



Secoroc Rock Drilling Tools

DOWN-THE-HOLE DRILL STRINGS

for Atlas Copco surface crawlers
and underground blasthole drill rigs:

SmartROC D-series,
FlexiROC D-series,
ROC F6/L6/L8, Simba ITH-series



Atlas Copco drill rigs

The ROC series of surface crawlers are well proven, top of the line drill rigs for surface applications such as quarry, mining and pre-split operations.

The ROC series are available in a wide range of machines for top hammer, COPROD and down-the-hole drilling, covering a hole range from 51–203mm.

SIMBA drill rigs are well known for their reliability and performance in underground production drilling.

The SIMBA series of drill rigs are available for both top hammer drilling, as well as down-the-hole drilling.

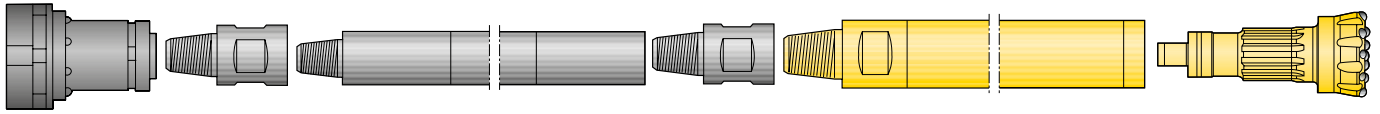
This brochure is developed in order to assist with selecting the right Secoroc rock drilling tools to down-the-hole (DTH) drill rigs from Atlas Copco Surface Drilling Equipment (SDE) and Atlas Copco Underground Rock Excavation (URE), ensuring optimum performance of your equipment.

The brochure covers the complete range of down-the-hole drill strings for blasthole drilling with following drill rigs:

- SmartROC-/ FlexiROC-/ ROC-series down-the-hole drill rigs
- SIMBA ITH-series underground production down-the-hole drill rigs



Atlas Copco ROC F6 drill rigs



90 - 130 mm hole range

Rotation unit thread connection: API 2 3/8" Reg Box

76 mm (3") OD drill string, 90 - 105 mm (3 9/16 - 4 1/8") holes

Saver sub	Drill pipe	Adapter	Hammer
For Fixed or Floating - Ø 76 mm (3") API 2 3/8" Reg Box x Pin 305 mm (12") 8,9 kg (19,6 lbs) 89000701 310-2076-10-030-01-C44,40	4 m pipes - Ø 76 mm (3") API 2 3/8" Reg Box x Pin 4000 mm (13,1 ft) 48 kg (106 lbs) 89009398 210-076-0400-B44-A0,40-06	Not needed	TD 35.2 90 - 105 mm (3 9/16 - 4 1/8") Ø 79 mm (3 1/8") API 2 3/8" Reg Pin 799 mm (31 7/16") 30 kg (66,1 lbs) 89001572 9703-03-68-00

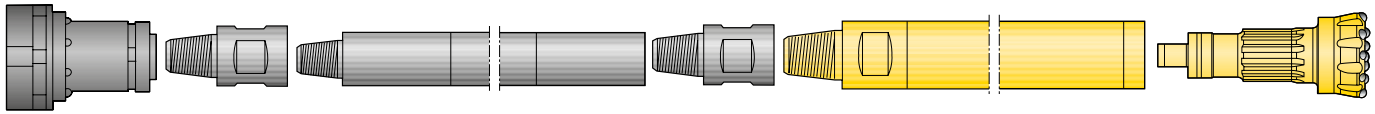
Legend
Description: Recommended hole size: OD, mm: Thread: Length, (s/s): Weight: Prod. No.: Prod. code:

89 mm (3 1/2 ") OD drill string, 110 - 130 mm (4 5/16 - 5 1/8") holes

Saver sub	Drill pipe	Adapter	Hammer
For Fixed or Floating - Ø 89 mm (3 1/2") API 2 3/8" Reg Box x PIN 305 mm (12") 13 kg (28,6 lbs) 89000644 310-2090-10-030-01-C44,41	4 m pipes - Ø 89 mm (3 1/2") API 2 3/8" Reg Box x Pin 4000 mm (13,1 ft) 60 kg (132,3 lbs) 89000445 210-089-0400-B44-A0,40-06	Not needed	COP 44 Gold 110 - 130 mm (4 5/16 - 5 1/8") Ø 100 mm (3 15/16") API 2 3/8" Reg Pin 1038 mm 40,5 kg (89,3 lbs) 89001469 9704-03-34



