

Secoroc Rock Drilling Tools

DOWN-THE-HOLE DRILL STRINGS

for Atlas Copco mid range
blasthole drill rigs:

T4 BH
DM30/DM45/DML



Atlas Copco mid range blast hole drill rigs

The Drill Master (DM) drill rigs are efficient and well proven, both for rotary drilling and for down-the-hole drilling. The DM series was introduced in 1955 with the DM 3 rig. The range of drill rigs have continuously been improved through the years, and the latest addition to the DM family is the DM-M3 in 1992.

The T4 BH was introduced in 1968. It's a truck mounted type of drill rig. It is a well proven and extremely versatile type of drill rig.

The purpose of this brochure is to assist our customers in selecting the right Rock Drilling Tools for down-the-hole hammer (DTH) drill rigs from Atlas Copco Drilling Solutions, ensuring optimum performance of your equipment.

This brochure covers the complete range of DTH drill strings for blast hole drilling with the following drill rigs:

T4 BH, DM 30, DM 45 and DML.



T4 BH		
Rig data	metric	Imperial
Derrick short feed	9,1 m	29 ft 11"
Derrick long feed	10,6 m	34 ft 11"
Pull back	97 kN	22 000 lbf
Pull down	133 kN	30 000 lbf
Weight on bit	13 600 kg	30 000 lbs
Hole range	140 - 254 mm	5 1/2" - 10"
Max. hole depth, short feed	45 m	147 ft & 6"
Max. hole depth, long feed	54 m	177 ft & 6"
Spindle thread connection	API 4" IF Box	
Spindle sub length (s/s) mm, in	482 mm	19"
Spindle adapter OD upper	146 mm	5 3/4"
Shock sub S/S	482 mm	19"
Shock sub OD upper	146 mm	5 3/4"
Shock sub OD lower	140 mm	5 1/2"
Saver sub length s/s	No room for saver sub	
Looking tabs (part#)	50628007	
Air package option A	423 l/s / 24,1 bar	900/350 cfm/psi
Air package option B	505 l/s / 24,1 bar	1070/350 cfm/psi
Air package option C	590 l/s / 24,1 bar	1250/350 cfm/psi
Drill string		
DTH Hammer size	5" / 6" / 8"	
Design group for pipes	T4	
Pipe configuration	Pin up	
Pipe length, short feed	7 625 mm	25 ft
Pipe length, long feed	9 144 mm	30 ft
Pipe OD	102, 114, 127, 140 mm	4", 4 1/2", 5", 5 1/2"
Starter pipe length, short feed	6 580 mm	21 ft 7"
Starter pipe length, long feed	7 625 mm	25 ft

Atlas Copco mid range blast hole drill rigs

DM30	
metric	Imperial
10,3 m	33 ft 10"
-	-
44 kN	10 000 lbf
133 kN	30 000 lbf
13 600 kg	30 000 lbs
127 - 171 mm	5 - 6 3/4"
45 m	150 ft
-	-
API 4" IF Box	
482 mm	19"
146 mm	5 3/4"
482 mm	19"
146 mm	5 3/4"
140 mm	5 1/2"
No room for saver sub	
50628007	
423 l/s / 24,1bar	900/350
-	-
-	-

4" / 5" / 6"	
T4	
Pin up	
9 144 mm	30 ft
-	-
102, 114, 127 mm	4", 4 1/2", 5"
6 580 mm	21 ft 7"
7 625 mm	25 ft

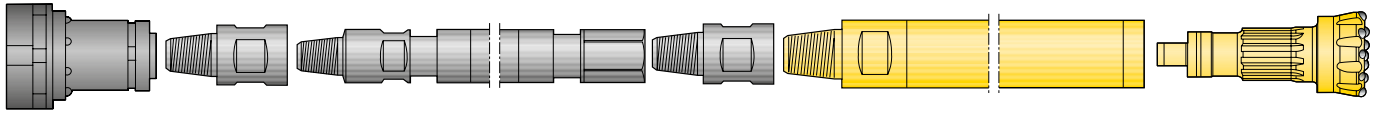
DM45	
metric	Imperial
10,9 m	35 ft 7"
-	-
98 kN	22 000 lbf
200 kN	45 000 lbf
20 400 kg	45 000 lbs
149 - 229 mm	5 7/8 - 9"
53 m	175 ft
-	-
API 4" IF Box	
737 mm	29"
146 mm	5 3/4"
737 mm	29"
146 mm	5 3/4"
140 mm	5 1/2"
No room for saver sub	
50628007	
423 l/s / 24,1bar	900/350
505 l/s / 24,1bar	1070/350
-	-

5" / 6"	
T4	
Pin up	
9 144 mm	30 ft
-	-
114, 127, 140 mm	4 1/2", 5", 5 1/2"
6 580 mm	21 ft 7"
7 625 mm	25 ft

DML	
metric	Imperial
10,9 m	35 ft 7"
12,3 m	40 ft 6"
98 kN	22 000 lbf
267 kN	60 000 lbf
27 200 kg	60 000 lbs
149 - 279 mm	5 7/8" - 11"
53,3 m	175 ft
62,5 m	205 ft
API 4" IF Box	
737 mm	29"
146 mm	5 3/4"
737 mm	29"
146 mm	5 3/4"
140 mm	5 1/2"
No room for saver sub	
50628007	
590 l/s / 24,1bar	1250/350
683 l/s / 24,1bar	1450/350
-	-

5" / 6" / 8"	
T4	
Pin up	
9 144 mm	30 ft
10 675 mm	35 ft
114, 127, 140 mm	4 1/2", 5", 5 1/2"
6 580 mm	21 ft 7"
7 625 mm	25 ft

Atlas Copco T4 BH drill rigs



134 - 178 mm (5 1/4" - 7") hole range

Rotation unit thread: API 4" IF Box

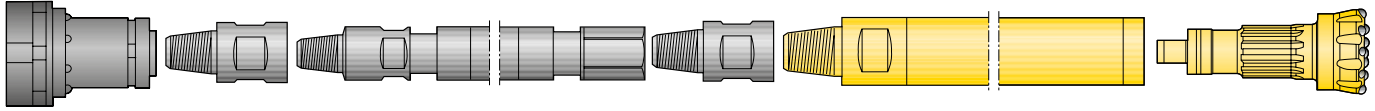
102 mm (4") OD drill string, 134 - 152 mm (5 1/4" - 6") holes

