



DTH HAMMER AND BIT



CHANGSHA TIANHE DRILLING TOOLS AND MACHINERY CO.,LTD



Company Profile



Changsha Tianhe Drilling Tools and Machinery Co., Ltd. was established in 2002 with more than 300 employees and a registered capital of 42.86 million Yuan (USD7.15 million). We have 80 professional technicians, among which 30 of them have over 20 years of experience in research and development in DTH drilling tools. Tianhe is a council member of China Drilling Steel and Drilling Tools Association, the co-founder of China (Changsha) Rock Drilling Industry Technology League, council member of China Heat Treatment Association, Hunan Famous Trademark Enterprise, Hunan High-tech Enterprise, and the research center of Changsha Geotechnical Drilling Equipment Engineering. Tianhe possesses over 30 independent intellectual property patents, including 6 invention patents. Tianhe's Deep-hole Large-diameter DTH Hammer and Bit Series was passed Achievement Certification by the Science and Technology Department of Hunan Province.

Our products are widely used in the areas such as open-pit and underground mining, irrigation, bridge and tunnel, infrastructure, slope anchorage, geological exploration, petrol and natural gas engineering. Our main products include DTH (down-the-hole) hammers and bits with the capacity of drilling holes from 64mm--1020mm in diameter, large diameter and deep hole DTH drilling tools, eccentric and concentric casing drilling systems, reserve circulation and top hammer drilling tools. Tianhe is the largest scale enterprise with the most complete series of rock drilling tools in China, and is now in the leading ranks in the world supported by its long-tested and sophisticated technology.

DTH bit



Face design and carbide button shape



Flat face

Very hard and abrasive rock formation



Convex face

Soft-middle hard rock formation



Concave face

All kinds of rock formation,
especially homogeneous formation

Carbide buttons shape



Spherical

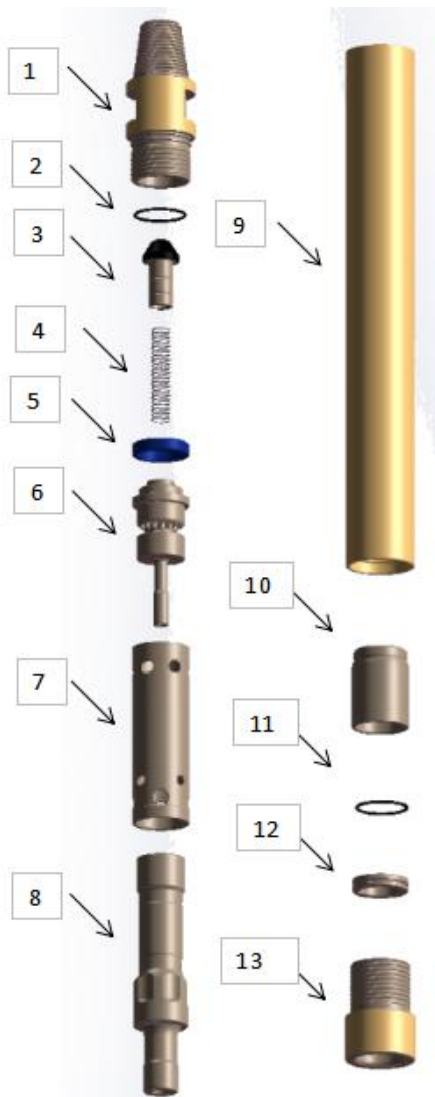


Ballistic

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JS3.5 - DHD3.5 (VALVELESS)



PRODUCT NAME	JS3.5 - DHD3.5 VALVELESS
BIT SHANK	DHD3.5 WITHOUT FOOT VALVE
CONNECTION THREAD	API 2 3/8 REG
MAX. WORKING PRESSURE	20 BAR
AIR CONSUMPTION	7m³/min (15BAR)
RECOMMEND ROTATION SPEED	30-60 r/min
OUTER DIAMETER	80MM
REC HOLE SIZE	90-105MM
LENGTH WITHOUT BIT	863MM
WEIGHT	22KG

ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB RING
3	CHECK VALVE
4	SPRING
5	SHOCK RING
6	AIR DISTRIBUTOR
7	INNER CYLINDER
8	PISTON
9	OUTER CYLINDER
10	BUSH DRIVE SUB
11	O RING
12	BIT RETAINING RING
13	CHUCK SLEEVE

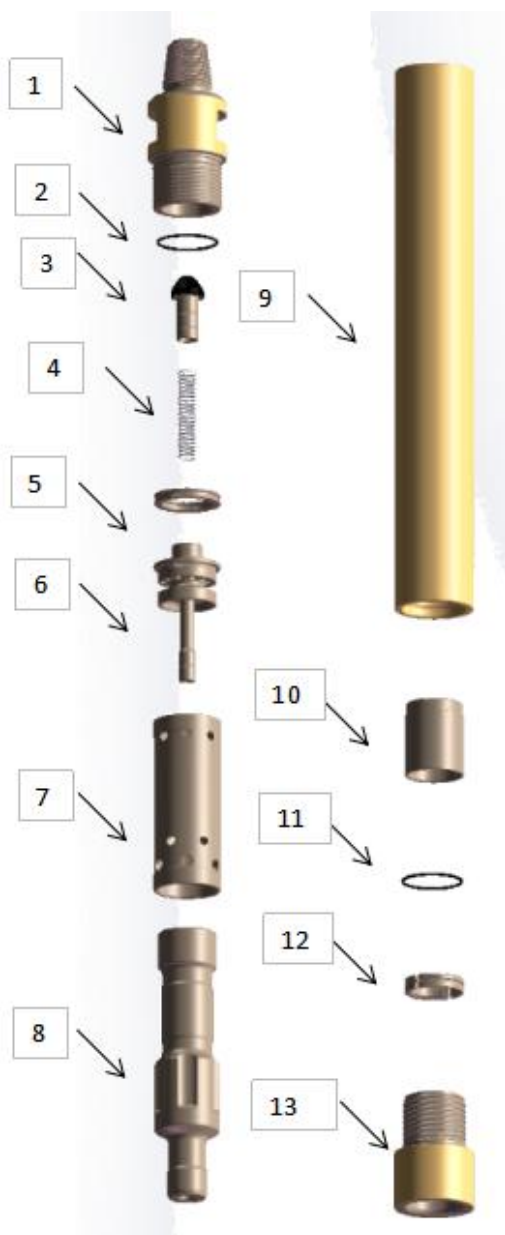


DHD3.5

GENERAL 90MM,95MM 100MM,105MM,110MM

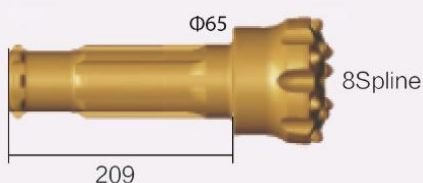
CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC,
SEMI BALLISTIC ARE AVAILABLE

JS4 - DHD340 (VALVELESS)



PRODUCT NAME	JS4-DHD340 VALVELESS
BIT SHANK	DHD340 WITHOUT FOOT VALVE
CONNECTION THREAD	API 2 3/8 REG
MAX. WORKING PRESSURE	25 BAR
AIR CONSUMPTION	11m³/min (18BAR)
RECOMMEND ROTATION SPEED	30-60r/min
OUTER DIAMETER	99MM
REC HOLE SIZE	105-130MM
LENGTH WITHOUT BIT	967MM
WEIGHT	38.5KG

ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB RING
3	CHECK VALVE
4	SPRING
5	SHOCK RING
6	AIR DISTRIBUTOR
7	INNER CYLINDER
8	PISTON
9	OUTER CYLINDER
10	BUSH DRIVE SUB
11	O RING
12	BIT RETAINING RING
13	CHUCK SLEEVE

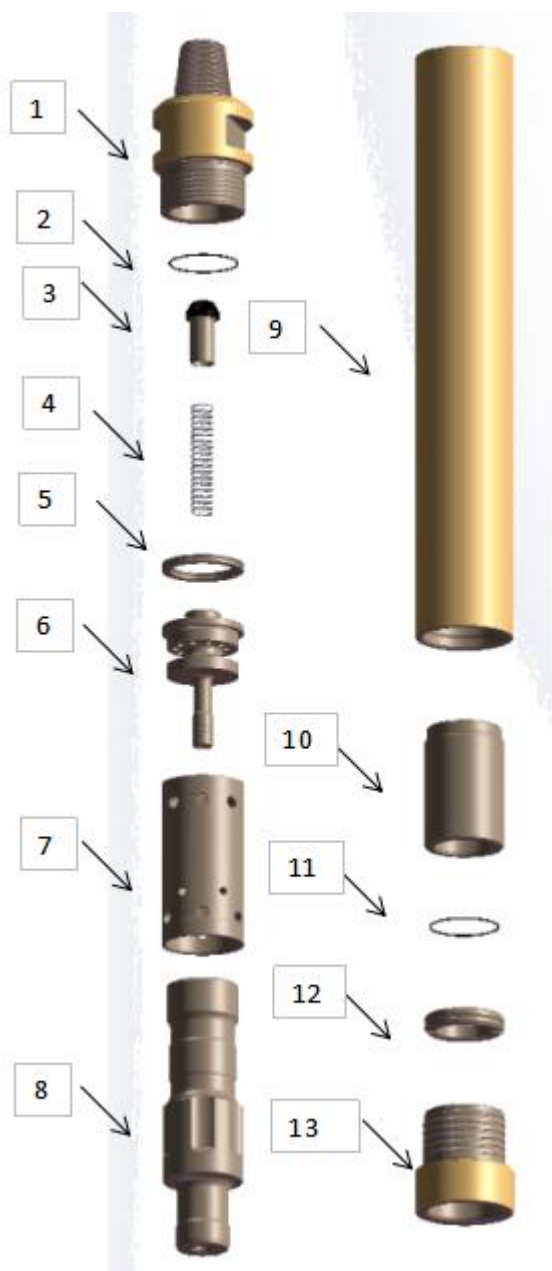


DHD340

GENERAL 105MM,110MM 115MM,127MM,
130MM,140MM

CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC,
SEMI BALLISTIC ARE AVAILABLE

JS5 - DHD350 (VALVELESS)



PRODUCT NAME	JS5-DHD350 VALVELESS
BIT SHANK	DHD350 WITHOUT FOOT VALVE
CONNECTION THREAD	API 3 1/2 REG
MAX. WORKING PRESSURE	28 BAR
AIR CONSUMPTION	16m ³ /min (18BAR)
RECOMMEND ROTATION SPEED	25-55 r/min
OUTER DIAMETER	126MM
REC HOLE SIZE	135-152MM
LENGTH WITHOUT BIT	1070MM
WEIGHT	68.5KG

ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB RING
3	CHECK VALVE
4	SPRING
5	SHOCK RING
6	AIR DISTRIBUTOR
7	INNER CYLINDER
8	PISTON
9	OUTER CYLINDER
10	BUSH DRIVE SUB
11	O RING
12	BIT RETAINING RING
13	CHUCK SLEEVE



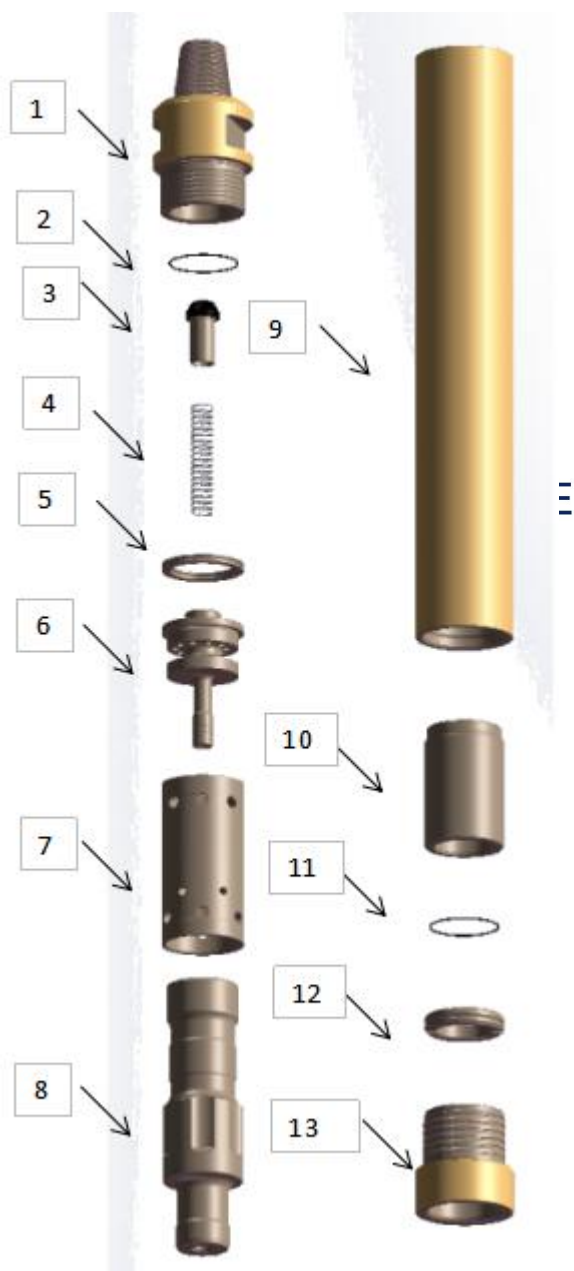
8Spline

DHD350

GENERAL 140MM,152MM 160MM,165MM,178MM.

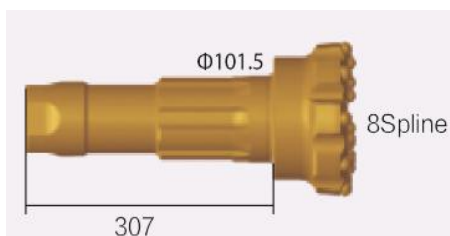
CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC,
SEMI BALLISTIC ARE AVAILABLE

JS6 -DHD360 STANDARD (VALVELESS)



PRODUCT NAME	JS6 - DHD360 STANDARD VALVELESS
BIT SHANK	DHD360 WITHOUT FOOT VALVE
CONNECTION THREAD	API 3 1/2 REG
MAX. WORKING PRESSURE	30 BAR
AIR CONSUMPTION	20m³/min (18BAR)
RECOMMEND ROTATION SPEED	25-55 r/min
OUTER DIAMETER	146MM
REC HOLE SIZE	155-190MM
LENGTH WITHOUT BIT	1164MM
WEIGHT	101.5KG

ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB RING
3	CHECK VALVE
4	SPRING
5	SHOCK RING
6	AIR DISTRIBUTOR
7	INNER CYLINDER
8	PISTON
9	OUTER CYLINDER
10	BUSH DRIVE SUB
11	O RING
12	BIT RETAINING RING
13	CHUCK SLEEVE

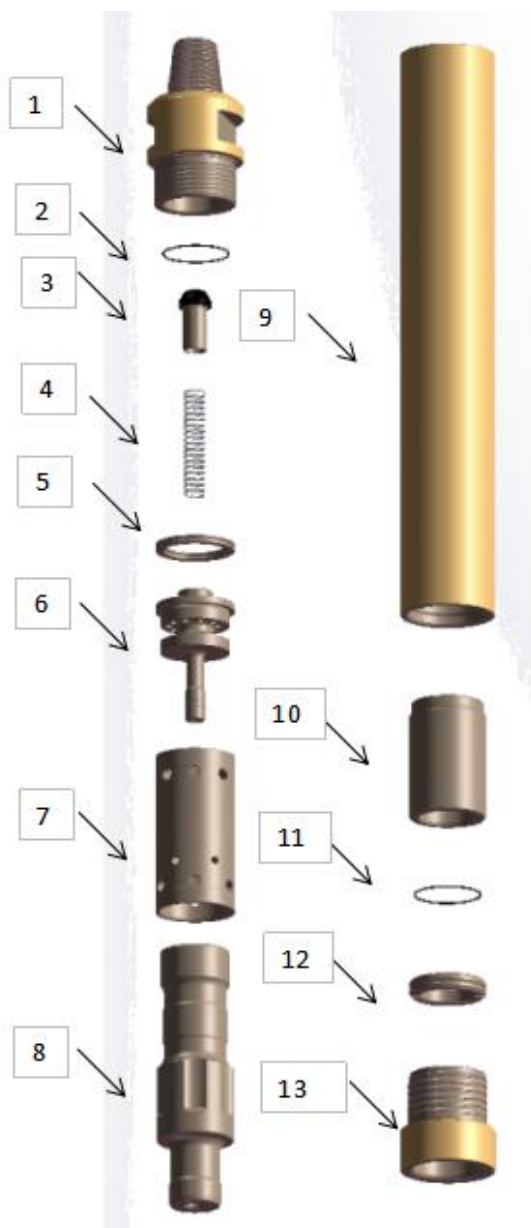


DHD360

GENERAL 152MM,165MM 171MM,185MM,
190MM,203MM

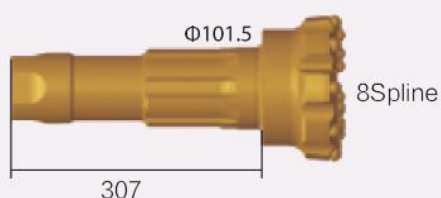
CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC,
SEMI BALLISTIC ARE AVAILABLE

JS6 - DHD360 LARGE (VALVELESS)



PRODUCT NAME	JS6 - DHD360 LARGE VALVELESS
BIT SHANK	DHD360 WITHOUT FOOT VALVE
CONNECTION THREAD	API 3 1/2 REG
MAX. WORKING PRESSURE	30 BAR
AIR CONSUMPTION	20m³/min (18BAR)
RECOMMEND ROTATION SPEED	25-55 r/min
OUTER DIAMETER	150MM
REC HOLE SIZE	160-200MM
LENGTH WITHOUT BIT	1164MM
WEIGHT	106KG

ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB RING
3	CHECK VALVE
4	SPRING
5	SHOCK RING
6	AIR DISTRIBUTOR
7	INNER CYLINDER
8	PISTON
9	OUTER CYLINDER
10	BUSH DRIVE SUB
11	O RING
12	BIT RETAINING RING
13	CHUCK SLEEVE