Atlas Copco ROC L6mk1 drill rigs



90 - 152 mm hole range 4 and 5 meter pipes

Rotation unit thread connection: API 2 3/8" Reg Box

76 mm (3") OD drill string, 90 - 105 mm (3 9/16 - 4 1/8") holes

Saver sub	Drill pipe	Adapter	Hammer
For Fixed or Floating - Ø 76 mm (3") API 2 3/8" Reg Box x Pin 305 mm (12") 8,9 kg (19,6 lbs) 89000701 310-2076-10-030-01-C44,40	4 m pipes - Ø 76 mm (3") API 2 3/8" Reg Box x Pin 4000 mm (13,1 ft) 48 kg (106 lbs) 89009398 210-076-0400-B44-A0,40-06	Not needed	TD 35.2 90 - 105 mm (3 9/16 - 4 1/8") Ø 79 mm (3 1/8") API 2 3/8" Reg Pin 799 mm (31 7/16") 30 kg (66,1 lbs) 89001572 9703-03-68-00
	5 m pipes - Ø 76 mm (3") API 2 3/8" Reg Box x Pin 5000 mm (16,4 ft) 58 kg (127,9 lbs) 89000444 210-076-0500-B44-A0,40-06		

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

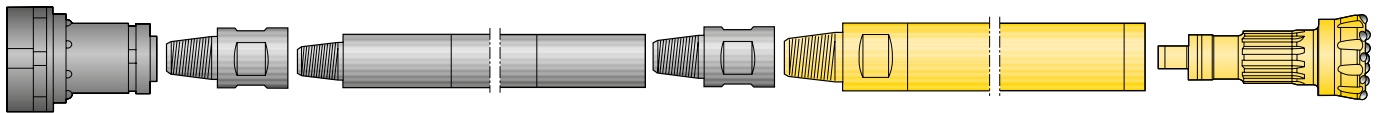
89 mm (3 1/2") OD drill string, 110 - 125 mm (4 5/16 - 4 15/16") holes

Saver sub	Drill pipe	Adapter	Hammer
For Fixed or Floating - Ø 89 mm (3 1/2") API 2 3/8" Reg Box x Pin 305 mm (12") 13 kg (28,6 lbs) 89000644 310-2090-10-030-01-C44,41	4 m pipes - Ø 89 mm (3 1/2") API 2 3/8" Reg Box x Pin 4000 mm (13,1 ft) 60 kg (132,3 lbs) 89000445 210-089-0400-B44-A0,40-06	Not needed	COP 44 Gold 110 - 125 mm (4 5/16 - 4 15/16") Ø 100 mm (3 15/16") API 2 3/8" Reg Pin 1038 mm (40 7/8") 40,5 kg (89,3 lbs) 89001469 9704-03-34
	5 m pipes - Ø 89 mm (3 1/2") API 2 3/8" Reg Box x Pin 5000 mm (16,4 ft) 75 kg (165,3 lbs) 89000442 210-089-0500-B44-A0,40-06		

102 mm (4") OD drill string, 127 - 152 mm (5 - 6") holes

Saver sub	Drill pipe	Adapter	Hammer
For Fixed or Floating - Ø 102 mm (4") API 2 7/8" Reg Box x 2 3/8" Pin 305 mm (12") 16 kg (35,3 lbs) 8900655 312-2102-10-030-01-C44,41	4 m pipes - Ø 102 mm (4") API 2 7/8" Reg Box x Pin 4000 mm (13,1 ft) 69 kg (152 lbs) 89000648 212-102-0400-B44-A0,40-06	Not needed	COP 54 Gold "Slim" 127 - 134 mm (5" - 5 1/4") Ø 115 mm (4 1/2") API 2 7/8" Reg Pin 1194 mm (47") 57 kg (125,7 lbs) 89001283 9705-02-28 OR COP 54 Gold 134 - 140 mm (5 1/4" - 5 1/2") Ø 120 mm (4 3/4") API 2 7/8" Reg Pin 1194 mm (47") 66 kg (145,5 lbs) 89001333 9705-02-34 OR COP 54 Gold QM 140 - 152 mm (5 1/2" - 6") Ø 126 mm (4 15/16") API 2 7/8" Reg Pin 1194 mm (47") 76 kg (167,6 lbs) 89001405 9705-02-36
	5 m pipes - Ø 102 mm (4") API 2 7/8" Reg Box x Pin 5000 mm (16,4 ft) 89,6 kg (197,5 lbs) 89000655 312-2102-10-030-01-D44,41		

