127T68-814/916
	140	5 1/2"	14x9	16x9	35°	3		17.8	R140T68-914/916
Domed bits for reaming									
	152	6	16x6	16x9	35°	3		13	152T68-616/916
	152	6	14x2	14x18	35°	3	3	10.4	152T68-214/1814

Button Bits

SKIRT:	Straight (Regular skirt), Retrac and Straightrac (Sprial skirt)
BITS DIAMETER	45mm-152mm
THREAD	R22, R25, R28, R32, R35, R38, T38, T45, T51, T60, ST58,T68
FACE DESIGN	Flat face, drop center, uniform face
BUTTON SELECTION	Spherical and ballistic



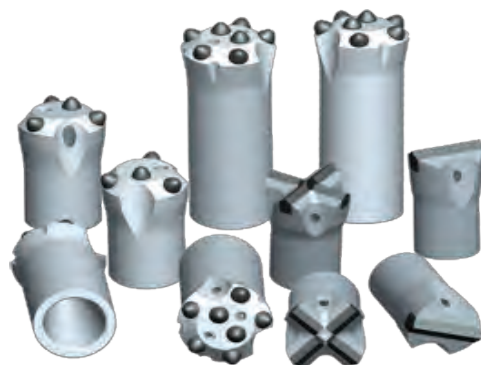
Cross Bits and X Bits

SKIRT:	Straight (Regular skirt) and Retrac
BIT DIAMETER	45mm-127mm
THREAD	R22, R25, R28, R32, R35, R38, T38, T45, T51, T60, ST58,T68



Tapered Bits

BITS DIAMETER	28mm-70mm
DEGREE	4°,6°,7°,11°and 12°
TYPE	Chisel bit, Cross bit and Button bit
SKIRT:	Short or Long Skirt



Coupling Sleeves

THREAD	R22-R38, SR28-SR35, T38-T51, GT60, ST58/68
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Integral Drill Steel

DIAMETER	28mm-41mm
SHANK	H22x108mm, H25x159mm
LENGTH	400mm-4345mm



Core Orientation

1. DeviCore BBT

Continuous core orientation

The DeviCore BBT is the latest core orientation innovation from Devico. Unlike competing products the DeviCore BBT can be supplied with a patent pending scribing system adding a continuous scribe line to the core sample as it enters the inner tube. The DeviCore BBT was developed to be user friendly and efficient, keeping the influence on the daily production rates at a minimum. The kit includes two DeviCore BBT probes with changeable survey tools and a core barrel extension, and is ready to be assembled on the drilling equipment on site. The probes have a valve system in front securing that pump-in time is not affected.

Applications

- Diamond Drilling core orientation
- Down hole orientation
- Geotechnical investigation
- Exploration



Benefits

- Available for sales or rental
- Cost effective core orientation system
- Transferable electronics to other running gear sizes
- Inclination data recorded
- Highly robust and reliable
- High precision system
- Digital results with archived data, no manual results transcription
- QA check
- DeviSoft software easy to manage



Technical Specifications:

SURVEY TOOL

WEIGHT	3.9kg/8.6lbs
LENGTH	410mm/16.1"
MAGNETIC	No
RUNNING GEAR	Integrated
INCLINATION ACCURACY	$\pm 0.1^\circ$
ORIENTATION ACCURACY	$\pm 0.5^\circ$

PDA

TYPE	Nomad
SOFTWARE	DeviSoft
BATTERY LIFE/TYPE	15 hours/Lithium
IP RATING	IP67

2. DeviHead Head

Assembly core orientation tool

The DeviHead is the new and unique core orientation system by Devico. Consisting of a miniature survey instrument small enough to fit inside a core barrel head assembly, the DeviHead offers a revolutionary system fully integrated with the drilling equipment. With the DeviHead no core barrel adjustments are necessary, and core orientation may started or ended at any time without having to retrieve the drill string and core barrel from the drill hole. Utilizing the Devico BBT technology the DeviHead communicates wirelessly with a handheld device without the need of opening any threads. The kit includes two DeviHead units with changeable survey tools and spindle assemblies, and is ready to be used with any standard head assembly on site.