Legend	Spindle adapter	Drill pipe	Starter pipe	Hammer
Description: OD, mm: Recommended hole size: Thread: Length, (s/s): Weight: Prod. No.: Prod. code:	Fixed 146 mm (5 3/4") x 102 mm (4") - API 4" IF Pin x API 2 7/8" Reg Box 482 mm (19") 33 kg (73 lbs) 57085425 312-2146-19-048-01-D00,41	25 ft tower 102 mm (4") - API 2 7/8" Reg BxP 7620 mm (25 ft) 191 kg (421 lbs) 50350156 212-102-0762-B45-D0,40-08	25 ft tower 102 mm (4") - API 2 7/8" Reg BxP - - - On request	COP 54 Gold 120 mm (4 3/4") 134 - 152 mm (5 1/4 - 6") API 2 7/8" Reg Pin 1194 mm (47") 65 kg (143 lbs) 89001333 9705-02-34
	OR Floating 235 mm (9 1/4") x 102 mm (4") - API 4" IF Pin x API 2 7/8" Reg Box 482 mm (19") - N/A ADS product	30 ft tower 102 mm (4") - API 2 7/8" Reg BxP 9144 mm (30 ft) 222 kg (489 lbs) 57155806 212-102-0914-B45-D0,40-08	30 ft tower 102 mm (4") - API 2 7/8" Reg BxP 7620 mm (25 ft) 191 kg (421 lbs) 50350156 212-102-0762-B45-D0,40-08	OR COP 54 Gold QM 126 mm, 4 15/16" 140 - 152 mm (5 1/2 - 6") API 2 7/8" Reg Pin 1194 mm (47") 69 kg (152 lbs) 89001405 9705-02-36

114 mm (4 1/2") OD drill string, 140 - 178 mm (5 1/2" - 7") holes

Spindle adapter	Drill pipe	Starter pipe	Hammer
Fixed 152 mm (5 3/4") x 114 mm (4 1/2") - API 4" IF Pin x API 3 1/2" Reg Box 482 mm (19") 51 kg (112 lbs) 57032872 314-2152-19-048-01-B00,80	25 ft tower 114 mm (4 1/2") - API 3 1/2" Reg BxP 7620 mm (25 ft) 187 kg (412 lbs) 50425859 214-114-0762-B45-D0,40-08	25 ft tower 114 mm (4 1/2") - API 3 1/2" Reg BxP 6580 mm (21 ft 7") 271 kg (597 lbs) 50426238 214-114-0658-A45-L0,55-16	COP 54 Gold QM 126 mm (4 15/16") 140 - 152 mm (5 1/2 - 6") API 3 1/2" Reg Pin 1194 mm (47") 69 kg (152 lbs) 89001255 9705-05-36
	OR Floating 235 mm (9 1/4") x 127 mm (5") - API 4" IF Pin x API 3 1/2" Reg Box 482 mm (19") - N/A ADS product	30 ft tower 114 mm (4 1/2") - API 3 1/2" Reg BxP 9144 mm (30 ft) 222 kg (489 lbs) 57136228 214-114-0914-B45-D0,40-08	30 ft tower 114 mm (4 1/2") - API 3 1/2" Reg BxP 7620 mm (25 ft) 187 kg (412 lbs) 50425859 214-114-0762-B45-D0,40-08
			OR COP 64 Gold QM 146 mm, 5 3/4" 165 - 178 mm (6 1/2 - 7") API 3 1/2" Reg Pin 1258 mm (49 1/2") 109 kg (240 lbs) 89000960 9706-05-36

Atlas Copco T4 BH drill rigs



171 - 254 mm (6 3/4" - 10") hole range

Rotation unit thread: API 4" IF Box

127 mm (5") OD drill string, 171 - 254 mm (6 3/4" - 10") holes

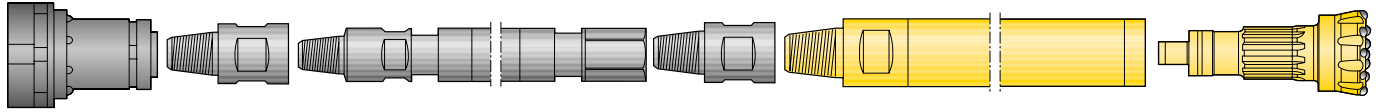
Legend
Description:
OD, mm:
Recommended hole size:
Thread:
Length, (s/s):
Weight:
Prod. No.:
Prod. code:

Spindle adapter	Drill pipe	Starter pipe	Adapter	Hammer
Fixed 146 mm (5-3/4") x 127 mm (5") - API 4" IF Pin x 3 1/2" BECO Box 482 mm (19") 40 kg (81 lbs) 92009058 3B1-2127-19-048-01-B45,80	25 ft tower 127 mm (5") - 3 1/2" BECO Box x Pin 7620 mm (25 ft) 297 kg (655 lbs) 57663015 2B1-127-0762-B45-D0,55-12	25 ft tower 127 mm (5") - 3 1/2" BECO Box x Pin 6580 mm (21.5 ft) 250 kg (551 lbs) 57663023 2B1-127-0655-A45-D0,55-12	- 127 mm (5") - API 3 1/2" Reg Box x 3 1/2" BECO Pin 229 mm (9") 20 kg (44 lbs) 57236895 314-2127-B1-023-01-D00,41	COP 64 Gold QM 146 mm (5 3/4") 171-191 mm (6 3/4-7 1/2") API 3 1/2" Reg Pin 1258 mm (49 1/2") 109 kg (240 lbs) 89000960 9706-05-36
OR Floating 235 mm (9 1/4") x 152 mm (6") - API 4" IF Pin x 3 1/2" BECO Box 482 mm (19") - On request ADS product	30 ft tower 127 mm (5") - 3 1/2" BECO Box x Pin 9144 mm (30 ft) 351 kg (774 lbs) 57439572 2B1-127-0914-B45-D0,55-12	30 ft tower 127 mm (5") - 3 1/2" BECO Box x Pin 7620 mm (25 ft) 297 kg (655 lbs) 57663015 2B1-127-0762-B45-D0,55-12	- 140 mm (5 1/2") - API 4 1/2" Reg Box x 3 1/2" BECO Pin 229 mm (9 ft) 21 kg (46 lbs) 52206984 317-2140-B1-023-01-E00,80	TD 80 STD 181 mm (7 1/8") 200-254 mm (7 7/8 - 10") API 4 1/2" Reg Pin 1466 mm (57 11/16") 216 kg (476 lbs) 52328127 9708-08-60-00