Atlas Copco ROC L6²⁵/ L6³⁰, FlexiROC D50 / D55 drill rigs



90 - 152 mm hole range 4 and 5 meter pipes

Rotation unit thread connection: API 2 3/8" Reg Box

76 mm (3") OD drill string, 90 - 105 mm (3 9/16 - 4 1/8") holes

Saver sub	Drill pipe	Adapter	Hammer
Fixed - Ø 76 mm (3") API 2 3/8" Reg Box x Pin 580 mm (22,83") 17,6 kg (38,8 lbs) 89001315 310-2076-10-058-01-D43,41 OR Floating - Ø 76 mm (3") API 2 3/8" Reg Box x Pin 220 mm (8,66") 6,7 kg (14,8 lbs) 89001326 310-2076-10-022-01-C43,41	4 m pipes - Ø 76 mm (3") API 2 3/8" Reg Box x Pin 4000 mm (13,1 ft) 89009398 210-076-0400-B44-A0,40-06 5 m pipes - Ø 76 mm (3") API 2 3/8" Reg Box x Pin L S/S: 5000 mm 60 kg (127,9 lbs) 89000444 210-076-0500-B44-A0,40-06	Not needed	TD 35.2 90 - 105 mm (3 9/16 - 4 1/8") Ø 79 mm (3 1/8") API 2 3/8" Reg Pin 799 mm (31 7/16") 30 kg (66,1 lbs) 89001572 9703-03-68-00

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

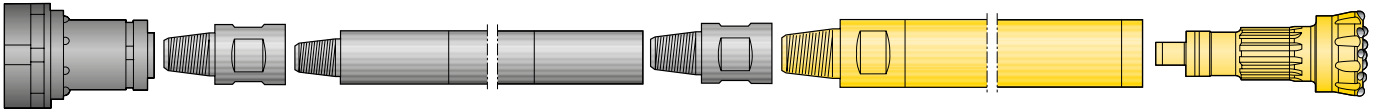
89 mm (3 1/2") OD drill string, 110 - 125 mm (4 5/16 - 4 15/16") holes

Saver sub	Drill pipe	Adapter	Hammer
Fixed - Ø 89 mm (3 1/2") API 2 3/8" Reg Box x Pin 580 mm (22,83") 25,1 kg (55,3 lbs) 89001322 310-2089-10-058-01-C43,41 OR Floating - Ø 89 mm (3 1/2") API 2 3/8" Reg Box x Pin 220 mm (8,66") 9,3 kg (20,5 lbs) 89001327 310-2089-10-022-01-C43,41	4 m pipes - Ø 89 mm (3 1/2") API 2 3/8" Reg Box x Pin 4000 mm (13,1 ft) 60 kg (132,3 lbs) 89000445 210-089-0400-B44-A0,40-06 5 m pipes - Ø 89 mm (3 1/2") API 2 3/8" Reg Box x Pin 5000 mm (16,4 ft) 75 kg (165,3 lbs) 89000442 210-089-0500-B44-A0,40-06	Not needed	COP 44 Gold 110 - 125mm (4 5/16 - 4 15/16") Ø 100 mm (3 15/16") API 2 3/8" Reg Pin 1038 mm 40,5 kg (89,3 lbs) 89001469 9704-03-34

102 mm (4") OD drill string, 127 - 152 mm (5 - 6") holes

Saver sub	Drill pipe	Adapter	Hammer
For Fixed - Ø 102 mm (4") API 2 7/8" Reg Box x 2 3/8" Pin 580 mm (22,83") 32,9 kg (72,5 lbs) 89001323 312-2102-10-058-01-C43,41 OR For Floating - Ø 102 mm (4") API 2 7/8" Reg Box x 2 3/8" Pin 220 mm (8,66") 11,8 kg (26 lbs) 89001328 312-2102-10-022-01-C43,41	4 m pipes - Ø 102 mm (4") API 2 7/8" Reg Box x Pin 4000 mm (13,1 ft) 69 kg (152 lbs) 89000648 212-102-0400-B44-A0,40-06 5 m pipes - Ø 102 mm (4") API 2 7/8" Reg Box x Pin 5000 mm (16,4 ft) 89,6 kg (197,5 lbs) 89000681 212-102-0500-B44-A0,40-06	Not needed	COP 54 Gold "Slim" 127 - 134 mm (5" - 5 1/4") Ø 115 mm (4 1/2") API 2 7/8" Reg Pin 1194 mm (47") 57 kg (125,7 lbs) 89001283 9705-02-28 OR COP 54 Gold 134 - 140 mm (5 1/4" - 5 1/2") Ø 120 mm (4 3/4") API 2 7/8" Reg Pin 1194 mm (47") 66 kg (145,5 lbs) 89001333 9705-02-34 OR COP 54 Gold QM 140 - 152 mm (5 1/2" - 6") Ø 126 mm (4 15/16") API 2 7/8" Reg Pin 1194 mm (47") 76 kg (167,6 lbs) 89001405 9705-02-36

