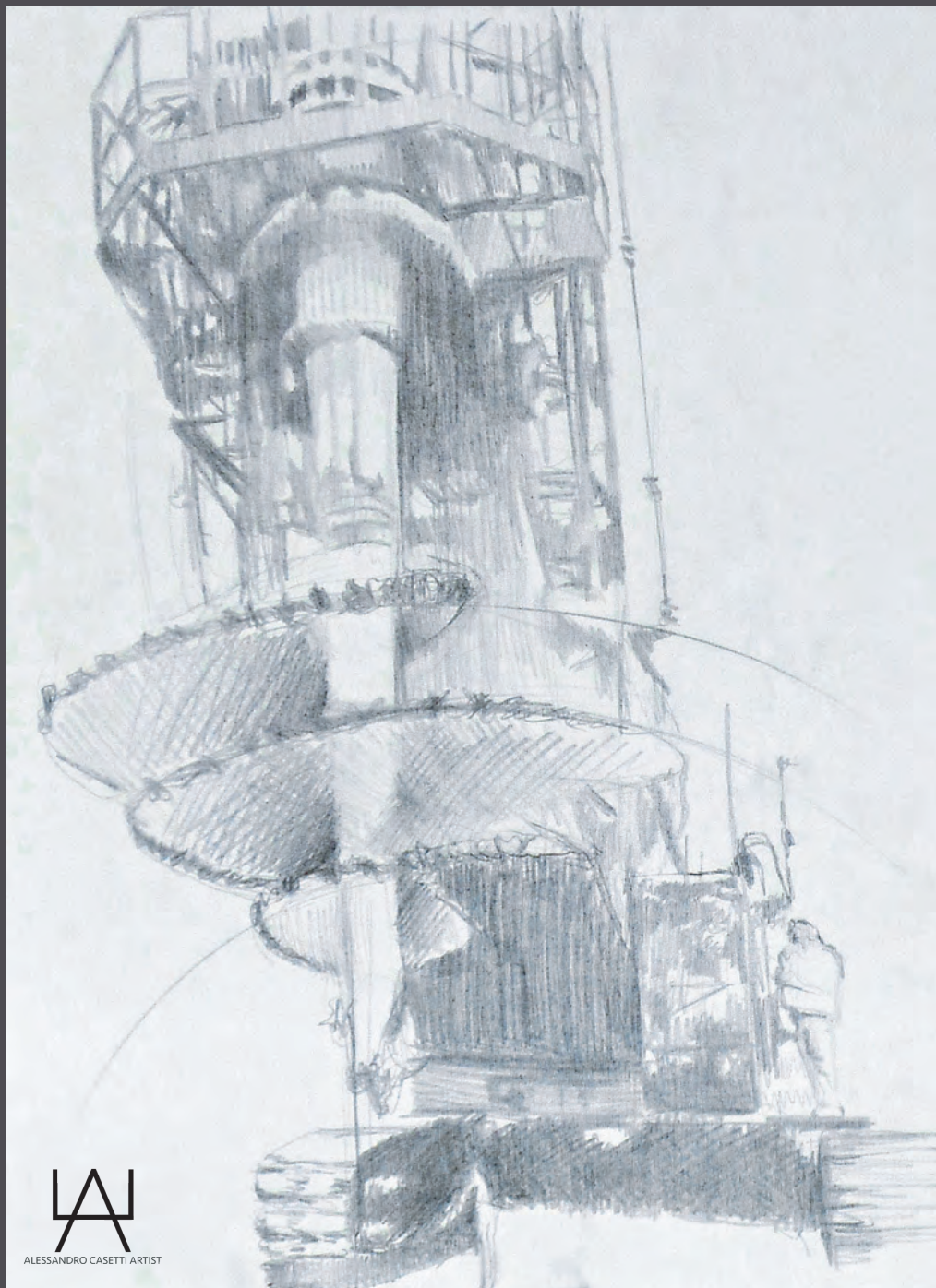


Drilling Tools




ALESSANDRO CASETTI ARTIST





Coarse - Cohesive Soil

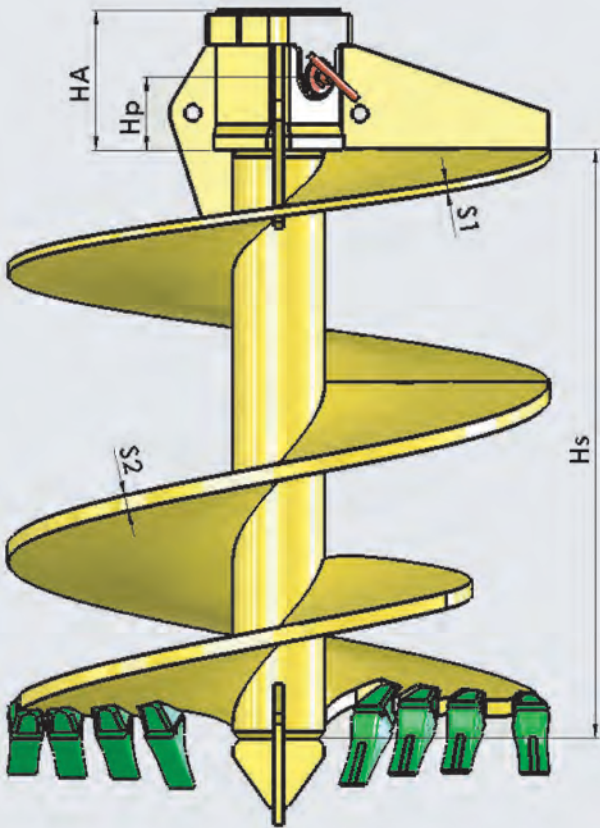
USCS (ASTM D-2487) Soil Description						Drilling Tool		
						BUCKET	AUGER	CORE BARREL
Coarse Grained Soils	Gravels > 50% of coarse fraction retained on N°4 sieve	Clean Gravels	GW	33°-45° 0 KPa	Well-graded gravels and gravel-sand mixtures, little or no fines	SSB-G00 SSB-G25 SSB-GC00	Not recommended*	Not recommended**
			GP	33°-45° 0 kPa	Well-graded gravels and gravel-sand mixtures, little or no fines	SSB-G00 SSB-G25 SSB-GC00	Not recommended*	Not recommended**
		Gravel with Fines	GM	30°-40° 0 KPa	Silty gravels, gravel-sand-silt mixtures.> 12% fines	SSB-G00 SSB-G25 SSB-GC00	Not recommended*	Not recommended**
			GC	30°-40° 0 KPa	Clayey gravels, gravel-sand-clay mixtures.>12% fines	SSB-G00 SSB-G25 SSB-GC00	Not recommended*	Not recommended**
	Sands >=50% of coarse fraction retained on N°4 sieve	Clean Sands	SW	30°-40° 0 KPa	Well grade sand, fine to coarse sand	SSB-G00; SSB-G25 SSB-GC00; SSB-W30	Not recommended*	Not recommended**
			SP	30°-40° 0 KPa	Poorly-graded sand	SSB-G00; SSB-G25 SSB-GC00; SSB-W30	Not recommended*	Not recommended**
		Sands with Fines	SM	28°-35° 0 KPa	Silty sand, sand-silt mixtures	SSB-G00; SSB-G25 SSB-GC00; SSB-W30 SSB-H05; SSB-CN60	SSA-26 SSA-30 SSA-36	Not recommended**
			SC	28°-35° 0 KPa	Clayey sands, sand-clay mixtures	SSB-G00; SSB-G25 SSB-GC00; SSB-W30 SSB-H05; SSB-CN60	SSA-26 SSA-30 SSA-36	Not recommended**
Fine Grained Soils	Silts and Clays liquid limit (LL)< 50		ML	0-200 KPa	Inorganic silts, very fine sands, rock flour, silty or clayey fine sands	SSB-00; SSB-W30 SSB-H05; SSB-CN60	SSA-20 SSA-30 SSA-36	Not recommended**
			CL	0-300 KPa	Inorganic clays of low to medium plasticity, gravelly/sandy/silty /ean clays	SSB-00; SSB-W30 SSB-H05; SSB-CN60	SSA-20 SSA-30 SSA-36	Not recommended**
			OL	0-200 KPa	Organic silts and organic silty clays of low plasticity	SSB-00; SSB-W30 SSB-H05; SSB-CN60	SSA-20 SSA-30 SSA-36	Not recommended**
	Silts and Clays liquid limit (LL)>= 50		MH	0-20 KPa	Silt of high plasticity, elastic silt	SSB-00; SSB-W30 SSB-H05; SSB-CN60 SSB-SP00; SSB-H01	SSA-20; SSA-21 SSA-30; SSA-36	Not recommended**
			CH	0-200 KPa	Clay of high plasticity, fat clay	SSB-00; SSB-W30 SSB-H05; SSB-CN60 SSB-SP00; SSB-H01	SSA-20; SSA-21 SSA-30; SSA-36	Not recommended**
			OH	0-10 KPa	Organic clay, organic silt	SSB-00; SSB-W30 SSB-H05; SSB-CN60 SSB-SP00; SSB-H01	SSA-20; SSA-21 SSA-30; SSA-36	Not recommended**
	Highly Organic Soils	Pt	0-10 KPa	Peat muck and other highly organics soils	SSB-00; SSB-W30 SSB-H05; SSB-CN60 SSB-SP00; SSB-H01	SSA-20; SSA-21 SSA-30; SSA-36	Not recommended**	

Reference scheme for reading the following tables

Kelly box type	130x130	150x150	200x200
HA (mm)	260	300	435
Hp (mm)	150	160	124

The weight shown in the tables refers to tools with kelly box 130 x 130

The teeth type to choose must be related to tool diameter

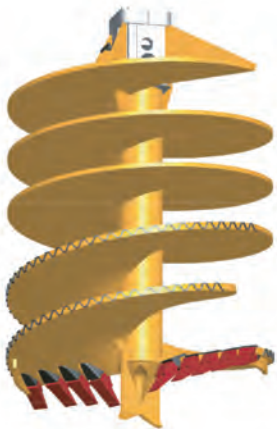


SSA - 20
(Auger)

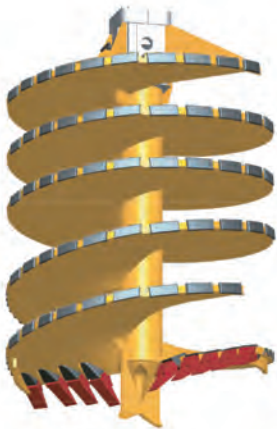
AUGER for fine grained and organic soils like silty or clayey fine sands, organic/inorganic silts; high/medium/low plasticity clays; fat clays; peat; muck.

USCS soils: ML, CL, OL, MH, CH, OH, Pt .

M type



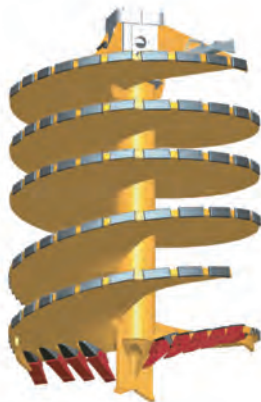
D type



D [mm]	Kelly Box 130 x 130	kelly Box 150 x 150	kelly Box 200 x 200	Hs [mm]	S1/S2 [mm]	Teeth	Appr. Weight [kg]
400	(M/D) L040120VV	(M/D) L040120X		1500	20/35	Esco V18	260
500	(M/D) L050120VV	(M/D) L050120X	(M/D) L050120Z	1500	20/35	Esco V18	330
600	(M/D) L060120VV	(M/D) L060120X	(M/D) L060120Z	1500	20/35	Esco V18	410
700	(M/D) L070120VV	(M/D) L070120X	(M/D) L070120Z	1500	20/35	Esco V18	490
800	(M/D) L080120VV	(M/D) L080120X	(M/D) L080120Z	1500	20/40	Esco V18	560
900	(M/D) L090120VV	(M/D) L090120X	(M/D) L090120Z	1500	20/40	Esco V18	650
1000	(M/D) L100120WU	(M/D) L100120XU	(M/D) L100120ZU	1500	20/40	Esco U20	720
1100	(M/D) L110120WU	(M/D) L110120XU	(M/D) L110120ZU	1500	20/40	Esco U20	780
1200	(M/D) L120120WU	(M/D) L120120XU	(M/D) L120120ZU	1500	20/40	Esco U20	910
1300	(M/D) L130120WU	(M/D) L130120XU	(M/D) L130120ZU	1500	20/40	Esco U20	1070
1400	(M/D) L140120WU	(M/D) L140120XU	(M/D) L140120ZU	1500	20/40	Esco U20	1250
1500	(M/D) L150120WU	(M/D) L150120XU	(M/D) L150120ZU	1500	20/40	Esco U20	1510
1600	(M/D) L160120WU	(M/D) L160120XU	(M/D) L160120ZU	1500	20/40	Esco U20	1680
1700	(M/D) L170120WU	(M/D) L170120XU	(M/D) L170120ZU	1500	20/40	Esco U20	1870
1800	(M/D) L180120WU	(M/D) L180120XU	(M/D) L180120ZU	1500	20/40	Esco U20	2075
1900	(M/D) L190120WU	(M/D) L190120XU	(M/D) L190120ZU	1500	20/40	Esco U20	2440
2000	(M/D) L200120WU	(M/D) L200120XU	(M/D) L200120ZU	1500	20/40	Esco U20	2650

SSA - 30

(Heavy Duty Auger)

M type**D type**

Heavy Duty AUGER for sand with fines, fine grained and organic soils like silty sands, sand-silt mixtures, clayey sand, sand-clay mixtures, organic and inorganic silts; high/medium/low plasticity clays; fat clays; peat; muck.

USCS soils: SM, SC, ML, CL, OL, MH, CH, OH, Pt.

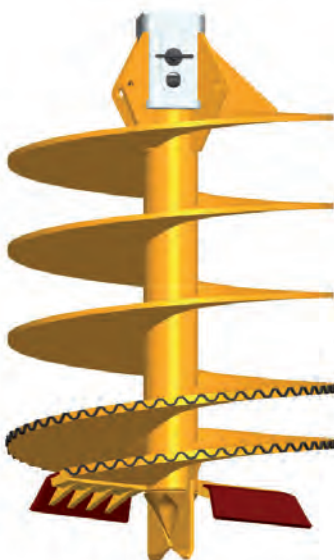
D [mm]	Kelly Box 130 x 130	kelly Box 150 x 150	kelly Box 200 x 200	Hs [mm]	S1/S2 [mm]	Teeth	Appr. Weight [kg]
400	(M/D) H040130W	(M/D) H040130X		1800	20/35	Esco V18	375
500	(M/D) H050130W	(M/D) H050130X	(M/D) H050130Z	1800	20/35	Esco V18	460
600	(M/D) H060130W	(M/D) H060130X	(M/D) H060130Z	1800	20/35	Esco V18	510
700	(M/D) H070130W	(M/D) H070130X	(M/D) H070130Z	1800	20/35	Esco V18	625
800	(M/D) H080130WU	(M/D) H080130XU	(M/D) H080130ZU	1800	25/40	Esco U20	745
900	(M/D) H090130WU	(M/D) H090130XU	(M/D) H090130ZU	1800	25/40	Esco U20	875
1000	(M/D) H100130WU	(M/D) H100130XU	(M/D) H100130ZU	1800	25/40	Esco U20	1040
1100	(M/D) H110130WU	(M/D) H110130XU	(M/D) H110130ZU	1800	25/40	Esco U20	1125
1200	(M/D) H120130WU	(M/D) H120130XU	(M/D) H120130ZU	1800	25/40	Esco U20	1295
1300	(M/D) H130130WU	(M/D) H130130XU	(M/D) H130130ZU	1800	25/40	Esco U20	1475
1400	(M/D) H140130WU	(M/D) H140130XU	(M/D) H140130ZU	1800	25/40	Esco U20	1685
1500	(M/D) H150130WU	(M/D) H150130XU	(M/D) H150130ZU	1800	25/40	Esco U25	1340
1600	(M/D) H160130WU	(M/D) H160130XU	(M/D) H160130ZU	1800	25/40	Esco U25	1485
1700	(M/D) H170130WU	(M/D) H170130XU	(M/D) H170130ZU	1800	25/40	Esco U25	1645
1800	(M/D) H180130WU	(M/D) H180130XU	(M/D) H180130ZU	1800	25/40	Esco U25	1810
1900	(M/D) H190130WU	(M/D) H190130XU	(M/D) H190130ZU	1800	25/40	Esco U25	1985
2000	(M/D) H200130WU	(M/D) H200130XU	(M/D) H200130ZU	1800	25/40	Esco U25	2170
2200	(M/D) H220130WU	(M/D) H220130XU	(M/D) H220130ZU	1800	25/40	Esco U25	2575
2500	(M/D) H250130WU	(M/D) H250130XU	(M/D) H250130ZU	1800	25/40	Esco U25	3180
2800	(M/D) H280130WU	(M/D) H280130XU	(M/D) H280130ZU	1800	25/40	Esco U25	3450
3000	(M/D) H300130WU	(M/D) H300130XU	(M/D) H300130ZU	1800	25/40	Esco U25	3880

SSA - 21

(Double Blade Auger)

AUGER for highly organic soil; high/medium plasticity clays; fat clays; peat; muck.

USCS soils: MH, CH, OH, Pt.

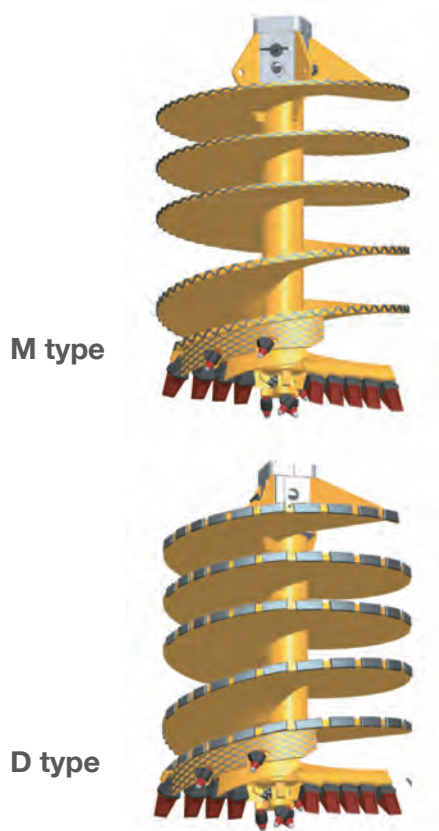
M type

D [mm]	Kelly Box 130 x 130	kelly Box 150 x 150	kelly Box 200 x 200	Hs [mm]	S1/S2 [mm]	Teeth	Appr. Weight [kg]
400	(M/D) L040121W	(M/D) L040121X		1500	20/35	Hardox Blade	375
500	(M/D) L050121W	(M/D) L050121X	(M/D) L050121Z	1500	20/35	Hardox Blade	460
600	(M/D) L060121W	(M/D) L060121X	(M/D) L060121Z	1500	20/35	Hardox Blade	510
700	(M/D) L070121W	(M/D) L070121X	(M/D) L070121Z	1500	20/35	Hardox Blade	625
800	(M/D) L080121W	(M/D) L080121X	(M/D) L080121Z	1500	20/40	Hardox Blade	745
900	(M/D) L090121W	(M/D) L090121X	(M/D) L090121Z	1500	20/40	Hardox Blade	875
1000	(M/D) L100121W	(M/D) L100121X	(M/D) L100121Z	1500	20/40	Hardox Blade	1040
1100	(M/D) L110121W	(M/D) L110121X	(M/D) L110121Z	1500	20/40	Hardox Blade	1125
1200	(M/D) L120121W	(M/D) L120121X	(M/D) L120121Z	1500	20/40	Hardox Blade	1295
1300	(M/D) L130121W	(M/D) L130121X	(M/D) L130121Z	1500	20/40	Hardox Blade	1475
1400	(M/D) L140121W	(M/D) L140121X	(M/D) L140121Z	1500	20/40	Hardox Blade	1685
1500	(M/D) L150121W	(M/D) L150121X	(M/D) L150121Z	1500	20/40	Hardox Blade	1340
1600	(M/D) L160121W	(M/D) L160121X	(M/D) L160121Z	1500	20/40	Hardox Blade	1485
1700	(M/D) L170121W	(M/D) L170121X	(M/D) L170121Z	1500	20/40	Hardox Blade	1645
1800	(M/D) L180121W	(M/D) L180121X	(M/D) L180121Z	1500	20/40	Hardox Blade	1810
1900	(M/D) L190121W	(M/D) L190121X	(M/D) L190121Z	1500	20/40	Hardox Blade	1985
2000	(M/D) L200121W	(M/D) L200121X	(M/D) L200121Z	1500	20/40	Hardox Blade	2170

SSA - Soil Augers

SSA - 26
(Double Blade Auger)

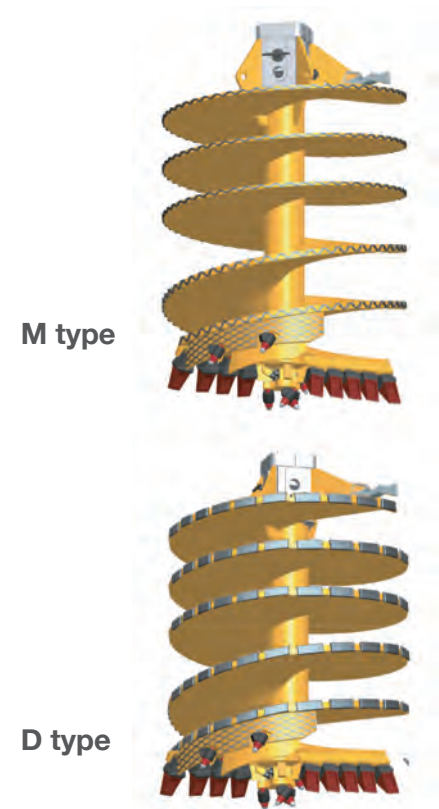
AUGER for high organic soil; high/medium plasticity clays, fat clays; peat; muck.
USCS soils: MH, CH, OH, Pt .