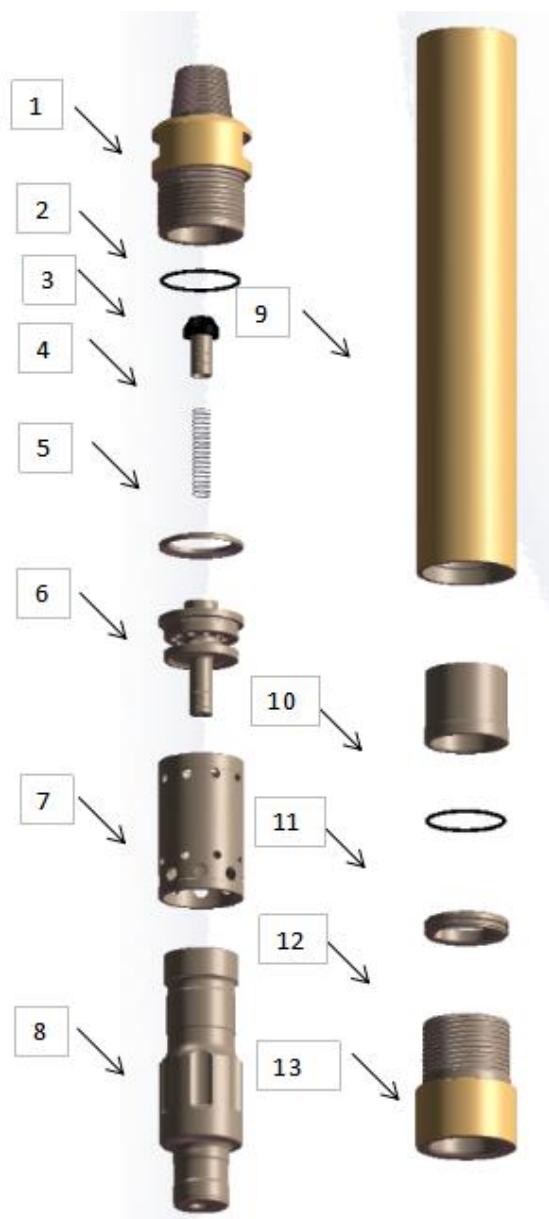


DHD360

GENERAL 152MM,165MM 171MM,185MM,
190MM,203MM

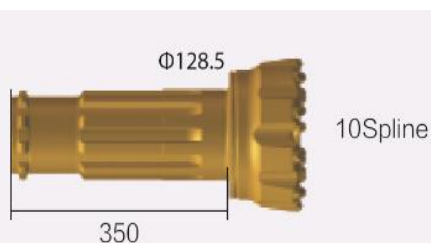
CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC,
SEMI BALLISTIC ARE AVAILABLE

JS8 - DHD380 (VALVELESS)



PRODUCT NAME	JS8-DHD380 VALVELESS
BIT SHANK	DHD380 WITHOUT FOOT VALVE
CONNECTION THREAD	API 4 1/2 REG
MAX. WORKING PRESSURE	30 BAR
AIR CONSUMPTION	28m³/min (18BAR)
RECOMMEND ROTATION SPEED	25-50 r/min
OUTER DIAMETER	185MM
REC HOLE SIZE	200-254MM
LENGTH WITHOUT BIT	1366MM
WEIGHT	184KG

ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB RING
3	CHECK VALVE
4	SPRING
5	SHOCK RING
6	AIR DISTRIBUTOR
7	INNER CYLINDER
8	PISTON
9	OUTER CYLINDER
10	BUSH DRIVE SUB
11	O RING
12	BIT RETAINING RING
13	CHUCK SLEEVE

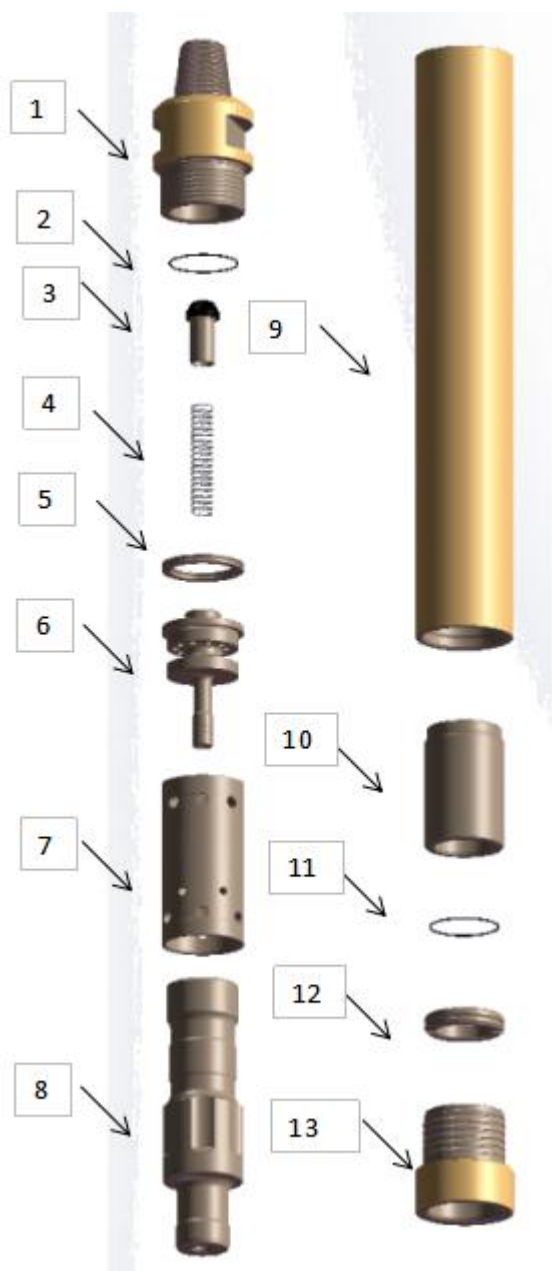


DHD380

GENERAL 203MM,219MM 240MM,254MM,279MM.

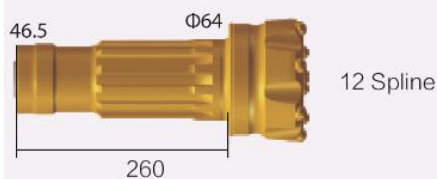
CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC,
SEMI BALLISTIC ARE AVAILABLE

JS5 - QL50 (VALVELESS)



PRODUCT NAME	JS5 - QL50 VALVELESS
BIT SHANK	QL50 WITHOUT FOOT VALVE
CONNECTION THREAD	API 3 1/2 REG
MAX. WORKING PRESSURE	28 BAR
AIR CONSUMPTION	16m ³ /min (18BAR)
RECOMMEND ROTATION SPEED	25-55 r/min
OUTER DIAMETER	126MM
REC HOLE SIZE	135-152MM
LENGTH WITHOUT BIT	1070MM
WEIGHT	68.5KG

ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB RING
3	CHECK VALVE
4	SPRING
5	SHOCK RING
6	AIR DISTRIBUTOR
7	INNER CYLINDER
8	PISTON
9	OUTER CYLINDER
10	BUSH DRIVE SUB
11	O RING
12	BIT RETAINING RING
13	CHUCK SLEEVE

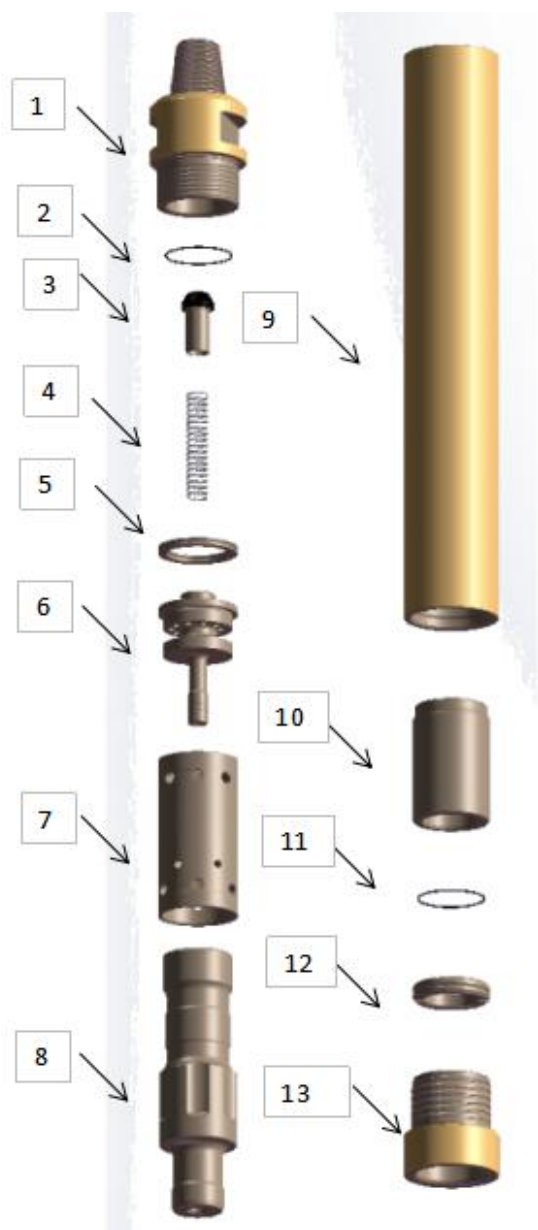


QL50

GENERAL 140MM,152MM 160MM,165MM,178MM.

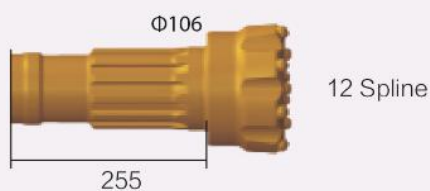
CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC,
SEMI BALLISTIC ARE AVAILABLE

JS6 - QL60 STANDARD (VALVELESS)



PRODUCT NAME	JS6 - QL60 STANDARD VALVELESS
BIT SHANK	QL60 WITHOUT FOOT VALVE
CONNECTION THREAD	API 3 1/2 REG
MAX. WORKING PRESSURE	30 BAR
AIR CONSUMPTION	20m³/min (18BAR)
RECOMMEND ROTATION SPEED	25-55 r/min
OUTER DIAMETER	146MM
REC HOLE SIZE	155-190MM
LENGTH WITHOUT BIT	1164MM
WEIGHT	101.5KG

ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB RING
3	CHECK VALVE
4	SPRING
5	SHOCK RING
6	AIR DISTRIBUTOR
7	INNER CYLINDER
8	PISTON
9	OUTER CYLINDER
10	BUSH DRIVE SUB
11	O RING
12	BIT RETAINING RING
13	CHUCK SLEEVE

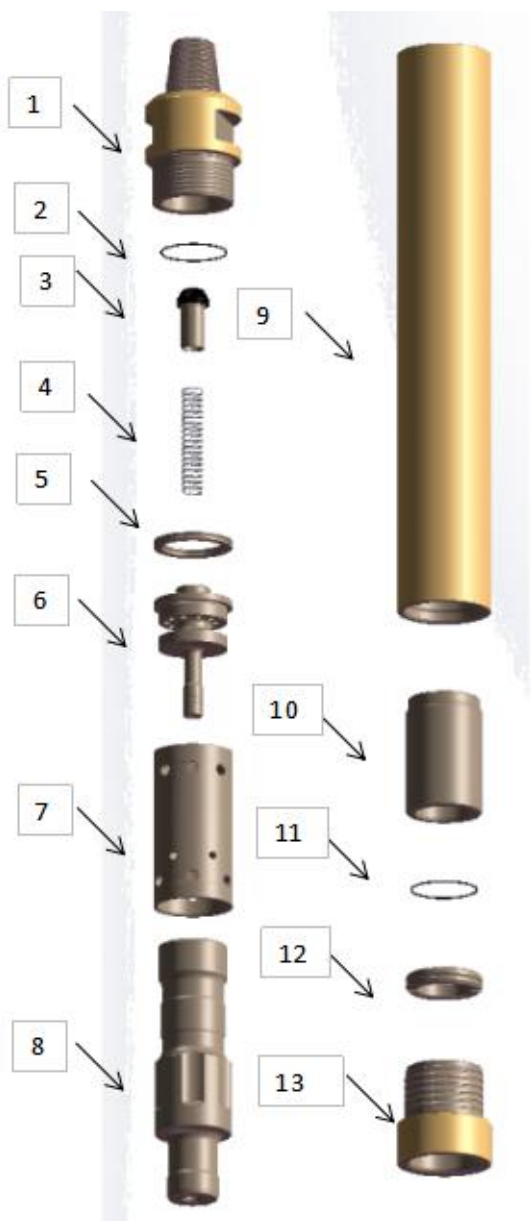


QL60

GENERAL 152MM,165MM 171MM,185MM,190MM,
203MM

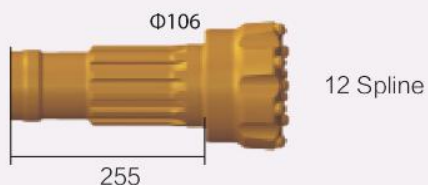
CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC,
SEMI BALLISTIC ARE AVAILABLE

JS6 - QL60 LARGE (VALVELESS)



PRODUCT NAME	JS6 - QL60 LARGE VALVELESS
BIT SHANK	QL60 WITHOUT FOOT VALVE
CONNECTION THREAD	API 3 1/2 REG
MAX. WORKING PRESSURE	30 BAR
AIR CONSUMPTION	20m³/min (18BAR)
RECOMMEND ROTATION SPEED	25-55 r/min
OUTER DIAMETER	150MM
REC HOLE SIZE	160-200MM
LENGTH WITHOUT BIT	1164MM
WEIGHT	106KG

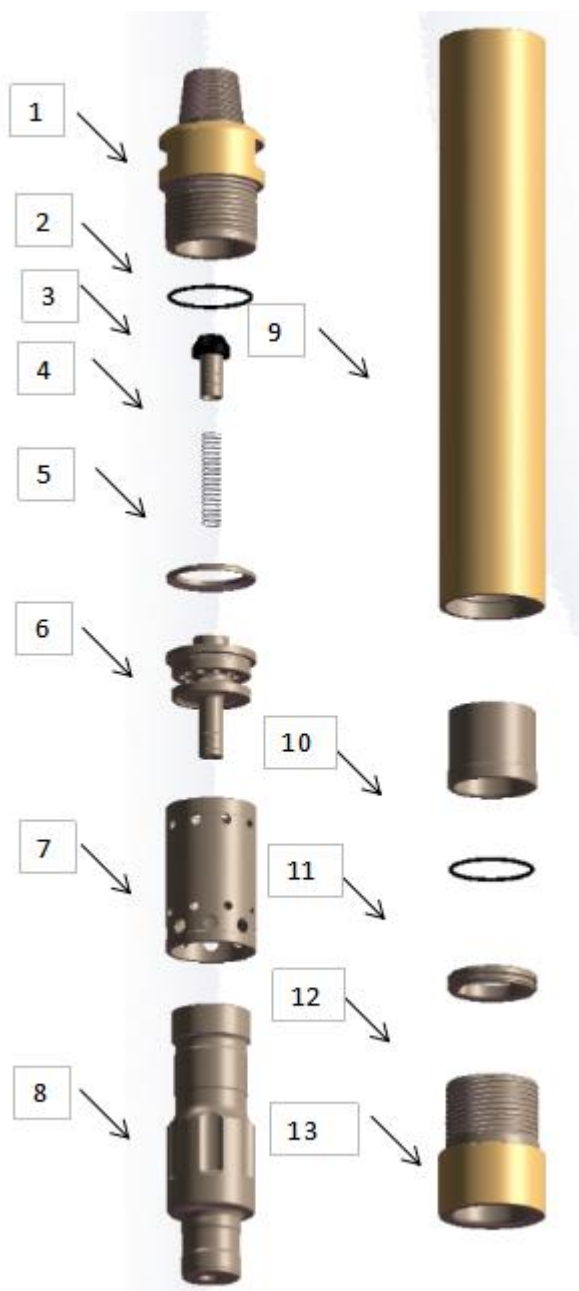
ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB RING
3	CHECK VALVE
4	SPRING
5	SHOCK RING
6	AIR DISTRIBUTOR
7	INNER CYLINDER
8	PISTON
9	OUTER CYLINDER
10	BUSH DRIVE SUB
11	O RING
12	BIT RETAINING RING
13	CHUCK SLEEVE



QL60

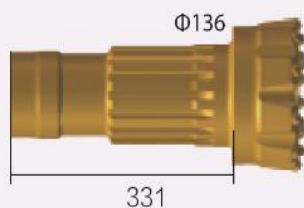
GENERAL 152MM,165MM 171MM,185MM,190MM,
203MM
CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC,
SEMI BALLISTIC ARE AVAILABLE

JS8 - QL80 (VALVELESS)



PRODUCT NAME	JS8 -QL80 VALVELESS
BIT SHANK	QL80 WITHOUT FOOT VALVE
CONNECTION THREAD	API 4 1/2 REG
MAX. WORKING PRESSURE	30 BAR
AIR CONSUMPTION	28m³/min (18BAR)
RECOMMEND ROTATION SPEED	25-50 r/min
OUTER DIAMETER	185MM
REC HOLE SIZE	200-254MM
LENGTH WITHOUT BIT	1366MM
WEIGHT	184KG

ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB RING
3	CHECK VALVE
4	SPRING
5	SHOCK RING
6	AIR DISTRIBUTOR
7	INNER CYLINDER
8	PISTON
9	OUTER CYLINDER
10	BUSH DRIVE SUB
11	O RING
12	BIT RETAINING RING
13	CHUCK SLEEVE



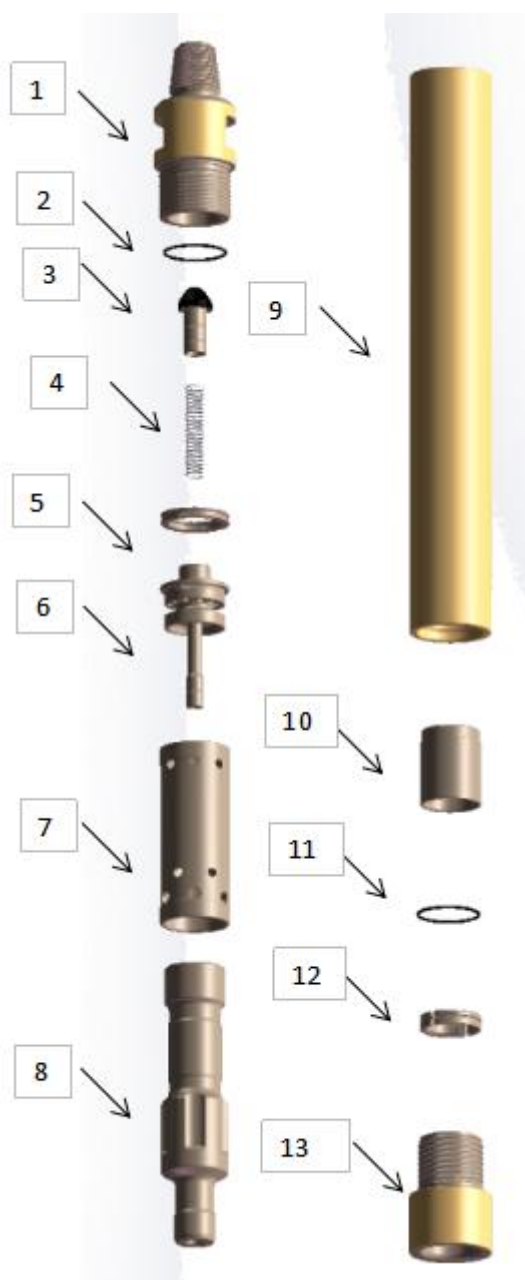
16 Spline

QL80

GENERAL 203MM,219MM 240MM,254MM,279MM.