Applications

- Diamond Drilling core orientation
- Down hole orientation
- Geotechnical investigation
- Exploration

Benefits

- Available for sales or rental
- Cost effective core orientation system
- Transferable electronics to other running gear sizes
- Inclination data recorded
- Highly robust and reliable
- High precision system
- Digital results with archived data, no manual results transcription
- QA check
- DeviSoft software easy to manage



Technical Specifications:

SURVEY TOOL

WEIGHT (N-SIZE)	
DIAMETER (N-SIZE)	
LENGTH (N-SIZE)	
MAGNETIC	NO
RUNNING GEAR	Integrated
INCLINATION ACCURACY	±0.5°
ORIENTATION ACCURACY	±0.5°
TOOL FACE ACCURACY	±0.2°
INCLINATION RANGE	-90 to +90°
TEMP RANGE	-15° to +70°C
BATTERY LIFE	Approx. 45 days
BATTERY TYPE	1xCR123a Lithium
PRESSURE	300bar/4350ps
MAXIMUM DEPTH	3000m /9842.52Ft

PDA

TYPE	Smartphone
SOFTWARE	DeviSoft
BATTERY LIFE/TYPE	15 hours/Lithium
IP RATING	IP67

Survey Instruments

1- DeviShot

Magnetic Single/ MultiShot

Magnetic Single/ MultiShot High precision instrument with superior strength DeviShot is available in the standard 35mm diameter or in 30 mm for smaller diameter requirements projects. This rugged instrument measures the drill hole path, in a non-magnetic environment. Magnetically affected data points are flagged red within the software, alerting the user after download of the survey data. Bluetooth communication provides fast data transfer and download. DeviSoft software is both simple and intuitive and is used with both the DeviShot, DeviCore BBT and DeviFlex survey instruments. A long life internal replaceable battery means the DeviShot instrument can remain at the drill site without needing to be charged. The battery is expected to last up to 6 months before it needs to be exchanged.

Applications

- Diamond Drilling Wireline, Pump down or conventional
- Surface Diamond Drilling - Wireline
- Pilot holes
- Directional drilling
- Exploration
- Grade Control
- Resource Definition
- Geotechnical Investigation
- Blast holes
- Grout and control holes

Benefits

- Highly robust, repeatable and reliable
- Simple and intuitive software
- High accuracy
- QA check Azimuth data at the rig
- More cost effective and robust than gyro instruments
- Independent azimuth and dip reading at each station
- Long life battery lasts up to 6 months
- Backed by the unbeatable Devico Repair Guarantee:

www.devico.com/warranty

Technical Specifications:

SURVEY TOOL

WEIGHT	5.6kg/12.60lbs
DIAMETER	35mm/1.38"
LENGTH	1170mm/46.1"
MAGNETIC	Yes
RUNNING GEAR	Integrated
INCLINATION ACCURACY	±0.1°
AZIMUTH ACCURACY	±0.5°
TOOL FACE ACCURACY	±0.2°
INCLINATION RANGE	-90 to +90°
TEMP RANGE	-15° to +70°C
BATTERY LIFE	1200hrs
BATTERY TYPE	2X 3.6V Lithium
PRESSURE	300bar/4350ps
MAXIMUM DEPTH	3000m /9842.52Ft

PDA

TYPE	Nomad
SOFTWARE	DeviSoft
BATTERY LIFE/TIME	15 hours/Lithium
IP RATING	IP67



2- DeviFlex Rapid

Continuous High Speed Non-Magnetic Survey

Gone are the days when the survey tool had to stand still at each survey station to log data. The DeviFlex Rapid can be moved continuously without stopping from start to end of hole, and back again. DeviFlex Rapid is a package consisting the highly popular non-magnetic DeviFlex Auto-Rotate survey instrument, the smart DeviCounter and QA processing software. With these three technologies combined, the user can perform high accuracy surveys at a fraction of the time previously needed. This non-magnetic strain gauge survey tool is not affected by magnetics making it ideal for in-rod surveying, eliminating the guess-work associated with magnetic single/multishot survey instruments.