D [mm]	Kelly Box 130 x 130	kelly Box 150 x 150	kelly Box 200 x 200	Hs [mm]	S1/S2 [mm]	Teeth	Appr. Weight [kg]
400	(M/D) L040126W	(M/D) L040126X		1500	20/35	BFK162 shank 25	530
500	(M/D) L050126W	(M/D) L050126X	(M/D) L050126Z	1500	20/35	BFK162 shank 25	610
600	(M/D) L060126W	(M/D) L060126X	(M/D) L060126Z	1500	20/35	BFK162 shank 25	655
700	(M/D) L070126W	(M/D) L070126X	(M/D) L070126Z	1500	20/35	BFK162 shank 25	760
800	(M/D) L080126W	(M/D) L080126X	(M/D) L080126Z	1500	20/40	BFK162 shank 25	870
900	(M/D) L090126W	(M/D) L090126X	(M/D) L090126Z	1500	20/40	BFK162 shank 25	985
1000	(M/D) L100126W	(M/D) L100126X	(M/D) L100126Z	1500	20/40	BFK162 shank 25	1137
1100	(M/D) L110126W	(M/D) L110126X	(M/D) L110126Z	1500	20/40	BFK162 shank 25	1215
1200	(M/D) L120126W	(M/D) L120126X	(M/D) L120126Z	1500	20/40	BFK162 shank 25	1460
1300	(M/D) L130126W	(M/D) L130126X	(M/D) L130126Z	1500	20/40	BFK162 shank 25	1530
1400	(M/D) L140126W	(M/D) L140126X	(M/D) L140126Z	1500	20/40	BFK162 shank 25	1725
1500	(M/D) L150126W	(M/D) L150126X	(M/D) L150126Z	1500	20/40	BFK162 shank 25	1410
1600	(M/D) L160126W	(M/D) L160126X	(M/D) L160126Z	1500	20/40	BFK162 shank 25	1640
1700	(M/D) L170126W	(M/D) L170126X	(M/D) L170126Z	1500	20/40	BFK162 shank 25	1800
1800	(M/D) L180126W	(M/D) L180126X	(M/D) L180126Z	1500	20/40	BFK162 shank 25	1960
1900	(M/D) L190126W	(M/D) L190126X	(M/D) L190126Z	1500	20/40	BFK162 shank 25	2130
2000	(M/D) L200126W	(M/D) L200126X	(M/D) L200126Z	1500	20/40	BFK162 shank 25	2310

SSA - 36
(Heavy Duty - Double Start Hard Soil Auger)

Heavy Duty AUGER for conglomerate soil, small size boulders (up to Ø 40mm), cobbles with sand and fines, cobbles with fine grained and organic soils like silty sands, sand-silt mixtures, clayey sand, sand-clay mixtures, organic and inorganic silts; cobbles with high/medium/low plasticity clays; cobbles with fat clays; cobbles with peat; cobbles with muck.
USCS soils: SM,SC, ML, CL, OL, MH, CH, OH, Pt .



D [mm]	Kelly Box 130 x 130	kelly Box 150 x 150	kelly Box 200 x 200	Hs [mm]	S1/S2 [mm]	Teeth	Appr. Weight [kg]
400	(M/D) H040136W	(M/D) H040136X		1800	20/35	BFK162 shank	575
500	(M/D) H050136W	(M/D) H050136X	(M/D) H050136Z	1800	20/35	BFK162 shank	660
600	(M/D) H060136W	(M/D) H060136X	(M/D) H060136Z	1800	20/35	BFK162 shank	710
700	(M/D) H070136W	(M/D) H070136X	(M/D) H070136Z	1800	20/35	BFK162 shank	825
800	(M/D) H080136W	(M/D) H080136X	(M/D) H080136Z	1800	25/40	BFK162 shank	945
900	(M/D) H090136W	(M/D) H090136X	(M/D) H090136Z	1800	25/40	BFK162 shank	1075
1000	(M/D) H100136W	(M/D) H100136X	(M/D) H100136Z	1800	25/40	BFK162 shank	1240
1100	(M/D) H110136W	(M/D) H110136X	(M/D) H110136Z	1800	25/40	BFK162 shank	1325
1200	(M/D) H120136W	(M/D) H120136X	(M/D) H120136Z	1800	25/40	BFK162 shank	1535
1300	(M/D) H130136W	(M/D) H130136X	(M/D) H130136Z	1800	25/40	BFK162 shank	1675
1400	(M/D) H140136W	(M/D) H140136X	(M/D) H140136Z	1800	25/40	BFK162 shank	1885
1500	(M/D) H150136W	(M/D) H150136X	(M/D) H150136Z	1800	25/40	BFK162 shank	1540
1600	(M/D) H160136W	(M/D) H160136X	(M/D) H160136Z	1800	25/40	BFK162 shank	1685
1700	(M/D) H170136W	(M/D) H170136X	(M/D) H170136Z	1800	25/40	BFK162 shank	1845
1800	(M/D) H180136W	(M/D) H180136X	(M/D) H180136Z	1800	25/40	BFK162 shank	2010
1900	(M/D) H190136W	(M/D) H190136X	(M/D) H190136Z	1800	25/40	BFK162 shank	2185
2000	(M/D) H200136W	(M/D) H200136X	(M/D) H200136Z	1800	25/40	BFK162 shank	2370
2200	(M/D) H220136W	(M/D) H220136X	(M/D) H220136Z	1800	25/40	BFK162 shank	2780
2500	(M/D) H250136W	(M/D) H250136X	(M/D) H250136Z	1800	25/40	BFK162 shank	3355
2800	(M/D) H280136W	(M/D) H280136X	(M/D) H280136Z	1800	25/40	BFK162 shank	3680
3000	(M/D) H300136W	(M/D) H300136X	(M/D) H300136Z	1800	25/40	BFK162 shank	3995

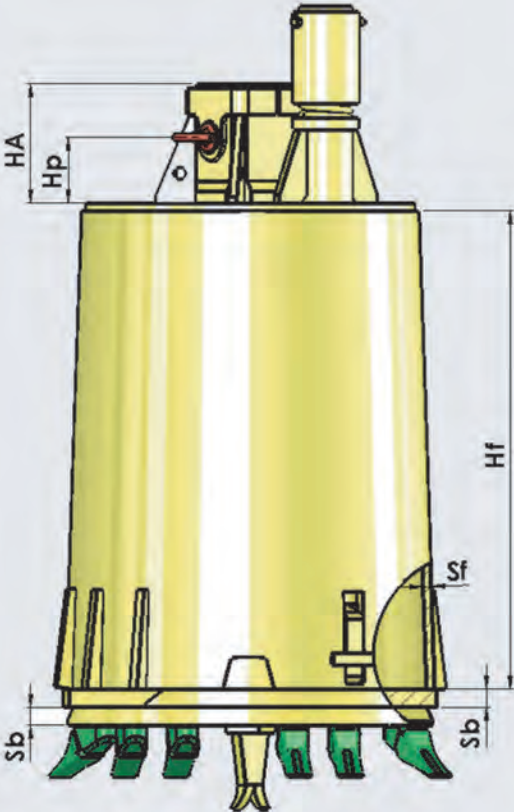


Reference scheme for reading
the following tables

Kelly box type	130x130	150x150	200x200
HA (mm)	260	300	435
Hp (mm)	150	160	124

The weight shown in the tables refers
to tools with kelly box 130 x 130

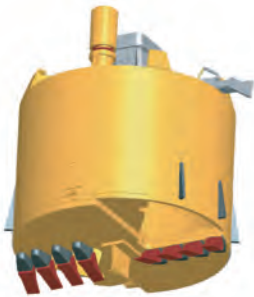
The teeth type to choose must be
related to tool diameter



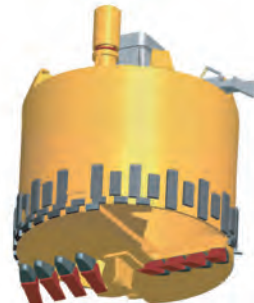
SSB - W30
(Compact Guillotine Bucket)

Compact BUCKET for clean sands, sands with fines, fine grained and organic soils like well graded sand, fine to coarse sand, silty sands, clayey sands, silty or clayey fine sands, organic/inorganic silts; high/ medium/low plasticity clays; fat clays; peat; muck.
USCS soils: SW, SP, SM, SC, ML, CL, OL, MH, CH, OH, Pt .
HF_Body Length: 700 mm

M type



D type



D [mm]	Kelly Box 130 x 130	kelly Box 150 x 150	kelly Box 200 x 200	Hf [mm]	Sf [mm]	Sb [mm]	Teeth	Appr. Weight [kg]
1700	(M/D)Z170430WU	(M/D)Z170430XU	(M/D)Z170430ZU	700	20	40	Esco U25	1710
1800	(M/D)Z180430WU	(M/D)Z180430XU	(M/D)Z180430ZU	700	20	40	Esco U25	1845
1900	(M/D)Z190430WU	(M/D)Z190430XU	(M/D)Z190430ZU	700	20	40	Esco U25	1980
2000	(M/D)Z200430WU	(M/D)Z200430XU	(M/D)Z200430ZU	700	20	40	Esco U25	2115
2200	(M/D)Z2200430WU	(M/D)Z2200430XU	(M/D)Z2200430ZU	700	20	40	Esco U25	2380
2500	(M/D)Z250430WU	(M/D)Z250430XU	(M/D)Z250430ZU	700	20	40	Esco U25	2650
2800	(M/D)Z280430WU	(M/D)Z280430XU	(M/D)Z280430ZU	700	20	40	Esco U25	2980
3000	(M/D)Z300430WU	(M/D)Z300430XU	(M/D)Z300430ZU	700	20	40	Esco U25	3150

		SPRING	OPENING SYSTEM	OPENING BOTTOM	REVOLVING BOTTOM	HINGE	UPPER REAMER
BUCKET SSB - W30	COMPACT GUILLOTINE BUCKET						
		spring	opening system	soil guillotine opening bottom	soil guillotine revolving bottom	hinge	upper reamer
Ø 1700	MZ170430 (W-X-Z)U	40630113	02311180	02310501	02310516	02310171	02310125
Ø 1800	MZ180430 (W-X-Z)U	40630113	02311180	02310502	02310517	02310172	02310125
Ø 1900	MZ190430 (W-X-Z)U	40630113	02311180	02310503	02310518	02310173	02310125
Ø 2000	MZ200430 (W-X-Z)U	40630113	02311180	02310504	02310519	02310174	02310125
Ø 2100	MZ210430 (W-X-Z)U	40630113	02311180	02310193	02311290	02310175	02310125
Ø 2200	MZ220430 (W-X-Z)U	40630113	02311180	02310194	02311292	02310176	02310125
Ø 2300	MZ230430 (W-X-Z)U	40630113	02311180	02310195	02311294	02310177	02310125
Ø 2400	MZ240430 (W-X-Z)U	40630113	02311180	02310196	02311296	02310178	02310125
Ø 2500	MZ250430 (W-X-Z)U	40630113	02311180	02310197	02311298	02310179	02310125
Ø 2600	MZ260430 (W-X-Z)U	40630113	02311180	02310198	02311300	02310180	02310125
Ø 2700	MZ270430 (W-X-Z)U	40630113	02311180	02310199	02311302	02310181	02310125
Ø 2800	MZ280430 (W-X-Z)U	40630113	02311180	02310200	02311304	02310182	02310125
Ø 2900	MZ290430 (W-X-Z)U	40630113	02311180	02310201	02311306	02310183	02310125
Ø 3000	MZ300430 (W-X-Z)U	40630113	02311180	02310202	02311308	02310184	02310125



SSB - Soil Buckets

SSB - 00 (Bucket)

BUCKET for fine grained and organic soils like silty or clayey fine sands, organic/inorganic silts; high/medium/low plasticity clays; fat clays; peat; muck.

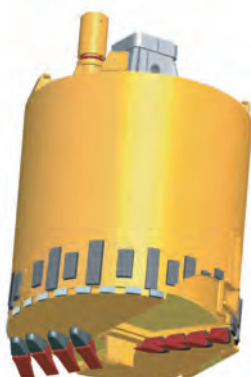
USCS soils: ML, CL, OL, MH, CH, OH, Pt.

HF_Body Length: 1000 mm

M type



D type



D [mm]	Kelly Box 130 x 130	kelly Box 150 x 150	kelly Box 200 x 200	Hf [mm]	Sf [mm]	Sb [mm]	Teeth	Appr. Weight [kg]
500	(M/D) L050405W			1000	20	40	Esco V18	335
600	(M/D) L060405W	(M/D) L060405X	(M/D) L060405Z	1000	20	40	Esco V18	402
700	(M/D) L070405W	(M/D) L070405X	(M/D) L070405Z	1000	20	40	Esco V18	469
800	(M/D) L080405W	(M/D) L080405X	(M/D) L080405Z	1000	20	40	Esco V18	615
900	(M/D) L090405W	(M/D) L090405X	(M/D) L090405Z	1000	20	40	Esco V18	683
1000	(M/D) L100405WU	(M/D) L100405405XU	(M/D) L100405405ZU	1000	20	40	Esco U20	804
1100	(M/D) L110405WU	(M/D) L110405405XU	(M/D) L110405405ZU	1000	20	40	Esco U20	837
1200	(M/D) L120405WU	(M/D) L120405405XU	(M/D) L120405405ZU	1000	20	40	Esco U20	1017
1300	(M/D) L130405WU	(M/D) L130405405XU	(M/D) L130405405ZU	1000	20	40	Esco U20	1123
1400	(M/D) L140405WU	(M/D) L140405405XU	(M/D) L140405405ZU	1000	20	40	Esco U20	1227
1500	(M/D) L150405WU	(M/D) L150405405XU	(M/D) L150405405ZU	1000	20	40	Esco U20	1334
1600	(M/D) L160405WU	(M/D) L160405405XU	(M/D) L160405405ZU	1000	20	40	Esco U20	1476
1700	(M/D) L170405WU	(M/D) L170405405XU	(M/D) L170405405ZU	1000	20	40	Esco U20	1590
1800	(M/D) L180405WU	(M/D) L180405405XU	(M/D) L180405405ZU	1000	20	40	Esco U20	1998
1900	(M/D) L190405WU	(M/D) L190405405XU	(M/D) L190405405ZU	1000	20	40	Esco U20	2186
2000	(M/D) L200405WU	(M/D) L200405405XU	(M/D) L200405405ZU	1000	20	40	Esco U20	2335

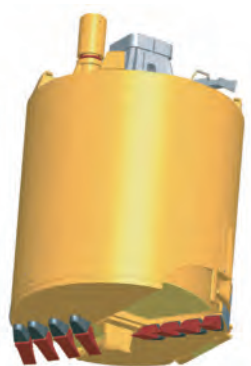
SSB - H05 (Heavy Duty Bucket)

Heavy Duty BUCKET for sand with fines, fine grained and organic soils like silty sands, sand-silt mixtures, clayey sand, sand-clay mixtures, organic and inorganic silts; high/medium/low plasticity clays; fat clays; peat; muck.

USCS soils: SM, SC, ML, CL, OL, MH, CH, OH, Pt.

HF_Body Length: 1200 mm

M type



D type



D [mm]	Kelly Box 130 x 130	kelly Box 150 x 150	kelly Box 200 x 200	Hf [mm]	Sf [mm]	Sb [mm]	Teeth	Appr. Weight [kg]
500	(M/D) H050405W	(M/D) H050405X	(M/D) H050405Z	1200	20	45	Esco V18	505
600	(M/D) H060405W	(M/D) H060405X	(M/D) H060405Z	1200	20	45	Esco V18	575
700	(M/D) H070405W	(M/D) H070405X	(M/D) H070405Z	1200	20	45	Esco V18	680
800	(M/D) H080405WU	(M/D) H080405XU	(M/D) H080405ZU	1200	20	45	Esco U20	785
900	(M/D) H090405WU	(M/D) H090405XU	(M/D) H090405ZU	1200	20	45	Esco U20	945
1000	(M/D) H100405WU	(M/D) H100405XU	(M/D) H100405ZU	1200	20	45	Esco U20	1100
1100	(M/D) H110405WU	(M/D) H110405XU	(M/D) H110405ZU	1200	20	45	Esco U20	1270
1200	(M/D) H120405WU	(M/D) H120405XU	(M/D) H120405ZU	1200	20	45	Esco U20	1440
1300	(M/D) H130405WU	(M/D) H130405XU	(M/D) H130405ZU	1200	20	45	Esco U20	1615
1400	(M/D) H140405WU	(M/D) H140405XU	(M/D) H140405ZU	1200	20	45	Esco U20	1790
1500	(M/D) H150405WU	(M/D) H150405XU	(M/D) H150405ZU	1200	20	45	Esco U25	1960
1600	(M/D) H160405WU	(M/D) H160405XU	(M/D) H160405ZU	1200	20	45	Esco U25	2105
1700	(M/D) H170405WU	(M/D) H170405XU	(M/D) H170405ZU	1200	20	45	Esco U25	2250
1800	(M/D) H180405WU	(M/D) H180405XU	(M/D) H180405ZU	1200	20	45	Esco U25	2395
1900	(M/D) H190405WU	(M/D) H190405XU	(M/D) H190405ZU	1200	20	45	Esco U25	2510
2000	(M/D) H200405WU	(M/D) H200405XU	(M/D) H200405ZU	1200	20	45	Esco U25	2630

		SPRING	OPENING SYSTEM	BOTTOM	HINGE	FLAP VALVE	LOWER REAMER	UPPER REAMER
BUCKET SSB - 00	HEAVY DUTY BUCKET							
		spring	opening system	soil bottom	hinge	standard flap valve	lower reamer	upper reamer
Ø600	ML060405 (W-X-Z)	40630001	02310480	02310460	02310171	02310126	02310405	02310122 Opzionale
Ø700	ML070405 (W-X-Z)	40630001	02310481	02310461	02310172	02310127	02310406	02310122 Opzionale
Ø800	ML080405 (W-X-Z)	40630001	02310481	02310462	02310172	02310128	02310407	02310123 Opzionale
Ø900	ML090405 (W-X-Z)	40630001	02310482	02310463	02310173	02310129	02310408	02310123 Opzionale
Ø1000	ML100405 (W-X-Z)U	40630113	02310483	02310464U	02310173	02310130	02310409	02310124 Opzionale
Ø1100	ML110405 (W-X-Z)U	40630113	02310483	02310465U	02310173	02310131	02310410	02310124 Opzionale
Ø1200	ML120405 (W-X-Z)U	40630113	02310483	02310466U	02310174	02310132	02310411	02310125 Opzionale
Ø1300	ML130405 (W-X-Z)U	40630113	02310483	02310467U	02310174	02310133	02310412	02310125 Opzionale
Ø1400	ML140405 (W-X-Z)U	40630113	02310483	02310468U	02310174	02310134	02310413	02310125 Opzionale
Ø1500	ML150405 (W-X-Z)U	40630113	02310484	02310469U	02310175	02310135	02310414	02310125 Opzionale
Ø1600	ML160405 (W-X-Z)U	40630113	02310484	02310470U	02310175	02310136	02310415	02310125 Opzionale
Ø1700	ML170405 (W-X-Z)U	40630113	02310485	02310471U	02310175	02310137	02310416	02310125 Opzionale
Ø1800	ML180405 (W-X-Z)U	40630113	02310486	02310472U	02310176	02310138	02310417	02310125 Opzionale
Ø1900	ML190405 (W-X-Z)U	40630113	02310487	02310473U	02310176	02310139	02310418	02310125 Opzionale
Ø2000	ML200405 (W-X-Z)U	40630113	02310487	02310474U	02310176	02310140	02310419	02310125 Opzionale

		SPRING	OPENING SYSTEM	BOTTOM	FLAP VALVE	HINGE	UPPER REAMER	LOWER REAMER
BUCKET SSB - H05	HEAVY DUTY BUCKET							
		spring	opening system	heavy duty soil bottom	standard flap valve	hinge	upper reamer	lower reamer
Ø600	MH060405 (W-X-Z)	40630001	02310107	02310156	02310126	02310171	02310122	02310405
Ø700	MH070405 (W-X-Z)	40630001	02310108	02310157	02310127	02310172	02310122	02310406
Ø800	MH080405(W-X-Z)U	40630001	02310109	02310158U	02310128	02310172	02310123	02310407
Ø900	MH090405(W-X-Z)U	40630001	02310110	02310159U	02310129	02310173	02310123	02310408
Ø1000	MH100405(W-X-Z)U	40630113	02310111	02310160U	02310130	02310173	02310124	02310409
Ø1100	MH110405(W-X-Z)U	40630113	02310112	02310161U	02310131	02310173	02310124	02310410
Ø1200	MH120405(W-X-Z)U	40630113	02310113	02310162U	02310132	02310174	02310125	02310411
Ø1300	MH130405(W-X-Z)U	40630113	02310114	02310163U	02310133	02310174	02310125	02310412
Ø1400	MH140405(W-X-Z)U	40630113	02310115	02310164U	02310134	02310174	02310125	02310413
Ø1500	MH150405(W-X-Z)U	40630113	02310116	02310165U	02310135	02310175	02310125	02310414
Ø1600	MH160405(W-X-Z)U	40630113	02310117	02310166U	02310136	02310175	02310125	02310415
Ø1700	MH170405(W-X-Z)U	40630113	02310118	02310167U	02310137	02310175	02310125	02310416
Ø1800	MH180405(W-X-Z)U	40630113	02310119	02310168U	02310138	02310176	02310125	02310417
Ø1900	MH190405(W-X-Z)U	40630113	02310120	02310169U	02310139	02310176	02310125	02310418
Ø2000	MH200405(W-X-Z)U	40630113	02310121	02310170U	02310140	02310176	02310125	02310419