140 mm (5 1/2") OD drill string, 171 - 254 mm (6 3/4" - 10") holes

Spindle adapter	Drill pipe	Starter pipe	Adapter	Hammer
Fixed 146 mm (5 3/4") x 140 mm (5 1/2") - API 4" IF Pin x 3 1/2" BECO Box 482 mm (19") 55 kg (109 lbs) 92004904 3B1-2140-19-048-01-B45,82	25 ft tower 140 mm (5 1/2") - 3 1/2" BECO Box x Pin 7620 mm (25 ft) 333 kg (734 lbs) 52206976 2B1-140-0762-B45-L0,55-12	25 ft tower 140 mm (5 1/2") - 3 1/2" BECO Box x Pin 6340 mm (20.8 ft) 282 kg (622 lbs) 57236184 2B1-140-0633-A45-L0,55-12	- 140 mm (5 1/2") - API 4 1/2" Reg Box x 3 1/2" BECO Pin 229 mm (9") 21 kg (46 lbs) 52209723 314-2140-B1-023-01-C45,80	COP 64 Gold QM 146 mm (5 3/4") 171-191 mm (6 3/4-7 1/2") API 3 1/2" Reg Pin 1258 mm (49 1/2") 109 kg (240 lbs) 89000960 9706-05-36
OR Floating 235 mm (9 1/4") x 152 mm (6") - API 4" IF Pin x 3 1/2" BECO Box 482 mm (19") - On request ADS product	30 ft tower 140 mm (5 1/2") - 3 1/2" BECO Box x Pin 9144 mm (30 ft) 393 kg (866 lbs) 57178865 2B1-140-0914-B45-L0,55-12	30 ft tower 140 mm (5 1/2") - 3 1/2" BECO Box x Pin 7620 mm (25 ft) 333 kg (734 lbs) 52206976 2B1-140-0762-B45-L0,55-12	- 140 mm (5 1/2") - API 4 1/2" Reg Box x 3 1/2" BECO Pin 229 mm (9") 21 kg (46 lbs) 52206984 317-2140-B1-023-01-E00,80	TD 80 STD 181 mm (7 1/8") 200-254 mm (7 7/8 - 10") API 4 1/2" Reg Pin 1466 mm (57 11/16") 216 kg (476 lbs) 52328127 9708-08-60-00

Atlas Copco DM 30 drill rigs



134 - 178 mm (5 1/4" - 7") hole range

Rotation unit thread: API 4" IF Box

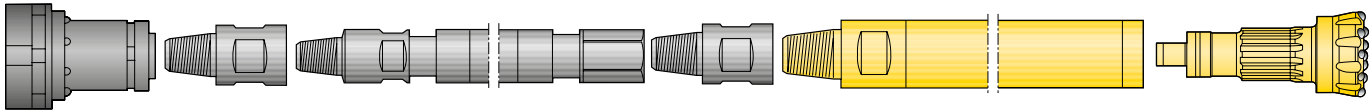
102 mm (4") OD drill string, 134 - 152 mm (5 1/4" - 6") holes

Legend	Spindle adapter	Drill pipe	Starter pipe	Hammer
Description: OD, mm: Recommended hole size: Thread: Length, (s/s): Weight: Prod. No.: Prod. code:	Fixed 146 mm (5 3/4") x 102 mm (4") - API 4" IF Pin x API 2 7/8" Reg Box 482 mm (19") 33 kg (73 lbs) 57085425 312-2146-19-048-01-D00,41 OR Floating 235 mm (9 1/4") x 102 mm (4") - API 4" IF Pin x API 2 7/8" Reg Box 482 mm (19") - On request ADS product	30 ft tower 102 mm (4") - API 2 7/8" Reg BxP 9144 mm (30 ft) 222 kg (489 lbs) 57155806 212-102-0914-B45-D0,40-08	30 ft tower 102 mm (4") - API 2 7/8" Reg BxP 7620 mm (25 ft) 191 kg (421 lbs) 50350156 212-102-0762-B45-D0,40-08	COP 54 Gold 120 mm (4 3/4") 134 - 152 mm (5 1/4 - 6") API 2 7/8" Reg Pin 1194 mm (47") 65 kg (143 lbs) 89001333 9705-02-34 OR COP 54 Gold QM 126 mm (4 15/16") 140 - 152 mm (5 1/2 - 6") API 2 7/8" Reg Pin 1194 mm (47 ft) 69 kg (152 (lbs)) 89001405 9705-02-36

114 mm (4 1/2") OD drill string, 140 - 178 mm (5 1/2" - 7") holes

Spindle adapter	Drill pipe	Starter pipe	Hammer
Fixed 152 mm (5-3/4") x 114 mm (4 1/2") - API 4" IF Pin x API 3 1/2" Reg Box 482 mm (19") 51 kg (112 lbs) 57032872 314-2152-19-048-01-B00,80 OR Floating 235 mm (9 1/4") x 127 mm (5") - API 4" IF Pin x API 3 1/2" Reg Box 482 mm (19") - On request ADS product	30 ft tower 114 mm (4 1/2") - API 3 1/2" Reg BxP 9144 mm (30 ft) 222 kg (489 lbs) 57136228 214-114-0914-B45-D0,40-08	30 ft tower 114 mm (4 1/2") - API 3 1/2" Reg BxP 7620 mm (25 ft) 187 kg (412 lbs) 50425859 214-114-0762-B45-D0,40-08	COP 54 Gold QM 126 mm (4 15/16") 140 - 152 mm (5 1/2 - 6") API 3 1/2" Reg Pin 1194 mm (47") 69 kg (152 lbs) 89001255 9705-05-36 OR COP 64 Gold 142 mm (5 9/16") 156 - 178 mm (6 1/8 - 7") API 3 1/2" Reg Pin 1258 mm (49 1/2") 96 kg (212 lbs) 89000959 9706-05-34 OR COP 64 Gold QM 146 mm (5 3/4") 165 - 178 mm (6 1/2 - 7") API 3 1/2" Reg Pin 1258 mm (49 1/2") 109 kg (240 lbs) 89000960 9706-05-36