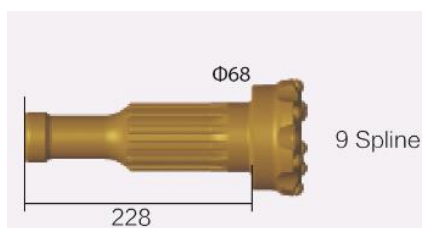
CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC, SEMI BALLISTIC ARE AVAILABLE

JS4 - M40 (VALVELESS)



PRODUCT NAME	JS4 - M40 VALVELESS
BIT SHANK	MISSION40
CONNECTION THREAD	API 2 3/8 REG
MAX. WORKING PRESSURE	25 BAR
AIR CONSUMPTION	11m ³ /min (18BAR)
RECOMMEND ROTATION SPEED	30-60 r/min
OUTER DIAMETER	99MM
REC HOLE SIZE	105-130MM
LENGTH WITHOUT BIT	967MM
WEIGHT	38.5KG

ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB RING
3	CHECK VALVE
4	SPRING
5	SHOCK RING
6	AIR DISTRIBUTOR
7	INNER CYLINDER
8	PISTON
9	OUTER CYLINDER
10	BUSH DRIVE SUB
11	O RING
12	BIT RETAINING RING
13	CHUCK SLEEVE

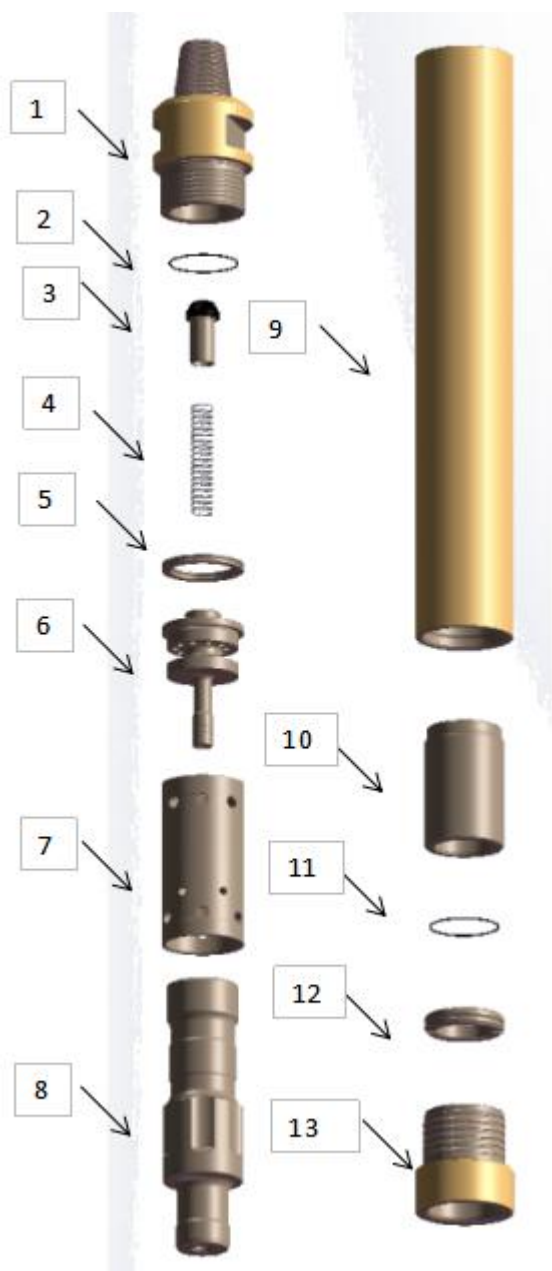


MISSION40

GENERAL 105MM,110MM 115MM,127MM,130MM, 140MM

CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC, SEMI BALLISTIC ARE AVAILABLE

JS5 - M50 (VALVELESS)



PRODUCT NAME	JS5 - M50 VALVELESS
BIT SHANK	MISSION50
CONNECTION THREAD	API 3 1/2 REG
MAX. WORKING PRESSURE	28 BAR
AIR CONSUMPTION	16m ³ /min (18BAR)
RECOMMEND ROTATION SPEED	25-55 r/min
OUTER DIAMETER	126MM
REC HOLE SIZE	135-152MM
LENGTH WITHOUT BIT	1070MM
WEIGHT	68.5KG

ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB RING
3	CHECK VALVE
4	SPRING
5	SHOCK RING
6	AIR DISTRIBUTOR
7	INNER CYLINDER
8	PISTON
9	OUTER CYLINDER
10	BUSH DRIVE SUB
11	O RING
12	BIT RETAINING RING
13	CHUCK SLEEVE

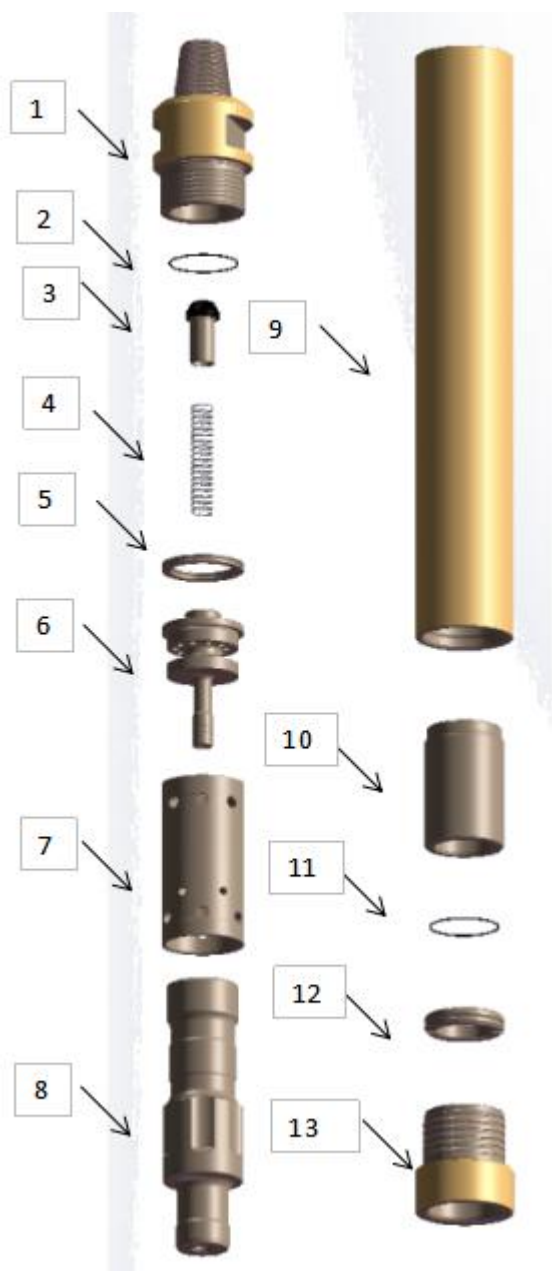


MISSION50

GENERAL 140MM,152MM 160MM,165MM,178MM.

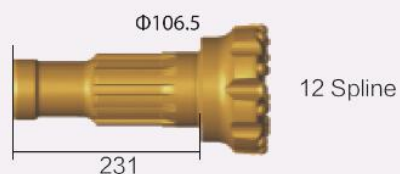
CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC,
SEMI BALLISTIC ARE AVAILABLE

JS6 -M60 STANDARD (VALVELESS)



PRODUCT NAME	JS6 - M60 STANDARD VALVELESS
BIT SHANK	MISSION60
CONNECTION THREAD	API 3 1/2 REG
MAX. WORKING PRESSURE	30 BAR
AIR CONSUMPTION	20m³/min (18BAR)
RECOMMEND ROTATION SPEED	25-55 r/min
OUTER DIAMETER	146MM
REC HOLE SIZE	155-190MM
LENGTH WITHOUT BIT	1164MM
WEIGHT	101.5KG

ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB RING
3	CHECK VALVE
4	SPRING
5	SHOCK RING
6	AIR DISTRIBUTOR
7	INNER CYLINDER
8	PISTON
9	OUTER CYLINDER
10	BUSH DRIVE SUB
11	O RING
12	BIT RETAINING RING
13	CHUCK SLEEVE

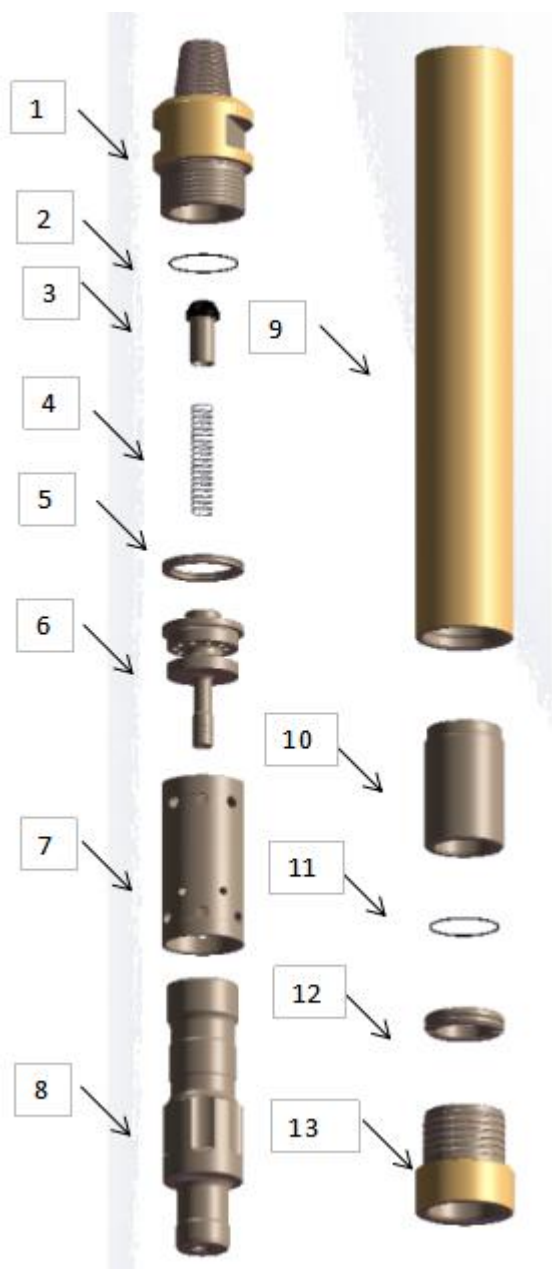


MISSION60

GENERAL 152MM,165MM 171MM,185MM,190MM, 203MM

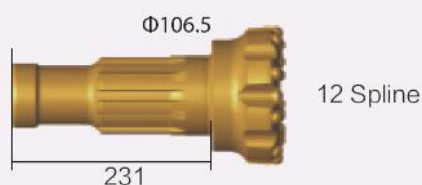
CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC, SEMI BALLISTIC ARE AVAILABLE

JS6 - M60 LARGE (VALVELESS)



PRODUCT NAME	JS6-M60 LARGE VALVELESS
BIT SHANK	MISSION60
CONNECTION THREAD	API 3 1/2 REG
MAX. WORKING PRESSURE	30 BAR
AIR CONSUMPTION	20m³/min (18BAR)
RECOMMEND ROTATION SPEED	25-55 r/min
OUTER DIAMETER	150MM
REC HOLE SIZE	160-200MM
LENGTH WITHOUT BIT	1164MM
WEIGHT	106KG

ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB RING
3	CHECK VALVE
4	SPRING
5	SHOCK RING
6	AIR DISTRIBUTOR
7	INNER CYLINDER
8	PISTON
9	OUTER CYLINDER
10	BUSH DRIVE SUB
11	O RING
12	BIT RETAINING RING
13	CHUCK SLEEVE

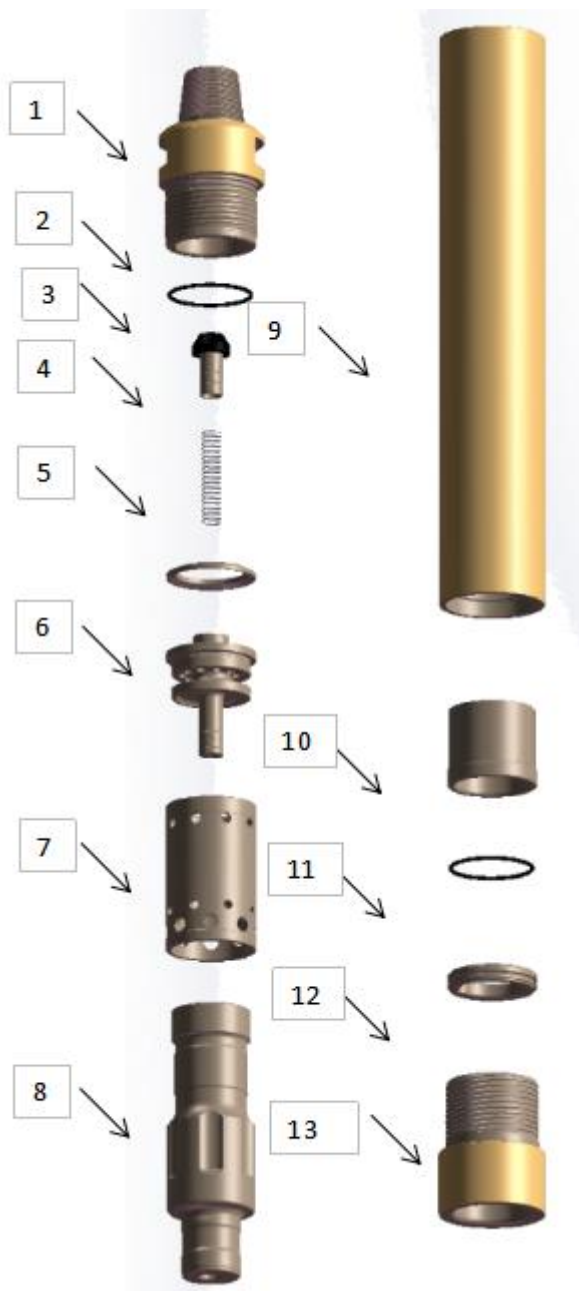


MISSION60

GENERAL 152MM,165MM 171MM,185MM,190MM, 203MM

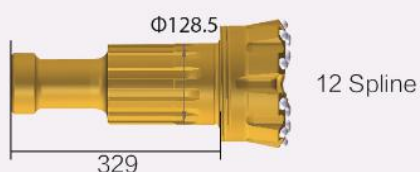
CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC, SEMI BALLISTIC ARE AVAILABLE

JS8 - M80 (VALVELESS)



PRODUCT NAME	JS8-M80 VALVELESS
BIT SHANK	MISSION80
CONNECTION THREAD	API 4 1/2 REG
MAX. WORKING PRESSURE	30 BAR
AIR CONSUMPTION	28m ³ /min (18BAR)
RECOMMEND ROTATION SPEED	25-50 r/min
OUTER DIAMETER	185MM
REC HOLE SIZE	200-254MM
LENGTH WITHOUT BIT	1366MM
WEIGHT	184KG

ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB RING
3	CHECK VALVE
4	SPRING
5	SHOCK RING
6	AIR DISTRIBUTOR
7	INNER CYLINDER
8	PISTON
9	OUTER CYLINDER
10	BUSH DRIVE SUB
11	O RING
12	BIT RETAINING RING
13	CHUCK SLEEVE

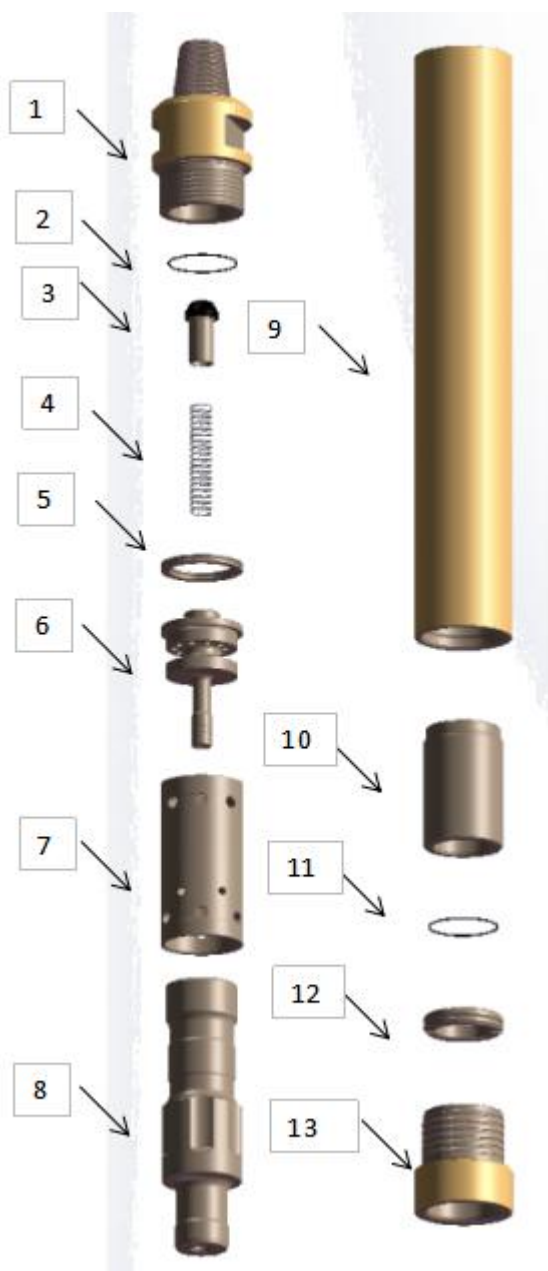


MISSION80

GENERAL 203MM,219MM 240MM,254MM,279MM.