SSB - Soil Buckets

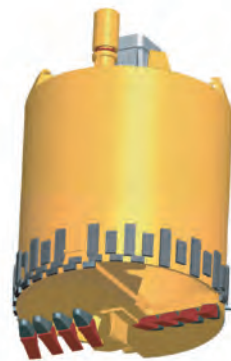
SSB - G00 (Guillotine Bucket)

Guillotine BUCKET mainly for sands with 50% or more coarse fraction retained on N° 4 sieve like clean sands and sands with fines.
USCS soils: SW, SP, SM, SC.
HF_Body Length: 1000 mm

M type



D type



D [mm]	Kelly Box 130 x 130	kelly Box 150 x 150	kelly Box 200 x 200	Hf [mm]	Sf [mm]	Sb [mm]	Teeth	Appr. Weight [kg]
500	(M/D) L250425W	(M/D) L250425X	(M/D) L250425Z	1000	20	40	Esco V18	370
600	(M/D) L060425W	(M/D) L060425X	(M/D) L060425Z	1000	20	40	Esco V18	440
700	(M/D) L070425W	(M/D) L070425X	(M/D) L070425Z	1000	20	40	Esco V18	515
800	(M/D) L080425W	(M/D) L080425X	(M/D) L080425Z	1000	20	40	Esco V18	674
900	(M/D) L090425W	(M/D) L090425X	(M/D) L090425Z	1000	20	40	Esco V18	759
1000	(M/D) L100425WU	(M/D) L100425XU	(M/D) L100425ZU	1000	20	40	Esco U20	895
1100	(M/D) L110425WU	(M/D) L110425XU	(M/D) L110425ZU	1000	20	40	Esco U20	928
1200	(M/D) L120425WU	(M/D) L120425XU	(M/D) L120425ZU	1000	20	40	Esco U20	1149
1300	(M/D) L130425WU	(M/D) L130425XU	(M/D) L130425ZU	1000	20	40	Esco U20	1275
1400	(M/D) L140425WU	(M/D) L140425XU	(M/D) L140425ZU	1000	20	40	Esco U20	1393
1500	(M/D) L150425WU	(M/D) L150425XU	(M/D) L150425ZU	1000	20	40	Esco U20	1568
1600	(M/D) L160425WU	(M/D) L160425XU	(M/D) L160425ZU	1000	20	40	Esco U20	1696
1700	(M/D) L170425WU	(M/D) L170425XU	(M/D) L170425ZU	1000	20	40	Esco U20	1839
1800	(M/D) L180425WU	(M/D) L180425XU	(M/D) L180425ZU	1000	20	40	Esco U20	2273
1900	(M/D) L190425WU	(M/D) L190425XU	(M/D) L190425ZU	1000	20	40	Esco U20	2515
2000	(M/D) L200425WU	(M/D) L200425XU	(M/D) L200425ZU	1000	20	40	Esco U20	2692

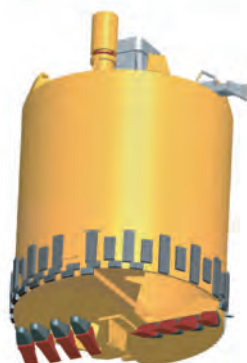
SSB - G25 (Heavy Duty Guillotine Bucket)

Heavy Duty Guillotine BUCKET for coarse grained soils like clean gravels, gravel with fines, clean sands and sands with fines.
USCS soils: GW, GP, GM, GC SW, SP, SM, SC.
HF_Body Length: 1200 mm

M type



D type



D [mm]	Kelly Box 130 x 130	kelly Box 150 x 150	kelly Box 200 x 200	Hf [mm]	Sf [mm]	Sb [mm]	Teeth	Appr. Weight [kg]
500	(M/D) H250425W	(M/D) H250425X	(M/D) H250425Z	1200	20	45	Esco V18	625
600	(M/D) H060425W	(M/D) H060425X	(M/D) H060425Z	1200	20	45	Esco V18	685
700	(M/D) H070425W	(M/D) H070425X	(M/D) H070425Z	1200	20	45	Esco V18	790
800	(M/D) H080425WU	(M/D) H080425XU	(M/D) H080425ZU	1200	20	45	Esco U20	895
900	(M/D) H090425WU	(M/D) H090425XU	(M/D) H090425ZU	1200	20	45	Esco U20	1070
1000	(M/D) H100425WU	(M/D) H100425XU	(M/D) H100425ZU	1200	20	45	Esco U20	1250
1100	(M/D) H110425WU	(M/D) H110425XU	(M/D) H110425ZU	1200	20	45	Esco U20	1445
1200	(M/D) H120425WU	(M/D) H120425XU	(M/D) H120425ZU	1200	20	45	Esco U20	1645
1300	(M/D) H130425WU	(M/D) H130425XU	(M/D) H130425ZU	1200	20	45	Esco U20	1850
1400	(M/D) H140425WU	(M/D) H140425XU	(M/D) H140425ZU	1200	20	45	Esco U20	2080
1500	(M/D) H150425WU	(M/D) H150425XU	(M/D) H150425ZU	1200	20	45	Esco U25	2265
1600	(M/D) H160425WU	(M/D) H160425XU	(M/D) H160425ZU	1200	20	45	Esco U25	2475
1700	(M/D) H170425WU	(M/D) H170425XU	(M/D) H170425ZU	1200	20	45	Esco U25	2680
1800	(M/D) H180425WU	(M/D) H180425XU	(M/D) H180425ZU	1200	20	45	Esco U25	2885
1900	(M/D) H190425WU	(M/D) H190425XU	(M/D) H190425ZU	1200	20	45	Esco U25	3095
2000	(M/D) H200425WU	(M/D) H200425XU	(M/D) H200425ZU	1200	20	45	Esco U25	3300

		SPRING	OPENING SYSTEM	OPENING BOTTOM	REVOLVING BOTTOM	HINGE	UPPER REAMER
BUCKET SSB - G00	GUILLOTINE BUCKET						
		spring	opening system	soil guillotine opening bottom	soil guillotine revolving bottom	hinge	upper reamer
Ø600	ML060425 (W-X-Z)	40630001	02310480	02310490	02310505	02310171	02310122 Opzionale
Ø700	ML070425 (W-X-Z)	40630001	02310481	02310491	02310506	02310172	02310122 Opzionale
Ø800	ML080425 (W-X-Z)	40630001	02310481	02310492	02310507	02310172	02310123 Opzionale
Ø900	ML090425 (W-X-Z)	40630001	02310482	02310493	02310508	02310173	02310123 Opzionale
Ø1000	ML100425(W-X-Z)U	40630113	02310483	02310494	02310509U	02310173	02310124 Opzionale
Ø1100	ML110425(W-X-Z)U	40630113	02310483	02310495	02310510U	02310173	02310124 Opzionale
Ø1200	ML120425(W-X-Z)U	40630113	02310483	02310496	02310511U	02310174	02310125 Opzionale
Ø1300	ML130425(W-X-Z)U	40630113	02310483	02310497	02310512U	02310174	02310125 Opzionale
Ø1400	ML140425(W-X-Z)U	40630113	02310483	02310498	02310513U	02310174	02310125 Opzionale
Ø1500	ML150425(W-X-Z)U	40630113	02310484	02310499	02310514U	02310175	02310125 Opzionale
Ø1600	ML160425(W-X-Z)U	40630113	02310484	02310500	02310515U	02310175	02310125 Opzionale
Ø1700	ML170425(W-X-Z)U	40630113	02310485	02310501	02310516U	02310175	02310125 Opzionale
Ø1800	ML180425(W-X-Z)U	40630113	02310486	02310502	02310517U	02310176	02310125 Opzionale
Ø1900	ML190425(W-X-Z)U	40630113	02310487	02310503	02310518U	02310176	02310125 Opzionale
Ø2000	ML200425(W-X-Z)U	40630113	02310487	02310504	02310519U	02310176	02310125 Opzionale

		SPRING	OPENING SYSTEM	OPENING BOTTOM	REVOLVING BOTTOM	HINGE	UPPER REAMER
BUCKET SSB - G25	HEAVY DUTY GUILLOTINE BUCKET						
		spring	opening system	soil guillotine opening bottom	soil guillotine revolving bottom	hinge	upper reamer
Ø600	MH060425(W-X-Z)	40630001	02310107	02310192	02310222	02310171	02310122
Ø700	MH070425(W-X-Z)	40630001	02310108	02310193	02310223	02310172	02310122
Ø800	MH080425(W-X-Z)U	40630001	02310109	02310194	02310224U	02310172	02310123
Ø900	MH090425(W-X-Z)U	40630001	02310110	02310195	02310225U	02310173	02310123
Ø1000	MH100425(W-X-Z)U	40630113	02310111	02310196	02310226U	02310173	02310124
Ø1100	MH110425(W-X-Z)U	40630113	02310112	02310197	02310227U	02310173	02310124
Ø1200	MH120425(W-X-Z)U	40630113	02310113	02310198	02310228U	02310174	02310125
Ø1300	MH130425(W-X-Z)U	40630113	02310114	02310199	02310229U	02310174	02310125
Ø1400	MH140425(W-X-Z)U	40630113	02310115	02310200	02310230U	02310174	02310125
Ø1500	MH140425(W-X-Z)U	40630113	02310116	02310201	02310231U	02310175	02310125
Ø1600	MH160425(W-X-Z)U	40630113	02310117	02310202	02310232U	02310175	02310125
Ø1700	MH170425(W-X-Z)U	40630113	02310118	02310203	02310233U	02310175	02310125
Ø1800	MH180425(W-X-Z)U	40630113	02310119	02310204	02310234U	02310176	02310125
Ø1900	MH190425(W-X-Z)U	40630113	02310120	02310205	02310235U	02310176	02310125
Ø2000	MH200425(W-X-Z)U	40630113	02310121	02310206	02310236U	02310176	02310125

SSB - CN60

(Heavy Duty Conical Bottom Bucket)

Heavy Duty Conical bottom BUCKET for sand with fines, fine grained and organic soils like silty sands, sand-silt mixtures, clayey sand, sand-clay mixtures, organic and inorganic silts; high/medium/low plasticity clays; fat clays; peat; muck.

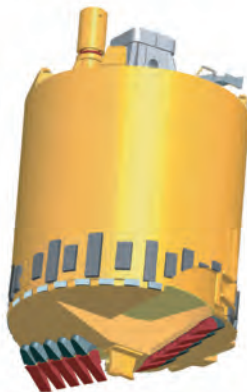
USCS soils: SM, SC, ML, CL, OL, MH, CH, OH, Pt.

HF_Body Length: 1200 mm

M type



D type



D [mm]	Kelly Box 130 x 130	kelly Box 150 x 150	kelly Box 200 x 200	Hf [mm]	Sf [mm]	Teet h	Appr. Weight [kg]
600	(M/D)H060460W	(M/D)H060460X	(M/D)H060460Z	1200	20	Esco V16	550
700	(M/D)H070460W	(M/D)H070460X	(M/D)H070460Z	1200	20	Esco V18	730
800	(M/D)H080460WU	(M/D)H080460XU	(M/D)H080460ZU	1200	20	Esco U20	930
900	(M/D)H090460WU	(M/D)H090460XU	(M/D)H090460ZU	1200	20	Esco U20	1110
1000	(M/D)H100460WU	(M/D)H100460XU	(M/D)H100460ZU	1200	20	Esco U20	1295
1100	(M/D)H110460WU	(M/D)H110460XU	(M/D)H110460ZU	1200	20	Esco U20	1480
1200	(M/D)H120460WU	(M/D)H120460XU	(M/D)H120460ZU	1200	20	Esco U20	1665
1300	(M/D)H130460WU	(M/D)H130460XU	(M/D)H130460ZU	1200	20	Esco U20	1875
1400	(M/D)H140460WU	(M/D)H140460XU	(M/D)H140460ZU	1200	20	Esco U20	2030
1500	(M/D)H150460WU	(M/D)H150460XU	(M/D)H150460ZU	1200	20	Esco U25	2305
1600	(M/D)H160460WU	(M/D)H160460XU	(M/D)H160460ZU	1200	20	Esco U25	2505
1700	(M/D)H170460WU	(M/D)H170460XU	(M/D)H170460ZU	1200	20	Esco U25	2700
1800	(M/D)H180460WU	(M/D)H180460XU	(M/D)H180460ZU	1200	20	Esco U25	2900
1900	(M/D)H190460WU	(M/D)H190460XU	(M/D)H190460ZU	1200	20	Esco U25	3100
2000	(M/D)H200460WU	(M/D)H200460XU	(M/D)H200460ZU	1200	20	Esco U25	3235

SSB - GC00

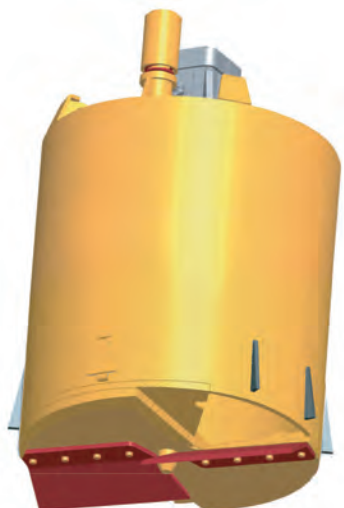
(Guillotine Cleaning Bucket)

Guillotine Cleaning BUCKET for coarse grained soils like clean gravels, gravel with fines, clean sands and sands with fines.

USCS soils: GW, GP, GM, GC SW, SP, SM, SC.

HF_Body Length: 1000 mm

M type



D [mm]	Kelly Box 130 x 130	kelly Box 150 x 150	kelly Box 200 x 200	Hf [mm]	Sf [mm]	Sb [mm]	Teeth	Appr. Weight [kg]
500	MC050425W	MC050425X	MC050425Z	1000	15	30	Hardox Blande	495
600	MC060425W	MC060425X	MC060425Z	1000	15	30	Hardox Blande	550
700	MC070425W	MC070425X	MC070425Z	1000	15	30	Hardox Blande	635
800	MC080425W	MC080425X	MC080425Z	1000	15	30	Hardox Blande	715
900	MC090425W	MC090425X	MC090425Z	1000	15	30	Hardox Blande	850
1000	MC100425W	MC100425X	MC100425Z	1000	15	30	Hardox Blande	990
1100	MC110425W	MC110425X	MC110425Z	1000	15	30	Hardox Blande	1140
1200	MC120425W	MC120425X	MC120425Z	1000	15	30	Hardox Blande	1290
1300	MC130425W	MC130425X	MC130425Z	1000	15	30	Hardox Blande	1445
1400	MC140425W	MC140425X	MC140425Z	1000	15	30	Hardox Blande	1600
1500	MC150425W	MC150425X	MC150425Z	1000	15	30	Hardox Blande	1755
1600	MC160425W	MC160425X	MC160425Z	1000	15	30	Hardox Blande	1910
1700	MC170425W	MC170425X	MC170425Z	1000	15	30	Hardox Blande	2060
1800	MC180425W	MC180425X	MC180425Z	1000	15	30	Hardox Blande	2215
1900	MC190425W	MC190425X	MC190425Z	1000	15	30	Hardox Blande	2370
2000	MC200425W	MC200425X	MC200425Z	1000	15	30	Hardox Blande	2525

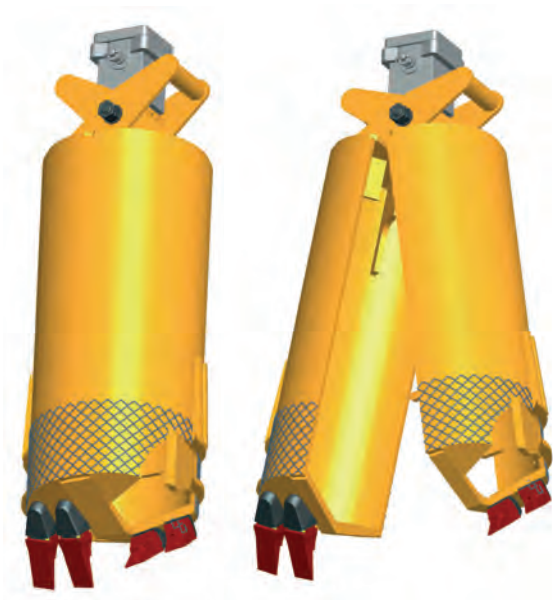
		SPRING	OPENING SYSTEM	BOTTOM	FLAP VALVE	HINGE	UPPER REAMER	LOWER REAMER
BUCKET SSB - CN60	HEAVY DUTY CONICAL BOTTOM BUCKET							
		spring	opening system	heavy duty conical soil bottom	conical flap valve	hinge	upper reamer	lower reamer
Ø600	MH060460 (W-X-Z)	40630001	02310107	02310342	02310357	02310171	02310122	02310405
Ø700	MH070460 (W-X-Z)	40630001	02310108	02310343	02310358	02310172	02310122	02310406
Ø800	MH080460 (W-X-Z)U	40630001	02310109	02310344	02310359	02310172	02310123	02310407
Ø900	MH090460 (W-X-Z)U	40630001	02310110	02310345	02310360	02310173	02310123	02310408
Ø1000	MH100460 (W-X-Z)U	40630113	02310111	02310346	02310361	02310173	02310124	02310409
Ø1100	MH110460 (W-X-Z)U	40630113	02310112	02310347	02310362	02310173	02310124	02310410
Ø1200	MH120460 (W-X-Z)U	40630113	02310113	02310348	02310363	02310174	02310125	02310411
Ø1300	MH130460 (W-X-Z)U	40630113	02310114	02310349	02310364	02310174	02310125	02310412
Ø1400	MH140460 (W-X-Z)U	40630113	02310115	02310350	02310365	02310174	02310125	02310413
Ø1500	MH150460 (W-X-Z)U	40630113	02310116	02310351	02310366	02310175	02310125	02310414
Ø1600	MH160460 (W-X-Z)U	40630113	02310117	02310352	02310367	02310175	02310125	02310415
Ø1700	MH170460 (W-X-Z)U	40630113	02310118	02310353	02310368	02310175	02310125	02310416
Ø1800	MH180460 (W-X-Z)U	40630113	02310119	02310354	02310369	02310176	02310125	02310417
Ø1900	MH190460 (W-X-Z)U	40630113	02310120	02310355	02310370	02310176	02310125	02310418
Ø2000	MH200460 (W-X-Z)U	40630113	02310121	02310356	02310371	02310176	02310125	02310419

		SPRING	OPENING SYSTEM	OPENING BOTTOM	REVOLVING BOTTOM	HINGE	LOWER REAMER
BUCKET SSB - GC00	GUILLOTINE CLEANING BUCKET						
		spring	opening system	soil guillotine opening bottom	revolving bottom	hinge	BLADE HARDOX
Ø600	MC060425 (W-X-Z)	40630001	02310480	02310177	023103027	02310171	02310385
Ø700	MC070425 (W-X-Z)	40630001	02310481	02310178	023103028	02310172	02310386
Ø800	MC080425 (W-X-Z)	40630001	02310481	02310179	023103029	02310172	02310387
Ø900	MC090425 (W-X-Z)	40630001	02310482	02310180	02310330	02310173	02310388
Ø1000	MC100425 (W-X-Z)	40630113	02310483	02310181	02310331	02310173	02310389
Ø1100	MC110425 (W-X-Z)	40630113	02310483	02310182	023103302	02310173	02310390
Ø1200	MC120425 (W-X-Z)	40630113	02310483	02310183	02310333	02310174	02310391
Ø1300	MC130425 (W-X-Z)	40630113	02310483	02310184	02310334	02310174	02310392
Ø1400	MC140425 (W-X-Z)	40630113	02310483	02310185	02310335	02310174	02310393
Ø1500	MC150425 (W-X-Z)	40630113	02310484	02310186	02310336	02310175	02310394
Ø1600	MC160425 (W-X-Z)	40630113	02310484	02310187	02310337	02310175	02310395
Ø1700	MC170425 (W-X-Z)	40630113	02310485	02310188	02310338	02310175	02310396
Ø1800	MC180425 (W-X-Z)	40630113	02310486	02310189	02310339	02310176	02310397
Ø1900	MC190425 (W-X-Z)	40630113	02310487	02310190	02310340	02310176	02310398
Ø2000	MC200425 (W-X-Z)	40630113	02310487	02310191	02310341	02310176	02310399

SSB - SP00
(Hardpan Bucket)

BUCKET for fine grained and organic soils like silty or clayey, high/ plasticity clays;
fat clays; peat; muck.
Normally used on small diameters.
USCS soils: MH, CH, OH, Pt.
HF_Body Length: 1200 mm

D [mm]	Kelly Box 130x130	Kelly Box 150x150	Hf	Sf	Teeth	Appr.Weight [kg]
500	(D/M)H050400W	(D/M)050400X	1200	20	esco V18	600
600	(D/M)H060400W	(D/H)060400X	1200	20	esco V18	750
700	(D/M)H070400W	(D/H)070400X	1200	20	esco V18	900
800	(D/M)H080400W	(D/H)080400X	1200	20	esco V18	1050

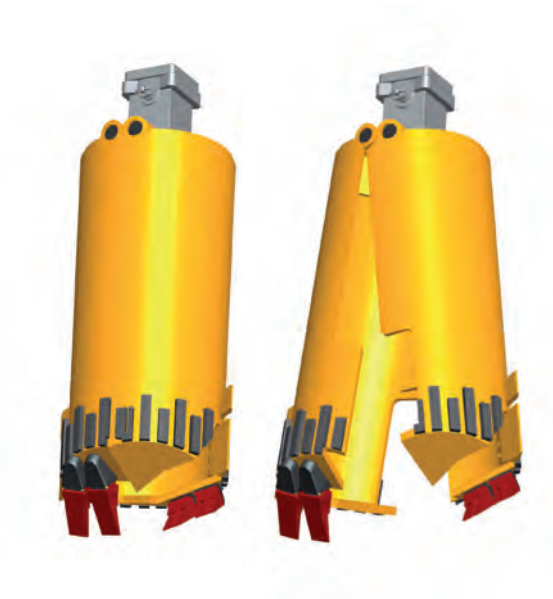


M type

SSB - H01
(Centrifugal Bucket)