Atlas Copco DM 30 drill rigs



165 - 191 mm (6 1/2" - 7 1/2") hole range

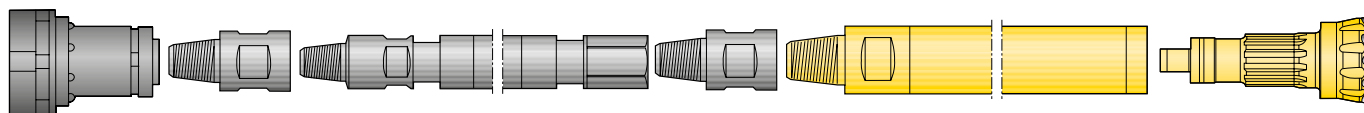
Rotation unit thread: API 4" IF Box

127 mm (5") OD drill string, 165 - 191 mm (6 1/2" - 7 1/2") holes

Legend	Spindle adapter	Drill pipe	Starter pipe	Adapter	Hammer
Description: OD, mm: Recommended hole size: Thread: Length, (s/s): Weight: Prod. No.: Prod. code:	Fixed 146 mm (5 3/4") x 127 mm (5") - API 4" IF Pin x API 3 1/2" BECO Box 482 mm (19") 40 kg (81 lbs) 92009058 3B1-2127-19-048-01-B45,80 OR Floating 235 mm (9 1/4") x 152 mm (6") - API 4" IF Pin x API 3 1/2" BECO Box 482 mm (19") - On request ADS product	30 ft tower 127 mm (5") - 3 1/2" BECO Box x Pin 9144 mm (30 ft) 351 kg (774 lbs) 57439572 2B1-127-0914-B45-D0,55-12	30 ft tower 127 mm (5") - 3 1/2" BECO Box x Pin 7620 mm (25 ft) 297 kg (655 lbs) 57663015 2B1-127-0762-B45-D0,55-12	- 127 mm (5") - API 3 1/2" Reg Box x 3 1/2" BECO Pin 229 mm (9") 20 kg (44 lbs) 57236895 314-2127-B1-023-01-D00,41	COP 64 Gold QM 146 mm 165 - 191 mm (6 1/2" - 7 1/2") API 3 1/2" Reg Pin 1258 mm (49 1/2") 109 kg (240 lbs) 89000960 9706-05-36



Atlas Copco **DM45** drill rigs



140 - 178 mm (5 1/2" - 7") hole range

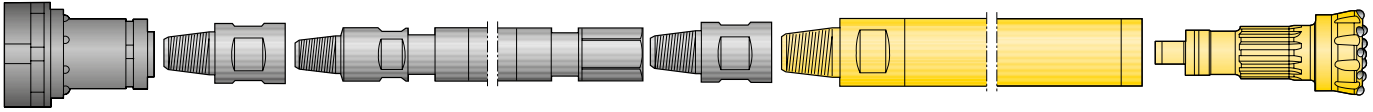
Rotation unit thread: API 4" IF Box

114 mm (4 1/2") OD drill string, 140 - 178 mm (5 1/2" - 7") holes

Legend	Spindle adapter	Drill pipe	Starter pipe	Hammer
Description: OD, mm: Recommended hole size: Thread: Length, (s/s): Weight: Prod. No.: Prod. code:	Fixed 152 mm (5 3/4") / 114 mm (4 1/2") - API 4" IF Pin x API 3 1/2" Reg Box 737 mm (29") 75 kg (165 lbs) 56255250 314-2152-19-074-01-B45,80 OR Floating 146 mm (5 3/4") / 114 mm (4 1/2") - API 4" IF Pin x API 3 1/2" Reg Box 737 mm (29") - 56297716 ADS product	30 ft tower 114 mm (4 1/2") - API 3 1/2" Reg Box x Pin 9144 mm (30 ft) 222 kg (489 lbs) 57136228 214-114-0914-B45-D0,40-08	30 ft tower 114 mm (4 1/2") - API 3 1/2" Reg Box x Pin 7620 mm (25 ft) 187 kg (412 lbs) 50425859 214-114-0762-B45-D0,40-08	COP 54 Gold QM 126 mm (4 15/16") 140 -152 mm (5 1/2 - 6") API 3 1/2" Reg Pin 1194 mm (47") 69 kg (152 lbs) 89001255 9705-05-36 OR COP 64 Gold 142 mm (5 9/16") 156 -178 mm (6 1/8 - 7") API 3 1/2" Reg Pin 1258 mm (49 1/2") 96 kg (212 lbs) 89000959 9706-05-34 OR COP 64 Gold QM 146 mm (5 3/4") 165 - 178 mm (6 1/2 - 7") API 3 1/2" Reg Pin 1258 mm (49 1/2") 109 kg (240 lbs) 89000960 9706-05-36



Atlas Copco DM45 drill rigs



171 - 229 mm (6 3/4" - 9") hole range

Rotation unit thread: API 4" IF Box

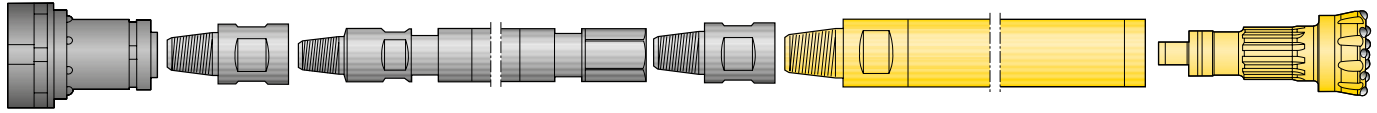
127 mm (5") OD drill string, 171 - 229 mm (6 3/4" - 9") holes

Legend	Spindle adapter	Drill pipe	Starter pipe	Adapter	Hammer
Description: OD, mm: Recommended hole size: Thread: Length, (s/s): Weight: Prod. No.: Prod. code:	Fixed 152 mm (5 3/4") / 127 mm (5") - API 4" IF Pin x 3 1/2" BECO Box 737 mm (29") 79 kg (174 lbs) 56255268 <i>ADS product</i>	30 ft tower 127 mm (5") - 3 1/2 BECO Box x Pin 9144 mm (30 ft) 351 kg (774 lbs) 57439572 <i>2B1-127-0914-B45-D0,55-12</i>	30 ft tower 127 mm (5") - 3 1/2 BECO Box x Pin 7620 mm (25 ft) 297 kg (655 lbs) 57663015 <i>2B1-127-0762-B45-D0,55-12</i>	- 127 mm (5") - API 3 1/2" Reg Box x 3 1/2" BECO Pin 229 mm (9") 20 kg (44 lbs) 57236895 314-2127-B1-023-01-D00,41	COP 64 Gold QM 146 mm (5 3/4") 171-191 mm (6 3/4-7 1/2") API 3 1/2" Reg Pin 1258 mm (49 1/2") 109 kg (240 lbs) 89000960 9706-05-36
	OR Floating 146 mm (5 3/4") / 127 mm (5") - API 4" IF Pin x API 3 1/2" BECO Box 737 mm (29") - 57651473 <i>ADS product</i>	- 140 mm (5 1/2") - API 4 1/2" Reg Box x 3 1/2" BECO Pin 229 mm (9") 21 kg (47 lbs) 52206984 317-2140-B1-023-01-E00,80	TD 80 STD 181 mm (6") 200 - 229 mm (7 7/8-9") API 4 1/2" Reg Pin 1466 mm (57 11/16") 216 kg (476 lbs) 52328127 9708-08-60-00		