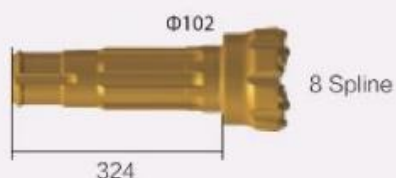
CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC,
SEMI BALLISTIC ARE AVAILABLE

JS6 -SD6 STANDARD (VALVELESS)



PRODUCT NAME	JS6-SD6 STANDARD VALVELESS
BIT SHANK	SD6 WITHOUT FOOT VALVE
CONNECTION THREAD	API 3 1/2 REG
MAX. WORKING PRESSURE	30 BAR
AIR CONSUMPTION	20m³/min (18BAR)
RECOMMEND ROTATION SPEED	25-55 r/min
OUTER DIAMETER	146MM
REC HOLE SIZE	155-190MM
LENGTH WITHOUT BIT	1164MM
WEIGHT	101.5KG

ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB RING
3	CHECK VALVE
4	SPRING
5	SHOCK RING
6	AIR DISTRIBUTOR
7	INNER CYLINDER
8	PISTON
9	OUTER CYLINDER
10	BUSH DRIVE SUB
11	O RING
12	BIT RETAINING RING
13	CHUCK SLEEVE



SD6

GENERAL 152MM,165MM 171MM,185MM,190MM,
203MM

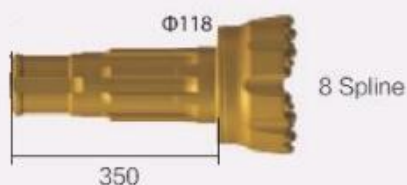
CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC,
SEMI BALLISTIC ARE AVAILABLE

JS8 -SD8 (VALVELESS)



PRODUCT NAME	JS8-SD8 VALVELESS
BIT SHANK	SD8 WITHOUT FOOT VALVE
CONNECTION THREAD	API 4 1/2 REG
MAX. WORKING PRESSURE	30 BAR
AIR CONSUMPTION	28m³/min (18BAR)
RECOMMEND ROTATION SPEED	25-50 r/min
OUTER DIAMETER	185MM
REC HOLE SIZE	200-254MM
LENGTH WITHOUT BIT	1366MM
WEIGHT	184KG

ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB RING
3	CHECK VALVE
4	SPRING
5	SHOCK RING
6	AIR DISTRIBUTOR
7	INNER CYLINDER
8	PISTON
9	OUTER CYLINDER
10	BUSH DRIVE SUB
11	O RING
12	BIT RETAINING RING
13	CHUCK SLEEVE

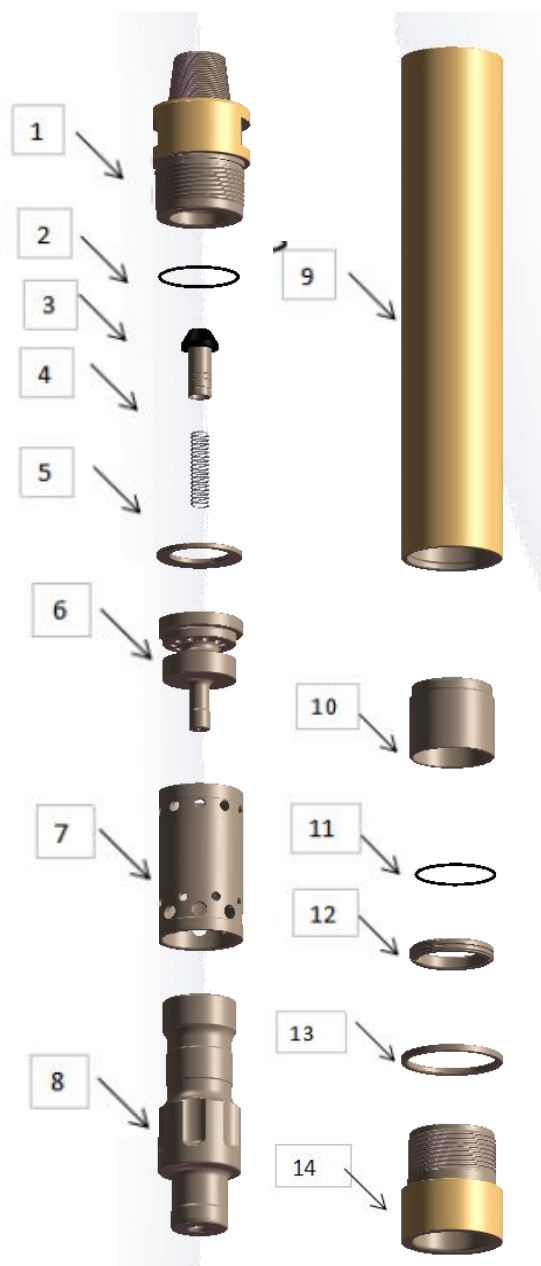


SD8

GENERAL 203MM,219MM 240MM,254MM,279MM.

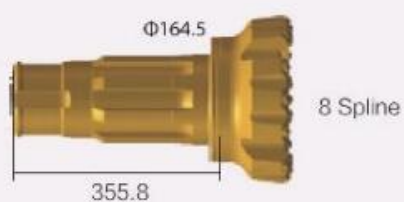
CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC,
SEMI BALLISTIC ARE AVAILABLE

JS10 -SD10 (VALVELESS)



PRODUCT NAME	JS10-SD10 VALVELESS
BIT SHANK	SD10 WITHOUT FOOT VALVE
CONNECTION THREAD	API 5 1/2 REG
MAX. WORKING PRESSURE	30 BAR
AIR CONSUMPTION	41m³/min (18BAR)
RECOMMEND ROTATION SPEED	25-50 r/min
OUTER DIAMETER	220MM
REC HOLE SIZE	254-305MM
LENGTH WITHOUT BIT	1522MM
WEIGHT	295KG

ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB RING
3	CHECK VALVE
4	SPRING
5	SHOCK RING
6	AIR DISTRIBUTOR
7	INNER CYLINDER
9	OUTER CYLINDER
10	BUSH DRIVE SUB
11	O RING
12	BIT RETAINING RING
13	STEEL RING
14	CHUCK SLEEVE

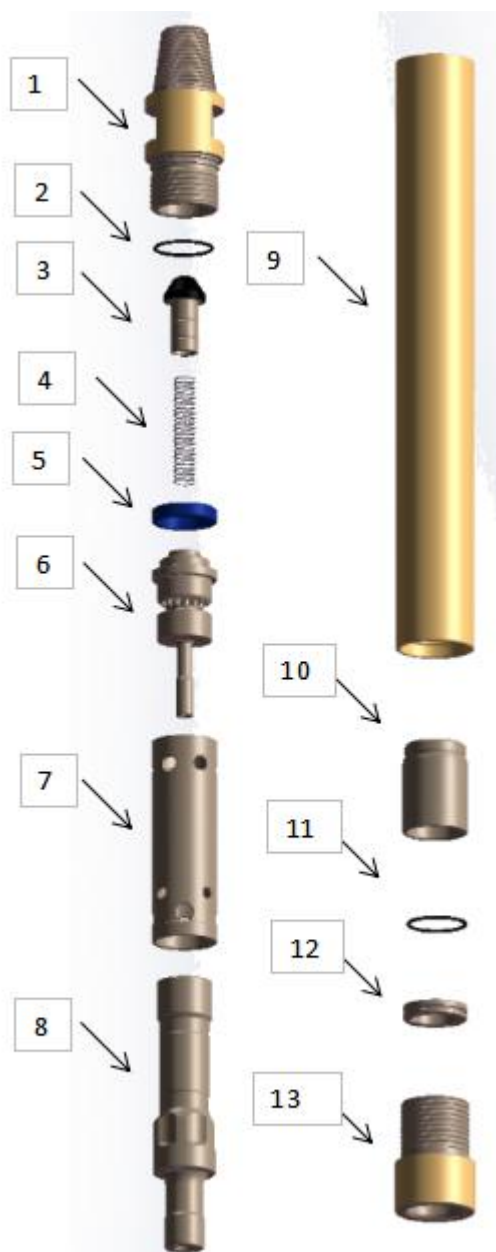


SD10

GENERAL 254MM,305MM 311MM,381MM,400MM

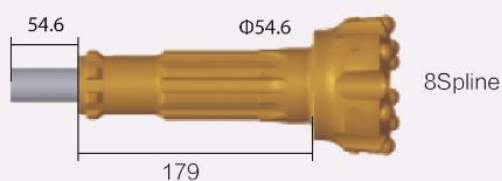
CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC,
SEMI BALLISTIC ARE AVAILABLE

JS3.5 - DHD3.5(VALVED)



PRODUCT NAME	JS3.5 - DHD3.5 VALVED
BIT SHANK	DHD3.5 WITH FOOT VALVE
CONNECTION THREAD	API 2 3/8 REG
MAX. WORKING PRESSURE	20 BAR
AIR CONSUMPTION	7m³/min (15BAR)
RECOMMEND ROTATION SPEED	30-60 r/min
OUTER DIAMETER	80MM
REC HOLE SIZE	90-105MM
LENGTH WITHOUT BIT	863MM
WEIGHT	22KG

ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB RING
3	CHECK VALVE
4	SPRING
5	SHOCK RING
6	AIR DISTRIBUTOR
7	INNER CYLINDER
8	PISTON
9	OUTER CYLINDER
10	BUSH DRIVE SUB
11	O RING
12	BIT RETAINING RING
13	CHUCK SLEEVE

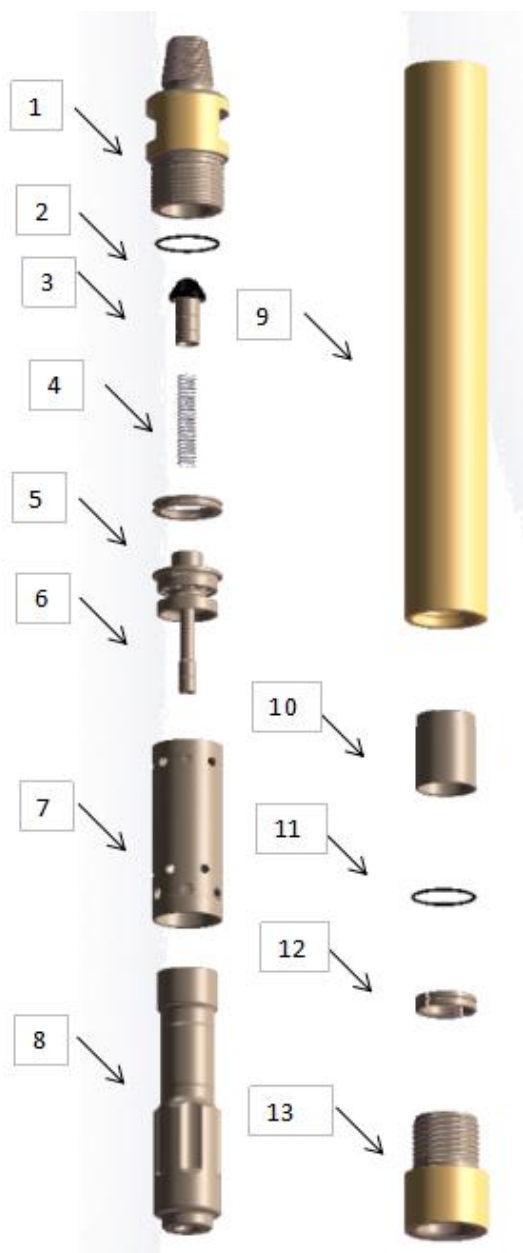


DHD3.5

GENERAL 90MM,95MM 100MM,105MM,110MM

CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC,
SEMI BALLISTIC ARE AVAILABLE

JS4 - DHD340 (VALVED)



PRODUCT NAME	JS4 - DHD340 VALVED
BIT SHANK	DHD340 WITH FOOT VALVE
CONNECTION THREAD	API 2 3/8 REG
MAX. WORKING PRESSURE	25 BAR
AIR CONSUMPTION	12.1m³/min (18BAR)
RECOMMEND ROTATION SPEED	30-60 r/min
OUTER DIAMETER	99MM
REC HOLE SIZE	105-130MM
LENGTH WITHOUT BIT	947MM
WEIGHT	37.3KG

ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB RING
3	CHECK VALVE
4	SPRING
5	SHOCK RING
6	AIR DISTRIBUTOR
7	INNER CYLINDER
8	PISTON
9	OUTER CYLINDER
10	BUSH DRIVE SUB
11	O RING
12	BIT RETAINING RING
13	CHUCK SLEEVE

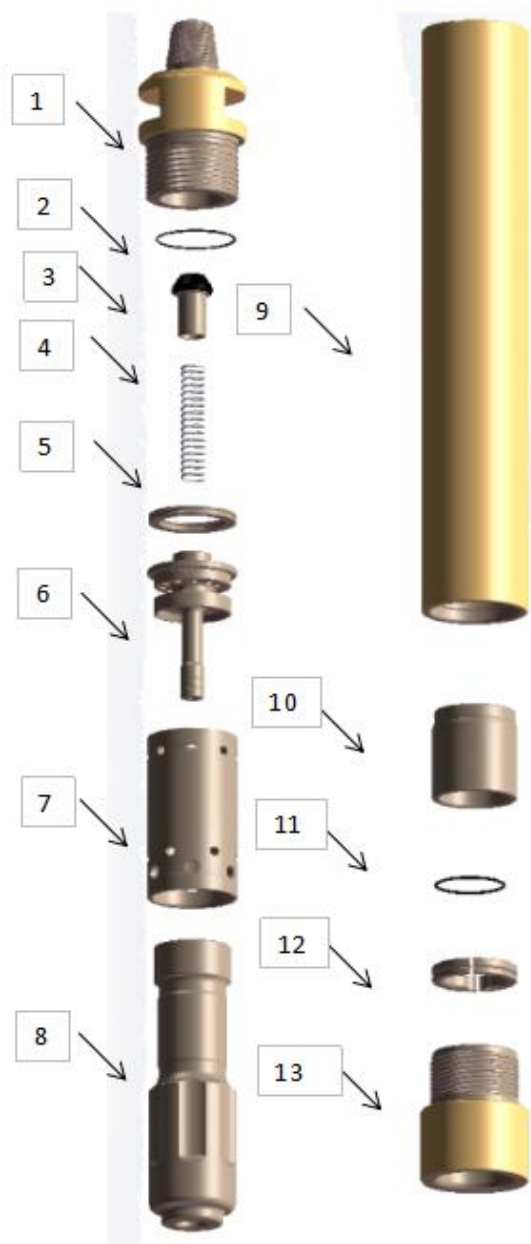


DHD340

GENERAL 105MM,110MM 115MM,127MM,130MM, 140MM

CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC, SEMI BALLISTIC ARE AVAILABLE

JS5 - DHD350 (VALVED)

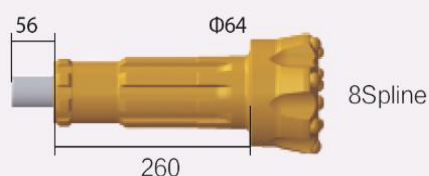


PRODUCT NAME	JS5 - DHD350 VALVED
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BIT SHANK	DHD350 WITH FOOT VALVE
CONNECTION THREAD	API 3 1/2 REG
MAX. WORKING PRESSURE	28 BAR
AIR CONSUMPTION	17.6m ³ /min (18BAR)
RECOMMEND ROTATION SPEED	25-55 r/min
OUTER DIAMETER	126MM
REC HOLE SIZE	135-152MM
LENGTH WITHOUT BIT	1070MM
WEIGHT	68.5KG

ITEM DESCRIPTION	
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NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB RING
3	CHECK VALVE
4	SPRING
5	SHOCK RING
6	AIR DISTRIBUTOR
7	INNER CYLINDER
8	PISTON
9	OUTER CYLINDER
10	BUSH DRIVE SUB
11	O RING
12	BIT RETAINING RING
13	CHUCK SLEEVE

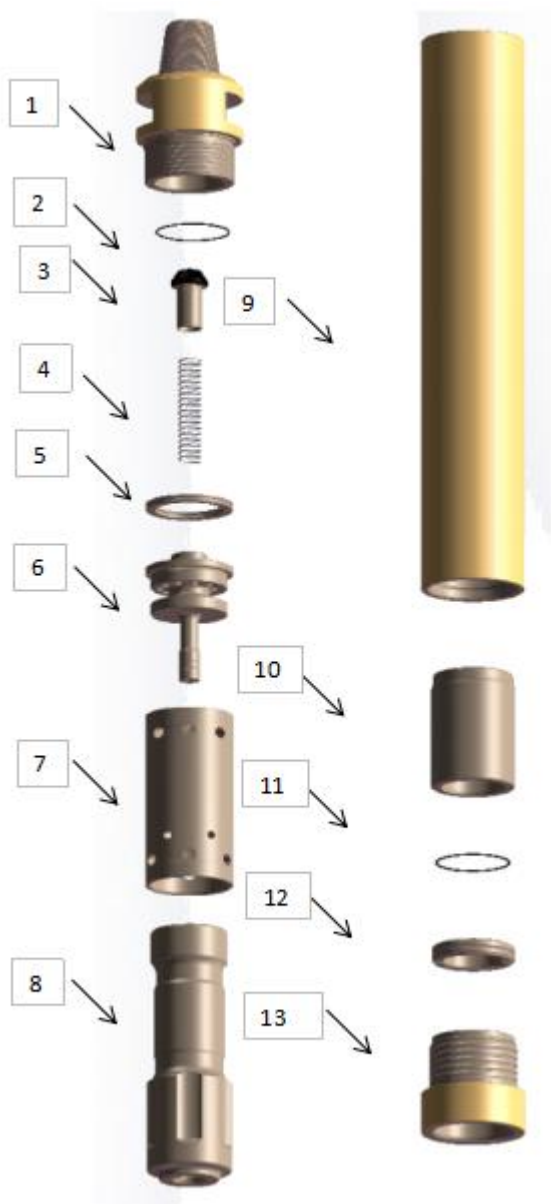


DHD350

GENERAL 140MM,152MM 160MM,165MM,178MM.