Heavy Duty centrifugal BUCKET for fine grained and organic soils like silty or clay, high plasticity clays; fat clays; peat; muck.
USCS soils: MH, CH, OH, Pt.
HF_Body Length: 1200 mm

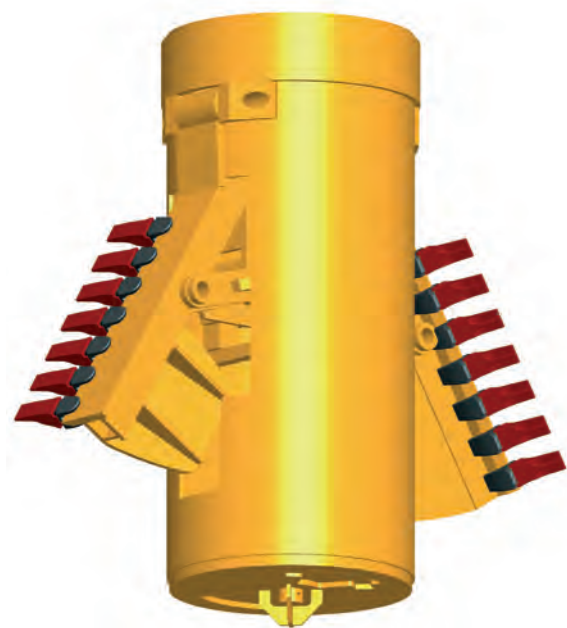
D [mm]	Kelly Box 130x130	Kelly Box 150x150	Hf	Sf	Teeth	Appr.Weight [kg]
400	(D/M)H040401W		1200	20	esco V18	550
500	(D/M)H050401W	(D/M)050401X	1200	20	esco V18	600
600	(D/M)H060401W	(D/H)060401X	1200	20	esco V18	750
700	(D/M)H070401W	(D/H)070401X	1200	20	esco V18	900
800	(D/M)H080401W	(D/H)080401X	1200	20	esco V18	1050



M/D type

SSB - BB10
(Belling Bucket)

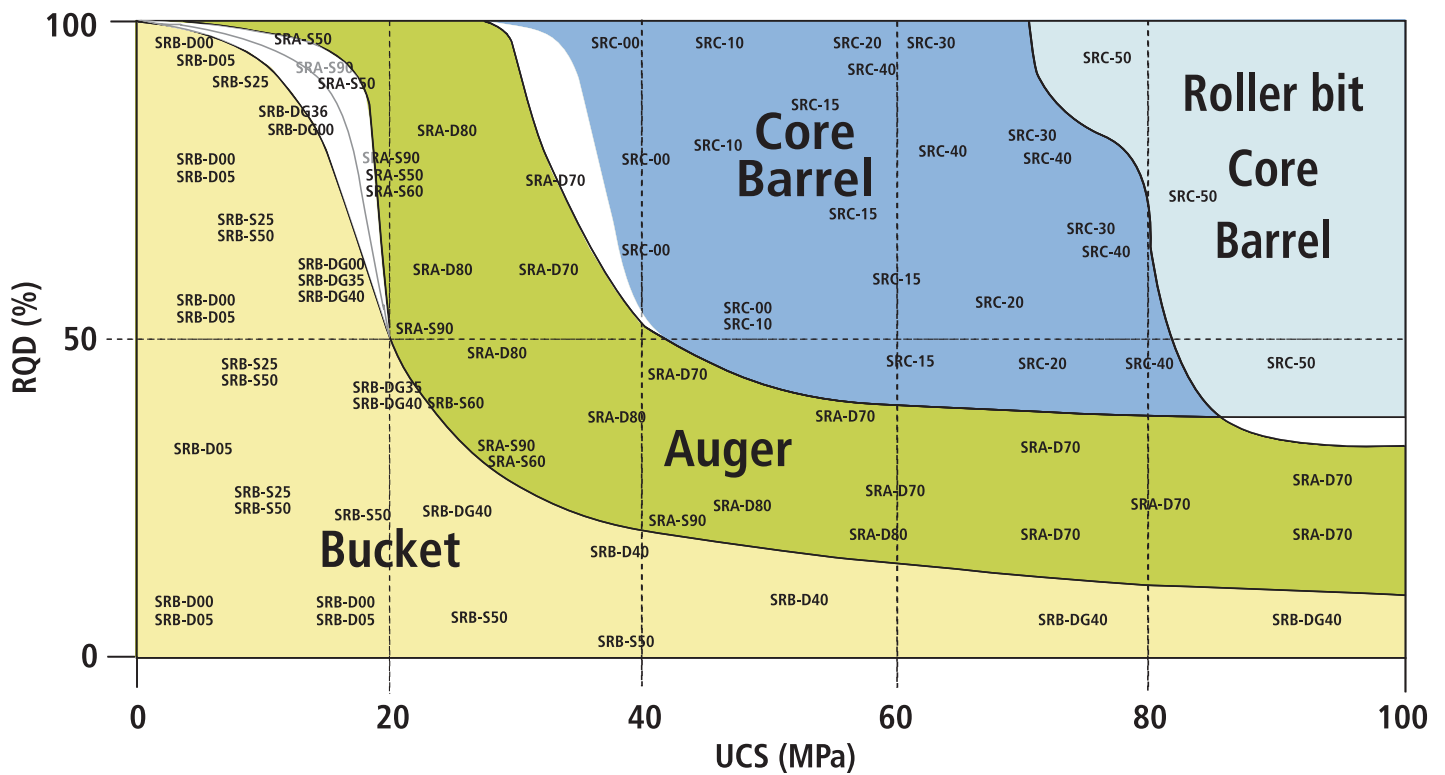
Mx. Bell. Diam.: 2 D (1200 - 3000 mm)



M type

D [mm]	Kelly Box 130x130	Kelly Box 150x150	Kelly Box 200x200	Sf	Teeth
600	MH060410W	MH060410X		20	esco V18
700	MH070410W	MH070410X	MH070410Z	20	esco V18
800	MH080410W	MH080410X	MH080410Z	20	esco V18
900	MH090410W	MH090410X	MH090410Z	20	esco V18
1000	MH100410W	MH100410X	MH100410Z	20	esco V18
1100	MH110410W	MH110410X	MH110410Z	20	esco V18
1200	MH120410W	MH120410X	MH120410Z	20	esco V18
1300	MH130410W	MH130410X	MH130410Z	20	esco V18
1400	MH140410W	MH140410X	MH140410Z	20	esco V18
1500	MH150410W	MH150410X	MH150410Z	20	esco V18





Rock main properties affecting cutting performance are:

- Uniaxial compressive strength [MPa] and tensile strength [MPa]
- Abrasivity or quartz content
- Structure of the rock (i.e. number and distance and direction of fractures)

Drilling Tools are capable to cut rock with a hardness up to 100 MPa strength.

Under certain circumstances (e.g. highly fractured material) even harder material can be cut.

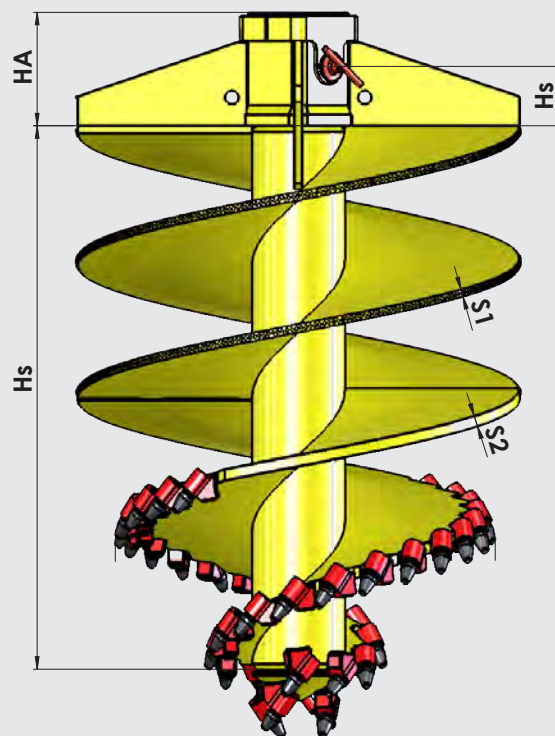


Reference scheme for reading
the following tables

Kelly box type	130x130	150x150	200x200
HA(mm)	260	300	435
Hs (mm)	150	160	124

The weight shown in the tables refers
to tools with Kelly box 130x130

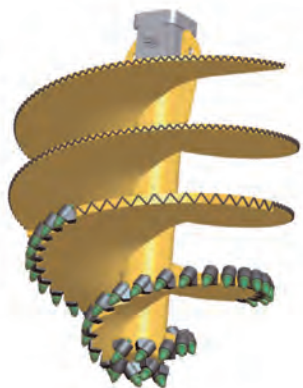
The teeth type to choose must be
related to tool diameter



SRA - D40 (Double Start Rock Auger)

Double start SRA-D30 auger built-in with 25 mm round shank pick. Generally used for cutting medium-soft rock formations, low fractured medium-hard rock formation and decompressed rock formations.

M type



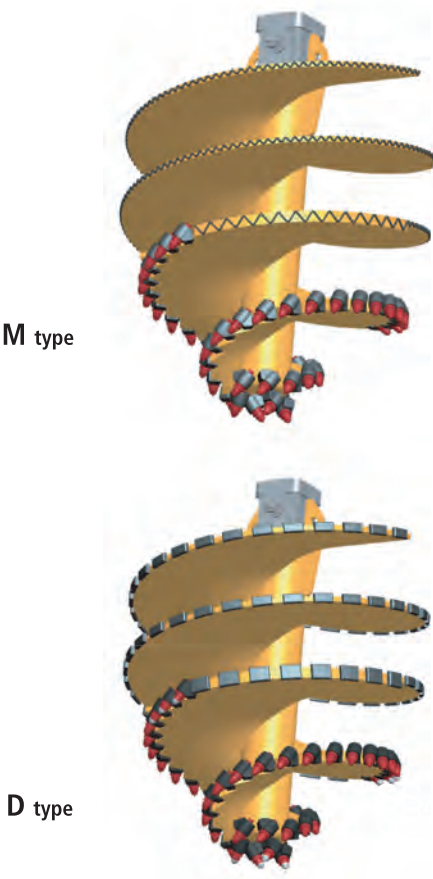
D type



D [mm]	Kelly Box 130 x 130	kelly Box 150 x 150	kelly Box 200 x 200	Hs [mm]	S1/S2 [mm]	Teeth	Appr. Weight [kg]
400	(M/D) Q040130W	(M/D) Q040130X	(M/D) Q040130Z	1300	20/30	Shank 25	255
500	(M/D) Q050130W	(M/D) Q050130X	(M/D) Q050130Z	1300	20/30	Shank 25	285
600	(M/D) Q060130W	(M/D) Q060130X	(M/D) Q060130Z	1300	20/30	Shank 25	385
700	(M/D) Q070130W	(M/D) Q070130X	(M/D) Q070130Z	1300	20/30	Shank 25	435
800	(M/D) Q080130W	(M/D) Q080130X	(M/D) Q080130Z	1300	20/30	Shank 25	570
900	(M/D) Q090130W	(M/D) Q090130X	(M/D) Q090130Z	1300	20/30	Shank 25	660
1000	(M/D) Q100130W	(M/D) Q100130X	(M/D) Q100130Z	1300	20/30	Shank 25	755
1100	(M/D) Q110130W	(M/D) Q110130X	(M/D) Q110130Z	1300	20/30	Shank 25	915
1200	(M/D) Q120130W	(M/D) Q120130X	(M/D) Q120130Z	1300	20/30	Shank 25	1035
1300	(M/D) Q130130W	(M/D) Q130130X	(M/D) Q130130Z	1300	20/30	Shank 25	1165
1400	(M/D) Q140130W	(M/D) Q140130X	(M/D) Q140130Z	1300	20/30	Shank 25	1320
1500	(M/D) Q150130W	(M/D) Q150130X	(M/D) Q150130Z	1300	20/30	Shank 25	1170
1600	(M/D) Q160130W	(M/D) Q160130X	(M/D) Q160130Z	1300	20/30	Shank 25	1310
1700	(M/D) Q170130W	(M/D) Q170130X	(M/D) Q170130Z	1300	20/30	Shank 25	1430
1800	(M/D) Q180130W	(M/D) Q180130X	(M/D) Q180130Z	1300	20/30	Shank 25	1575
1900	(M/D) Q190130W	(M/D) Q190130X	(M/D) Q190130Z	1300	20/30	Shank 25	1725
2000	(M/D) Q200130W	(M/D) Q200130X	(M/D) Q200130Z	1300	20/30	Shank 25	1900
2200	(M/D) Q220130W	(M/D) Q220130X	(M/D) Q220130Z	1300	20/30	Shank 25	2350
2500	(M/D) Q250130W	(M/D) Q250130X	(M/D) Q250130Z	1300	20/30	Shank 25	2680
2800	(M/D) Q280130W	(M/D) Q280130X	(M/D) Q280130Z	1300	20/30	Shank 25	2995
3000	(M/D) Q300130W	(M/D) Q300130X	(M/D) Q300130Z	1300	20/30	Shank 25	3280

SRA - D70
(Heavy Duty - Double Start Rock Auger)

Heavy Duty double start SRA-D70 auger built-in with 30/38 mm round shank pick. Generally used for cutting medium-soft rock formations, high fractured medium-hard rock formation and decompressed rock formations.



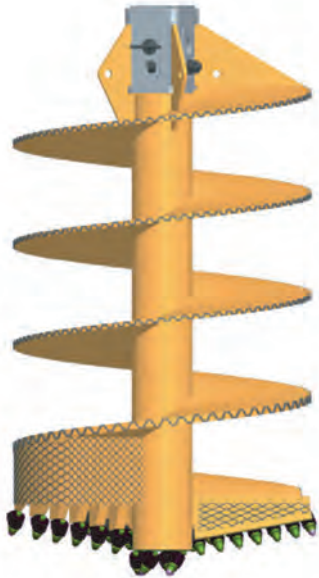
D [mm]	Kelly Box 130 x 130	kelly Box 150 x 150	kelly Box 200 x 200	Hs [mm]	S1/S2 [mm]	Teeth	Appr. Weight [kg]
400	(M/D) Q040170wI	(M/D) Q040170XI	(M/D) Q040170ZI	1300	20/40	Shank 30/38	455
500	(M/D) Q050170wI	(M/D) Q050170XI	(M/D) Q050170ZI	1300	20/40	Shank 30/38	485
600	(M/D) Q060170wI	(M/D) Q060170XI	(M/D) Q060170ZI	1300	20/40	Shank 30/38	585
700	(M/D) Q070170wI	(M/D) Q070170XI	(M/D) Q070170ZI	1300	20/40	Shank 30/38	635
800	(M/D) Q080170wI	(M/D) Q080170XI	(M/D) Q080170ZI	1300	25/40	Shank 30/38	770
900	(M/D) Q090170wI	(M/D) Q090170XI	(M/D) Q090170ZI	1300	25/40	Shank 30/38	860
1000	(M/D) Q100170wI	(M/D) Q100170XI	(M/D) Q100170ZI	1300	25/40	Shank 30/38	955
1100	(M/D) Q110170wI	(M/D) Q110170XI	(M/D) Q110170ZI	1300	25/40	Shank 30/38	1115
1200	(M/D) Q120170wI	(M/D) Q120170XI	(M/D) Q120170ZI	1300	25/40	Shank 30/38	1235
1300	(M/D) Q130170wI	(M/D) Q130170XI	(M/D) Q130170ZI	1300	25/40	Shank 30/38	1565
1400	(M/D) Q140170wI	(M/D) Q140170XI	(M/D) Q140170ZI	1300	25/40	Shank 30/38	1520
1500	(M/D) Q150170wI	(M/D) Q150170XI	(M/D) Q150170ZI	1300	25/40	Shank 30/38	1370
1600	(M/D) Q160170wI	(M/D) Q160170XI	(M/D) Q160170ZI	1300	25/40	Shank 30/38	1510
1700	(M/D) Q170170wI	(M/D) Q170170XI	(M/D) Q170170ZI	1300	25/40	Shank 30/38	1630
1800	(M/D) Q180170wI	(M/D) Q180170XI	(M/D) Q180170ZI	1300	25/40	Shank 30/38	1775
1900	(M/D) Q190170wI	(M/D) Q190170XI	(M/D) Q190170ZI	1300	25/40	Shank 30/38	1925
2000	(M/D) Q200170wI	(M/D) Q200170XI	(M/D) Q200170ZI	1300	25/40	Shank 30/38	2100
2200	(M/D) Q220170wI	(M/D) Q220170XI	(M/D) Q220170ZI	1300	25/40	Shank 30/38	2550
2500	(M/D) Q250170wI	(M/D) Q250170XI	(M/D) Q250170ZI	1300	40/40	Shank 30/38	2880
2800	(M/D) Q280170wI	(M/D) Q280170XI	(M/D) Q280170ZI	1300	40/40	Shank 30/38	3115
3000	(M/D) Q300170wI	(M/D) Q300170XI	(M/D) Q300170ZI	1300	40/40	Shank 30/38	3480

When time is of the essence, the High Quality steel used on our tools, the robust welding, accurate finishing and their durability have made our products the best available on the market.



SRA - S50 (Single Start Rock Auger)

Single start augers built-in with 25 mm round shank pick. Generally used for cutting soft rock formation, low fractured medium-soft rock formation and decompressed rock formations

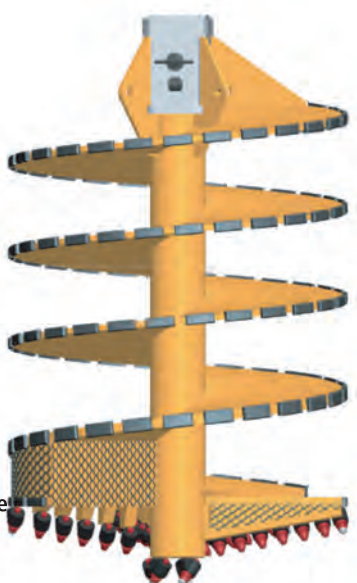


M type

D [mm]	Kelly Box 130 x 130	kelly Box 150 x 150	kelly Box 200 x 200	Hs [mm]	S1/S2 [mm]	Teeth	Appr. Weight [kg]
500	(M/D) Q050150W	(M/D) Q050150X	(M/D) Q050150Z	1350	20/40	Shank 25	510
600	(M/D) Q060150W	(M/D) Q060150X	(M/D) Q060150Z	1400	20/40	Shank 25	564
700	(M/D) Q070150W	(M/D) Q070150X	(M/D) Q070150Z	1400	20/40	Shank 25	680
800	(M/D) Q080150W	(M/D) Q080150X	(M/D) Q080150Z	1400	20/40	Shank 25	750
900	(M/D) Q090150W	(M/D) Q090150X	(M/D) Q090150Z	1400	20/40	Shank 25	893
1000	(M/D) Q100150W	(M/D) Q100150X	(M/D) Q100150Z	1400	25/40	Shank 25	1033
1100	(M/D) Q110150W	(M/D) Q110150X	(M/D) Q110150Z	1350	25/40	Shank 25	1192
1200	(M/D) Q120150W	(M/D) Q120150X	(M/D) Q120150Z	1350	25/40	Shank 25	1349
1300	(M/D) Q130150W	(M/D) Q130150X	(M/D) Q130150Z	1350	25/40	Shank 25	1561
1400	(M/D) Q140150W	(M/D) Q140150X	(M/D) Q140150Z	1350	25/40	Shank 25	1765
1500	(M/D) Q150W150W	(M/D) Q150150X	(M/D) Q150150Z	1500	25/40	Shank 25	2058
1600	(M/D) Q160150W	(M/D) Q160150X	(M/D) Q160150Z	1500	25/40	Shank 25	2310
1700	(M/D) Q170150W	(M/D) Q170150X	(M/D) Q170150Z	1500	25/40	Shank 25	2560
1800	(M/D) Q180150W	(M/D) Q180150X	(M/D) Q180150Z	1500	25/40	Shank 25	2541
1900	(M/D) Q190150W	(M/D) Q190150X	(M/D) Q190150Z	1500	25/40	Shank 25	2783
2000	(M/D) Q200150W	(M/D) Q200150X	(M/D) Q200150Z	1500	25/40	Shank 25	3017

SRA - S60 (Heavy Duty - Single Start Rock Auger)

Heavy Duty single start augers built-in with 30/38 mm round shank pick. Generally used for cutting soft rock formation, low fractured medium-soft rock formation and decompressed rock formations.