140 mm (5 1/2") OD drill string, 171 - 229 mm (6 3/4" - 9") holes

Spindle adapter	Drill pipe	Starter pipe	Adapter	Hammer
Fixed 152 mm (5 3/4")/140 mm (5 1/2") - API 4" IF Pin x 3 1/2" BECO Box 737 mm (29") 83 kg (183 lbs) 56255276 3B1-2152-19-074-01-B45,80	30 ft tower 140 mm (5 1/2") - 3 1/2 BECO Box x Pin 9144 mm (30 ft) 393 kg (867 lbs) 57178865 2B1-140-0914-B45-L0,55-12	30 ft tower 140 mm (5 1/2") - 3 1/2 BECO Box x Pin 7620 mm (25 ft) 333 kg (734 lbs) 52206976 2B1-140-0762-B45-L0,55-12	- 140 mm (5 1/2") - API 3 1/2" Reg Box x 3 1/2" BECO Pin 229 mm (9") 21 kg (46 lbs) 52209723 314-2140-B1-023-01-C45,80	COP 64 Gold QM 146 mm (5 3/4") 171-191 mm (6 3/4-7 1/2") API 3 1/2" Reg Pin 1258 mm (49 1/2") 109 kg (240 lbs) 89000960 9706-05-36
OR Floating 146 mm (5 3/4")/140 mm (5 1/2") - API 4" IF Pin x API 3 1/2" BECO Box 737 mm (29") - 56261217 <i>ADS product</i>	- 140 mm (5 1/2") - API 4 1/2" Reg Box x 3 1/2" BECO Pin 229 mm (9") 21 kg (47 lbs) 52206984 317-2140-B1-023-01-E00,80	TD 80 STD 181 mm 200-229 mm (7 7/8 - 9") API 4 1/2" Reg Pin 1466 mm (57 11/16") 216 kg (476 lbs) 52328127 9708-08-60-00		

Atlas Copco **DML** drill rigs



140 - 178 mm (5 1/2" - 7") hole range

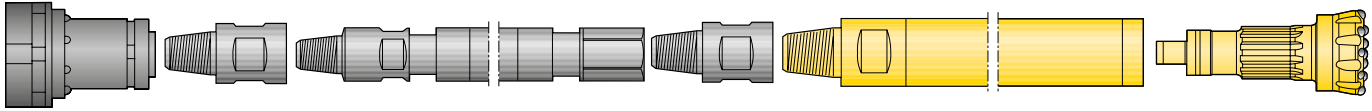
Rotation unit thread: API 4" IF Box

114 mm (4 1/2") OD drill string, 140 - 178 mm (5 1/2" - 7") holes

Legend	Spindle adapter	Drill pipe	Starter pipe	Hammer	
Description: OD, mm: Recommended hole size: Thread: Length, (s/s): Weight: Prod. No.: Prod. code:	Fixed 152 mm (5 3/4") / 114 mm (4 1/2") - API 4" IF Pin x API 3 1/2" Reg Box 737 mm (29") 75 kg (165 lbs) 56255250 314-2152-19-074-01-B45,80 OR Floating 146 mm (5 3/4") - API 4" IF Pin x API 3 1/2" Reg Box 737 mm (29") - 56297716 ADS product	30 ft tower 114 mm (4 1/2") - API 3 1/2" Reg BxP 9144 mm (30 ft) 222 kg (489 lbs) 57136228 214-114-0914-B45-D0,40-08	30 ft tower 114 mm (4 1/2") - API 3 1/2" Reg BxP 7620 mm (25 ft) 187 kg (412 lbs) 50425859 214-114-0762-B45-D0,40-08	COP 54 Gold QM 126 mm (4 15/16") 140 -152 mm (5 1/2 - 6") API 3 1/2" Reg Pin 1194 mm (47") 69 kg (152 lbs) 89001255 9705-05-36 OR COP 64 Gold 142 mm (5 9/16") 156 -178 mm (6 1/8 - 7") API 3 1/2" Reg Pin 1258 mm (49 1/2") 96 kg (212 lbs) 89000959 9706-05-34	
		35 ft tower 114 mm (4 1/2") - API 3 1/2" Reg BxP 10670 mm (35 ft) 345 kg (761 lbs) 57435455 214-114-1066-B45-D0,55-12	35 ft tower 114 mm (4 1/2") - API 3 1/2" Reg BxP 9144 mm (30 ft) 303 kg (668 lbs) 57178824 214-114-0914-B45-D0,55,12	COP 64 Gold QM 146 mm (5 3/4") 165 - 178 mm (6 1/2 - 7") API 3 1/2" Reg Pin 1258 mm (49 1/2") 109 kg (240 lbs) 89000960 9706-05-36	



Atlas Copco DML drill rigs



171 - 279 mm (6 3/4" - 11") hole range

Rotation unit thread: API 4" IF Box

127 mm (5") OD drill string, 171 - 254 mm (6 3/4" - 10") holes

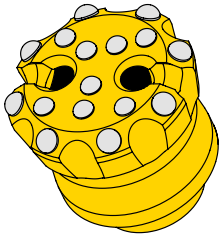
Legend	Spindle adapter	Drill pipe	Starter pipe	Adapter	Hammer
Description: OD, mm: Recommended hole size: Thread: Length, (s/s): Weight: Prod. No.: Prod. code:	Fixed 152 mm (5 3/4") / 127 mm (5") - API 4" IF Pin x API 3 1/2" BECO Box 737 mm (29") 79 kg (174 lbs) 56255268 ADS product	30 ft tower 127 mm (5") - 3 1/2" BECO Box x Pin 9144 mm (30 ft) 351 kg (774 lbs) 57439572 2B1-127-0914-B45-D0,55-12	30 ft tower 127 mm (5") - 3 1/2" BECO Box x Pin 7620 mm (25 ft) 297 kg (655 lbs) 57663015 2B1-127-0762-B45-D0,55-12	- 127 mm (5") API 3 1/2" Reg Box x 3 1/2" BECO Pin 229 mm (9") 20 kg (44 lbs) 57236895 314-2127-B1-023-01-D00,41	COP 64 Gold QM 146 mm (5 3/4") 171 - 191 mm (6 3/4 - 7 1/2") API 3 1/2" Reg Pin 1258 mm (49 1/2") 109 kg (240 lbs) 89000960 9706-05-36
	OR Floating 146 mm (5 3/4") / 127 mm (5") - API 4" IF Pin x API 3 1/2" BECO Box 737 mm (29") - 57651473 ADS product	OR 35 ft tower 127 mm (5") - 3 1/2" BECO Box x Pin 10670 mm (35 ft) 405 kg (893 lbs) 57469033 2B1-127-1066-B45-D0,55-12	OR 35 ft tower 127 mm (5") - 3 1/2" BECO Box x Pin 9144 mm (30 ft) 351 kg (774 lbs) 57439572 2B1-127-0914-B45-D0,55-12	- 140 mm API 4 1/2" Reg Box x 3 1/2" BECO Pin 229 mm (9") 21 kg (46 lbs) 52206984 317-2140-B1-023-01-E00,80	TD 80 STD 181 mm (7 2/16") 200 - 254 mm (7 7/8 - 10") API 4 1/2" Reg Pin 1466 mm (57 11/16") 216 kg (476 lbs) 52328127 9708-08-60-00