Atlas Copco ROC L8mk1 drill rigs



110 - 152 mm hole range 5 and 6 meter pipes

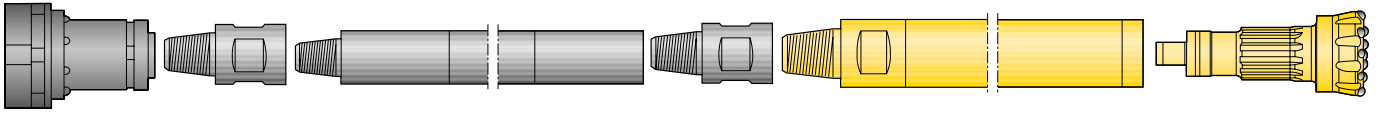
Rotation unit thread connection: API 2 3/8" Reg Box and API 3 1/2" Reg Box

89 mm (3 1/2") OD drill string, 110 - 125 mm (4 5/16 - 4 15/16") holes			
Saver sub	Drill pipe	Adapter	Hammer
For Fixed or Floating - Ø 89 mm (3 1/2") API 2 3/8" Reg Box x Pin 305 mm (12") 13 kg (28,6 lbs) 89000644 310-2090-10-030-01-C44,41	5 m pipes - Ø 89 mm (3 1/2") API 2 3/8" Reg Box x Pin 5000 mm (16,4 ft) 75 kg (165,3 lbs) 89000442 210-089-0500-B44-A0,40-06	Not needed	COP 44 Gold 110 - 125 mm (4 5/16 - 4 15/16") Ø 100 mm (3 15/16") API 2 3/8" Reg Pin 1038 mm 40,5 kg (89,3 lbs) 89001469 9704-03-34
	6 m pipes - Ø 89 mm (3 1/2") API 2 3/8" Reg Box x Pin 6000 mm (19,68 ft) 83 kg (183 lbs) 89000356 210-089-0600-B44-A0,40-06		
102 mm (4") OD Drillstring, 127 - 152 mm (5 - 6") holes			
Saver sub	Drill pipe	Adapter	Hammer
For Fixed or Floating - Ø 102 mm (4") API 2 7/8" Reg Box x 2 3/8" Pin 305 mm (12") 16 kg (35,3 lbs) 8900655 312-2102-10-030-01-C44,41	5 m pipes - Ø 102 mm (4") API 2 7/8" Reg Box x Pin 5000 mm (16,4 ft) 89,6 kg (197,5 lbs) 89000681 212-102-0500-B44-A0,40-06	Not needed	COP 54 Gold "Slim" 127 - 134mm (5" - 5 1/4") Ø 115mm (4 1/2") API 2 7/8" Reg Pin 1194mm (47") 57 kg (125,7 lbs) 89001283 9705-02-28 OR
	6 m pipes - Ø 102 mm (4") API 2 7/8" Reg Box x Pin 6000 mm (19,68 ft) 105,3 kg (232,1 lbs) 89000698 212-102-0600-B44-A0,40-06		COP 54 Gold 134 - 140 mm (5 1/4" - 5 1/2") Ø 120 mm (4 3/4") API 2 7/8" Reg Pin 1194 mm (47") 66 kg (145,5 lbs) 89001333 9705-02-34 OR
			COP 54 Gold QM 140 - 152 mm (5 1/2" - 6") Ø 126 mm (4 15/16") API 2 7/8" Reg Pin 1194 mm (47") 76 kg (167,6 lbs) 89001405 9705-02-36

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

For optional spindle thread connections, please contact your Atlas Copco representative.

Atlas Copco ROC L8mk1 drill rigs



156 - 203 mm hole range 5 and 6 meter pipes

Rotation unit thread connection: API 2 3/8" Reg Box and API 3 1/2" Reg Box

114 mm (4 1/2") OD drill string, 156 - 178 mm (6 1/8 - 7") holes

Saver sub	Drill pipe	Adapter	Hammer
For Fixed or Floating - Ø 114 mm (4 1/2") API 3 1/2" Reg Box x Pin 305 mm (12") 21 kg (46,3 lbs) 89000702 314-2114-14-030-01-C44,41	5 m pipes - Ø 114 mm (4 1/2") API 3 1/2" Reg Box x Pin 5000 mm (16,4 ft) 108,5 kg (239,2 lbs) 89001303 214-114-0500-B44-A0,40-06	Not needed	COP 64 Gold 156 - 178 mm (6 1/8" - 7") Ø 142 mm (5 9/16") API 3 1/2" Reg Pin 1258 mm (47") 96 kg (212 lbs) 89000959 9706-05-34
	6 m pipes - Ø 114 mm (4 1/2") API 3 1/2" Reg Box x Pin 6000 mm (19,68 ft) 115,3 kg (254,2 lbs) 89009355 214-114-0600-B44-A0,40-06		