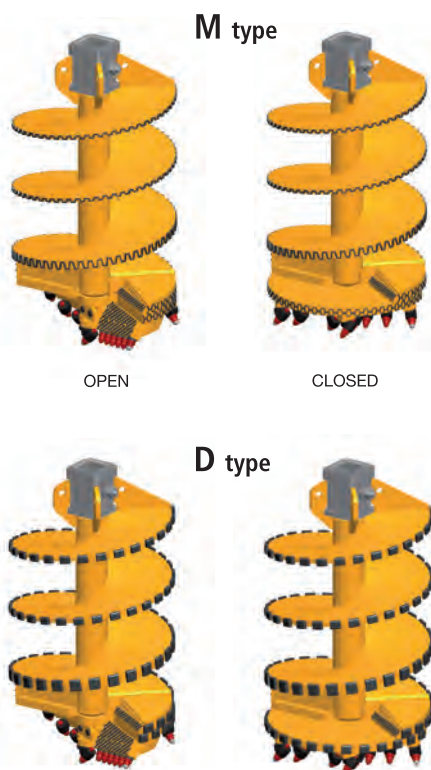
D type

D [mm]	Kelly Box 130 x 130	kelly Box 150 x 150	kelly Box 200 x 200	Hs [mm]	S1/S2 [mm]	Teeth	Appr. Weight [kg]
500	(M/D) Q050160W	(M/D) Q050160X	(M/D) Q050160Z	1350	20/40	Shank 30/38	510
600	(M/D) Q060160W	(M/D) Q060160X	(M/D) Q060160Z	1400	20/40	Shank 30/38	564
700	(M/D) Q070160W	(M/D) Q070160X	(M/D) Q070160Z	1400	20/40	Shank 30/38	680
800	(M/D) Q080160W	(M/D) Q080160X	(M/D) Q080160Z	1400	20/40	Shank 30/38	750
900	(M/D) Q090160W	(M/D) Q090160X	(M/D) Q090160Z	1400	20/40	Shank 30/38	893
1000	(M/D) Q100160W	(M/D) Q100160X	(M/D) Q100160Z	1400	25/40	Shank 30/38	1033
1100	(M/D) Q110160W	(M/D) Q110160X	(M/D) Q110160Z	1350	25/40	Shank 30/38	1192
1200	(M/D) Q120160W	(M/D) Q120160X	(M/D) Q120160Z	1350	25/40	Shank 30/38	1349
1300	(M/D) Q130160W	(M/D) Q130160X	(M/D) Q130160Z	1350	25/40	Shank 30/38	1561
1400	(M/D) Q140160W	(M/D) Q140160X	(M/D) Q140160Z	1350	25/40	Shank 30/38	1765
1500	(M/D) Q150160W	(M/D) Q150160X	(M/D) Q150160Z	1500	25/40	Shank 30/38	2058
1600	(M/D) Q160160W	(M/D) Q160160X	(M/D) Q160160Z	1500	25/40	Shank 30/38	2310
1700	(M/D) Q170160W	(M/D) Q170160X	(M/D) Q170160Z	1500	25/40	Shank 30/38	2560
1800	(M/D) Q180160W	(M/D) Q180160X	(M/D) Q180160Z	1500	25/40	Shank 30/38	2541
1900	(M/D) Q190160W	(M/D) Q190160X	(M/D) Q190160Z	1500	25/40	Shank 30/38	2783
2000	(M/D) Q200160W	(M/D) Q200160X	(M/D) Q200160Z	1500	25/40	Shank 30/38	3017

SRA - S90

(Heavy Duty - Guillotine Single Start Rock Auger)

Single start Heavy Duty rock AUGER with revolving bottom. Mainly used for well cemented conglomerates soils, agglomerates, medium-soft fractured rock formation and decompressed rocks. Revolving bottom solution increase auger capacity to extract drilled material.

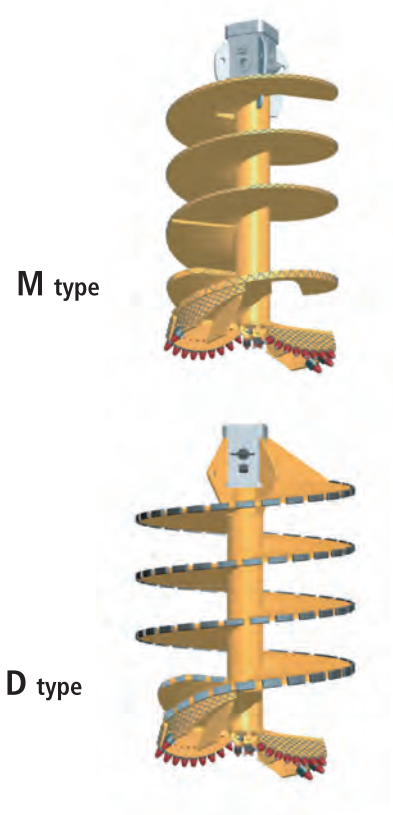


D [mm]	Kelly Box 130 x 130	kelly Box 150 x 150	kelly Box 200 x 200	Hs [mm]	S1/S2 [mm]	Teeth	Appr. Weight [kg]
500	(M/D) Q050190Wl	(M/D) Q050190Xl	(M/D) Q050190Zl	1350	20/40	Shank 30/38	710
600	(M/D) Q060190Wl	(M/D) Q060190Xl	(M/D) Q060190Zl	1400	20/40	Shank 30/38	764
700	(M/D) Q070190Wl	(M/D) Q070190Xl	(M/D) Q070190Zl	1400	20/40	Shank 30/38	880
800	(M/D) Q080190Wl	(M/D) Q080190Xl	(M/D) Q080190Zl	1400	20/40	Shank 30/38	950
900	(M/D) Q090190Wl	(M/D) Q090190Xl	(M/D) Q090190Zl	1400	20/40	Shank 30/38	1093
1000	(M/D) Q100190Wl	(M/D) Q100190Xl	(M/D) Q100190Zl	1400	25/40	Shank 30/38	1233
1100	(M/D) Q110190Wl	(M/D) Q110190Xl	(M/D) Q110190Zl	1350	25/40	Shank 30/38	1392
1200	(M/D) Q120190Wl	(M/D) Q120190Xl	(M/D) Q120190Zl	1350	25/40	Shank 30/38	1549
1300	(M/D) Q130190Wl	(M/D) Q130190Xl	(M/D) Q130190Zl	1350	25/40	Shank 30/38	1761
1400	(M/D) Q140190Wl	(M/D) Q140190Xl	(M/D) Q140190Zl	1350	25/40	Shank 30/38	1965
1500	(M/D) Q150190Wl	(M/D) Q150190Xl	(M/D) Q150190Zl	1500	25/40	Shank 30/38	2258
1600	(M/D) Q160190Wl	(M/D) Q160190Xl	(M/D) Q160190Zl	1500	25/40	Shank 30/38	2510
1700	(M/D) Q170190Wl	(M/D) Q170190Xl	(M/D) Q170190Zl	1500	25/40	Shank 30/38	2760
1800	(M/D) Q180190Wl	(M/D) Q180190Xl	(M/D) Q180190Zl	1500	25/40	Shank 30/38	2741
1900	(M/D) Q190190Wl	(M/D) Q190190Xl	(M/D) Q190190Zl	1500	25/40	Shank 30/38	2983
2000	(M/D) Q200190Wl	(M/D) Q200190Xl	(M/D) Q200190Zl	1500	25/40	Shank 30/38	3217

SRA - D80

(Heavy Duty - Double Start Rock Auger)

Heavy Duty double start SRA-D80 auger built-in with 30/38 mm round shank picks. Generally used for cutting fractured medium-hard rock formation combined with fines and coarse soil formation.



D [mm]	Kelly Box 130 x 130	kelly Box 150 x 150	kelly Box 200 x 200	Hs [mm]	S1/S2 [mm]	Teeth	Appr. Weight [kg]
500	(M/D) Q050180Wl	(M/D) Q050180Xl	(M/D) Q050180Zl	1350	20/40	Shank 30/38	785
600	(M/D) Q060180Wl	(M/D) Q060180Xl	(M/D) Q060180Zl	1400	20/40	Shank 30/38	885
700	(M/D) Q070180Wl	(M/D) Q070180Xl	(M/D) Q070180Zl	1400	20/40	Shank 30/38	935
800	(M/D) Q080180Wl	(M/D) Q080180Xl	(M/D) Q080180Zl	1400	20/40	Shank 30/38	1070
900	(M/D) Q090180Wl	(M/D) Q090180Xl	(M/D) Q090180Zl	1400	20/40	Shank 30/38	1160
1000	(M/D) Q100180Wl	(M/D) Q100180Xl	(M/D) Q100180Zl	1400	25/40	Shank 30/38	1255
1100	(M/D) Q110180Wl	(M/D) Q110180Xl	(M/D) Q110180Zl	1350	25/40	Shank 30/38	1415
1200	(M/D) Q120180Wl	(M/D) Q120180Xl	(M/D) Q120180Zl	1350	25/40	Shank 30/38	1535
1300	(M/D) Q130180Wl	(M/D) Q130180Xl	(M/D) Q130180Zl	1350	25/40	Shank 30/38	1665
1400	(M/D) Q140180Wl	(M/D) Q140180Xl	(M/D) Q140180Zl	1350	25/40	Shank 30/38	1820
1500	(M/D) Q150180Wl	(M/D) Q150180Xl	(M/D) Q150180Zl	1500	25/40	Shank 30/38	1670
1600	(M/D) Q160180Wl	(M/D) Q160180Xl	(M/D) Q160180Zl	1500	25/40	Shank 30/38	1810
1700	(M/D) Q170180Wl	(M/D) Q170180Xl	(M/D) Q170180Zl	1500	25/40	Shank 30/38	1930
1800	(M/D) Q180180Wl	(M/D) Q180180Xl	(M/D) Q180180Zl	1500	25/40	Shank 30/38	2075
1900	(M/D) Q190180Wl	(M/D) Q190180Xl	(M/D) Q190180Zl	1500	25/40	Shank 30/38	2225
2000	(M/D) Q200180Wl	(M/D) Q200180Xl	(M/D) Q200180Zl	1500	25/40	Shank 30/38	2400

Automated Teeth Positioning System

Drilling tools teeth alignment and assembling accuracy is imperative. CM Mazzoni has introduced an Automatic Tooth Positioning where man errors or inaccuracies are avoided by a computerized assembling system. This sophisticated mechanical process guarantee accurateness, effectiveness and product Quality.



Drilling tool range includes general purpose Augers, boring Buckets, cleaning Buckets and core barrels amongst others. Standard drilling tools range from small to large borehole diameters (400 mm - 2000 mm), and offer the possibility to mount kelly box size 130x130 mm, 150x150 mm and 200x200 mm.

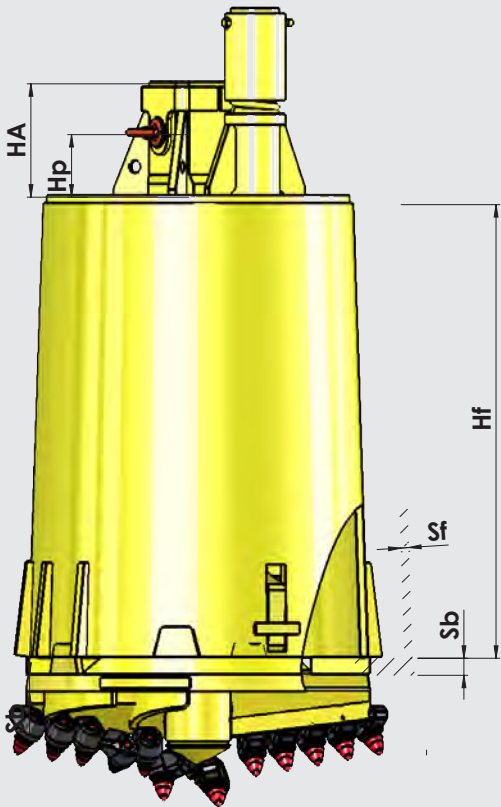


Reference scheme for reading
the following tables

Kelly box type	130x130	150x150	200x200
HA(mm)	260	300	435
Hp(mm)	150	160	124

The weight shown in the tables refers
to tools with Kelly box 130x130

The teeth type to choose must be
related to tool diameter



SRB - D00
(Double Blade Rock Bucket)

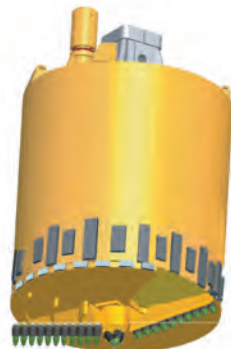
Double blade SRB-D05 Bucket. Used for cutting soft to medium-hard fractured rock formation combined with low fines and coarse soil; decompressed rock formations.

HF_Body Length: 1000 mm

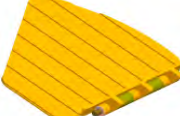
M type



D type



D [mm]	Kelly Box 130 x 130	kelly Box 150 x 150	kelly Box 200 x 200	Hf [mm]	Sf [mm]	Sb [mm]	Teeth	Appr. Weight [kg]
500	(M/D) P050405W			1000	20	40	Shank 25	380
600	(M/D) P060405W	(M/D) P060405X	(M/D) P060405Z	1000	20	40	Shank 25	424
700	(M/D) P070405W	(M/D) P070405X	(M/D) P070405Z	1000	20	40	Shank 25	494
800	(M/D) P080405W	(M/D) P080405X	(M/D) P080405Z	1000	20	40	Shank 25	645
900	(M/D) P090405W	(M/D) P090405X	(M/D) P090405Z	1000	20	40	Shank 25	714
1000	(M/D) P100405W	(M/D) P100405X	(M/D) P100405Z	1000	20	40	Shank 25	842
1100	(M/D) P110405W	(M/D) P110405X	(M/D) P110405Z	1000	20	40	Shank 25	875
1200	(M/D) P120405W	(M/D) P120405X	(M/D) P120405Z	1000	20	40	Shank 25	1064
1300	(M/D) P130405W	(M/D) P130405X	(M/D) P130405Z	1000	20	40	Shank 25	1176
1400	(M/D) P140405W	(M/D) P140405X	(M/D) P140405Z	1000	20	40	Shank 25	1291
1500	(M/D) P150405W	(M/D) P150405X	(M/D) P150405Z	1000	20	40	Shank 25	1436
1600	(M/D) P160405W	(M/D) P160405X	(M/D) P160405Z	1000	20	40	Shank 25	1554
1700	(M/D) P170405W	(M/D) P170405X	(M/D) P170405Z	1000	20	40	Shank 25	1669
1800	(M/D) P180405W	(M/D) P180405X	(M/D) P180405Z	1000	20	40	Shank 25	2091
1900	(M/D) P190405W	(M/D) P190405X	(M/D) P190405Z	1000	20	40	Shank 25	2295
2000	(M/D) P200405W	(M/D) P200405X	(M/D) P200405Z	1000	20	40	Shank 25	2458

		SPRING	OPENING SYSTEM	BOTTOM	FLAP VALVE	HINGE
BUCKET SRB - D00	DOUBLE BLADE ROCK BUCKET					
		spring	opening system	rock bottom	standard flap valve	hinge
Ø600	MP060405 (W-X-Z)	40630001	02310480	02310475	02310126	02310171
Ø700	MP070405 (W-X-Z)	40630001	02310481	02310476	02310127	02310172
Ø800	MP080405 (W-X-Z)	40630001	02310481	02310477	02310128	02310172
Ø900	MP090405 (W-X-Z)	40630001	02310482	02310478	02310129	02310173
Ø1000	MP100405 (W-X-Z)	40630113	02310483	02310479	02310130	02310173
Ø1100	MP110405 (W-X-Z)	40630113	02310483	02310480	02310131	02310173
Ø1200	MP120405 (W-X-Z)	40630113	02310483	02310481	02310132	02310174
Ø1300	MP130405 (W-X-Z)	40630113	02310483	02310482	02310133	02310174
Ø1400	MP140405 (W-X-Z)	40630113	02310483	02310483	02310134	02310174
Ø1500	MP150405 (W-X-Z)	40630113	02310484	02310484	02310135	02310175
Ø1600	MP160405 (W-X-Z)	40630113	02310484	02310485	02310136	02310175
Ø1700	MP170405 (W-X-Z)	40630113	02310485	02310486	02310137	02310175
Ø1800	MP180405 (W-X-Z)	40630113	02310486	02310487	02310138	02310176
Ø1900	MP190405 (W-X-Z)	40630113	02310487	02310488	02310139	02310176
Ø2000	MP200405 (W-X-Z)	40630113	02310487	02310489	02310140	02310176



SRB - ROCK BUCKETS

SRB - D05

(Heavy Duty - Double Blade Rock Bucket)

Double blade Heavy Duty SRB-D05 Bucket. Used for cutting soft to medium-hard fractured rock formation combined with low fines and coarse soil; decompressed rock formations.

HF_Body Length: 1200 mm

M type



D type



D [mm]	Kelly Box 130 x 130	kelly Box 150 x 150	kelly Box 200 x 200	Hf [mm]	Sf [mm]	Sb [mm]	Teeth	Appr. Weight [kg]
500	(M/D) Q050405W			1200	20	45	Shank 25	375
600	(M/D) Q060405W	(M/D) Q060405X	(M/D) Q060405Z	1200	20	45	Shank 25	410
700	(M/D) Q070405W	(M/D) Q070405X	(M/D) Q070405Z	1200	20	45	Shank 25	565
800	(M/D) Q080405W	(M/D) Q080405X	(M/D) Q080405Z	1200	20	45	Shank 25	740
900	(M/D) Q090405W	(M/D) Q090405X	(M/D) Q090405Z	1200	20	45	Shank 25	910
1000	(M/D) Q100405W	(M/D) Q100405X	(M/D) Q100405Z	1200	20	45	Shank 25	1085
1100	(M/D) Q110405W	(M/D) Q110405X	(M/D) Q110405Z	1200	20	45	Shank 25	1270
1200	(M/D) Q120405W	(M/D) Q120405X	(M/D) Q120405Z	1200	20	45	Shank 25	1450
1300	(M/D) Q130405W	(M/D) Q130405X	(M/D) Q130405Z	1200	20	45	Shank 25	1665
1400	(M/D) Q140405W	(M/D) Q140405X	(M/D) Q140405Z	1200	20	45	Shank 25	1885
1500	(M/D) Q150405W	(M/D) Q150405X	(M/D) Q150405Z	1200	20	45	Shank 25	2090
1600	(M/D) Q160405W	(M/D) Q160405X	(M/D) Q160405Z	1200	20	45	Shank 25	2290
1700	(M/D) Q170405W	(M/D) Q170405X	(M/D) Q170405Z	1200	20	45	Shank 25	2485
1800	(M/D) Q180405W	(M/D) Q180405X	(M/D) Q180405Z	1200	20	45	Shank 25	2680
1900	(M/D) Q190405W	(M/D) Q190405X	(M/D) Q190405Z	1200	20	45	Shank 25	2875
2000	(M/D) Q200405W	(M/D) Q200405X	(M/D) Q200405Z	1200	20	45	Shank 25	3075

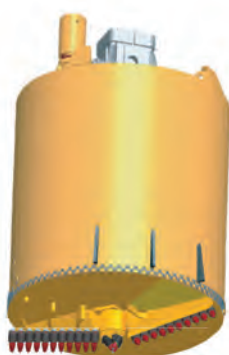
SRB - D06

(Heavy Duty - Double Blade Rock Bucket)

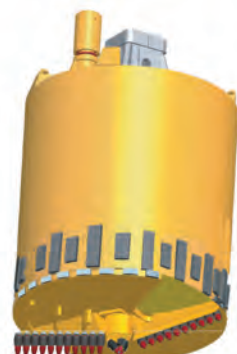
Double blade Heavy Duty SRB-D05 Bucket. Used for cutting soft to medium-hard fractured rock formation combined with low fines and coarse soil; decompressed rock formations.