140 mm (5 1/2") OD drill string, 171 - 279 mm (6 3/4" - 11") holes

Spindle adapter	Drill pipe	Starter pipe	Adapter	Hammer
Fixed 152 mm (5 3/4") / 140 mm (5 1/2") - API 4" IF Pin x API 3 1/2" BECO Box 737 mm (29") 83 kg (183 lbs) 56255276 3B1-2152-19-074-01-B45,80	30 ft tower 140 mm (5 1/2") - 3 1/2" BECO Box x Pin 9144 mm (30 ft) 393 kg (866 lbs) 57178865 2B1-140-0914-B45-L0,55-12	30 ft tower 140 mm (5 1/2") - 3 1/2" BECO Box x Pin 7620 mm (25 ft) 333 kg (734 lbs) 52206976 2B1-140-0762-B45-L0,55-12	- 140 mm (5 1/2") - API 3 1/2" Reg Box x 3 1/2" BECO Pin 229 mm (9") 21 kg (46 lbs) 52209723 314-2140-B1-023-01-C45,80	COP 64 Gold QM 146 mm (5 3/4") 171 - 191 mm (6 3/4 - 7 1/2") API 3 1/2" Reg Pin 1258 mm (49 1/2") 109 kg (240 lbs) 89000960 9706-05-3
OR Floating 146 mm (5 3/4") / 140 mm (5 1/2") - API 4" IF Pin x API 3 1/2" BECO Box 737 mm (29") - 56261217 ADS product	OR 35 ft tower 140 mm (5 1/2") - 3 1/2" BECO Box x Pin 10670 mm (35 ft) 651 kg (1435 lbs) 57523557 2B1-140-1066-B45-L0,55-12	OR 35 ft tower 140 mm (5 1/2") - 3 1/2" BECO Box x Pin 9144 mm (30 ft) 393 kg (866 lbs) 57178865 2B1-140-0914-B45-L0,55-12	- 140 mm (5 1/2") - API 4 1/2" Reg Box x 3 1/2" BECO Pin 229 mm (9") 21 kg (46 lbs) 52206984 317-2140-B1-023-01-E00,80	TD 80 STD 181 mm (7 2/16") 200 - 279 mm (7 7/8 - 11") API 4 1/2" Reg Pin 1466 mm (57 11/16") 216 kg (476 lbs) 52328127 9708-08-60-00

Secoroc DTH rock drilling tools

Secoroc drill bits – standard assortment



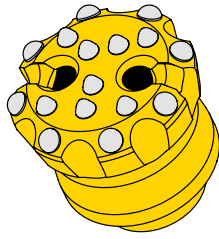
Flat front

Applications:

Hard and abrasive formations, all round.

Typical formations:

Granite, hard limestone, basalt.



SpeedBit

Applications:

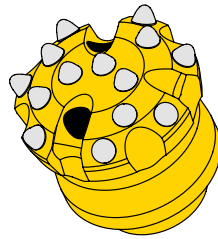
Medium hard to hard and abrasive formations. For higher productivity.

Design feature:

Ballistic buttons in front.

Typical formations:

Granite, hard limestone, basalt.



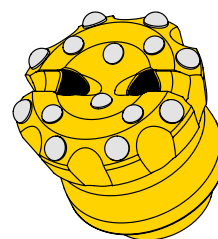
Convex front, ballistic

Applications:

Soft to medium hard rock. Non abrasive formations. High penetration rate.

Typical formations:

Limestone, hard limestone, shale.



Concave front

Applications:

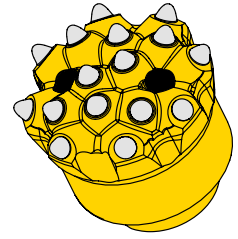
Medium hard to hard formations. Less abrasive, fractured formations. Excellent control over hole deviation.

Design feature:

HD - larger gauge buttons. DGR - double (overlapping) gauge row. Only from 8".

Typical formations:

Granite, hard limestone, basalt.



Rocket bit

Applications:

Soft to medium hard formations. For exceptional productivity. Fractured rock.

Design feature:

Spherical buttons for hard and abrasive formations. Ballistic buttons for soft formations.

Typical formations:

Limestone, hard limestone.



Secoroc DTH rock drilling tools

Drill bits for COP 54 Gold (QL 50 shank)

Diameter		Product No.	Product code	Weight approx	
mm	Inch			kg	lbs
FLAT FRONT					
130	5 1/8	90515102	100-5130-25-1218, 10-20	15,9	35.1
134	5 1/4	90514420	100-5134-25-1218, 10-20	16,2	35.7
140	5 1/2	90514382	100-5140-25-1218, 10-20	16,6	36.6
149	5 7/8	90515091	100-5149-25-1218, 10-20	17,1	37.7
152	6	90514958	100-5152-25-1217, 10-20	17,8	39.3
SPEEDBIT					
134	5 1/4	90514674	100-5134-25-1248, 10-20	16,2	35.7
140	5 1/2	90514386	100-5140-25-1248, 10-20	16,6	36.6
CONCAVE					
130	5 1/8	90514422	100-5130-25-0218, 10-20	15,8	34.8
134	5 1/4	90514424	100-5134-25-0218, 10-20	16,1	35.5
140	5 1/2	90514387	100-5140-25-0218, 10-20	16,4	36.2
146	5 3/4	90514484	100-5146-25-0217, 10-20	17,2	37.9
149	5 7/8	90515089	100-5149-25-0217, 10-20	17,5	38.6
152	6	90514974	100-5152-25-0217, 10-20	17,7	39.0
CONVEX BALLISTIC					
130	5 1/8	90515517	100-5130-25-2339, 10-20	15,7	34.6
140	5 1/2	90515424	100-5140-25-2339, 10-20	16,3	35.9
140	5 1/2	90515428	100-5140-25-2337, 10-20	16,2	35.7
146	5 3/4	90514713	100-5146-25-2338, 10-20	17,1	37.7
EXHAUST TUBE		90515427	9257		
ASSEMBLY TOOL		89000993	9190		