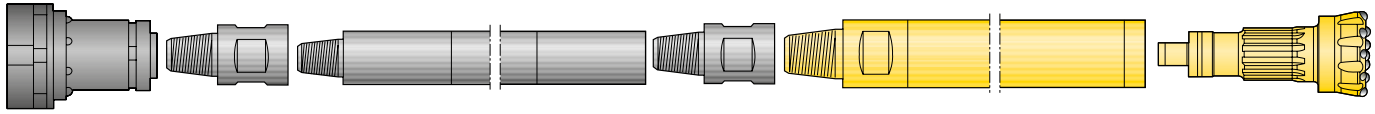
Legend
Description: Recommended hole size: OD, mm: Thread: Length, (s/s): Weight: Prod. No.: Prod. code:

140 mm (5 1/2") OD drill string, 165 - 203 mm (6 1/2" - 8") holes

Saver sub	Drill pipe	Adapter	Hammer
For Fixed or Floating - Ø 140 mm (5 1/2") API 4 1/2" Reg Box x 3 1/2" Pin 305 mm (12") 26,4 kg (58,2 lbs) 89000983 317-2140-14-030-01-C44,42	5 m pipes - Ø 140 mm (5 1/2") API 4 1/2" Reg Box x Pin 5000 mm (16,4 ft) 173,4 kg (382,3 lbs) 89001415 217-140-0500-B44-A0,40-08	Adapter - Ø 140 mm (5 1/2") API 3 1/2" Reg Box x 4 1/2" Pin 130 mm (5,1") 16,5 kg (36,4 lbs) 89009099 314-2146-17-013-01-D00,41	COP 64 Gold QM 165 - 203 mm (6 1/2" - 8") Ø 146 mm (5 3/4") API 3 1/2" Reg Pin 1258 mm (47") 109 kg (240 lbs) 89000960 9706-05-36
	6 m pipes - Ø 140 mm (5 1/2") API 4 1/2" Reg Box x Pin 6000 mm (19,68 ft) 200,5 kg (442 lbs) 89000982 217-140-0600-B44-A0,40-08		

For optional spindle thread connections, please contact your Atlas Copco representative.

Atlas Copco ROC L8²⁵/ L8³⁰, SmartROC D65, FlexiROC D60 / D65 drill rigs



110 - 152 mm hole range 5 and 6 meter pipes

Rotation unit thread connection: API 2 3/8" Reg Box and API 3 1/2" Reg Box

89 mm (3 1/2") OD drill string, 110 - 130 mm (4 5/16" - 5 1/8") holes

Saver sub	Drill pipe	Adapter	Hammer
Fixed - Ø 89 mm (3 1/2") API 2 3/8" Reg Box x Pin 580 mm (22,83") 25,1 kg (55,3 lbs) 89001322 310-2089-10-058-01-C43,41	5 m pipes - Ø 89 mm (3 1/2") API 2 3/8" Reg Box x Pin 5000 mm (16,4 ft) 75 kg (165,3 lbs) 89000442 210-089-0500-B44-A0,40-06	Not needed	COP 44 Gold 110 - 130 mm (4 5/16" - 5 1/8") Ø 100 mm (3 15/16") API 2 3/8" Reg Pin 1038 mm 40,5 kg (89,3 lbs) 89001469 9704-03-34
OR Floating - Ø 89 mm (3 1/2") API Reg 2 3/8" Box x Pin 220mm 9,3 kg (20,5 lbs) 89001327 310-2089-10-022-01-C43,41	6 m pipes - Ø 89 mm (3 1/2") API 2 3/8" Reg Box x Pin 6000 mm (19,68 ft) 83 kg (197,5 lbs) 89009356 210-089-0600-B44-A0,40-06		

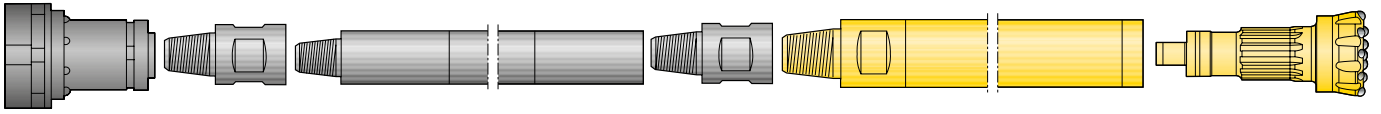
Legend
Description: Recommended hole size: OD, mm: Thread: Length, (s/s): Weight: Prod. No.: Prod. code:

102 mm (4") OD drill string, 127 - 152 mm (5 - 6") holes

Saver sub	Drill pipe	Adapter	Hammer
Fixed - Ø 102 mm (4") API 2 7/8" Reg Box x 2 3/8" Pin 580 mm (22,83") 32,9 kg (72,5 lbs) 89001323 312-2102-10-058-01-C43,41	5 m pipes - Ø 102 mm (4") API 2 7/8" Reg Box x Pin 5000 mm (16,4 ft) 89,6 kg (197,5 lbs) 89000681 212-102-0500-B44-A0,40-06	Not needed	COP 54 Gold "Slim" 127 - 134 mm (5" - 5 1/4") Ø 115 mm (4 1/2") API 2 7/8" Reg Pin 1194 mm (47") 57 kg (125,7 lbs) 89001283 9705-02-28
OR Floating - Ø 102 mm (4") API 2 7/8" Reg Box x 2 3/8" Pin 220 mm (8,66") 11,8 kg (26 lbs) 89001328 312-2102-10-022-01-C43,41	6 m pipes - Ø 102 mm (4") API 2 7/8" Reg Box x Pin 6000 mm (19,68 ft) 105,3 kg (232,1 lbs) 89000698 212-102-0600-B44-A0,40-06		OR COP 54 Gold 134 - 140 mm (5 1/4" - 5 1/2") Ø 120 mm (4 3/4") API 2 7/8" Reg Pin 1194 mm (47") 66 kg (145,5 lbs) 89001333 9705-02-34
			OR COP 54 Gold QM 140 - 152 mm (5 1/2" - 6") Ø 126 mm (4 15/16") API 2 7/8" Reg Pin 1194 mm (47") 76 kg (167,6 lbs) 89001405 9705-02-36

For optional spindle thread connections, please contact your Atlas Copco representative.

Atlas Copco ROC L8²⁵/ L8³⁰, SmartROC D65, FlexiROC D60 / D65 drill rigs



156 - 203 mm hole range 5 and 6 meter pipes

Rotation unit thread connection: API 2 3/8" Reg Box and API 3 1/2" Reg Box

114 mm (4 1/2") OD drill string, 156 - 178 mm (6 1/8 - 7") holes

Saver sub	Drill pipe	Adapter	Hammer
Fixed - Ø 114 mm (4 1/2") API 3 1/2" Reg Box x Pin 580 mm (22,83") 40,4 kg (89 lbs) 89001320 314-2114-14-058-01-C43,41	5 m pipes - Ø 114 mm (4 1/2") API 3 1/2" Reg Box x Pin 5000 mm (16,4 ft) 108,5 kg (239,2 lbs) 89001303 214-114-0500-B44-A0,40-06	Not needed	COP 64 Gold 156 - 178 mm (6 1/8" - 7") Ø 142 mm (5 9/16") API 3 1/2" Reg Pin 1258 mm (47") 96 kg (212 lbs) 89000959 9706-05-34
OR Floating - Ø 114 mm (4 1/2") API 3 1/2" Reg Box x 3 1/2" Pin 220 mm (8.66") 15,2 kg (33.5 lbs) 89001329 314-2114-14-022-01-C43,41	6 m pipes - Ø 114 mm (4 1/2") API 3 1/2" Reg Box x Pin 6000 mm (19,68 ft) 115,3 kg (254,2 lbs) 89009355 214-114-0600-B44-A0,40-06		

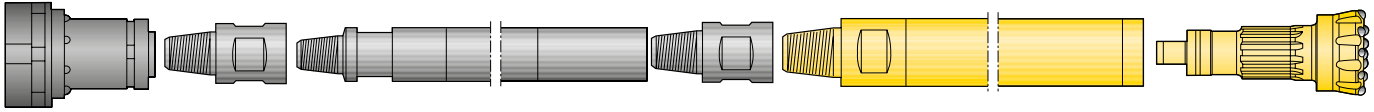
Legend
Description: Recommended hole size: OD, mm: Thread: Length, (s/s): Weight: Prod. No.: Prod. code:

140 mm (5 1/2") OD drill string, 165 - 203 mm (6 1/2" - 8") holes

Saver sub	Drill pipe	Adapter	Hammer
Fixed - Ø 140 mm (5 1/2") API 4 1/2" Reg Box x 3 1/2" Pin 580 mm (22,83") 59,4 kg (131 lbs) 89001324 317-2140-14-058-01-C43,41	5 m pipes - Ø 140 mm (5 1/2") API 4 1/2" Reg Box x Pin 5000 mm (16,4 ft) 173,4 kg (382,3 lbs) 89001415 217-140-0500-B44-A0,40-08	Adapter - Ø 140 mm (5 1/2") API 3 1/2" Reg Box x 4 1/2" Pin 130 mm (5,1") 16,5 kg (36,4 lbs) 89009099 314-2146-17-013-01-D00,41	COP 64 Gold QM 165 - 203 mm (6 1/2" - 8") Ø 146 mm (5 3/4") API 3 1/2" Reg Pin 1258 mm (47") 109 kg (240 lbs) 89000960 9706-05-36
OR Floating - Ø 140 mm (5 1/2") API Reg 4 1/2" Box x 3 1/2" Pin 220 mm (8.66") 20 Kg (44,1 lbs) 89001330 317-2140-14-022-01-C43,41	6 m pipes - Ø 140 mm (5 1/2") API 4 1/2" Reg Box x Pin 6000 mm (19,68 ft) 200,5 kg (442 lbs) 89000982 217-140-0600-B44-A0,40-08		

For optional spindle thread connections, please contact your Atlas Copco representative.

Atlas Copco Simba M3 C-ITH / M4 C-ITH / M6 C-ITH / 364-ITH drill rigs



110 - 152 mm hole range

Rotation unit thread connection: API 2 3/8" Reg Box and API 3 1/2" Reg Box

89 mm (3 1/2") OD drill string, 110 - 125 mm (4 5/16 - 4 15/16") holes. 1,5 m pipes.

Saver sub	Drill pipe	Adapter	Hammer
For Fixed - Ø 89 mm (3 1/2") API 2 3/8" Reg Box x Pin 580 mm (22,83") 25,1 kg (55,3 lbs) 89001322 310-2089-10-058-01-C43,41	1,5 m Pipes - Ø 89 mm (3 1/2") API 2 3/8" Reg Box x Pin 1500 mm (4,92 ft) 24 kg (52,9 lbs) 89000988 210-089-0150-B41-A0,40-06	Not needed	COP 44 Gold 110 - 125 mm (4 5/16 - 4 15/16") Ø 100 mm (3 15/16") API 2 3/8" Reg Pin 1038 mm 40,5 kg (89,3 lbs) 89001469 9704-03-34
For Floating - Ø 89 mm (3 1/2") API 2 3/8" Reg Box x Pin 220 mm (8,66") 9,3 kg (20,5 lbs) 89001327 310-2089-10-022-01-C43,41			

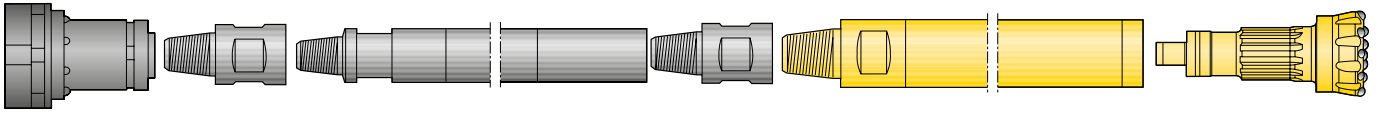
Legend
Description: Recommended hole size: OD, mm: Thread: Length, (s/s): Weight: Prod. No.: Prod. code:

102 mm (4") OD drill string, 127 - 152 mm (5 - 6") holes. 1,5 m and 1,8 m pipes.

Saver sub	Drill pipe	Adapter	Hammer
Fixed - Ø 102 mm (4") API 2 7/8" Reg Box x 2 3/8" Pin 580 mm (22,83") 32,9 kg (72,5 lbs) 89001323 312-2102-10-058-01-C43,41	1,5 m Pipes - Ø 102 mm (4") API 2 7/8" Reg Box x Pin 1500 mm (4,92 ft) 39,4 kg (86,9 lbs) 89001565 212-102-0150-B41-A0,40-06	Not needed	COP 54 Gold "Slim" 127 - 134 mm (5" - 5 1/4") Ø 115 mm (4 1/2") API 2 7/8" Reg Pin 1194 mm (47") 57 kg (125,7 lbs) 89001283 9705-02-28 OR COP 54 Gold 134 - 140 mm (5 1/4" - 5 1/2") Ø 120 mm (4 3/4") API 2 7/8" Reg Pin 1194 mm (47") 66 kg (145,5 lbs) 89001333 9705-02-34 OR COP 54 Gold QM 140 - 152 mm (5 1/2" - 6") Ø 126 mm (4 15/16") API 2 7/8" Reg Pin 1194 mm (47") 76 kg (167,6 lbs) 89001405 9705-02-36
OR Floating - Ø 102 mm (4") API 2 7/8" Reg Box x 2 3/8" Pin 220 mm (8,66") 11,8 kg (26 lbs) 89001328 312-2102-10-022-01-C43,41			

For optional spindle thread connections, please contact your Atlas Copco representative.