HF_Body Length: 1200 mm

type M



D type



D [mm]	Kelly Box 130 x 130	kelly Box 150 x 150	kelly Box 200 x 200	Hf [mm]	Sf [mm]	Sb [mm]	Teeth	Appr. Weight [kg]
500	(M/D) Q050406W			1200	20	45	Shank 30/38	375
600	(M/D) Q060406W	(M/D) Q060406X	(M/D) Q060406Z	1200	20	45	Shank 30/38	410
700	(M/D) Q070406W	(M/D) Q070406X	(M/D) Q070406Z	1200	20	45	Shank 30/38	565
800	(M/D) Q080406W	(M/D) Q080406X	(M/D) Q080406Z	1200	20	45	Shank 30/38	740
900	(M/D) Q090406W	(M/D) Q090406X	(M/D) Q090406Z	1200	20	45	Shank 30/38	910
1000	(M/D) Q100406W	(M/D) Q100406X	(M/D) Q100406Z	1200	20	45	Shank 30/38	1085
1100	(M/D) Q110406W	(M/D) Q110406X	(M/D) Q110406Z	1200	20	45	Shank 30/38	1270
1200	(M/D) Q120406W	(M/D) Q120406X	(M/D) Q120406Z	1200	20	45	Shank 30/38	1450
1300	(M/D) Q130406W	(M/D) Q130406X	(M/D) Q130406Z	1200	20	45	Shank 30/38	1665
1400	(M/D) Q140406W	(M/D) Q140406X	(M/D) Q140406Z	1200	20	45	Shank 30/38	1885
1500	(M/D) Q150406W	(M/D) Q150406X	(M/D) Q150406Z	1200	20	45	Shank 30/38	2090
1600	(M/D) Q160406W	(M/D) Q160406X	(M/D) Q160406Z	1200	20	45	Shank 30/38	2290
1700	(M/D) Q170406W	(M/D) Q170406X	(M/D) Q170406Z	1200	20	45	Shank 30/38	2485
1800	(M/D) Q180406W	(M/D) Q180406X	(M/D) Q180406Z	1200	20	45	Shank 30/38	2680
1900	(M/D) Q190406W	(M/D) Q190406X	(M/D) Q190406Z	1200	20	45	Shank 30/38	2875
2000	(M/D) Q200406W	(M/D) Q200406X	(M/D) Q200406Z	1200	20	45	Shank 30/38	3075

		SPRING	OPENING SYSTEM	BOTTOM	FLAP VALVE	HINGE
BUCKET SRB - D05	HEAVY DUTY - DOUBLE BLADE ROCK BUCKET					
		spring	opening system	heavy duty rock bottom	standard flap valve	hinge
Ø600	MQ060405 (W-X-Z)	40630001	02310107	02310297	02310126	02310171
Ø700	MQ070405 (W-X-Z)	40630001	02310108	02310298	02310127	02310172
Ø800	MQ080405 (W-X-Z)	40630001	02310109	02310299	02310128	02310172
Ø900	MQ090405 (W-X-Z)	40630001	02310110	02310300	02310129	02310173
Ø1000	MQ100405 (W-X-Z)	40630113	02310111	02310301	02310130	02310173
Ø1100	MQ110405 (W-X-Z)	40630113	02310112	02310302	02310131	02310173
Ø1200	MQ120405 (W-X-Z)	40630113	02310113	02310303	02310132	02310174
Ø1300	MQ130405 (W-X-Z)	40630113	02310114	02310304	02310133	02310174
Ø1400	MQ140405 (W-X-Z)	40630113	02310115	02310305	02310134	02310174
Ø1500	MQ150405 (W-X-Z)	40630113	02310116	02310306	02310135	02310175
Ø1600	MQ160405 (W-X-Z)	40630113	02310117	02310307	02310136	02310175
Ø1700	MQ170405 (W-X-Z)	40630113	02310118	02310308	02310137	02310175
Ø1800	MQ180405 (W-X-Z)	40630113	02310119	02310309	02310138	02310176
Ø1900	MQ190405 (W-X-Z)	40630113	02310120	02310310	02310139	02310176
Ø2000	MQ200405 (W-X-Z)	40630113	02310121	02310311	02310140	02310176

		SPRING	OPENING SYSTEM	BOTTOM	FLAP VALVE	HINGE
BUCKET SRB - D06	HEAVY DUTY - DOUBLE BLADE ROCK BUCKET					
		spring	opening system	heavy duty rock bottom	standard flap valve	hinge
Ø600	MQ060406 (W-X-Z)I	40630001	02310107	02311155	02310126	02310171
Ø700	MQ070406 (W-X-Z)I	40630001	02310108	02311156	02310127	02310172
Ø800	MQ080406 (W-X-Z)I	40630001	02310109	02311157	02310128	02310172
Ø900	MQ090406 (W-X-Z)I	40630001	02310110	02311158	02310129	02310173
Ø1000	MQ100406 (W-X-Z)I	40630113	02310111	02311159	02310130	02310173
Ø1100	MQ110406 (W-X-Z)I	40630113	02310112	02311160	02310131	02310173
Ø1200	MQ120406 (W-X-Z)I	40630113	02310113	02311161	02310132	02310174
Ø1300	MQ130406 (W-X-Z)I	40630113	02310114	02311162	02310133	02310174
Ø1400	MQ140406 (W-X-Z)I	40630113	02310115	02311163	02310134	02310174
Ø1500	MQ150406 (W-X-Z)I	40630113	02310116	02311164	02310135	02310175
Ø1600	MQ160406 (W-X-Z)I	40630113	02310117	02311165	02310136	02310175
Ø1700	MQ170406 (W-X-Z)I	40630113	02310118	02311166	02310137	02310175
Ø1800	MQ180406 (W-X-Z)I	40630113	02310119	02311167	02310138	02310176
Ø1900	MQ190406 (W-X-Z)I	40630113	02310120	02311168	02310139	02310176
Ø2000	MQ200406 (W-X-Z)I	40630113	02310121	02311169	02310140	02310176

SRB - ROCK BUCKETS

SRB - S25

(Heavy Duty - Single Blade Rock Bucket)

Single blade Heavy Duty SRB-S50 Bucket.

Used for cutting soft and medium-soft fractured rock formations; decompressed rock formations.

HF_Body Length: 1200 mm

M type



D type



D [mm]	Kelly Box 130 x 130	kelly Box 150 x 150	kelly Box 200 x 200	Hf [mm]	Sf [mm]	Sb [mm]	Teeth	Appr. Weight [kg]
500	(M/D) Q050425W			1200	20	45	Shank 25	505
600	(M/D) Q060425W	(M/D) Q060425X	(M/D) Q060425Z	1200	20	45	Shank 25	565
700	(M/D) Q070425W	(M/D) Q070425X	(M/D) Q070425Z	1200	20	45	Shank 25	750
800	(M/D) Q080425W	(M/D) Q080425X	(M/D) Q080425Z	1200	20	45	Shank 25	930
900	(M/D) Q090425W	(M/D) Q090425X	(M/D) Q090425Z	1200	20	45	Shank 25	1110
1000	(M/D) Q100425W	(M/D) Q100425X	(M/D) Q100425Z	1200	20	45	Shank 25	1295
1100	(M/D) Q110425W	(M/D) Q110425X	(M/D) Q110425Z	1200	20	45	Shank 25	1480
1200	(M/D) Q120425W	(M/D) Q120425X	(M/D) Q120425Z	1200	20	45	Shank 25	1665
1300	(M/D) Q130425W	(M/D) Q130425X	(M/D) Q130425Z	1200	20	45	Shank 25	1875
1400	(M/D) Q140425W	(M/D) Q140425X	(M/D) Q140425Z	1200	20	45	Shank 25	2090
1500	(M/D) Q150425W	(M/D) Q150425X	(M/D) Q150425Z	1200	20	45	Shank 25	2305
1600	(M/D) Q160425W	(M/D) Q160425X	(M/D) Q160425Z	1200	20	45	Shank 25	2505
1700	(M/D) Q170425W	(M/D) Q170425X	(M/D) Q170425Z	1200	20	45	Shank 25	2700
1800	(M/D) Q180425W	(M/D) Q180425X	(M/D) Q180425Z	1200	20	45	Shank 25	2900
1900	(M/D) Q190425W	(M/D) Q190425X	(M/D) Q190425Z	1200	20	45	Shank 25	3100
2000	(M/D) Q200425W	(M/D) Q200425X	(M/D) Q200425Z	1200	20	45	Shank 25	3295

SRB - S50

(Heavy Duty - Guillotine Single Blade Rock Bucket)

Single blade Heavy Duty SRB-S50 Bucket.

Used for cutting soft and medium-soft fractured rock formations; decompressed rock formations.

HF_Body Length: 1200 mm

M type

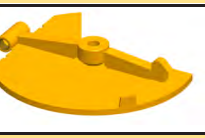


D type



D [mm]	Kelly Box 130 x 130	kelly Box 150 x 150	kelly Box 200 x 200	Hf [mm]	Sf [mm]	Sb [mm]	Teeth	Appr. Weight [kg]
500	(M/D) Q050450WI			1200	20	45	Shank 30/38	505
600	(M/D) Q060450WI	(M/D) Q060450XI	(M/D) Q060450ZI	1200	20	45	Shank 30/38	565
700	(M/D) Q070450WI	(M/D) Q070450XI	(M/D) Q070450ZI	1200	20	45	Shank 30/38	750
800	(M/D) Q080450WI	(M/D) Q080450XI	(M/D) Q080450ZI	1200	20	45	Shank 30/38	930
900	(M/D) Q090450WI	(M/D) Q090450XI	(M/D) Q090450ZI	1200	20	45	Shank 30/38	1110
1000	(M/D) Q100450WI	(M/D) Q100450XI	(M/D) Q100450ZI	1200	20	45	Shank 30/38	1295
1100	(M/D) Q110450WI	(M/D) Q110450XI	(M/D) Q110450ZI	1200	20	45	Shank 30/38	1480
1200	(M/D) Q120450WI	(M/D) Q120450XI	(M/D) Q120450ZI	1200	20	45	Shank 30/38	1665
1300	(M/D) Q130450WI	(M/D) Q130450XI	(M/D) Q130450ZI	1200	20	45	Shank 30/38	1875
1400	(M/D) Q140450WI	(M/D) Q140450XI	(M/D) Q140450ZI	1200	20	45	Shank 30/38	2090
1500	(M/D) Q150450WI	(M/D) Q150450XI	(M/D) Q150450ZI	1200	20	45	Shank 30/38	2305
1600	(M/D) Q160450WI	(M/D) Q160450XI	(M/D) Q160450ZI	1200	20	45	Shank 30/38	2505
1700	(M/D) Q170450WI	(M/D) Q170450XI	(M/D) Q170450ZI	1200	20	45	Shank 30/38	2700
1800	(M/D) Q180450WI	(M/D) Q180450XI	(M/D) Q180450ZI	1200	20	45	Shank 30/38	2900
1900	(M/D) Q190450WI	(M/D) Q190450XI	(M/D) Q190450ZI	1200	20	45	Shank 30/38	3100
2000	(M/D) Q200450WI	(M/D) Q200450XI	(M/D) Q200450ZI	1200	20	45	Shank 30/38	3295

		SPRING	OPENING SYSTEM	OPENING BOTTOM	REVOLVING BOTTOM	HINGE
BUCKET SRB - S25	HEAVY DUTY - GUILLotine SINGLE BLADE ROCK BUCKET					
		spring	opening system	heavy duty rock guillotine single blade opening bottom	heavy duty rock guillotine single blade revolving bottom	hinge
Ø600	MQ060425 (W-X-Z)	40630001	02310107	02310237	02310252	02310171
Ø700	MQ070425 (W-X-Z)	40630001	02310108	02310238	02310253	02310172
Ø800	MQ080425 (W-X-Z)	40630001	02310109	02310239	02310254	02310172
Ø900	MQ090425 (W-X-Z)	40630001	02310110	02310240	02310255	02310173
Ø1000	MQ100425 (W-X-Z)	40630113	02310111	02310241	02310256	02310173
Ø1100	MQ110425 (W-X-Z)	40630113	02310112	02310242	02310257	02310173
Ø1200	MQ120425 (W-X-Z)	40630113	02310113	02310243	02310258	02310174
Ø1300	MQ130425 (W-X-Z)	40630113	02310114	02310244	02310259	02310174
Ø1400	MQ140425 (W-X-Z)	40630113	02310115	02310245	02310260	02310174
Ø1500	MQ150425 (W-X-Z)	40630113	02310116	02310246	02310261	02310175
Ø1600	MQ160425 (W-X-Z)	40630113	02310117	02310247	02310262	02310175
Ø1700	MQ170425 (W-X-Z)	40630113	02310118	02310248	02310263	02310175
Ø1800	MQ180425 (W-X-Z)	40630113	02310119	02310249	02310264	02310176
Ø1900	MQ190425 (W-X-Z)	40630113	02310120	02310250	02310265	02310176
Ø2000	MQ200425 (W-X-Z)	40630113	02310121	02310251	02310266	02310176

		SPRING	OPENING SYSTEM	OPENING BOTTOM	REVOLVING BOTTOM	HINGE
BUCKET SRB - S50	HEAVY DUTY - GUILLotine SINGLE BLADE ROCK BUCKET					
		spring	opening system	heavy duty rock guillotine single blade opening bottom	heavy duty rock guillotine single blade revolving bottom	hinge
Ø600	MQ060450 (W-X-Z)I	40630001	02310107	02310237	02311121	02310171
Ø700	MQ070450 (W-X-Z)I	40630001	02310108	02310238	02311122	02310172
Ø800	MQ080450 (W-X-Z)I	40630001	02310109	02310239	02311123	02310172
Ø900	MQ090450 (W-X-Z)I	40630001	02310110	02310240	02311124	02310173
Ø1000	MQ100450 (W-X-Z)I	40630113	02310111	02310241	02311125	02310173
Ø1100	MQ110450 (W-X-Z)I	40630113	02310112	02310242	02311126	02310173
Ø1200	MQ120450 (W-X-Z)I	40630113	02310113	02310243	02311127	02310174
Ø1300	MQ130450 (W-X-Z)I	40630113	02310114	02310244	02311128	02310174
Ø1400	MQ140450 (W-X-Z)I	40630113	02310115	02310245	02311129	02310174
Ø1500	MQ150450 (W-X-Z)I	40630113	02310116	02310246	02311130	02310175
Ø1600	MQ160450 (W-X-Z)I	40630113	02310117	02310247	02311131	02310175
Ø1700	MQ170450 (W-X-Z)I	40630113	02310118	02310248	02311132	02310175
Ø1800	MQ180450 (W-X-Z)I	40630113	02310119	02310249	02311133	02310176
Ø1900	MQ190450 (W-X-Z)I	40630113	02310120	02310250	02311134	02310176
Ø2000	MQ200450 (W-X-Z)I	40630113	02310121	02310251	02311135	02310176

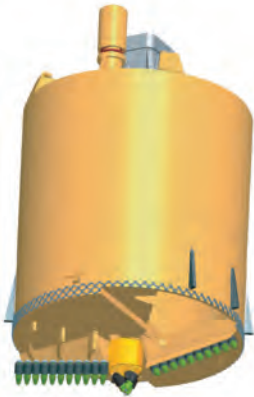
SRB - ROCK BUCKETS

SRB - DG00

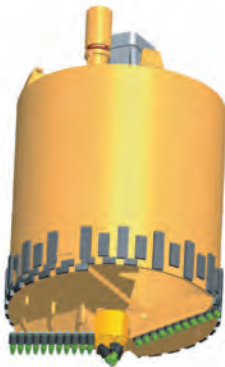
Guillotine Double Blade Rock Auger)

Double blade SRB-D35 Bucket. Used for cutting medium-soft low fractured rock formation combined with coarse soil; highly fractures hard rock formation and decompressed rock formations.
HF_Body Length: 1000 mm

M type



D type



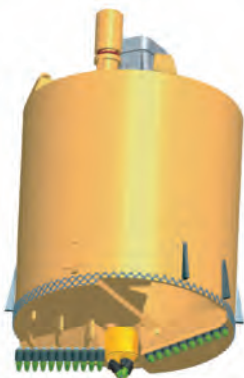
D [mm]	Kelly Box 130 x 130	kelly Box 150 x 150	kelly Box 200 x 200	Hf [mm]	Sf [mm]	Sb [mm]	Teeth	Appr. Weight [kg]
500	(M/D) P050435W			1200	20	45	Shank 25	570
600	(M/D) P060435W	(M/D) P060435X	(M/D) P060435Z	1200	20	45	Shank 25	610
700	(M/D) P070435W	(M/D) P070435X	(M/D) P070435Z	1200	20	45	Shank 25	765
800	(M/D) P080435W	(M/D) P080435X	(M/D) P080435Z	1200	20	45	Shank 25	940
900	(M/D) P090435W	(M/D) P090435X	(M/D) P090435Z	1200	20	45	Shank 25	1110
1000	(M/D) P100435W	(M/D) P100435X	(M/D) P100435Z	1200	20	45	Shank 25	1285
1100	(M/D) P110435W	(M/D) P110435X	(M/D) P110435Z	1200	20	45	Shank 25	1470
1200	(M/D) P120435W	(M/D) P120435X	(M/D) P120435Z	1200	20	45	Shank 25	1650
1300	(M/D) P130435W	(M/D) P130435X	(M/D) P130435Z	1200	20	45	Shank 25	1865
1400	(M/D) P140435W	(M/D) P140435X	(M/D) P140435Z	1200	20	45	Shank 25	2085
1500	(M/D) P150435W	(M/D) P150435X	(M/D) P150435Z	1200	20	45	Shank 25	2290
1600	(M/D) P160435W	(M/D) P160435X	(M/D) P160435Z	1200	20	45	Shank 25	2490
1700	(M/D) P170435W	(M/D) P170435X	(M/D) P170435Z	1200	20	45	Shank 25	2685
1800	(M/D) P180435W	(M/D) P180435X	(M/D) P180435Z	1200	20	45	Shank 25	2880
1900	(M/D) P190435W	(M/D) P190435X	(M/D) P190435Z	1200	20	45	Shank 25	3075
2000	(M/D) P200435W	(M/D) P200435X	(M/D) P200435Z	1200	20	45	Shank 25	3275

SRB - DG35

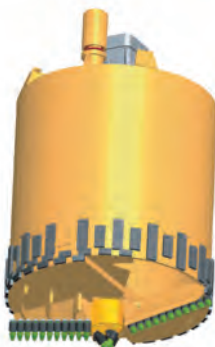
(Heavy Duty - Guillotine Double Blade Rock Bucket)

Double blade Heavy Duty SRB-D35 Bucket. Used for cutting medium-soft low fractured rock formation combined with coarse soil; highly fractures hard rock formation and decompressed rock formations.
HF_Body Length: 1200 mm

M type



D type



D [mm]	Kelly Box 130 x 130	kelly Box 150 x 150	kelly Box 200 x 200	Hf [mm]	Sf [mm]	Sb [mm]	Teeth	Appr. Weight [kg]
500	(M/D) Q050435W			1000	20	40	Shank 25	410
600	(M/D) Q060435W	(M/D) Q060435X	(M/D) Q060435Z	1000	20	40	Shank 25	450
700	(M/D) Q070435W	(M/D) Q070435X	(M/D) Q070435Z	1000	20	40	Shank 25	531
800	(M/D) Q080435W	(M/D) Q080435X	(M/D) Q080435Z	1000	20	40	Shank 25	696
900	(M/D) Q090435W	(M/D) Q090435X	(M/D) Q090435Z	1000	20	40	Shank 25	782
1000	(M/D) Q100435W	(M/D) Q100435X	(M/D) Q100435Z	1000	20	40	Shank 25	924
1100	(M/D) Q110435W	(M/D) Q110435X	(M/D) Q110435Z	1000	20	40	Shank 25	958
1200	(M/D) Q120435W	(M/D) Q120435X	(M/D) Q120435Z	1000	20	40	Shank 25	1188
1300	(M/D) Q130435W	(M/D) Q130435X	(M/D) Q130435Z	1000	20	40	Shank 25	13515
1400	(M/D) Q140435W	(M/D) Q140435X	(M/D) Q140435Z	1000	20	40	Shank 25	1443
1500	(M/D) Q150435W	(M/D) Q150435X	(M/D) Q150435Z	1000	20	40	Shank 25	1620
1600	(M/D) Q160435W	(M/D) Q160435X	(M/D) Q160435Z	1000	20	40	Shank 25	1760
1700	(M/D) Q170435W	(M/D) Q170435X	(M/D) Q170435Z	1000	20	40	Shank 25	1904
1800	(M/D) Q180435W	(M/D) Q180435X	(M/D) Q180435Z	1000	20	40	Shank 25	2351
1900	(M/D) Q190435W	(M/D) Q190435X	(M/D) Q190435Z	1000	20	40	Shank 25	2595
2000	(M/D) Q200435W	(M/D) Q200435X	(M/D) Q200435Z	1000	20	40	Shank 25	2786

		SPRING	OPENING SYSTEM	OPENING BOTTOM	REVOLVING BOTTOM	HINGE
BUCKET SRB - DG00	HEAVY DUTY - GUILLotine DOUBLE BLADE ROCK BUCKET					
		spring	opening system	heavy duty rock guillotine opening bottom	heavy duty rock guillotine revolving bottom	hinge
Ø600	MP060435 (W-X-Z)	40630001	02310480	02310267	02310282	02310171
Ø700	MP070435 (W-X-Z)	40630001	02310481	02310268	02310283	02310172
Ø800	MP080435 (W-X-Z)	40630001	02310481	02310269	02310284	02310172
Ø900	MP090435 (W-X-Z)	40630001	02310482	02310270	02310285	02310173
Ø1000	MP100435 (W-X-Z)	40630113	02310483	02310271	02310286	02310173
Ø1100	MP110435 (W-X-Z)	40630113	02310483	02310272	02310287	02310173
Ø1200	MP120435 (W-X-Z)	40630113	02310483	02310273	02310288	02310174
Ø1300	MP130435 (W-X-Z)	40630113	02310483	02310274	02310289	02310174
Ø1400	MP140435 (W-X-Z)	40630113	02310483	02310275	02310290	02310174
Ø1500	MP150435 (W-X-Z)	40630113	02310484	02310276	02310291	02310175
Ø1600	MP160435 (W-X-Z)	40630113	02310484	02310277	02310292	02310175
Ø1700	MP170435 (W-X-Z)	40630113	02310485	02310278	02310293	02310175
Ø1800	MP180435 (W-X-Z)	40630113	02310486	02310279	02310294	02310176
Ø1900	MP190435 (W-X-Z)	40630113	02310487	02310280	02310295	02310176
Ø2000	MP200435 (W-X-Z)	40630113	02310487	02310281	02310296	02310176

		SPRING	OPENING SYSTEM	OPENING BOTTOM	REVOLVING BOTTOM	HINGE
BUCKET SRB - DG35	HEAVY DUTY - GUILLotine DOUBLE BLADE ROCK BUCKET					
		spring	opening system	heavy duty rock guillotine opening bottom	heavy duty rock guillotine revolving bottom	hinge
Ø600	MQ060435 (W-X-Z)	40630001	02310107	02310267	02310282	02310171
Ø700	MQ070435 (W-X-Z)	40630001	02310108	02310268	02310283	02310172
Ø800	MQ080435 (W-X-Z)	40630001	02310109	02310269	02310284	02310172
Ø900	MQ090435 (W-X-Z)	40630001	02310110	02310270	02310285	02310173
Ø1000	MQ100435 (W-X-Z)	40630113	02310111	02310271	02310286	02310173
Ø1100	MQ110435 (W-X-Z)	40630113	02310112	02310272	02310287	02310173
Ø1200	MQ120435 (W-X-Z)	40630113	02310113	02310273	02310288	02310174
Ø1300	MQ130435 (W-X-Z)	40630113	02310114	02310274	02310289	02310174
Ø1400	MQ140435 (W-X-Z)	40630113	02310115	02310275	02310290	02310174
Ø1500	MQ150435 (W-X-Z)	40630113	02310116	02310276	02310291	02310175
Ø1600	MQ160435 (W-X-Z)	40630113	02310117	02310277	02310292	02310175
Ø1700	MQ170435 (W-X-Z)	40630113	02310118	02310278	02310293	02310175
Ø1800	MQ180435 (W-X-Z)	40630113	02310119	02310279	02310294	02310176
Ø1900	MQ190435 (W-X-Z)	40630113	02310120	02310280	02310295	02310176
Ø2000	MQ200435 (W-X-Z)	40630113	02310121	02310281	02310296	02310176