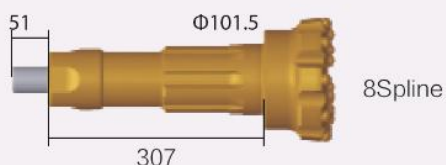
CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC, SEMI BALLISTIC ARE AVAILABLE

JS6 -DHD360 STANDARD (VALVED)



PRODUCT NAME	JS6 - DHD360 STANDARD VALVED
BIT SHANK	DHD360 WITH FOOT VALVE
CONNECTION THREAD	API 3 1/2 REG
MAX. WORKING PRESSURE	30 BAR
AIR CONSUMPTION	22m³/min (18BAR)
RECOMMEND ROTATION SPEED	25-55 r/min
OUTER DIAMETER	146MM
REC HOLE SIZE	155-190MM
LENGTH WITHOUT BIT	1164MM
WEIGHT	99.6KG

ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB RING
3	CHECK VALVE
4	SPRING
5	SHOCK RING
6	AIR DISTRIBUTOR
7	INNER CYLINDER
8	PISTON
9	OUTER CYLINDER
10	BUSH DRIVE SUB
11	O RING
12	BIT RETAINING RING
13	CHUCK SLEEVE

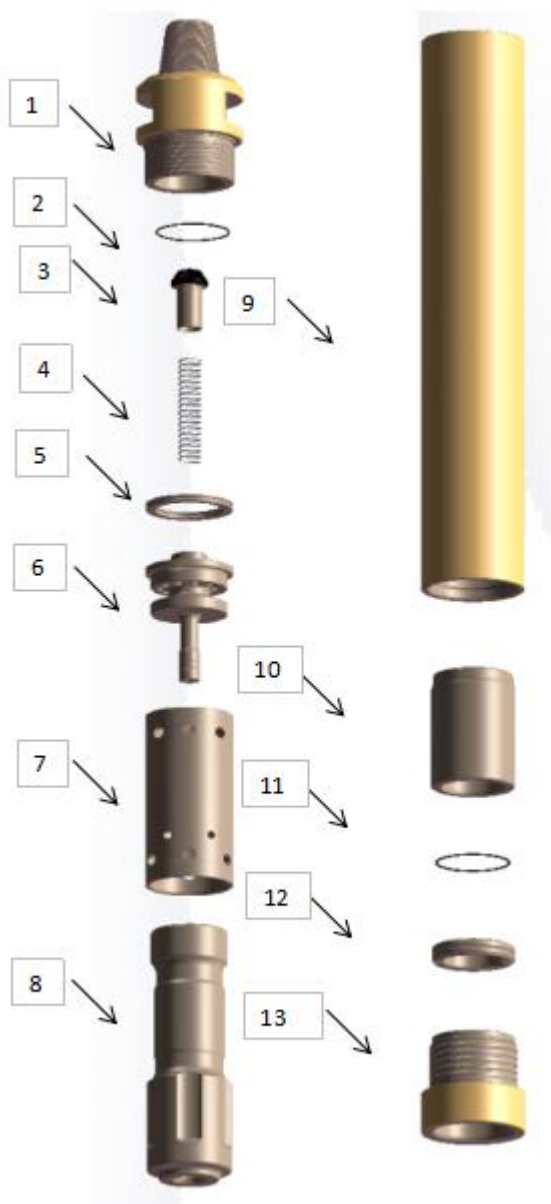


DHD360

GENERAL 152MM,165MM 171MM,185MM,190MM,
203MM

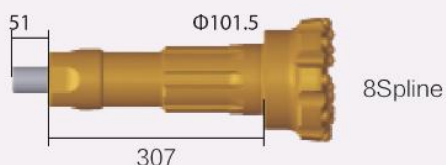
CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC,
SEMI BALLISTIC ARE AVAILABLE

JS6 -DHD360 LARGE (VALVED)



PRODUCT NAME	JS6 - DHD360 LARGE VALVED
BIT SHANK	DHD360 WITH FOOT VALVE
CONNECTION THREAD	API 3 1/2 REG
MAX. WORKING PRESSURE	30 BAR
AIR CONSUMPTION	22m³/min (18BAR)
RECOMMEND ROTATION SPEED	25-55 r/min
OUTER DIAMETER	150MM
REC HOLE SIZE	160-200MM
LENGTH WITHOUT BIT	1164MM
WEIGHT	106KG

ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB RING
3	CHECK VALVE
4	SPRING
5	SHOCK RING
6	AIR DISTRIBUTOR
7	INNER CYLINDER
8	PISTON
9	OUTER CYLINDER
10	BUSH DRIVE SUB
11	O RING
12	BIT RETAINING RING
13	CHUCK SLEEVE

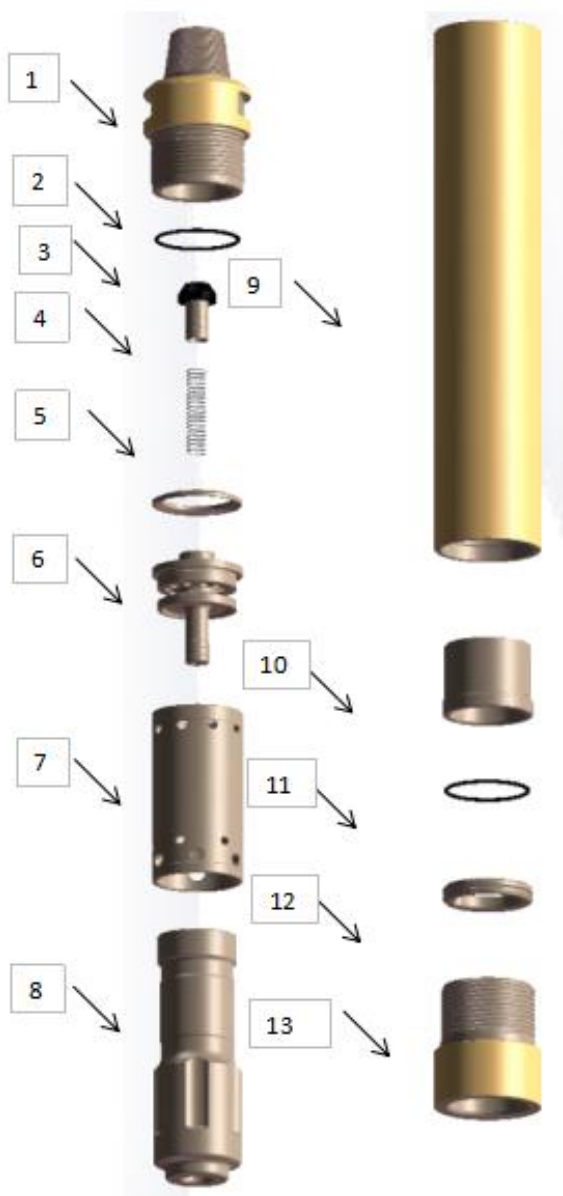


DHD360

GENERAL 152MM,165MM 171MM,185MM,190MM,
203MM

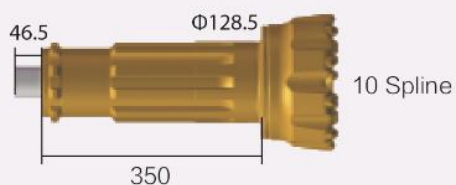
CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC,
SEMI BALLISTIC ARE AVAILABLE

JS8 -DHD380 (VALVED)



PRODUCT NAME	JS8-DHD380 VALVED
BIT SHANK	DHD380 WITH FOOT VALVE
CONNECTION THREAD	API 4 1/2 REG
MAX. WORKING PRESSURE	30 BAR
AIR CONSUMPTION	30.8m ³ /min (18BAR)
RECOMMEND ROTATION SPEED	25-50 r/min
OUTER DIAMETER	185MM
REC HOLE SIZE	200-254MM
LENGTH WITHOUT BIT	1366MM
WEIGHT	180KG

ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB RING
3	CHECK VALVE
4	SPRING
5	SHOCK RING
6	AIR DISTRIBUTOR
7	INNER CYLINDER
8	PISTON
9	OUTER CYLINDER
10	BUSH DRIVE SUB
11	O RING
12	BIT RETAINING RING
13	CHUCK SLEEVE

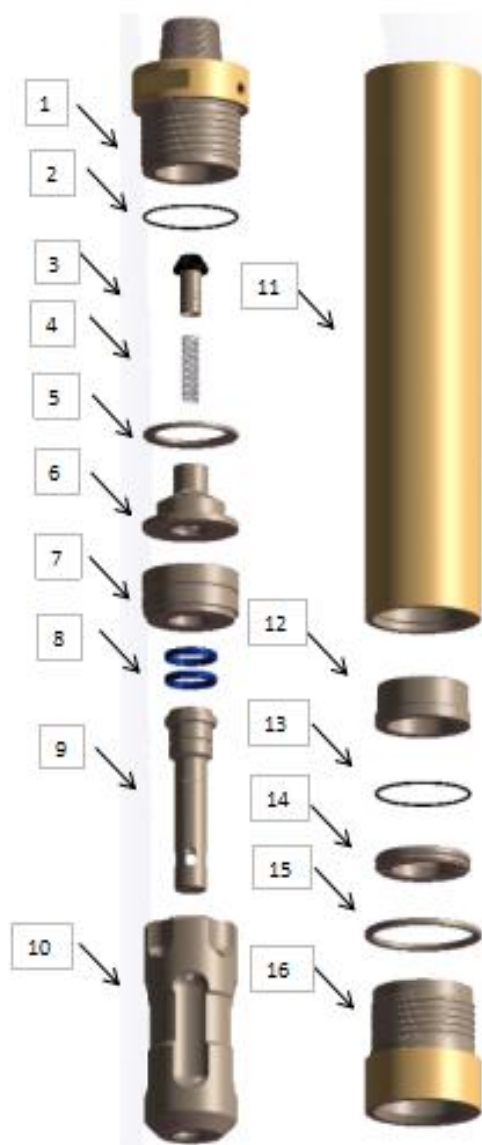


DHD380

GENERAL 203MM,219MM 240MM,254MM,279MM.

CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC, SEMI BALLISTIC ARE AVAILABLE

JS12 -DHD112 (VALVED)



PRODUCT NAME	JS12-DHD112 VALVED
BIT SHANK	DHD112 WITH FOOT VALVE
CONNECTION THREAD	API 6 5/8 REG
MAX. WORKING PRESSURE	30 BAR
AIR CONSUMPTION	70m³/min (18BAR)
RECOMMEND ROTATION SPEED	15-40 r/min
OUTER DIAMETER	275MM
REC HOLE SIZE	305-350MM
LENGTH WITHOUT BIT	1698.5MM
WEIGHT	550KG

ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB RING
3	CHECK VALVE
4	SPRING
5	SHOCK RING
6	CHECK VALVE GUIDE
7	AIR DISTRIBUTOR GUIDE
8	PRESSURE BEARING RING
9	AIR DISTRIBUTOR TUBE
10	PISTON
11	OUTER CYLINDER
12	BUSH DRIVE SUB
13	O RING
14	BIT RETAINING RING
15	STEEL RING
16	CHUCK SLEEVE

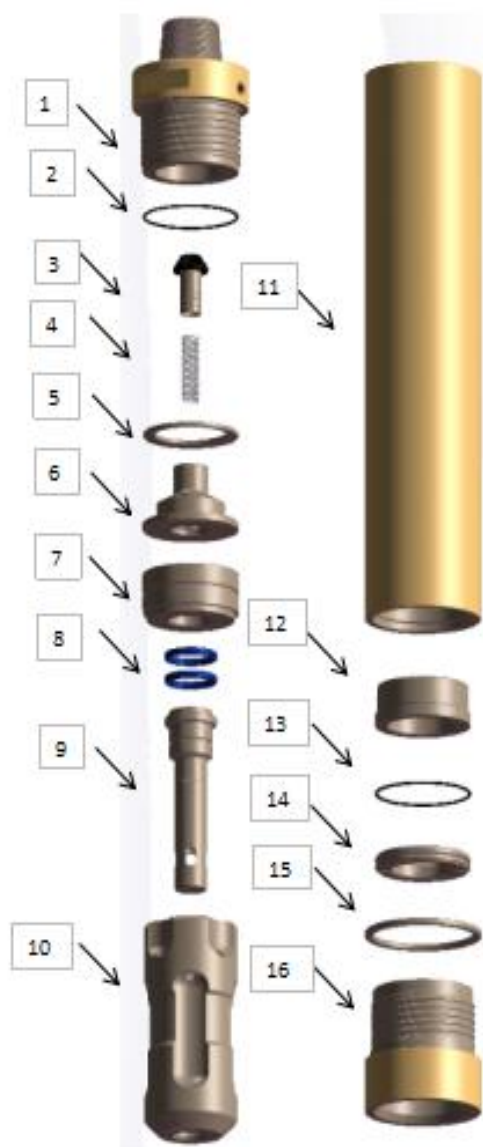


DHD112

GENERAL 305MM,311MM 350MM,400MM,445MM.

CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC, SEMI BALLISTIC ARE AVAILABLE

JS12 -NUMA120 (VALVED)



PRODUCT NAME	JS12-NUMA120 VALVED
BIT SHANK	NUMA120 WITH FOOT VALVE
CONNECTION THREAD	API 6 5/8 REG
MAX. WORKING PRESSURE	30 BAR
AIR CONSUMPTION	70m³/min (18BAR)
RECOMMEND ROTATION SPEED	15-40 r/min
OUTER DIAMETER	275MM
REC HOLE SIZE	305-350MM
LENGTH WITHOUT BIT	1698.5MM
WEIGHT	550KG

ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB RING
3	CHECK VALVE
4	SPRING
5	SHOCK RING
6	CHECK VALVE GUIDE
7	AIR DISTRIBUTOR GUIDE
8	PRESSURE BEARING RING
9	AIR DISTRIBUTOR TUBE
10	PISTON
11	OUTER CYLINDER
12	BUSH DRIVE SUB
13	O RING
14	BIT RETAINING RING
15	STEEL RING
16	CHUCK SLEEVE

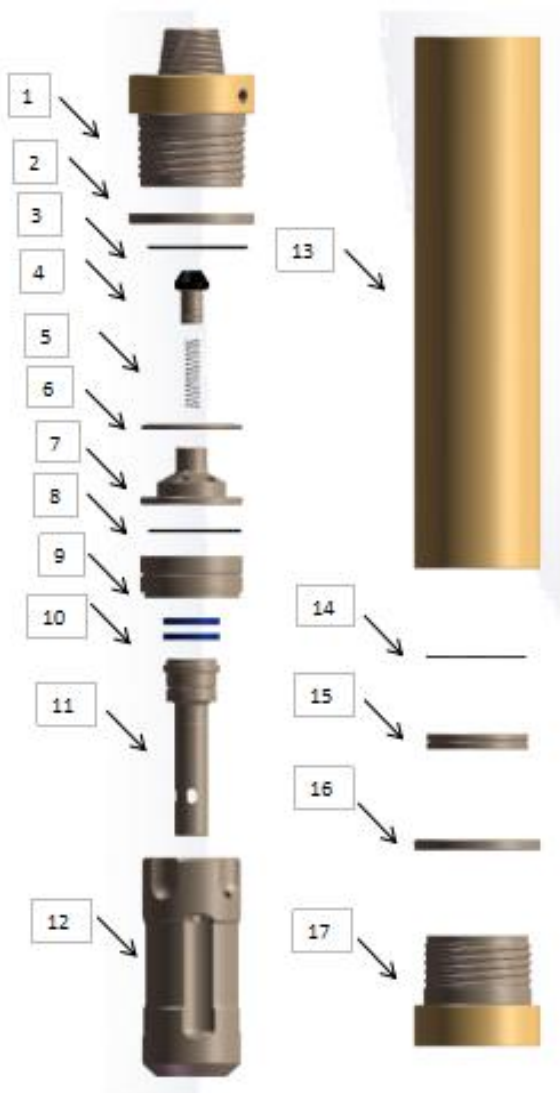


NUMA120

GENERAL 305MM,311MM 350MM,400MM,445MM.

CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC, SEMI BALLISTIC ARE AVAILABLE

JS14 -NUMA125 (VALVED)



PRODUCT NAME	JS14-NUMA125 VALVED
BIT SHANK	NUMA125 WITH FOOT VALVE
CONNECTION THREAD	API 6 5/8 REG
MAX. WORKING PRESSURE	30 BAR
AIR CONSUMPTION	85m³/min (18BAR)
RECOMMEND ROTATION SPEED	15-40 r/min
OUTER DIAMETER	330MM
REC HOLE SIZE	350-450MM
LENGTH WITHOUT BIT	1954MM
WEIGHT	894KG

ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	STEEL RING
3	TOP SUB RING
4	CHECK VALVE
5	SPRING
6	SHOCK RING
7	CHECK VALVE GUIDE
8	O RING
9	AIR DISTRIBUTOR GUIDE
10	PRESSURE BEARING RING
11	AIR DISTRIBUTOR TUBE
12	PISTON
13	OUTER CYLINDER
14	O RING
15	BIT RETAINING RING
16	STEEL RING
17	CHUCK SLEEVE

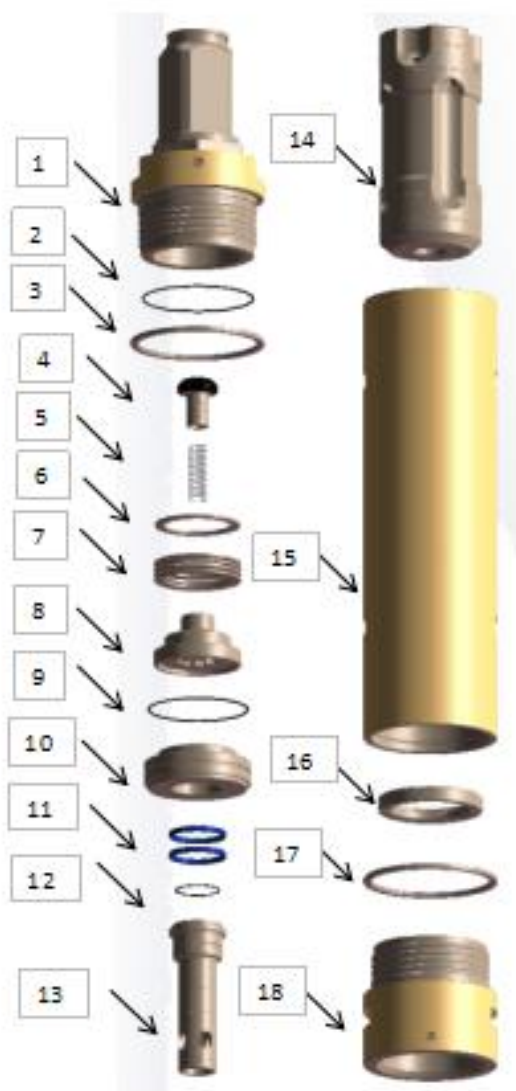


NUMA125

GENERAL 400MM,450MM 500MM.

CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC,
SEMI BALLISTIC ARE AVAILABLE

JS18 -NUMA180 (VALVED)



PRODUCT NAME	JS18-NUMA180VALVED
BIT SHANK	NUMA180 WITH FOOT VALVE
CONNECTION THREAD	HEX
MAX. WORKING PRESSURE	30 BAR
AIR CONSUMPTION	110m³/min (18BAR)
RECOMMEND ROTATION	15-30 r/min
OUTER DIAMETER	406MM
REC HOLE SIZE	450-600MM
LENGTH WITHOUT BIT	1954MM
WEIGHT	1493KG

ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB O RING
3	STEEL RING
4	CHECK VALVE
5	SPRING
6	SHOCK RING
7	BELLEVILLE SPRING
8	CHECK VALVE GUIDE
9	O RING
10	AIR DISTRIBUTOR GUIDE
11	PRESSURE BEARING RING
12	O RING
13	AIR DISTRIBUTOR TUBE
14	PISTON
15	OUTER CYLINDER
16	BIT RETAINING RING
17	STEEL RING
18	CHUCK SLEEVE



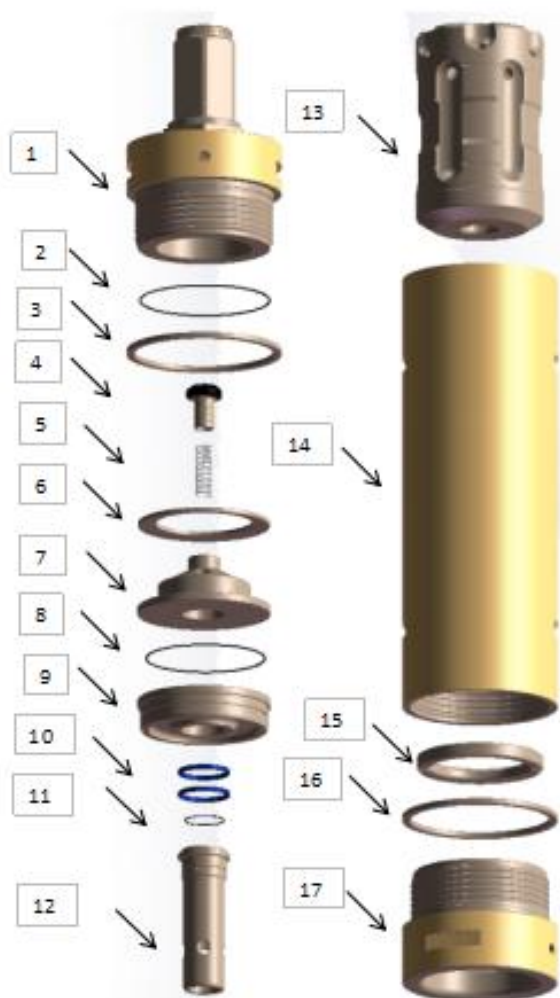
12 Spline

NUMA180

GENERAL 500MM,550MM 600MM,700MM,800MM.

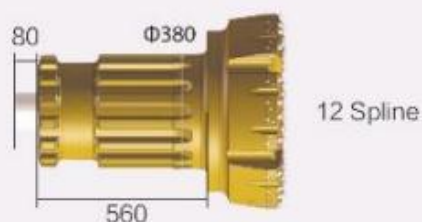
CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC, SEMI BALLISTIC ARE AVAILABLE

JS24 -NUMA240(VALVED)



PRODUCT NAME		JS24-NUMA240
BIT SHANK		NUMA240 WITH FOOT
		VALVE
CONNECTION THREAD		HEX
MAX. WORKING PRESSURE		30 BAR
AIR CONSUMPTION		130m ³ /min (18BAR)
RECOMMEND	ROTATION	15-25 r/min
OUTER DIAMETER		525MM
REC HOLE SIZE		500-1000MM
LENGTH WITHOUT BIT		2543.5MM
WEIGHT		2598KG

ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB RING
3	STEEL RING
4	CHECK VALVE
5	SPRING
6	SHOCK RING
7	CHECK VALVE GUIDE
8	O RING
9	AIR DISTRIBUTOR GUIDE
10	PRESSURE BEARING RING
11	O RING
12	AIR DISTRIBUTOR TUBE
13	PISTON
14	OUTER CYLINDER
15	BIT RETAINING RING
16	STEEL RING
17	CHUCK SLEEVE

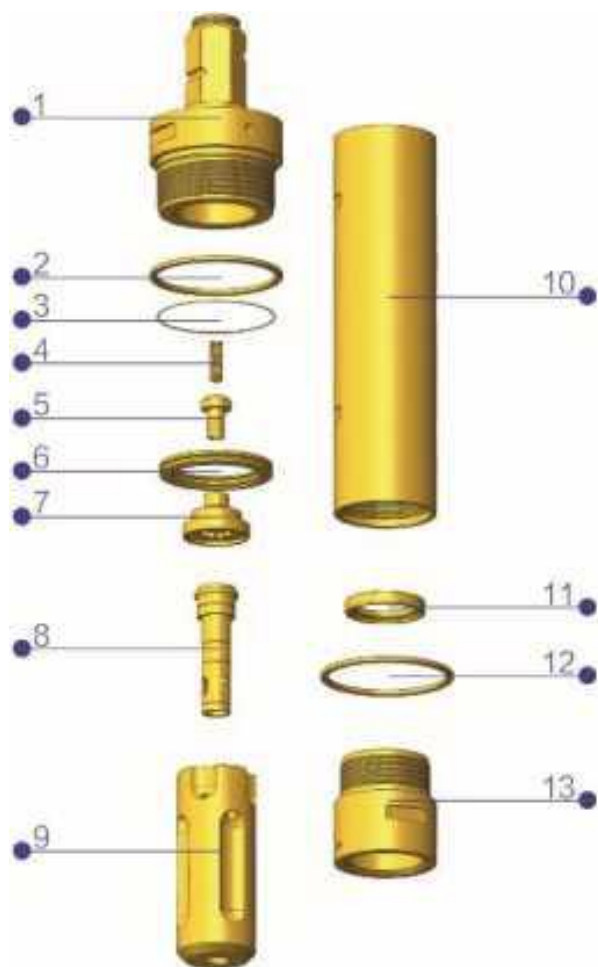


NUMA240

GENERAL 600MM,800MM 1000MM.

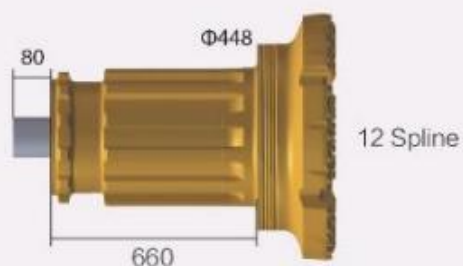
CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC,
SEMI BALLISTIC ARE AVAILABLE

JS28 -NUMA280(VALVED)



PRODUCT NAME	JS28-NUMA280VALVED
BIT SHANK	NUMA280 WITH FOOT VALVE
CONNECTION THREAD	HEX
MAX. WORKING PRESSURE	30 BAR
AIR CONSUMPTION	150m ³ /min (18BAR)
RECOMMEND ROTATION	15-25 r/min
OUTER DIAMETER	650MM
REC HOLE SIZE	800-1000MM
LENGTH WITHOUT BIT	2610MM
WEIGHT	4236KG

ITEM DESCRIPTION	
NO	PART LIST
1	BACK ADAPTOR
2	ORING
3	STELL PAD RING
4	CHECKVALVE
5	SRPING
6	BELLEVILLE SPRING
7	CHECK VALVE GUIDE
8	FEED TUBE
9	PISTON
10	OUTER CYLINDER
11	BIT RETAINER RING
12	STELL PAD RING
13	CHUCK SLEEVE

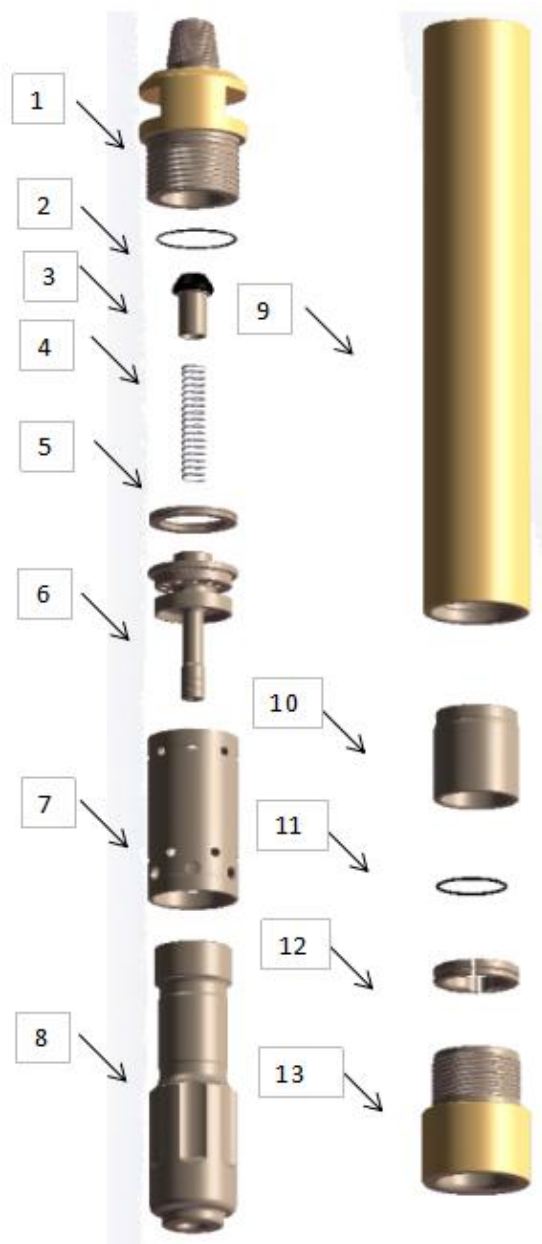


TH28

GENERAL 800MM,900MM 1000MM

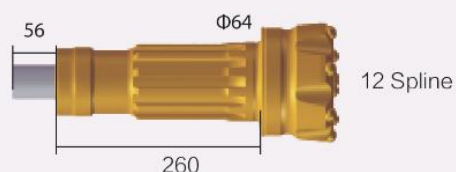
CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC,
SEMI BALLISTIC ARE AVAILABLE

JS5 - QL50 (VALVED)



PRODUCT NAME	JS5-QL50 VALVED
BIT SHANK	QL50 WITH FOOT VALVE
CONNECTION THREAD	API 3 1/2 REG
MAX. WORKING PRESSURE	28 BAR
AIR CONSUMPTION	17.6m³/min (18BAR)
RECOMMEND ROTATION SPEED	25-55 r/min
OUTER DIAMETER	126MM
REC HOLE SIZE	135-152MM
LENGTH WITHOUT BIT	1070MM
WEIGHT	68.5KG

ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB RING
3	CHECK VALVE
4	SPRING
5	SHOCK RING
6	AIR DISTRIBUTOR
7	INNER CYLINDER
8	PISTON
9	OUTER CYLINDER
10	BUSH DRIVE SUB
11	O RING
12	BIT RETAINING RING
13	CHUCK SLEEVE

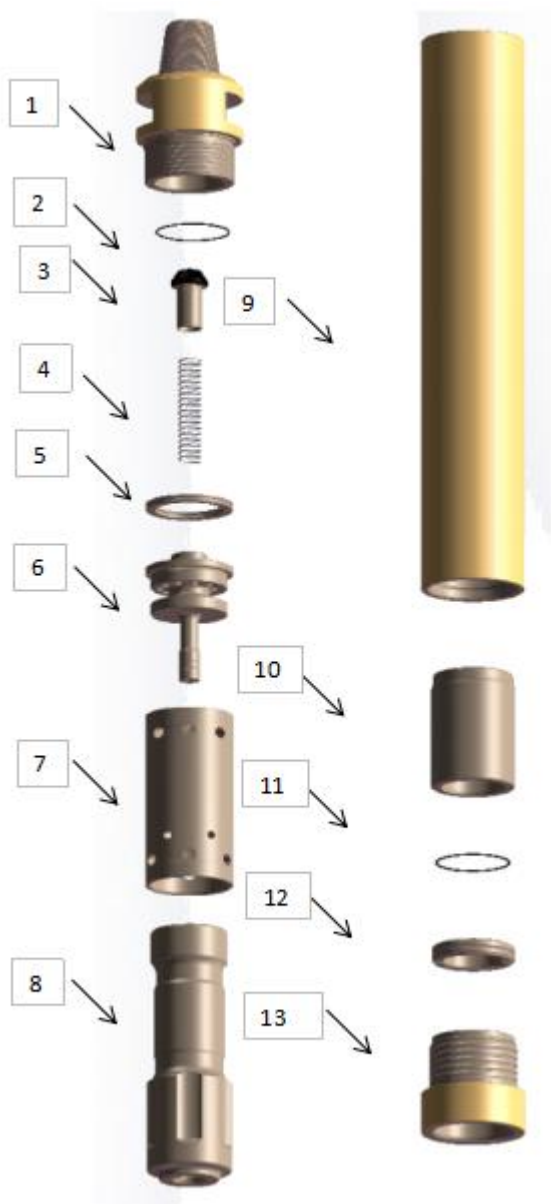


QL50

GENERAL 140MM,152MM 160MM,165MM,178MM.

CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC,
SEMI BALLISTIC ARE AVAILABLE

JS6 -QL60 STANDARD (VALVED)



PRODUCT NAME	JS6-QL60 STANDARD VALVED
BIT SHANK	QL60 WITH FOOT VALVE
CONNECTION THREAD	API 3 1/2 REG
MAX. WORKING PRESSURE	30 BAR
AIR CONSUMPTION	22m³/min (18BAR)
RECOMMEND ROTATION SPEED	25-55r/min
OUTER DIAMETER	146MM
REC HOLE SIZE	155-190MM
LENGTH WITHOUT BIT	1164MM
WEIGHT	99.6KG

ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB RING
3	CHECK VALVE
4	SPRING
5	SHOCK RING
6	AIR DISTRIBUTOR
7	INNER CYLINDER
8	PISTON
9	OUTER CYLINDER
10	BUSH DRIVE SUB
11	O RING
12	BIT RETAINING RING
13	CHUCK SLEEVE



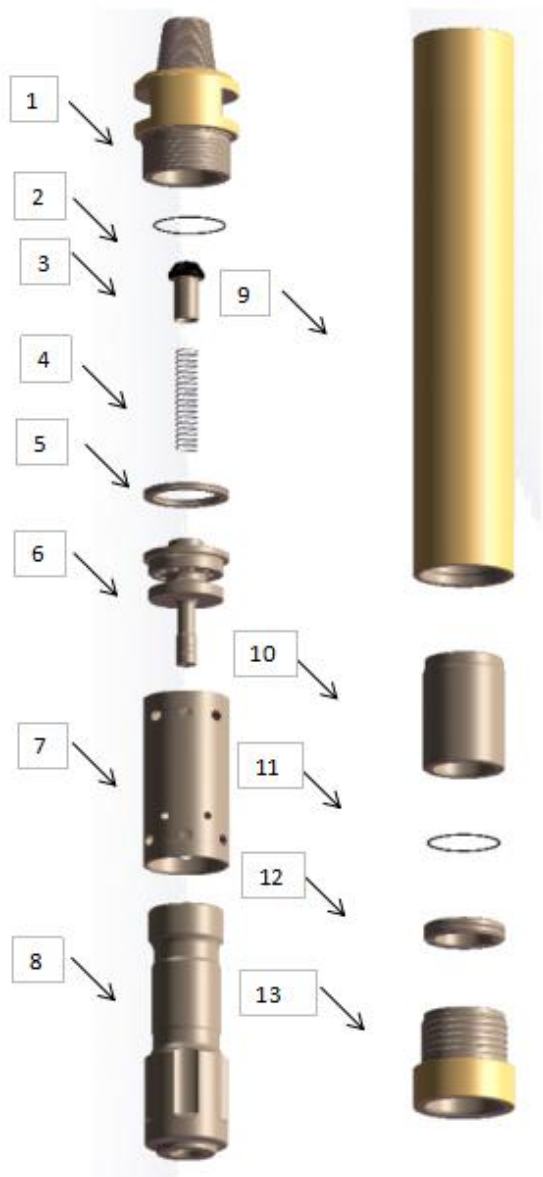
12 Spline

QL60

GENERAL 152MM,165MM 171MM,185MM,190MM,
203MM

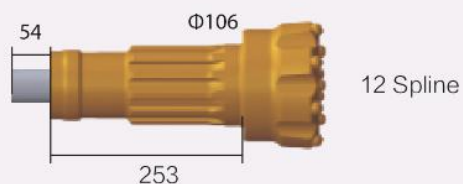
CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC,
SEMI BALLISTIC ARE AVAILABLE

JS6 - QL60 LARGE (VALVED)



PRODUCT NAME	JS6-QL60 LARGE VALVED
BIT SHANK	QL60 WITH FOOT VALVE
CONNECTION THREAD	API 3 1/2 REG
MAX. WORKING PRESSURE	30 BAR
AIR CONSUMPTION	22m³/min (18BAR)
RECOMMEND ROTATION SPEED	25-55r/min
OUTER DIAMETER	150MM
REC HOLE SIZE	160-200MM
LENGTH WITHOUT BIT	1164MM
WEIGHT	106KG

ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB RING
3	CHECK VALVE
4	SPRING
5	SHOCK RING
6	AIR DISTRIBUTOR
7	INNER CYLINDER
8	PISTON
9	OUTER CYLINDER
10	BUSH DRIVE SUB
11	O RING
12	BIT RETAINING RING
13	CHUCK SLEEVE

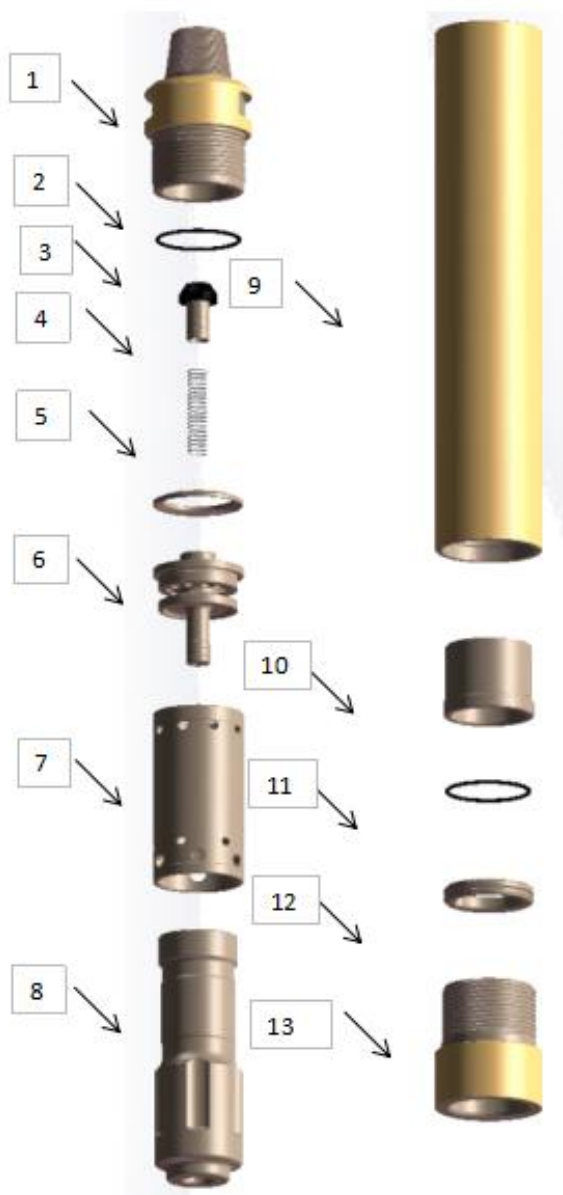


QL60

GENERAL 152MM,165MM 171MM,185MM,190MM,
203MM

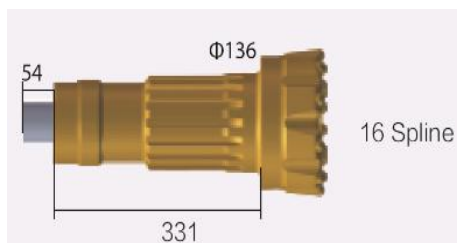
CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC,
SEMI BALLISTIC ARE AVAILABLE

JS8 - QL80 (VALVED)



PRODUCT NAME	JS8 - QL80 VALVED
BIT SHANK	QL80 WITH FOOT VALVE
CONNECTION THREAD	API 4 1/2 REG
MAX. WORKING PRESSURE	30 BAR
AIR CONSUMPTION	30.8m³/min (18BAR)
RECOMMEND ROTATION SPEED	25-50r/min
OUTER DIAMETER	185MM
REC HOLE SIZE	200-254MM
LENGTH WITHOUT BIT	1366MM
WEIGHT	180KG

ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB RING
3	CHECK VALVE
4	SPRING
5	SHOCK RING
6	AIR DISTRIBUTOR
7	INNER CYLINDER
8	PISTON
9	OUTER CYLINDER
10	BUSH DRIVE SUB
11	O RING
12	BIT RETAINING RING
13	CHUCK SLEEVE

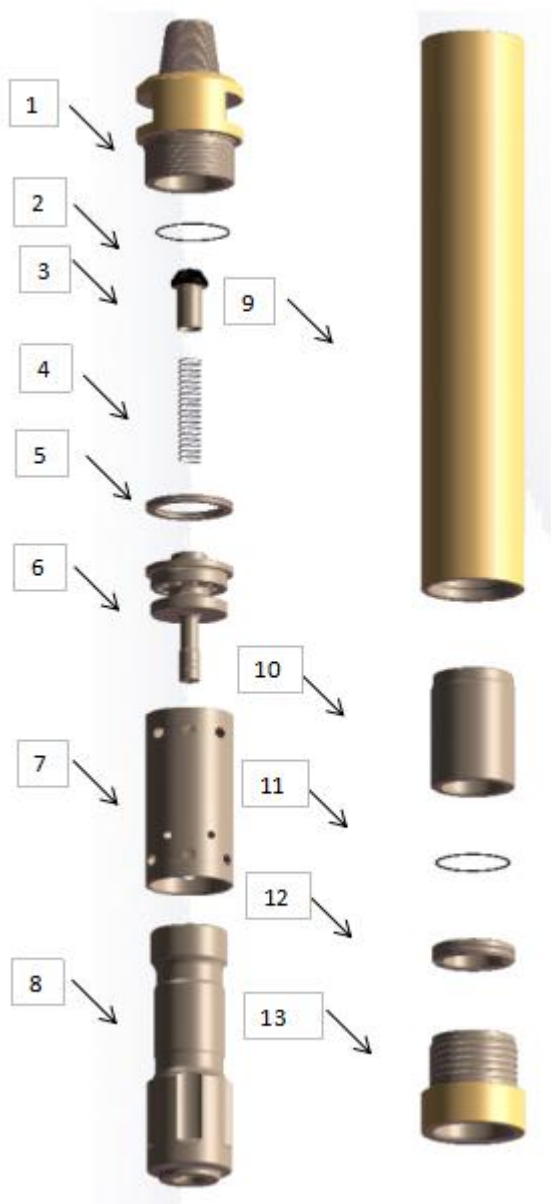


QL80

GENERAL 203MM,219MM 240MM,254MM,279MM.

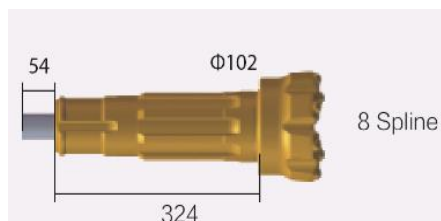
CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC,
SEMI BALLISTIC ARE AVAILABLE

JS6 -SD6 STANDARD (VALVED)



PRODUCT NAME	JS6 - SD6 STANDARD VALVED
BIT SHANK	SD6 WITH FOOT VALVE
CONNECTION THREAD	API 3 1/2 REG
MAX. WORKING PRESSURE	30 BAR
AIR CONSUMPTION	22m³/min (18BAR)
RECOMMEND ROTATION SPEED	25-55r/min
OUTER DIAMETER	146MM
REC HOLE SIZE	155-190MM
LENGTH WITHOUT BIT	1164MM
WEIGHT	99.6KG

ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB RING
3	CHECK VALVE
4	SPRING
5	SHOCK RING
6	AIR DISTRIBUTOR
7	INNER CYLINDER
8	PISTON
9	OUTER CYLINDER
10	BUSH DRIVE SUB
11	O RING
12	BIT RETAINING RING
13	CHUCK SLEEVE

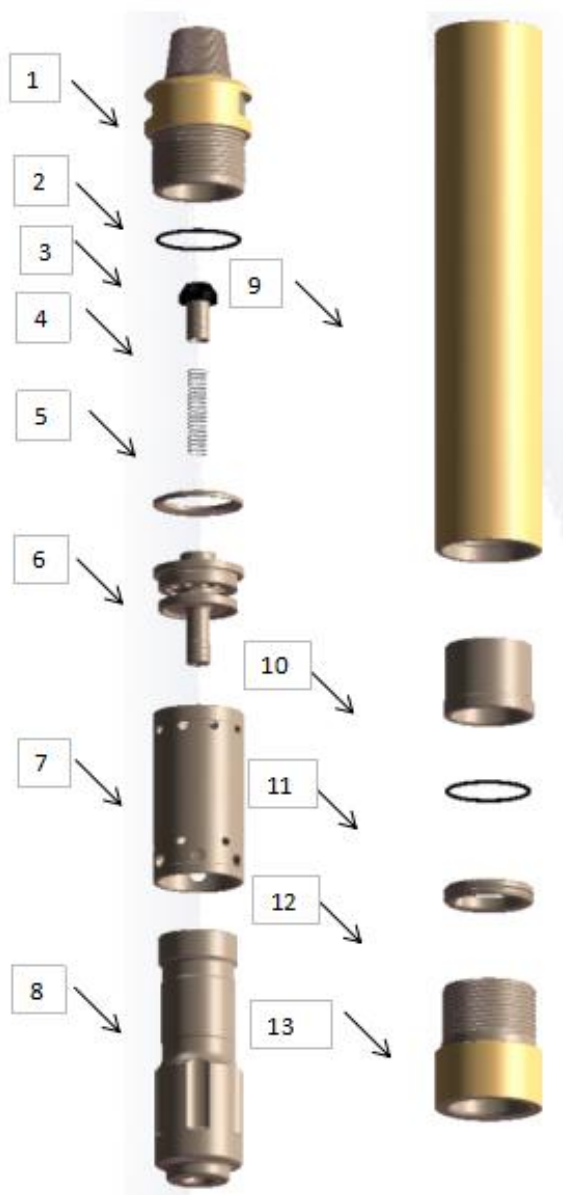


SD6

GENERAL 152MM,165MM 171MM,185MM,190MM,
203MM

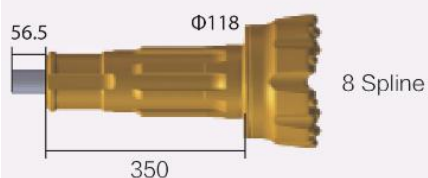
CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC,
SEMI BALLISTIC ARE AVAILABLE

JS8 - SD8 (VALVED)



PRODUCT NAME	JS8-SD8 VALVED
BIT SHANK	SD8 WITH FOOT VALVE
CONNECTION THREAD	API 4 1/2 REG
MAX. WORKING PRESSURE	30 BAR
AIR CONSUMPTION	30.8m³/min (18BAR)
RECOMMEND ROTATION SPEED	25-55r/min
OUTER DIAMETER	185MM
REC HOLE SIZE	200-254MM
LENGTH WITHOUT BIT	1366MM
WEIGHT	180KG

ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB RING
3	CHECK VALVE
4	SPRING
5	SHOCK RING
6	AIR DISTRIBUTOR
7	INNER CYLINDER
8	PISTON
9	OUTER CYLINDER
10	BUSH DRIVE SUB
11	O RING
12	BIT RETAINING RING
13	CHUCK SLEEVE

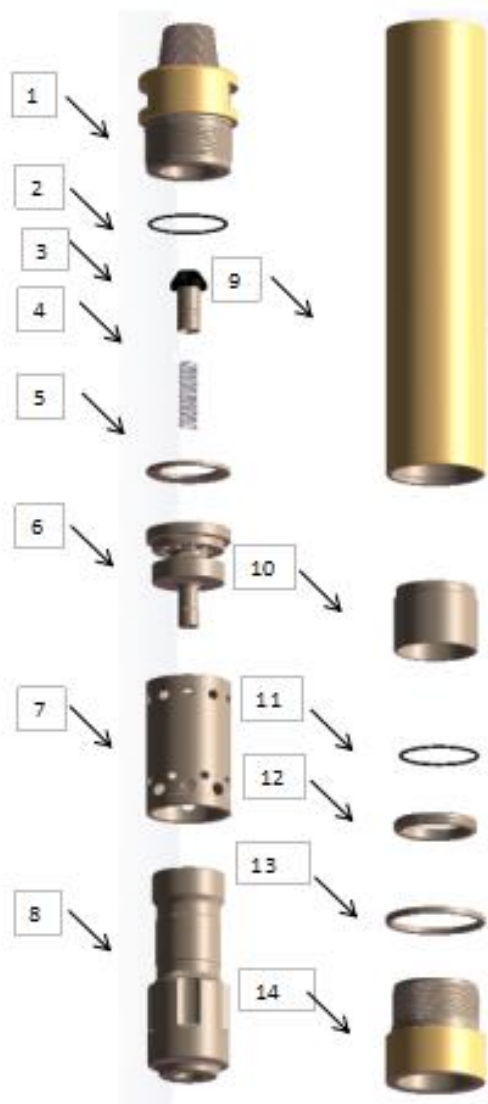


SD8

GENERAL 203MM,219MM 240MM,254MM,279MM.

CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC,
SEMI BALLISTIC ARE AVAILABLE

JS10 -SD10 (VALVED)



PRODUCT NAME	JS10-SD10 VALVED
BIT SHANK	SD10 WITHOUT FOOT VALVE
CONNECTION THREAD	API 5 1/2 REG
MAX. WORKING PRESSURE	30 BAR
AIR CONSUMPTION	45m³/min (18BAR)
RECOMMEND ROTATION SPEED	25-50 r/min
OUTER DIAMETER	220MM
REC HOLE SIZE	254-305MM
LENGTH WITHOUT BIT	1522MM
WEIGHT	295KG

ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB RING
3	CHECK VALVE
4	SPRING
5	SHOCK RING
6	AIR DISTRIBUTOR
7	INNER CYLINDER
9	OUTER CYLINDER
10	BUSH DRIVE SUB
11	O RING
12	BIT RETAINING RING
13	STEEL RING
14	CHUCK SLEEVE

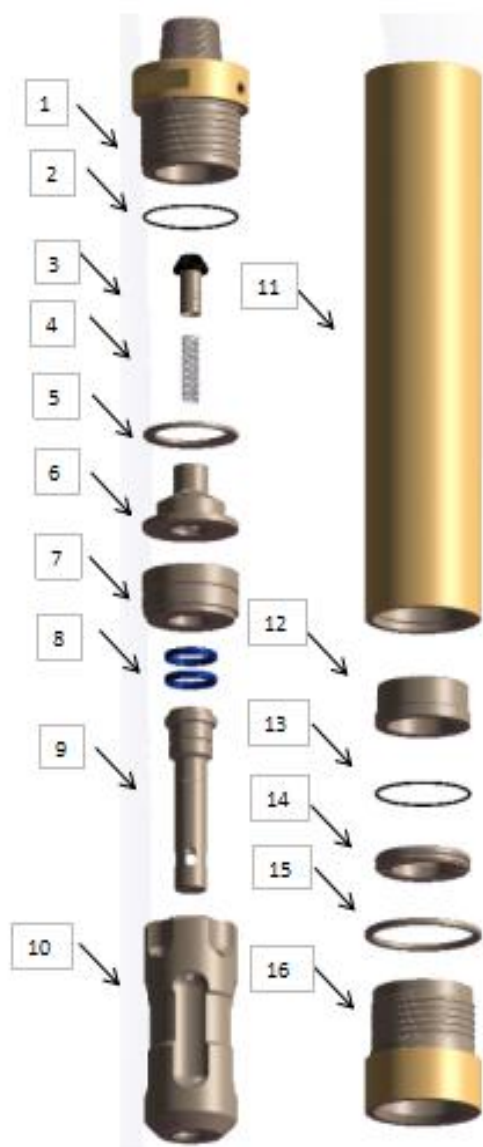


SD10

GENERAL 254MM,305MM 311MM,381MM,400MM

CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC, SEMI BALLISTIC ARE AVAILABLE

JS12 -SD12 (VALVED)



PRODUCT NAME	SD12-NUMA120 VALVED
BIT SHANK	SD12 WITH FOOT VALVE
CONNECTION THREAD	API 6 5/8 REG
MAX. WORKING PRESSURE	30 BAR
AIR CONSUMPTION	70m³/min (18BAR)
RECOMMEND ROTATION SPEED	15-40 r/min
OUTER DIAMETER	185MM
REC HOLE SIZE	305-350MM
LENGTH WITHOUT BIT	1698.5MM
WEIGHT	550KG

ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB (can insert carbides)
2	TOP SUB RING
3	CHECK VALVE
4	SPRING
5	SHOCK RING
6	CHECK VALVE GUIDE
7	AIR DISTRIBUTOR GUIDE
8	PRESSURE BEARING RING
9	AIR DISTRIBUTOR TUBE
10	PISTON
11	OUTER CYLINDER
12	BUSH DRIVE SUB
13	O RING
14	BIT RETAINING RING
15	STEEL RING
16	CHUCK SLEEVE

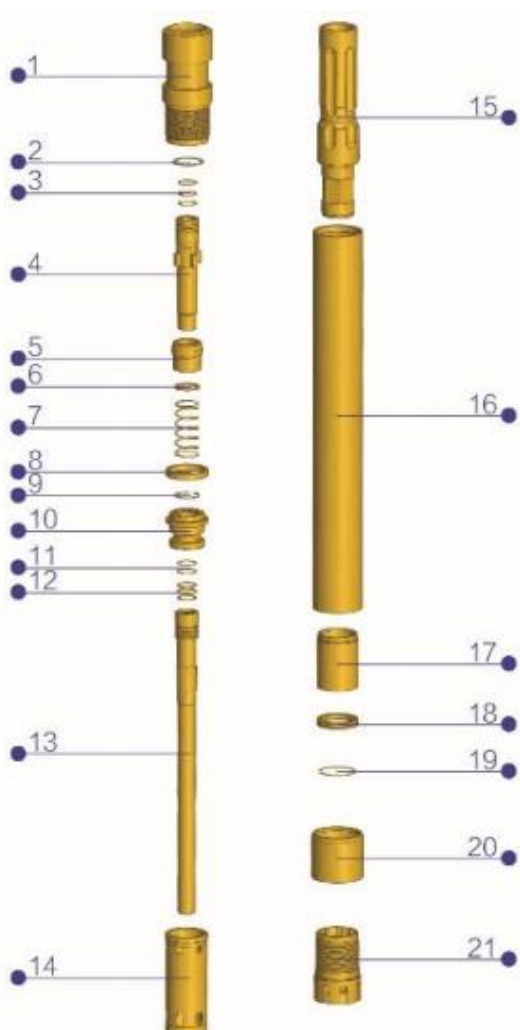


SD12

GENERAL 305MM,311MM 350MM,400MM,445MM.