Drill bits for TD 80 (QL 80 shank)

Diameter		Product No.	Product code	Weight approx	
mm	Inch			kg	lbs
FLAT FRONT					
241	9 1/2	90516147	10T-5241-29-121b, 08-20	60,1	132.4
254	10	90516145	10T-5254-29-1213, 08-20	62,5	137.7
CONCAVE					
203	8	90516061	10T-5203-29-021b, 08-20	48,5	106.8
222	8 3/4	90516067	10T-5222-29-021b, 08-20	53,5	117.8
225	8 7/8	90516059	10T-5225-29-021b, 08-20	53,7	118.3
251	9 7/8	90516248	10T-5254-29-021b, 08-20	59,1	130.2
CONVEX-CONCAVE					
200	7 7/8	90515847	10T-5200-29-421b, 08-12	48,4	106.6
203	8	90516064	10T-5203-29-421b, 08-20	48,7	107.3
216	8 1/2	90516070	10T-5216-29-421b, 08-20	50,1	110.4
219	8 5/8	90516072	10T-5219-29-421b, 08-20	50,7	111.7
222	8 3/4	90516002	10T-5222-29-421b, 08-20	54,4	119.8
225	8 7/8	90516003	10T-5225-29-421b, 08-20	55,1	121.4
254	10	90516150	10T-5254-29-421b, 08-20	61,4	135.2
279	11	90516243	10T-5279-29-421b, 08-20	78,3	172.5
305	12	90516231	10T-5305-29-421b, 08-20	83,9	184.8
EXHAUST TUBE		90515792	9114		
ASSEMBLY TOOL		90516137	9142		

Drill bits for COP 64 Gold (QL 60 shank)

Diameter		Product No.	Product code	Weight approx	
mm	Inch			kg	lbs
FLAT FRONT					
152	6	90515694	100-5152-26-1217, 08-20	22,3	49.2
156	6 1/8	90515691	100-5156-26-1217, 08-20	22,5	49.6
159	6 1/4	90515688	100-5159-26-1217, 08-20	22,8	50.3
165	6 1/2	90515589	100-5165-26-1211, 08-20	24,2	53.4
171	6 3/4	90515595	100-5171-26-1211, 08-20	24,8	54.7
178	7	90514349	100-5178-26-1211, 08-20	27,6	60.8
191	7 1/2	90514312	100-5191-26-1211, 08-20	27,3	60.2
203	8	90514314	100-5203-26-1211, 08-20	31,5	69.5
SPEEDBIT					
156	6 1/8	90515705	100-5156-26-1247, 08-20	22,5	49.6
165	6 1/2	90515609	100-5165-26-1241, 08-20	24,4	53.8
171	6 3/4	90515710	100-5171-26-1241, 08-20	24,8	54.7
CONCAVE					
152	6	90515677	100-5152-26-0217, 08-20	22,1	48.7
156	6 1/8	90515684	100-5156-26-0217, 08-20	22,3	49.2
159	6 1/4	90515673	100-5159-26-0217, 08-20	22,6	49.8
165	6 1/2	90515616	100-5165-26-0217, 08-20	24,2	53.4
171	6 3/4	90515621	100-5171-26-0211, 08-20	24,2	53.4
171	6 3/4	90515662	100-5171-26-0212, 08-20	24,8	54.7
178	7	90514624	100-5178-26-0217, 08-20	28,1	61.9
191	7 1/2	90514313	100-5191-26-0217, 08-20	31,3	69
203	8	90515013	100-5203-26-0411, 08-20	35,4	78.1
CONVEX BALLISTIC					
165	6 1/2	90515641	100-5165-26-2337, 08-20	23,8	52.3
171	6 3/4	90515635	100-5171-26-232b, 08-20	24,5	54.0
191	7 1/2	90515035	100-5191-26-2251, 08-20	23,9	52.7
203	8	90514850	100-5203-26-2231, 08-20	35,4	78.1
CONVEX SPHERICAL					
165	6 1/2	90515652	100-5165-26-221b, 08-20	24,3	53.6
171	6 3/4	90515634	100-5171-26-231b, 08-20	24,5	54.0
EXHAUST TUBE		90514253	9283		
ASSEMBLY TOOL		89001189	9170		



Secoroc DTH rock drilling tools

Pipes - Design group T4 (DM30/45/50/L, T4W/BH/DH, RD20)