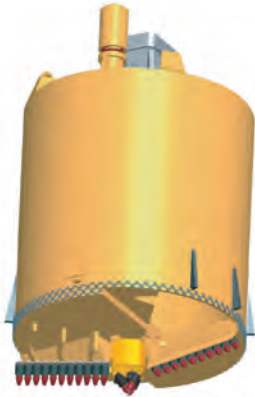
SRB - ROCK BUCKETS

SRB - DG40

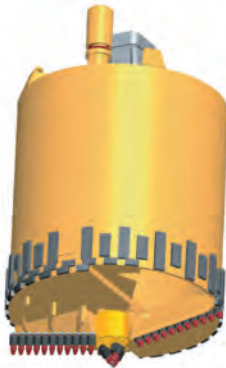
(Heavy Duty - Guillotine Double Blade Rock Bucket)

Double blade Heavy Duty SRB-D40 Bucket. Used for cutting medium-hard fractured rock formation combined with coarse soil; highly fractures hard rock formation and decompressed rock formations.
HF_Body Length: 1200 mm

M type



D type



D [mm]	Kelly Box 130 x 130	kelly Box 150 x 150	kelly Box 200 x 200	Hf [mm]	Sf [mm]	Sb [mm]	Teeth	Appr. Weight [kg]
500	(M/D) Q050440WI			1200	20	45	Shank 30/38	570
600	(M/D) Q060440WI	(M/D) Q060440XI	(M/D) Q060440ZI	1200	20	45	Shank 30/38	610
700	(M/D) Q070440WI	(M/D) Q070440XI	(M/D) Q070440ZI	1200	20	45	Shank 30/38	765
800	(M/D) Q080440WI	(M/D) Q080440XI	(M/D) Q080440ZI	1200	20	45	Shank 30/38	940
900	(M/D) Q090440WI	(M/D) Q090440XI	(M/D) Q090440ZI	1200	20	45	Shank 30/38	1110
1000	(M/D) Q100440WI	(M/D) Q100440XI	(M/D) Q100440ZI	1200	20	45	Shank 30/38	1285
1100	(M/D) Q110440WI	(M/D) Q110440XI	(M/D) Q110440ZI	1200	20	45	Shank 30/38	1470
1200	(M/D) Q120440WI	(M/D) Q120440XI	(M/D) Q120440ZI	1200	20	45	Shank 30/38	1650
1300	(M/D) Q130440WI	(M/D) Q130440XI	(M/D) Q130440ZI	1200	20	45	Shank 30/38	1865
1400	(M/D) Q140440WI	(M/D) Q140440XI	(M/D) Q140440ZI	1200	20	45	Shank 30/38	2085
1500	(M/D) Q150440WI	(M/D) Q150440XI	(M/D) Q150440ZI	1200	20	45	Shank 30/38	2290
1600	(M/D) Q160440WI	(M/D) Q160440XI	(M/D) Q160440ZI	1200	20	45	Shank 30/38	2490
1700	(M/D) Q170440WI	(M/D) Q170440XI	(M/D) Q170440ZI	1200	20	45	Shank 30/38	2685
1800	(M/D) Q180440WI	(M/D) Q180440XI	(M/D) Q180440ZI	1200	20	45	Shank 30/38	2880
1900	(M/D) Q190440WI	(M/D) Q190440XI	(M/D) Q190440ZI	1200	20	45	Shank 30/38	3075
2000	(M/D) Q200440WI	(M/D) Q200440XI	(M/D) Q200440ZI	1200	20	45	Shank 30/38	3275

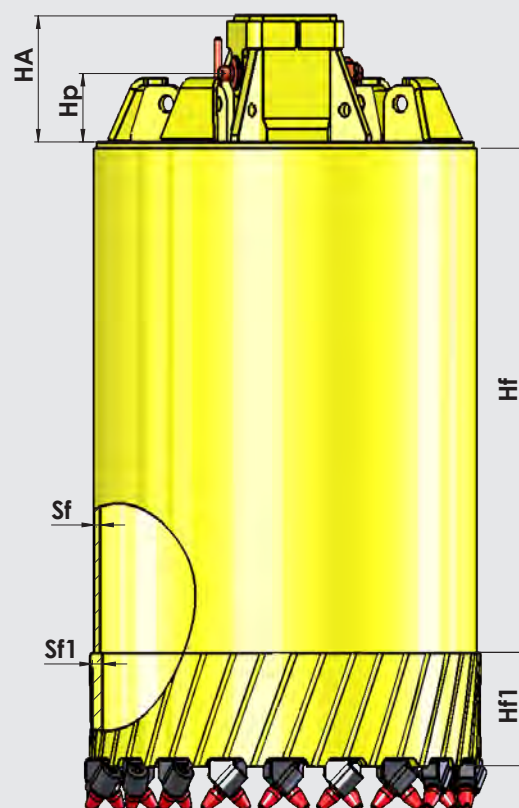
		SPRING	OPENING SYSTEM	OPENING BOTTOM	REVOLVING BOTTOM	HINGE
BUCKET SRB - D40	HEAVY DUTY - GUILLOTINE DOUBLE BLADE ROCK BUCKET					
		spring	opening system	heavy duty rock guillotine opening bottom	heavy duty rock guillotine revolving bottom	hinge
Ø600	MQ060440 (W-X-Z)I	40630001	02310107	02310267	02311136	02310171
Ø700	MQ070440 (W-X-Z)I	40630001	02310108	02310268	02311137	02310172
Ø800	MQ080440 (W-X-Z)I	40630001	02310109	02310269	02311138	02310172
Ø900	MQ090440 (W-X-Z)I	40630001	02310110	02310270	02311139	02310173
Ø1000	MQ100440 (W-X-Z)I	40630113	02310111	02310271	02311140	02310173
Ø1100	MQ110440 (W-X-Z)I	40630113	02310112	02310272	02311141	02310173
Ø1200	MQ120440 (W-X-Z)I	40630113	02310113	02310273	02311142	02310174
Ø1300	MQ130440 (W-X-Z)I	40630113	02310114	02310274	02311143	02310174
Ø1400	MQ140440 (W-X-Z)I	40630113	02310115	02310275	02311144	02310174
Ø1500	MQ150440 (W-X-Z)I	40630113	02310116	02310276	02311145	02310175
Ø1600	MQ160440 (W-X-Z)I	40630113	02310117	02310277	02311146	02310175
Ø1700	MQ170440 (W-X-Z)I	40630113	02310118	02310278	02311147	02310175
Ø1800	MQ180440 (W-X-Z)I	40630113	02310119	02310279	02311148	02310176
Ø1900	MQ190440 (W-X-Z)I	40630113	02310120	02310280	02311149	02310176
Ø2000	MQ200440 (W-X-Z)I	40630113	02310121	02310281	02311150	02310176

Reference scheme for reading
the following tables

Kelly box type	130x130	150x150	200x200
HA(mm)	260	300	435
Hp(mm)	150	160	124

The weight shown in the tables refers
to tools with Kelly box 130x130

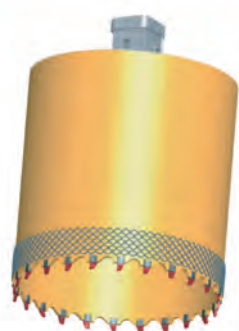
The teeth type to choose must be
related to tool diameter



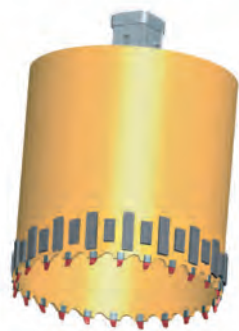
SRC - 00 (Heavy Duty - Core Barrel)

Heavy Duty SRC-00 Core barrel are built-in with radial tools.
Generally used to cut low fractured medium hard rock formation
and partially fragmented medium hard rock formations.
HF_Body Length: 1200 mm

M type



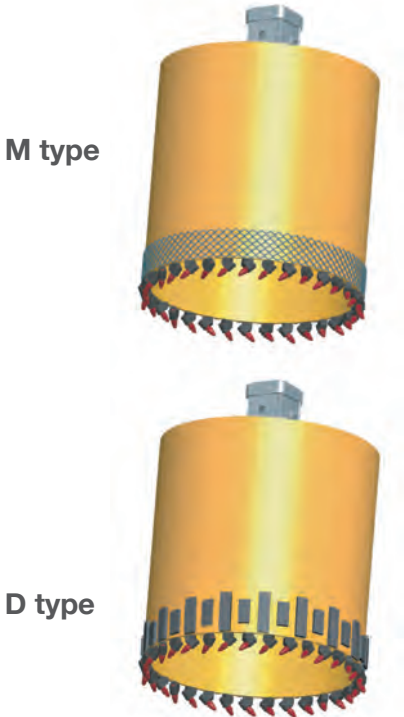
D type



D [mm]	Kelly Box 130x130	Kelly Box 150x150	Kelly Box 200x200	Hf [mm]	Hf [mm]1	Sf [mm]	Sf [mm]1	Teeth	Appr.Weight [kg]
400	[M/D]Q040200W	[M/D]Q040200X	[M/D]Q040200Z	1200	250	15	25	Radial tools	370
500	[M/D]Q050200W	[M/D]Q050200X	[M/D]Q050200Z	1200	250	15	25	Radial tools	395
600	[M/D]Q060200W	[M/D]Q060200X	[M/D]Q060200Z	1200	250	15	25	Radial tools	465
700	[M/D]Q070200W	[M/D]Q070200X	[M/D]Q060200Z	1200	250	15	25	Radial tools	550
800	[M/D]Q080200W	[M/D]Q080200X	[M/D]Q060200Z	1200	250	15	25	Radial tools	640
900	[M/D]Q090200W	[M/D]Q090200X	[M/D]Q060200Z	1200	250	15	25	Radial tools	720
1000	[M/D]Q100200W	[M/D]Q100200X	[M/D]Q060200Z	1200	250	15	25	Radial tools	805
1100	[M/D]Q110200W	[M/D]Q110200X	[M/D]Q060200Z	1200	250	15	25	Radial tools	885
1200	[M/D]Q120200W	[M/D]Q120200X	[M/D]Q060200Z	1200	250	15	25	Radial tools	970
1300	[M/D]Q130200W	[M/D]Q130200X	[M/D]Q060200Z	1200	250	15	25	Radial tools	1050
1400	[M/D]Q140200W	[M/D]Q140200X	[M/D]Q060200Z	1200	250	15	25	Radial tools	1130
1500	[M/D]Q150200W	[M/D]Q150200X	[M/D]Q060200Z	1200	250	15	25	Radial tools	1210
1600	[M/D]Q160200W	[M/D]Q160200X	[M/D]Q060200Z	1200	250	15	25	Radial tools	1290
1700	[M/D]Q170200W	[M/D]Q170200X	[M/D]Q060200Z	1200	250	15	25	Radial tools	1370
1800	[M/D]Q180200W	[M/D]Q180200X	[M/D]Q060200Z	1200	250	15	25	Radial tools	1455
1900	[M/D]Q190200W	[M/D]Q190200X	[M/D]Q060200Z	1200	250	15	25	Radial tools	1535
2000	[M/D]Q200200W	[M/D]Q200200X	[M/D]Q060200Z	1200	250	15	25	Radial tools	1750

SRC - 15
(Heavy Duty - Core Barrel)

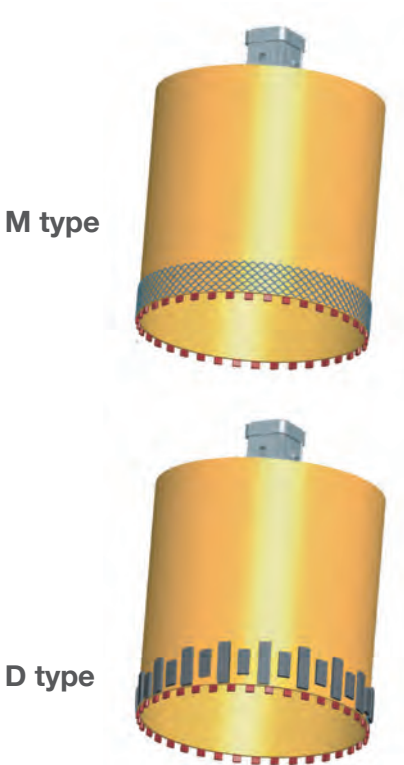
Heavy Duty SRC-00 Core barrel are built-in with radial tools.
Generally used to cut low fractured medium hard rock formation
and partially fragmented medium hard rock formations.
HF_Body Length: 1200 mm



D [mm]	Kelly Box 130x130	Kelly Box 150x150	Kelly Box 200x200	Hf [mm]	Hf [mm]1	Sf [mm]	Sf [mm]1	Teeth	Appr.Weight [kg]
400	[M/D]Q040215W	[M/D]Q040215X	[M/D]Q040215Z	1200	250	15	25	Shank 25	370
500	[M/D]Q050215W	[M/D]Q050215X	[M/D]Q050215Z	1200	250	15	25	Shank 25	395
600	[M/D]Q060215W	[M/D]Q060215X	[M/D]Q060215Z	1200	250	15	25	Shank 25	465
700	[M/D]Q070215W	[M/D]Q070215X	[M/D]Q060215Z	1200	250	15	25	Shank 25	550
800	[M/D]Q080215W	[M/D]Q080215X	[M/D]Q060215Z	1200	250	15	25	Shank 25	640
900	[M/D]Q090215W	[M/D]Q090215X	[M/D]Q060215Z	1200	250	15	25	Shank 25	720
1000	[M/D]Q100215W	[M/D]Q100215X	[M/D]Q060215Z	1200	250	15	25	Shank 25	805
1100	[M/D]Q110215W	[M/D]Q110215X	[M/D]Q060215Z	1200	250	15	25	Shank 25	885
1200	[M/D]Q120215W	[M/D]Q120215X	[M/D]Q060215Z	1200	250	15	25	Shank 25	970
1300	[M/D]Q130215W	[M/D]Q130215X	[M/D]Q060215Z	1200	250	15	25	Shank 25	1050
1400	[M/D]Q140215W	[M/D]Q140215X	[M/D]Q060215Z	1200	250	15	25	Shank 25	1130
1500	[M/D]Q150215W	[M/D]Q150215X	[M/D]Q060215Z	1200	250	15	25	Shank 25	1210
1600	[M/D]Q160215W	[M/D]Q160215X	[M/D]Q060215Z	1200	250	15	25	Shank 25	1290
1700	[M/D]Q170215W	[M/D]Q170215X	[M/D]Q060215Z	1200	250	15	25	Shank 25	1370
1800	[M/D]Q180215W	[M/D]Q180215X	[M/D]Q060215Z	1200	250	15	25	Shank 25	1455
1900	[M/D]Q190215W	[M/D]Q190215X	[M/D]Q060215Z	1200	250	15	25	Shank 25	1535
2000	[M/D]Q200215W	[M/D]Q200215X	[M/D]Q060215Z	1200	250	15	25	Shank 25	1750

SRC - 20
(Heavy Duty - Core Barrel)

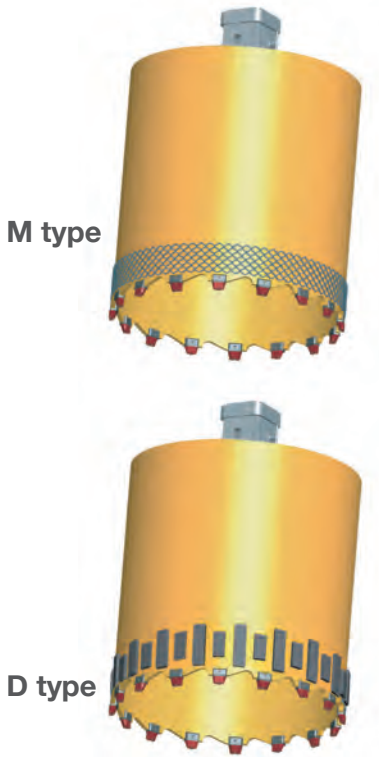
Heavy Duty SRC-20 Core barrel fitted with welding bars tooth.
Generally used to cut low fractured medium and medium hard
rock formation up to 80 MPa.
HF_Body Length: 1200 mm



D [mm]	Kelly Box 130x130	Kelly Box 150x150	Kelly Box 200x200	Hf [mm]	Hf [mm]1	Sf [mm]	Sf [mm]1	Teeth	Appr.Weight [kg]
400	[M/D]Q040220W	[M/D]Q040220X	[M/D]Q040220Z	1200	250	15	25	Welding bars	370
500	[M/D]Q050220W	[M/D]Q050220X	[M/D]Q050220Z	1200	250	15	25	Welding bars	395
600	[M/D]Q060220W	[M/D]Q060220X	[M/D]Q060220Z	1200	250	15	25	Welding bars	465
700	[M/D]Q070220W	[M/D]Q070220X	[M/D]Q060220Z	1200	250	15	25	Welding bars	550
800	[M/D]Q080220W	[M/D]Q080220X	[M/D]Q060220Z	1200	250	15	25	Welding bars	640
900	[M/D]Q090220W	[M/D]Q090220X	[M/D]Q060220Z	1200	250	15	25	Welding bars	720
1000	[M/D]Q100220W	[M/D]Q100220X	[M/D]Q060220Z	1200	250	15	25	Welding bars	805
1100	[M/D]Q110220W	[M/D]Q110220X	[M/D]Q060220Z	1200	250	15	25	Welding bars	885
1200	[M/D]Q120220W	[M/D]Q120220X	[M/D]Q060220Z	1200	250	15	25	Welding bars	970
1300	[M/D]Q130220W	[M/D]Q130220X	[M/D]Q060220Z	1200	250	15	25	Welding bars	1050
1400	[M/D]Q140220W	[M/D]Q140220X	[M/D]Q060220Z	1200	250	15	25	Welding bars	1130
1500	[M/D]Q150220W	[M/D]Q150220X	[M/D]Q060220Z	1200	250	15	25	Welding bars	1210
1600	[M/D]Q160220W	[M/D]Q160220X	[M/D]Q060220Z	1200	250	15	25	Welding bars	1290
1700	[M/D]Q170220W	[M/D]Q170220X	[M/D]Q060220Z	1200	250	15	25	Welding bars	1370
1800	[M/D]Q180220W	[M/D]Q180220X	[M/D]Q060220Z	1200	250	15	25	Welding bars	1455
1900	[M/D]Q190220W	[M/D]Q190220X	[M/D]Q060220Z	1200	250	15	25	Welding bars	1535
2000	[M/D]Q200220W	[M/D]Q200220X	[M/D]Q060220Z	1200	250	15	25	Welding bars	1750

SRC - 30
(Heavy Duty - Core Barrel)

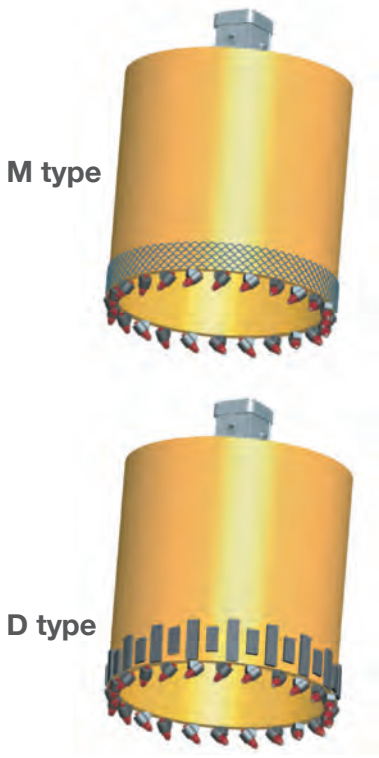
Heavy Duty SRC-30 Core barrel fitted with quick change bars tooth. Generally used to cut low fractured medium hard rock formation.
HF_Body Length: 1200 mm



D [mm]	Kelly Box 130x130	Kelly Box 150x150	Kelly Box 200x200	Hf [mm]	Hf [mm]1	Sf [mm]	Sf [mm]1	Teeth	Appr. Weight [kg]
400	[M/D]Q040230W	[M/D]Q040230X	[M/D]Q040230Z	1200	250	15	25	Quick change bars	580
500	[M/D]Q050230W	[M/D]Q050230X	[M/D]Q050230Z	1200	250	15	25	Quick change bars	605
600	[M/D]Q060230W	[M/D]Q060230X	[M/D]Q060230Z	1200	250	15	25	Quick change bars	665
700	[M/D]Q070230W	[M/D]Q070230X	[M/D]Q060230Z	1200	250	15	25	Quick change bars	750
800	[M/D]Q080230W	[M/D]Q080230X	[M/D]Q060230Z	1200	250	15	25	Quick change bars	840
900	[M/D]Q090230W	[M/D]Q090230X	[M/D]Q060230Z	1200	250	15	25	Quick change bars	920
1000	[M/D]Q100230W	[M/D]Q100230X	[M/D]Q060230Z	1200	250	15	25	Quick change bars	1025
1100	[M/D]Q110230W	[M/D]Q110230X	[M/D]Q060230Z	1200	250	15	25	Quick change bars	1105
1200	[M/D]Q120230W	[M/D]Q120230X	[M/D]Q060230Z	1200	250	15	25	Quick change bars	1190
1300	[M/D]Q130230W	[M/D]Q130230X	[M/D]Q060230Z	1200	250	15	25	Quick change bars	1270
1400	[M/D]Q140230W	[M/D]Q140230X	[M/D]Q060230Z	1200	250	15	25	Quick change bars	1350
1500	[M/D]Q150230W	[M/D]Q150230X	[M/D]Q060230Z	1200	250	15	25	Quick change bars	1440
1600	[M/D]Q160230W	[M/D]Q160230X	[M/D]Q060230Z	1200	250	15	25	Quick change bars	1520
1700	[M/D]Q170230W	[M/D]Q170230X	[M/D]Q060230Z	1200	250	15	25	Quick change bars	1610
1800	[M/D]Q180230W	[M/D]Q180230X	[M/D]Q060230Z	1200	250	15	25	Quick change bars	1675
1900	[M/D]Q190230W	[M/D]Q190230X	[M/D]Q060230Z	1200	250	15	25	Quick change bars	1775
2000	[M/D]Q200230W	[M/D]Q200230X	[M/D]Q060230Z	1200	250	15	25	Quick change bars	1930