Applications

- Underground Diamond Drilling Wireline, Pump down or conventional
- Surface Diamond Drilling - Wireline
- Pilot holes
- Exploration
- Grade Control
- Resource Definition
- Geotechnical Investigation
- Suits a large variety of coring rods
- Dip Range (+85° to -85°)



Benefits

- Improved driller safety
- Continuous survey operation
- Inrod surveying – not affected by magnetics
- 17 stage quality assurance check
- Monthly battery recharge (400 hrs use)
- More cost effective and robust than gyro instruments
- • Highly robust and reliable
- • Simple and intuitive software
- • High accuracy
- • Zero drift over time
- • Pause mid survey for up to 12 hours
- • Backed by the unbeatable Devico Repair Guarantee: www.devico.com/warranty

Technical Specifications:

SURVEY TOOL

WEIGHT	20kg /44lbs
DIAMETER	40mm /1.57"
LENGTH	4000mm /13.1ft
MAGNETIC	NO
RUNNING GEAR	Integrated
SURVEY MODES	Continuous and multishot
AUTO-ROTATE	~90°/4m
INCLINATION ACCURACY	±0.2°
DIRECTION ACCURACY	±0.01° per station
TOOL FACE ACCURACY	±0.2°
INCLINATION RANGE	-90 to +90°
TEMP RANGE	-15° to +70°C
BATTERY LIFE	400hrs
BATTERY TYPE	1xCR123a Lithium
PRESSURE	300bar/4350ps
SURVEY ACCURACY	0.3%

PDA

TYPE	Nomad
SOFTWARE	DeviSoft
BATTERY LIFE/TYPE	15 hours/Lithium
IP RATING	IP67



Rig Alignment

1- DeviSight Surface

True North Azimuth Alignment System The DeviSight is a portable battery operated system designed to make and record highly accurate measurements of True North azimuth, tilt and roll planes at drill sites.

Applications

- Diamond Drilling - Surface
- Reverse Circulation - Surface
- Geotechnical investigation
- Exploration



Benefits

- Available for sales or rental
- The most cost effective Azimuth finder for surface use - north seeking gyro alignment systems are significantly more expensive
- Export coordinates as digital data, no manual transcription
- PDF report for archives and QA
- High precision longitude, latitude and UTM coordinates
- Highly robust and reliable
- High precision system covering all Northern and Southern latitudes
- Glonass and GPS satellites

Technical Specifications:

SURVEY TOOL

DIMENSIONS	32.0 cm x 24.9 cm x 21.7 cm/12.6" x 9.8" x 8.5"
AZIMUTH ACCURACY	0.5° (capable to 0.4°)
TILT AND ROLL ACCURACY	10 sampling per sec.
TYPICAL BATTERY LIFE	11-12 hours (depend on Wi-Fi usage)
CHARGE TIME	3 hours
CHARGER	100-240 VAC

PDA

TYPE	Rugged smartphone
SOFTWARE	None required
BATTERY LIFE/TYPE	15 hours/Lithium
IP RATING	IP67

ONBOARD MANAGEMENT SOFTWARE

POSITION (LAT./LONG.)	30cm
TEMPERATURE RANGE	-40°C to 70°C
MEMORY	8 GB
SATELLITE CONSTELLATIONS	GPS and GLOONASS (GNSS)
WI-FI CONNECTION	Android, iOS
SUPPORTS	MS compatible



2- DeviAligner

Surface & Underground Alignment System

Applications

- Diamond Drilling
- Reverse Circulation
- Geotechnical investigation
- Exploration

Benefits

- Available for sales or rental
- Extremely high accuracy on both azimuth and inclination
- Same accuracy both on surface and underground
- Among the fastest alignment rate in the industry
- No recalibration required over service life
- Report for archives and QA
- Controlled by Android app or web browser
- Highly robust and reliable
- High precision system covering all Northern and Southern latitudes



Technical Specifications:

ALIGNMENT TOOL

DIMENSIONS	32.0 cm x 24.9 cm x 21.7 cm/12.6" x 9.8" x 8.5"
AZIMUTH ACCURACY	0.23° sec lat
TILT AND ROLL ACCURACY	0.1°
TYPICAL BATTERY LIFE	6-12 hours (depend on temperature and number of batteries)
SETTING TIME	5 minutes
BATTERY TYPE	Lithium
CHARGE TIME	3 hours
CHARGER	100-240 VAC
TEMPERATURE (OPERATE)	-20°C to 55°C
TEMPERATURE (STORAGE)	-40°C to 80°C
POSITION	Required
CONNECTION	Android app or web interface