Diameter		Product No.	Product code	Thread Pin/Box	Component	Wall thickness		Length		Wrench flats			Hex		Weight	
inch	mm					inch	mm	feet	m	inch	mm	Flat location	inch	mm	lbs	kg
4.0	102	50350156	212-102-0762-B45-D0,40-08	2 7/8" API Reg	Add-on	0.368	8,8	25.0	7,62	3.5	89	Pin only	3.5	89	421	191
4.0	102	57155806	212-102-0914-B75-D0,40-08	2 7/8" API Reg	Add-on	0.368	8,8	30.0	9,14	3.5	89	Pin only	3.5	89	488	222
4.0	102	57156317	212-102-0914-B75-D0,55-19	2 7/8" API Reg	Add-on	0.750	19	30.0	9,14	3.5	89	Pin only	3.5	89	750	341
4.0	102	57155822	212-102-0810-A45-D0,55-19	2 7/8" API Reg	Starter pipe	0.750	19	26.6	8,1	3.5	89	Both ends	No	No	519	236
4.5	114	57435455	214-114-1066-B45-D0,55-12	3 1/2" API Reg	Add-on	0.500	12,3	35.0	10,66	3.5	89	Pin only	4	102	759	345
4.5	114	57178824	214-114-0914-B75-D0,55-12	3 1/2" API Reg	Add-on	0.500	12,3	30.0	9,14	3.5	89	Pin only	4	102	667	303
4.5	114	57136228	214-114-0914-B75-D0,40-08	3 1/2" API Reg	Add-on	0.368	8,8	30.0	9,14	3.5	89	Pin only	4	102	488	222
4.5	114	50425859	214-114-0762-B45-D0,40-08	3 1/2" API Reg	Add-on	0.368	8,8	25.0	7,62	3.5	89	Pin only	4	102	411	187
4.5	114	57136343	214-114-0853-A45-L0,55-16	3 1/2" API Reg	Starter pipe	0.625	16	28.0	8,53	3.5	89	Both ends	No	No	825	375
4.5	114	50426238	214-114-0658-A45-L0,55-16	3 1/2" API Reg	Starter pipe	0.625	16	21.6	6,58	3.5	89	Both ends	No	No	596	271
4.5	114	52256369	213-114-0914-B75-D0,40-08	2 7/8" API IF	Add-on	0.368	8,8	30.0	9,14	3.5	89	Pin only	4	102	491	223
4.5	114	52202033	213-114-0762-B45-D0,40-08	2 7/8" API IF	Add-on	0.368	8,8	25.0	7,62	3.5	89	Pin only	4	102	411	187
4.5	114	57815169	210-114-0910-B45-L0,40-08	BECO 3"	Add-on	0.368	8,8	30.0	9,14	3.5	89	Pin only	4	102	488	222
5.0	127	57155798	214-127-0914-B75-D0,55-12	3 1/2" API Reg	Add-on	0.500	12,3	30.0	9,14	3.5	89	Pin only	4	102	755	343
5.0	127	57155814	214-127-0914-B75-D0,40-08	3 1/2" API Reg	Add-on	0.368	8,8	30.0	9,14	3.5	89	Pin only	4	102	836	380
5.0	127	50348358	214-127-0762-B45-D0,40-08	3 1/2" API Reg	Add-on	0.368	8,8	25.0	7,62	3.5	89	Pin only	4	102	561	255
5.0	127	50348333	214-127-0658-A45-L0,40-08	3 1/2" API Reg	Starter pipe	0.368	8,8	21.6	6,58	3.5	89	Both ends	No	No	484	220
5.0	127	57439572	2B1-127-0914-B75-D0,55-12	BECO 3 1/2"	Add-on	0.500	12,3	30.0	9,14	3.5	89	Pin only	4.62	117	772	351
5.0	127	57439721	2B1-127-0810-A45-D0,55-12	BECO 3 1/2"	Starter pipe	0.500	12,3	26.6	8,1	3.5	89	Both ends	No	No	572	260
5.0	127	57663015	2B1-127-0762-B45-D0,55-12	BECO 3 1/2"	Add-on	0.500	12,3	25.0	7,62	3.5	89	Pin only	4	102	654	297
5.0	127	57663023	2B1-127-0655-A45-D0,55-12	BECO 3 1/2"	Starter pipe	0.500	12,3	21.5	6,55	3.5	89	Both ends	No	No	551	250
5.0	127	57439572	2B1-127-0914-B45-L0,A-132	BECO 3 1/2"	Add-on	0.500	12,3	30.0	9,14	3.5	89	Pin only	4	102	774	351
5.0	127	57469033	2B1-127-1066-B45-D0,55-12	BECO 3 1/2"	Add-on	0.500	12,3	35.0	10,66	3.5	89	Pin only	4	102	893	405
5.5	140	57290322	2B1-140-0914-B45-L0,55-19	BECO 3 1/2"	Add-on	0.750	19	30.0	9,14	4	114	Both ends	5	127	1239	563
5.5	140	57178865	2B1-140-0914-B45-L0,55-12	BECO 3 1/2"	Add-on	0.500	12,3	30.0	9,14	4	114	Both ends	5	127	865	393
5.5	140	57178766	2B1-140-0786-A45-L0,55-12	BECO 3 1/2"	Starter pipe	0.500	12,3	25.8	7,86	4	114	Both ends	No	No	684	311
5.5	140	50426246	221-140-0630-A45-L0,55-12	4" API FH	Starter pipe	0.500	12,3	20.8	6,3	4	114	Both ends	No	No	620	282
5.5	140	52206976	2B1-140-0762-B45-L0,55-12	BECO 3 1/2"	Add-on	0.500	12,3	25.0	7,62	4	114	Both ends	5	127	734	333
5.5	140	57236184	2B1-140-0633-A45-L0,55-12	BECO 3 1/2"	Starter pipe	0.500	12,3	20.8	6,33	4	114	Both ends	No	No	621	282
5.5	140	57523557	2B1-140-1066-B45-L0,55-19	BECO 3 1/2"	Add-on	0.750	19	35.0	10,66	4	114	Both ends	5	127	1435	651

Lifting bails

Thread connection	Product No.	Product code	Class kg (lbs)
3 1/2" API Reg Box	50524628	3LB-FL-14-3600	3600 (7900)
4 1/2" API Reg Box	50524644	3LB-FL-17-3600	3600 (7900)
2 7/8" API Reg Box	On request	3LB-FL-12-3600	3600 (7900)
Beco 3 1/2" Box	On request	3LB-FL-B1-3600	3600 (7900)

More lifting bails available on request.

Secoroc DTH rock drilling tools

Adapters

Diameter		Product No.	Product code	Length S-S		Threads		Flats across		Weight	
Inch	mm			Inch	mm	Box	Pin	Inch	mm	Lbs	Kg
4 - 5.75	102-146	57085425	312-2146-19-048-01-D00,41	19	482	API 2 7/8" Reg.	API 4" IF	3,5	88,9	73	33,0
4.5 - 6	114-152	57032872	314-2152-19-048-01-B00,80	19	482	API 3 1/2" Reg.	API 4" IF	3,5	88,9	112	51,0
4.5 - 6	114 - 152	56255250	314-2152-19-074-01-B45,80	29	737	API 3 1/2" Reg.	API 4" IF	3,5	88,9	165	75,0
5 - 5.75	127 - 146	92009058	3B1-2127-19-048-01-B45,80	19	482	BECO 3 1/2"	API 4" IF	3,5	88,9	81	40,3
5	127	57236895	314-2127-B1-023-01-D00,41	9	229	API 3 1/2" Reg.	BECO 3 1/2"	3,5	88,9	44	20,0
5 - 6	127 - 152	56255268	ADS product	29	737	BECO 3 1/2"	API 4" IF	3,5	88,9	174	79,0
5.5 - 5.75	140 - 146	92004904	3B1-2140-19-048-01-B45,82	19	482	BECO 3 1/2"	API 4" IF	4,5	114,3	109	54,5
5.5	140	52206984	317-2140-B1-023-01-E00,80	9	229	API 4 1/2" Reg.	BECO 3 1/2"	4,5	114,3	46	21,0
5.5	140	52209723	314-2140-B1-023-01-C45,80	9	229	API 3 1/2" Reg.	BECO 3 1/2"	4,5	114,3	46	21,0
55 - 6	140 - 152	56255276	3B1-2152-19-074-01-B45,80	29	737	BECO 3 1/2"	API 4" IF	4,5	114,3	183	83,0

This brochure shows examples of solutions aiming at DTH drilling only. Don't hesitate to contact your Atlas Copco representative to discuss alternative solutions and different applications.

Please feel free to pose any question regarding our products!



Sustainable Productivity

We stand by our responsibilities towards our customers,
towards the environment and the people around us.
We make performance stand the test of time.
This is what we call – Sustainable Productivity.

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