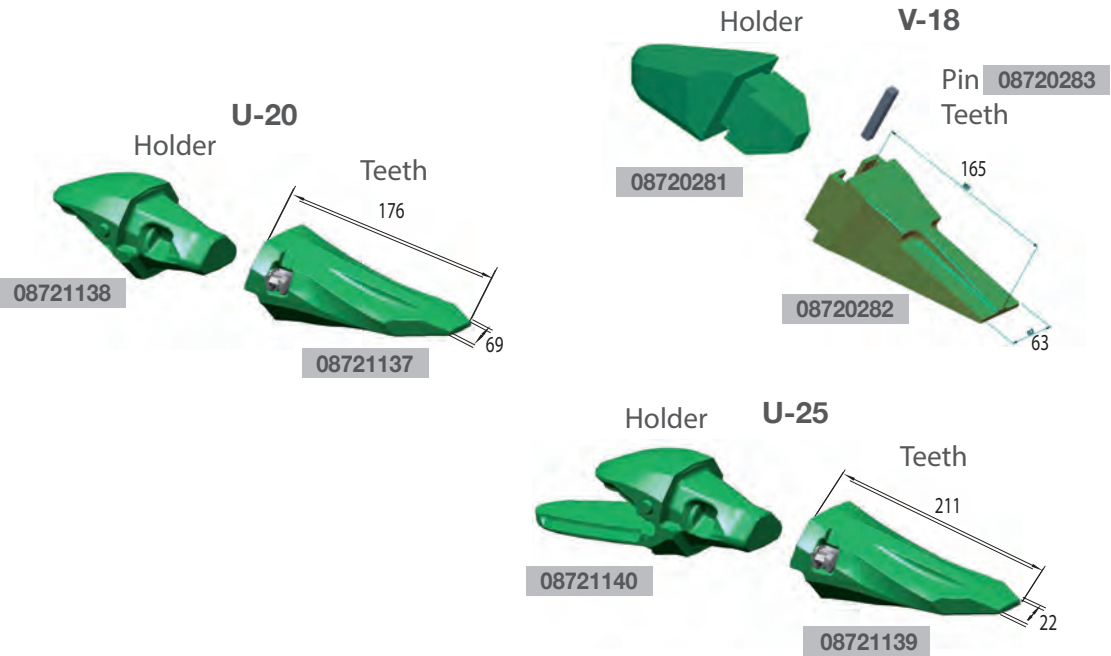
SRC - 40
(Heavy Duty - Core Barrel)

Heavy Duty SRC-40 Core barrel fitted with 30/38 mm round shank chisels tooth. Generally used to cut low fractured medium hard rock to fractured hard rock formation up to 80 MPa.
HF_Body Length: 1200 mm

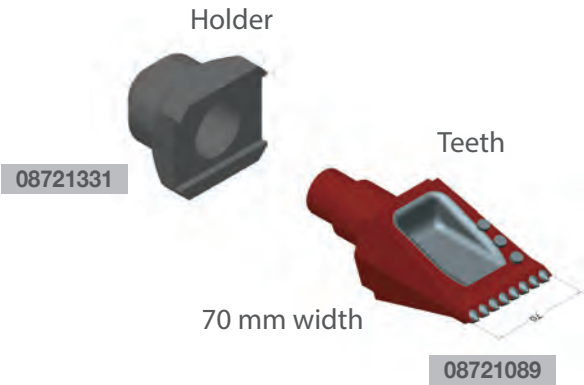


D [mm]	Kelly Box 130x130	Kelly Box 150x150	Kelly Box 200x200	Hf [mm]	Hf [mm]1	Sf [mm]	Sf [mm]1	Teeth	Appr. Weight [kg]
400	[M/D]Q040240WI	[M/D]Q040240XI	[M/D]Q040240ZI	1200	250	15	40	Shank 30/38	580
500	[M/D]Q050240WI	[M/D]Q050240XI	[M/D]Q050240ZI	1200	250	15	40	Shank 30/38	605
600	[M/D]Q060240WI	[M/D]Q060240XI	[M/D]Q060240ZI	1200	250	15	40	Shank 30/38	665
700	[M/D]Q070240WI	[M/D]Q070240XI	[M/D]Q060240ZI	1200	250	15	40	Shank 30/38	750
800	[M/D]Q080240WI	[M/D]Q080240XI	[M/D]Q060240ZI	1200	250	15	40	Shank 30/38	840
900	[M/D]Q090240WI	[M/D]Q090240XI	[M/D]Q060240ZI	1200	250	15	40	Shank 30/38	920
1000	[M/D]Q100240WI	[M/D]Q100240XI	[M/D]Q060240ZI	1200	250	15	40	Shank 30/38	1025
1100	[M/D]Q110240WI	[M/D]Q110240XI	[M/D]Q060240ZI	1200	250	15	40	Shank 30/38	1105
1200	[M/D]Q120240WI	[M/D]Q120240XI	[M/D]Q060240ZI	1200	250	15	40	Shank 30/38	1190
1300	[M/D]Q130240WI	[M/D]Q130240XI	[M/D]Q060240ZI	1200	250	15	40	Shank 30/38	1270
1400	[M/D]Q140240WI	[M/D]Q140240XI	[M/D]Q060240ZI	1200	250	15	40	Shank 30/38	1350
1500	[M/D]Q150240WI	[M/D]Q150240XI	[M/D]Q060240ZI	1200	250	15	40	Shank 30/38	1440
1600	[M/D]Q160240WI	[M/D]Q160240XI	[M/D]Q060240ZI	1200	250	15	40	Shank 30/38	1520
1700	[M/D]Q170240WI	[M/D]Q170240XI	[M/D]Q060240ZI	1200	250	15	40	Shank 30/38	1610
1800	[M/D]Q180240WI	[M/D]Q180240XI	[M/D]Q060240ZI	1200	250	15	40	Shank 30/38	1675
1900	[M/D]Q190240WI	[M/D]Q190240XI	[M/D]Q060240ZI	1200	250	15	40	Shank 30/38	1775
2000	[M/D]Q200240WI	[M/D]Q200240XI	[M/D]Q060240ZI	1200	250	15	40	Shank 30/38	1930

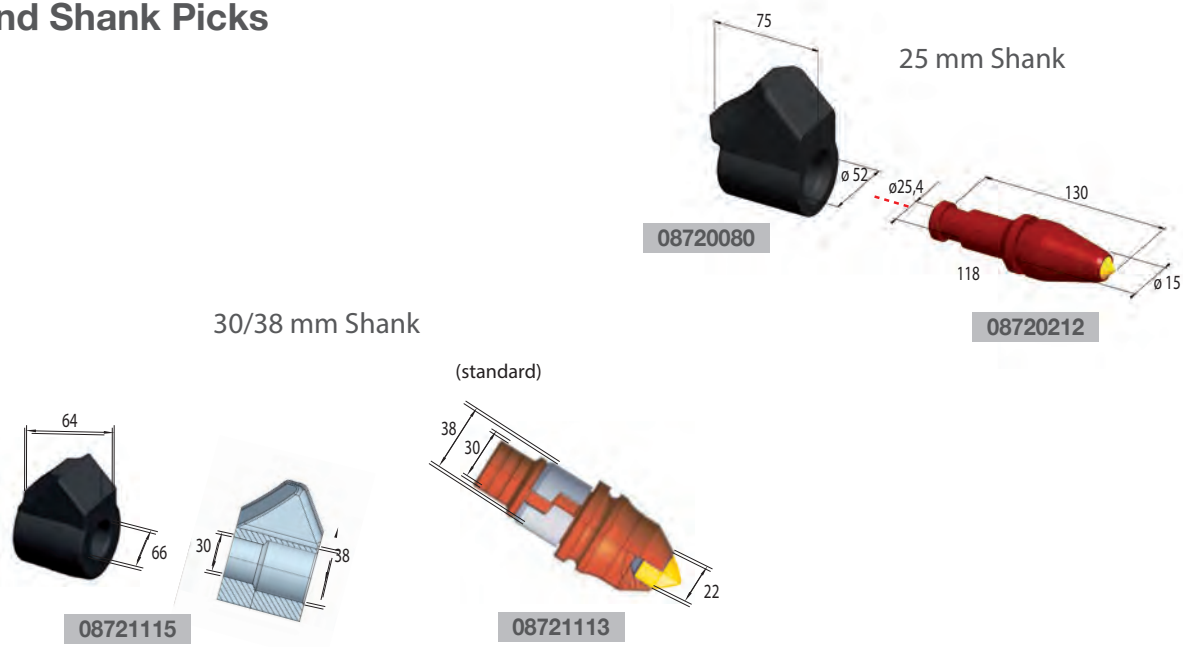
ESCO Teeth



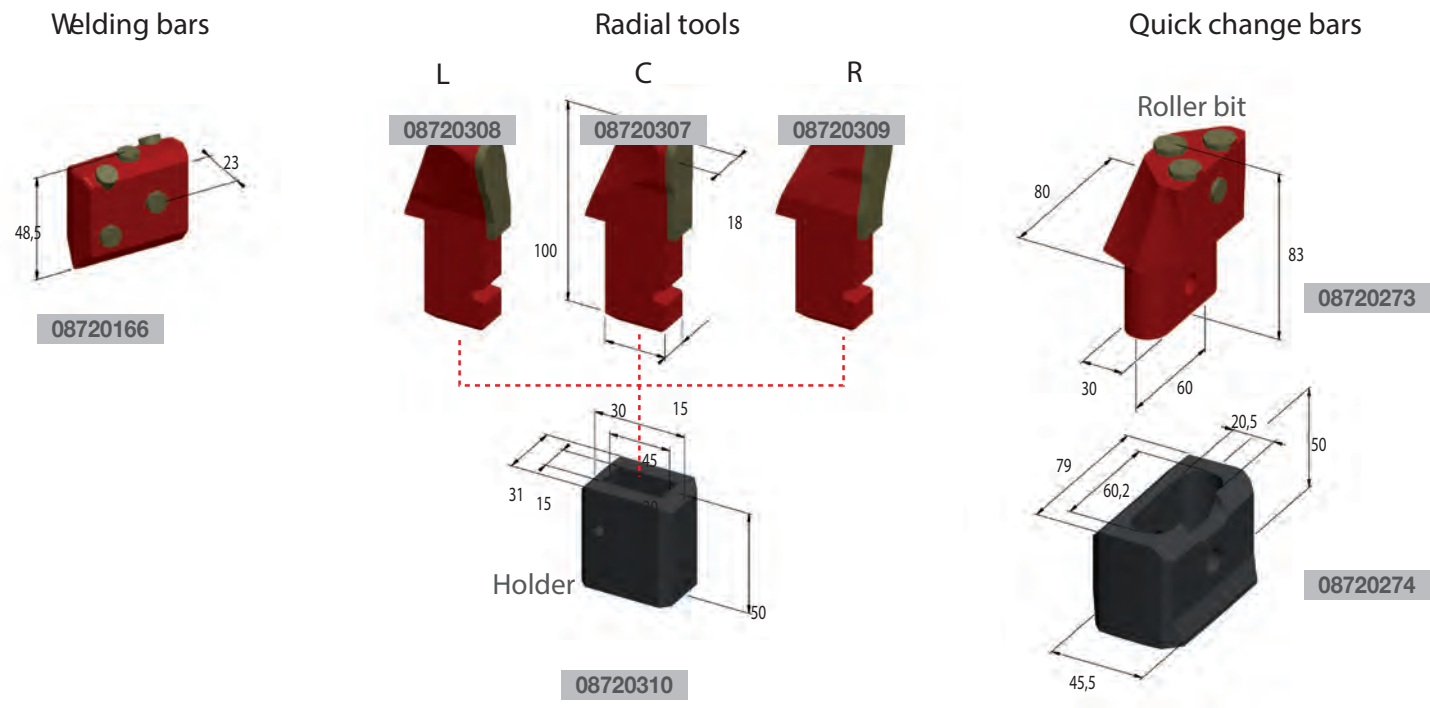
Flat Pick Teeth



Round Shank Picks

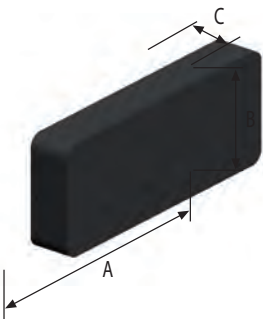


Core Barrel Teeth

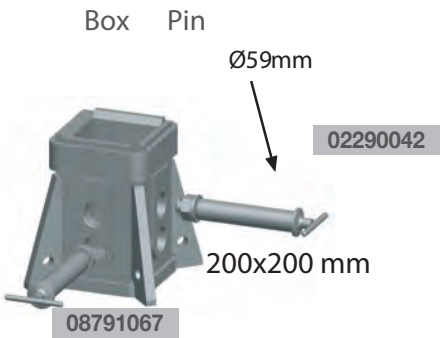
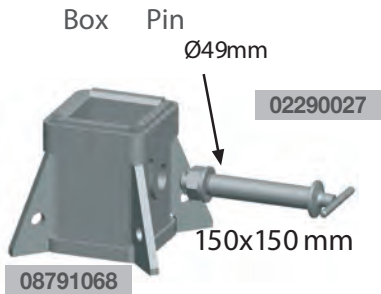
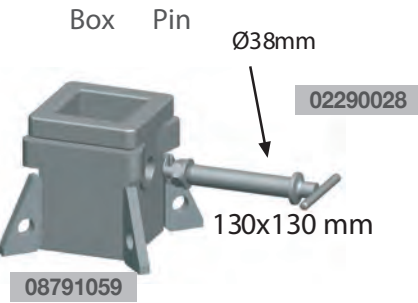


Wear Protection
with additional wearing pretection

Code	A	B	C
02310404	50	30	8
02310403	70	40	8
02310440	150	40	8



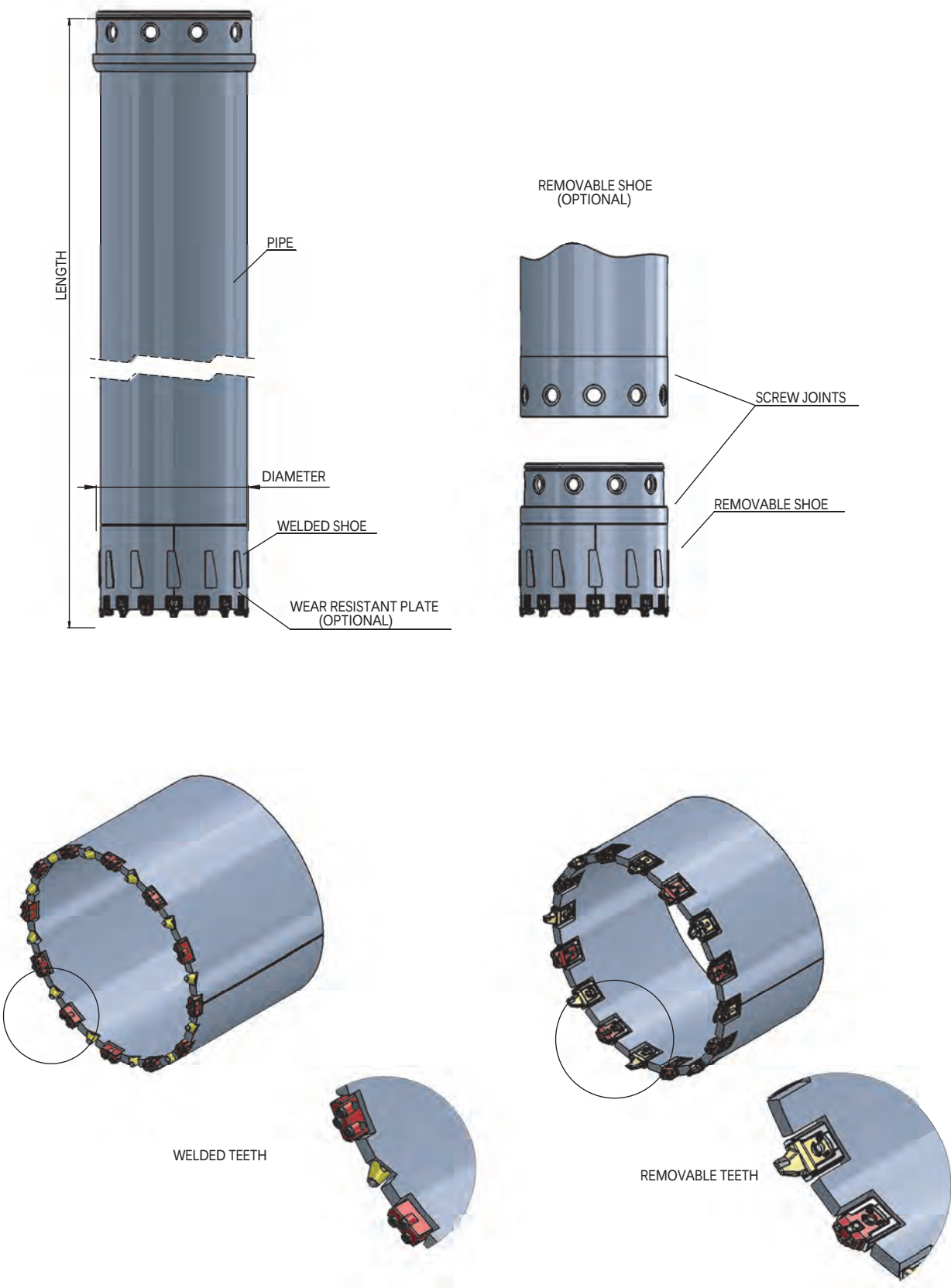
Kelly box & kelly box adapter



Adaptor Code	Fm x M.I.
02290036	130x150
02290034	130x200
02290035	150x130
02290092	150x200
02290052	200x130
02290045	200x150

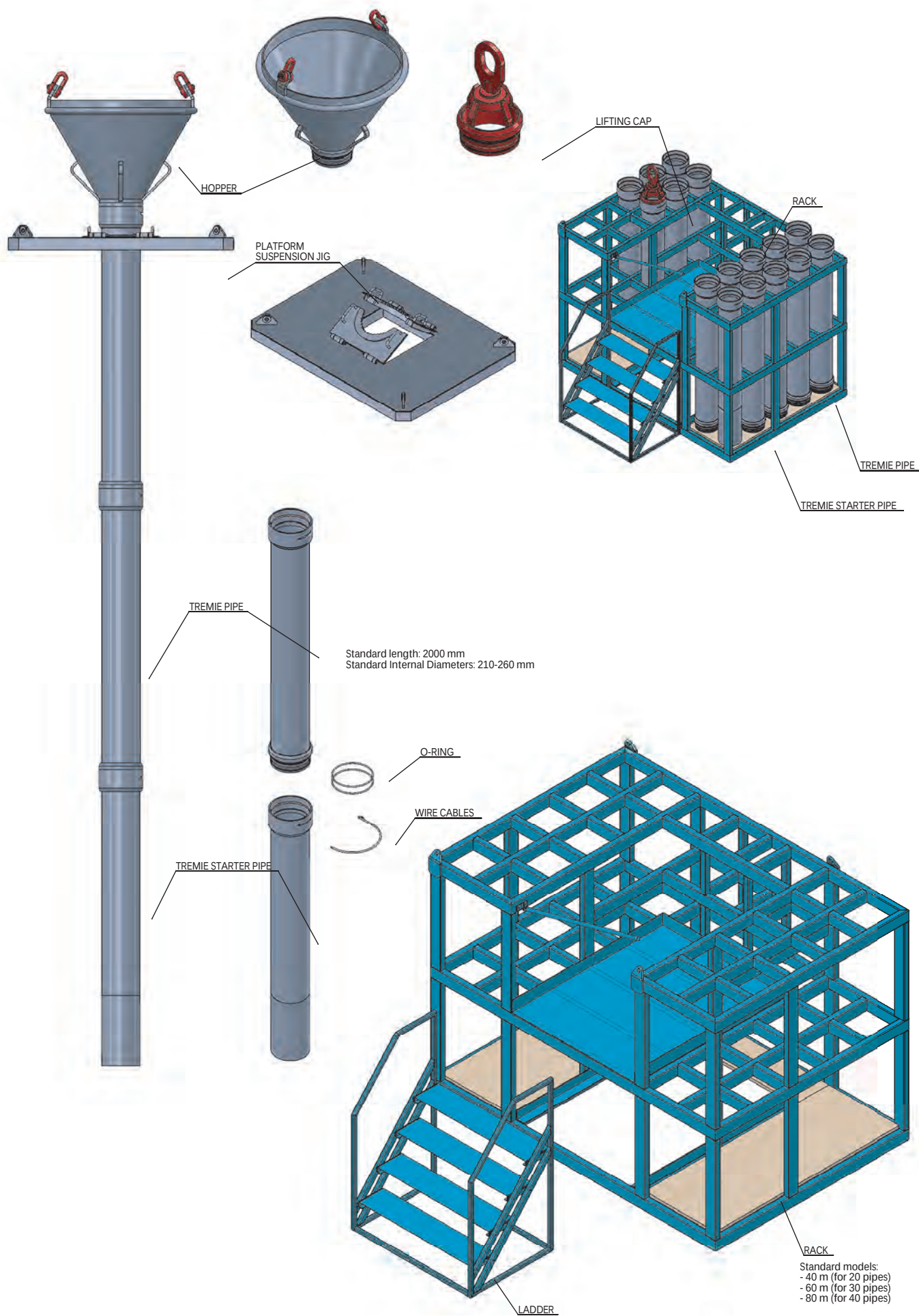
Fm = Fe male size in mm.
MI = Male size in mm.





DIAMETERS, LENGTHS AND TEETH TYPE AS CUSTOMER REQUESTS





CM Mazzoni builds jet equipment as customer requests