CONVEX,CONCAVE,FLAT,SPHERICAL,BALLISTIC,
SEMI BALLISTIC ARE AVAILABLE

TH1080 RC HAMMER



ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB
2	HOLE RING
3	O RING FOR ADAPTOR TUBE
4	ADAPTOR TUBE
5	CHECK VALVE
6	Y-RING
7	SPRING
8	RUBBER RING
9	CIRCLIP
10	AIR DISTRIBUTING SEAT
11	INTERNAL O RING
12	EXTERNAL O RING
13	SAMPLE TUBE
14	INNER CYLINDER
15	PISTON
16	OUTER CYLINDER
17	BUSH DRIVE SUB
18	CHUCK RING
19	O RING FOR CHUCK RING
20	SHROUD
21	CHUCK SLEEVE

MAIN SPECIFICATIONS

THREAD CONNECTION	OUTER DIAMETER	LENGTH WITHOUT BIT	N.WEIGHT	REC.HOLE SIZE
REMET3.5",REMET4"METZKE4"	108MM	1050	50	115-130MM

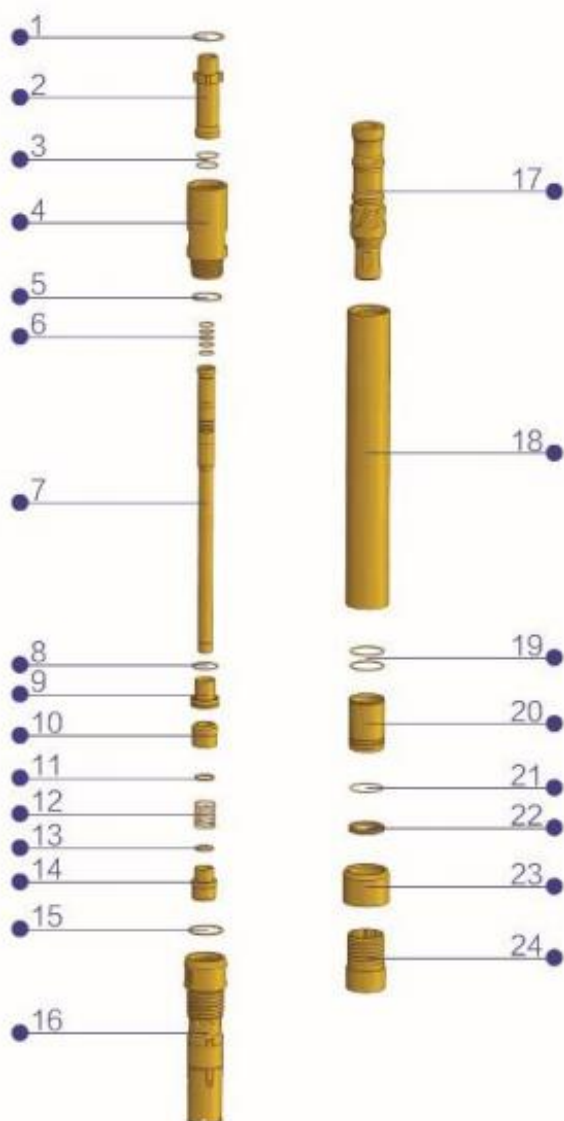


TH1080

GENERAL 115MM,121MM 127MM

DROPCENTER,SPHERICAL,BALLISTIC,SEMI
BALLISTIC ARE AVAILABLE

TH1162(RE543) RC HAMMER



ITEM DESCRIPTION	
NO	PART LIST
1	HOLE RING
2	ADAPTOR TUBE
3	O RING FOR ADAPTOR TUBE
4	TOP SUB
5	HOLE RING FOR THE INNER CYLINDER
6	O RING FOR THE SAMPLE TUBE
7	SAMPLE TUBE
8	O RING FOR THE AIR SCREEN
9	AIR SCREEN
10	CHECK VALVE
11	YRING
12	SPRING
13	O RING FOR TUBE SEAT
14	TUBE SEAT
15	O RING FOR INNER CYLINDER
16	INNER CYLINDER
17	PISTON
18	OUTER CYLINDER
19	O RING FOR BUSH DRIVE SUB
20	BUSH DRIVE SUB
21	O RING FOR CHUCK RING
22	CHUCK RING
23	SHROUD
24	CHUCK SLEEVE

MAIN SPECIFICATIONS

THREADCONNECTION	OUTER DIAMETER	LENGTH WITHOUT BIT	N.WEIGHT	REC.HOLE SIZE
METZKE4"REMETS4",REMETS4.5"	116MM	1191	61.5	120-133MM

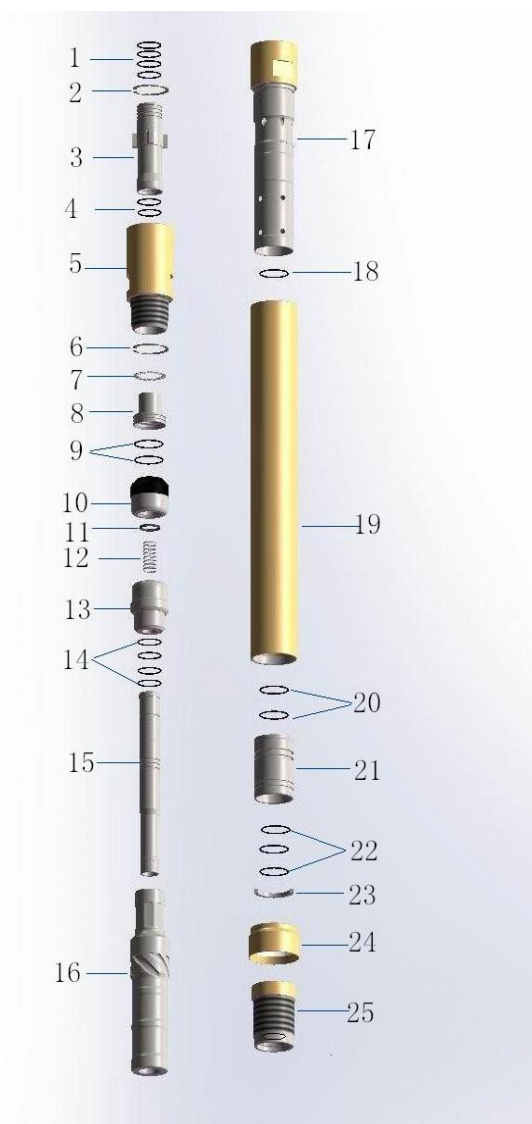


TH1162

GENERAL 121MM,127MM 133MM,139MM.

DROP CENTER, SPHERICAL, BALLISTIC,
SEMI BALLISTIC ARE AVAILABLE

TH1186(RE545) RC HAMMER



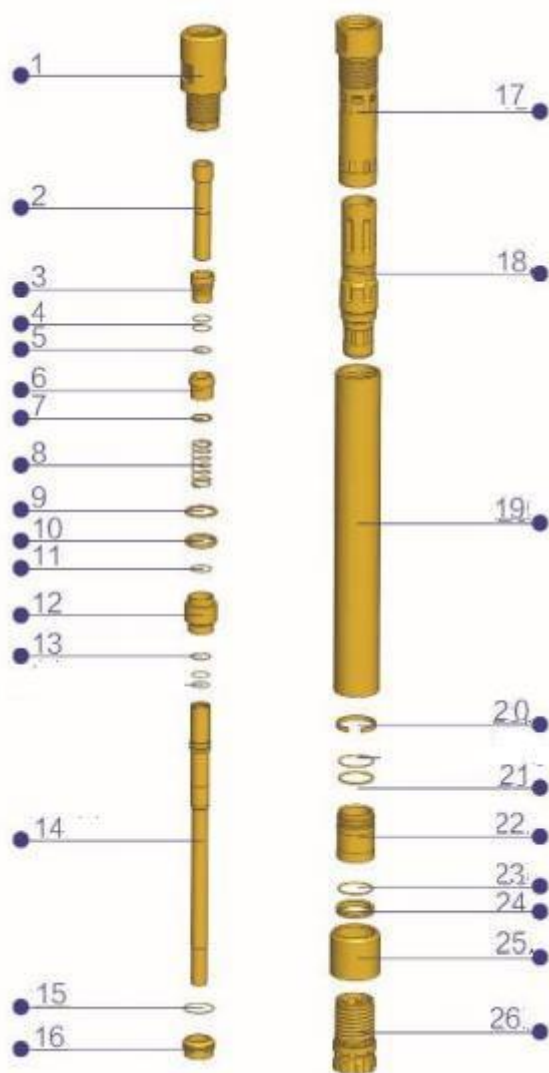
ITEM DESCRIPTION	
NO	PART LIST
1	O RING
2	HOLE RING
3	ADAPTOR TUBE
4	AXLE RING FOR ADAPTER TUBE
5	TOP SUB
6	ALUMINUM GASKET
7	O RING
8	AIR SCREEN
9	O RING
10	CHECK VALVE
11	Y RING
12	SRING
13	TUBE SEAT
14	O RING
15	SAMPLE TUBE
16	PISTON
17	INNER CYLINDER
18	O RING
19	OUTER CYLINDER
20	O RING
21	BUSH DRIVE SUB
22	O RING
23	BIT RETAINER RING
24	SHROUD
25	CHUCK SLEEVE

MAIN SPECIFICATIONS

THREADCONNECTION	OUTER DIAMETER	LENGTH WITHOUT BIT	N.WEIGHT	REC.HOLE SIZE
REMET4",REMET 4.5"	118MM	1215MM	67	7-140MM
METZKE4",METZKE 4.5"				



TH1214(RE040) RC HAMMER



ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB
2	ADAPTOR TUBE
3	AIR SCREEN
4	O RING FOR AIR SCREEN
5	AXLE RING FOR ADAPTER TUBE
6	CHECK VALVE
7	Y-RING
8	SPRING
9	UP RING
10	RUBBER RING
11	O RING FOR AIR DISTRIBUTING SEAT
12	AIR DISTRIBUTING SEAT
13	O RING FOR SAMPLE TUBE
14	SAMPLE TUBE
15	ORING FOR TUBE SEAT
16	TUBE SEAT
17	INNER CYLINDER
18	PISTON
19	OUTER CYLINDER
20	CHECK RING
21	O RING
22	BUSH DRIVE SUB
23	O RING
24	CHUCK RING
25	SHROUD
26	CHUCK SLEEVE

MAIN SPECIFICATIONS

THREAD CONNECTION	OUTER DIAMETER	LENGTH WITHOUT BIT	N.WEIGHT	REC.HOLE SIZE
REMET 4", REMET 4.5"	121MM	1234MM	73	120-133MM
METZKE 4", METZKE 4.5"				

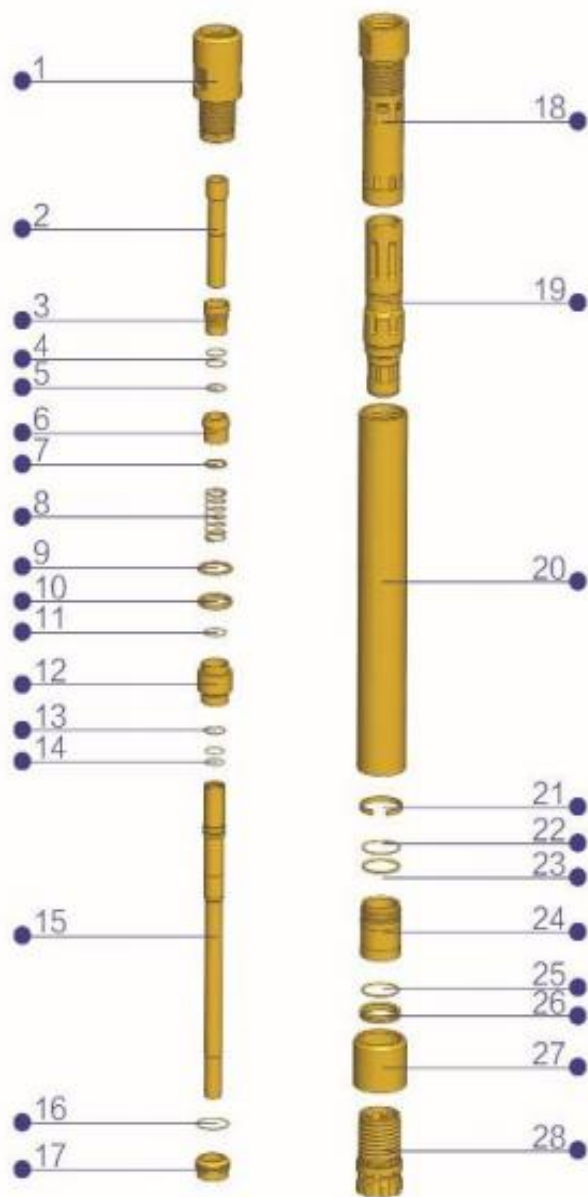


TH1214

GENERAL 121MM, 127MM 133MM, 139MM.

DROPCENTER, SPHERICAL, BALLISTIC,
SEMI BALLISTIC ARE AVAILABLE

TH1261(RE052) RC HAMMER



ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB
2	ADAPTOR TUBE
3	AIR SCREEN
4	O RING FOR AIR SCREEN
5	AXLE RING FOR ADAPTER TUBE
6	CHECK VALVE
7	YRING
8	SPRING
9	UP RING
10	RUBBER RING
11	O RING FOR AIR DISTRIBUTING SEAT
12	AIR DISTRIBUTING SEAT
13	EXTERNAL O RING FOR SAMLE TUBE
14	INTERNAL ORING FOR SAMPLE TUBE
15	SAMPLE TUBE
16	ORING FOR TUBE SEAT
17	TUBE SEAT
18	INNER CYLINDER
19	PISTON
20	OUTER CYLINDER
21	BIT RETAINER RING
22	O ING FOR BUSH DRIVE SUB
23	O RING FOR BUSH DRIVE SUB
24	BUSH DRIVE SUB
25	O RING FOR CHUCK RING
26	CHUCK RING
27	SHROUD
28	CHUCK SLEEVE

MAIN SPECIFICATIONS

THREADCONNECTION	OUTER DIAMETER	LENGTH WITHOUT BIT	N.WEIGHT	REC.HOLE SIZE
REMETS4",REMETS 4.5"	126MM	1272MM	76	140-152MM

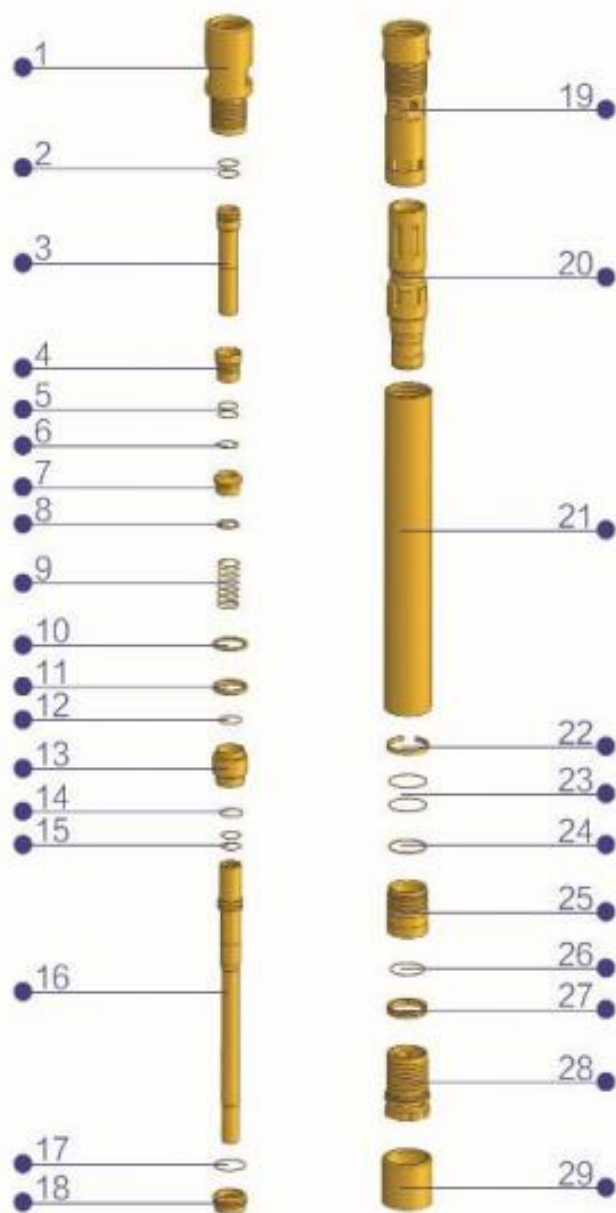


TH1261

GENERAL 133MM,137MM 140MM.

DROPCENTER,SPHERICAL,BALLISTIC,
SEMI BALLISTIC ARE AVAILABLE

TH1305(RE054) RC HAMMER



ITEM DESCRIPTION	
NO	PART LIST
1	TOP SUB
2	O RING FOR ADAPTOR TUBE
3	ADAPTOR TUBE
4	AIR SCREEN
5	O RING FOR AIR SCREEN
6	AXLE RING FOR ADAPTER TUBE
7	CHECKVALVE
8	YRING
9	SPRING
10	UP RING
11	RUBBER RING
12	ORING FOR AIR DISTR IBUTING SEAT
13	AIR DISTRIBUTING SEAT
14	EXTERNAL O RING FOR SAMLE TUBE
15	INTERNAL O RING FOR SAMPLE TUBE
16	SAMPLE TUBE
17	O RING FOR TUBE SEAT
18	TUBE SEAT
19	INNER CYLINDER
20	PISTON
21	OUTER CYLINDER
22	BIT RETAINER RING
23	O RING FOR BUSH DRIVE SUB
24	O RING FOR BUSH DRIVE SUB
25	BUSH DRIVE SUB
26	O RING FOR CHUCK RING
27	CHUCK RING
28	SHROUD
29	CHUCK SLEEVE

MAIN SPECIFICATIONS

THREADCONNECTION	OUTER DIAMETER	LENGTH WITHOUT BIT	N.WEIGHT	REC.HOLE SIZE
REM4.5",REM4.5"	130MM	1294MM	85	140-152MM





TEAMWHOLE



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