HANDHELD DEVICE

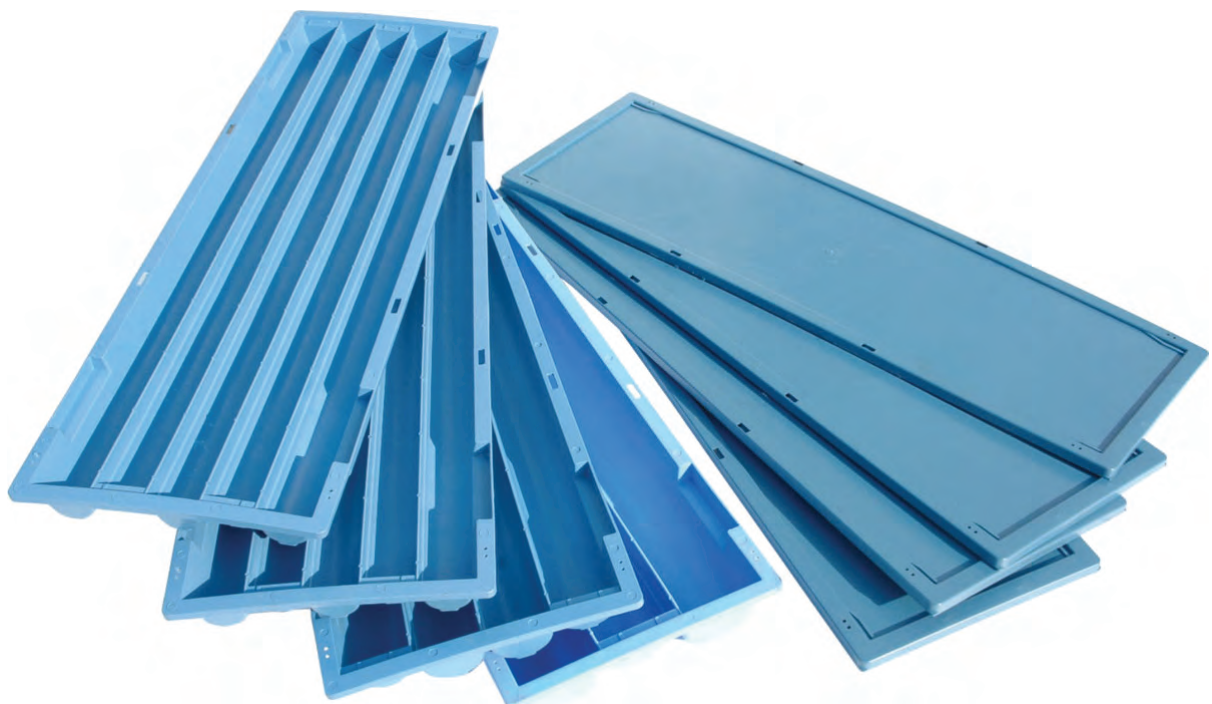
TYPE	Rugged smartphone
SOFTWARE	DeviAligner App
BATTERY LIFE/TYPE	15 hours/Lithium
IP RATING	IP68

Core Tray

Core tray uses highly UV stabilized polypropylene leading to excellent long lasting efficiency which is proven in fields since 2000. Core tray has a resistance of 2,5 years against the sunbeam.

Each core tray is given with a lid and 5 pieces of separators where separators can be easily labeled with a marker.

Easy to carry, Core trays and lids can be easily fit to each other. Beside this, core tray can be stocked and packed easily for transportation.



CORE TRAY

ITEM	PRODUCT NO	DESCRIPTION	CAPACITY (M)	DIMENSION (CM)
1	AD-BL2002	BWL CORE TRAY SET	6 M	5.0X34X106 CM
2	AD-NL2003	NWL CORE TRAY SET	5 M	6.0X34X106 CM
3	AD-HL2004	HWL CORE TRAY SET	4 M	8.0X34X106 CM
4	AD-PL2005	PWL CORE TRAY SET	3 M	10X34X106 CM

PACKING

ITEM	DESCRIPTION	PACKING SIZE	QTY (PC)	GROSS WEIGHT (KG)
1	BWL CORE TRAY	35X75X110	35PC	52KG
2	NWL CORE TRAY	35X80X110	25PC	40KG
3	HWL CORE TRAY	35X85X110	25PC	40KG
4	PWL CORE TRAY	35X85X110	20PC	45KG
5	CORE TRAY LID	35X40X110	25PC	29KG



عدان العالمية للتجارة
ADDAAN INTERNATIONAL
TRADING COMPANY LTD.



3rd Floor - Cordoba Commercial Center
Arafat Road-Al Hamra District,
Jeddah 23323-7558, Saudi Arabia.



+966 12 661 0243



Info@addaaninternational.com
addaaninteranational.com



www.linkedin.com/addaaninternationaltradingco