Atlas Copco Simba M3 C-ITH / M4 C-ITH / M6 C-ITH / 364-ITH drill rigs



156 - 178 mm hole range

Rotation unit thread connection: API 2 3/8" Reg Box and API 3 1/2" Reg Box

102 mm (4") OD drill string, 156 - 178 mm (6 1/8 - 7") holes. 1,5 and 1,8 m pipes.

Saver sub	Drill pipe	Adapter	Hammer
Fixed - Ø 102 mm (4") API Reg 2 7/8" Box x 3 1/2" Pin 580 mm (22,83") 31,5 Kg (69,4 lbs) 89001325 312-2102-14-058-01-C43,41 OR	1,5 m Pipes - Ø 102 mm (4") API 2 7/8" Reg Box x Pin 1500 mm (4,92 ft) 39,4 kg (86,9 lbs) 89001565 212-102-0150-B41-A0,40-06	Adapter - Ø 102 mm (4") API Reg 3 1/2" Box x 2 7/8" Pin 230 mm (9,1") 11 kg (24,2 lbs) 57155913 314-2102-12-023-01-D00,41	COP 64 Gold 156 - 178 mm (6 1/8" - 7") Ø 142 mm (5 9/16") API 3 1/2" Reg Pin 1258 mm (47") 96 kg (212 lbs) 89000959 9706-05-34 OR
Floating - Ø 102 mm (4") API Reg 2 7/8" Box x 3 1/2" Pin 220 mm (8,66") 12,4 Kg (27,3 lbs) 89001331 312-2102-14-022-01-C43,41	1,8 m Pipes - Ø 102 mm (4") API 2 7/8" Reg Box x Pin 1800 mm (5,90 ft) 44 kg (97 lbs) 89001533 212-102-0180-B41-A0,40-06		COP 64 Gold QM 165 - 203 mm (6 1/2" - 8") Ø 146 mm (5 3/4") API 3 1/2" Reg Pin 1258 mm (47") 109 kg (240 lbs) 89000960 9706-05-36

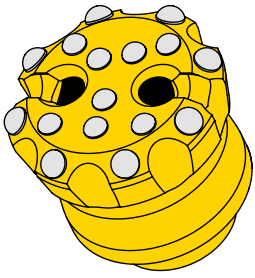
Legend
Description: Recommended hole size: OD, mm: Thread: Length, (s/s): Weight: Prod. No.: Prod. code:

For optional spindle thread connections, please contact your Atlas Copco representative.



Secoroc DTH rock drilling tools

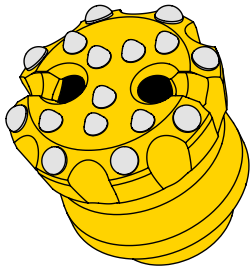
Secoroc drill bits – standard assortment



Flat front

Applications:
Hard and abrasive formations, all round.

Typical formations:
Granite, hard limestone, basalt.

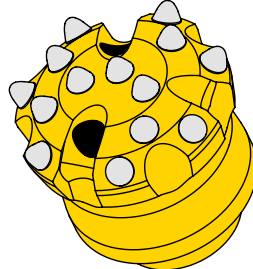


SpeedBit

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

Design feature:
Ballistic buttons in front.

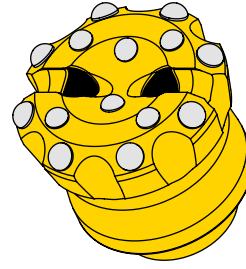
Typical formations:
Granite, hard limestone, basalt.



Convex front, ballistic

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

Typical formations:
Limestone, hard limestone, shale.

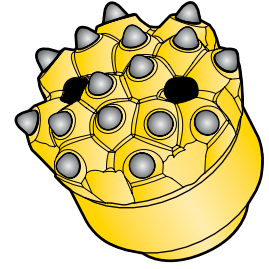


Concave front

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.



DHD 3.5 shank (DHD 3.5, TD 35.2, QLX 35)

Diameter		Product No.	Product code	Weight approx	
mm	inch			kg	lbs
FLAT FRONT					
90	3 9/16	90515317	100-5090-35-1214, 10-20	5,8	12.8
92	3 5/8	90515318	100-5092-35-1214, 10-20	5,8	12.8
95	3 3/4	90515319	100-5095-35-1214, 10-20	5,9	13.0
100	3 15/16	90515320	100-5100-35-121A, 10-20	6,1	13.4
105	4 1/8	90515321	100-5105-35-1210, 10-20	6,3	13.9
SPEEDBIT					
92	3 5/8	90515322	100-5092-35-1254, 10-20	5,8	12.8
95	3 3/4	90515323	100-5095-35-1254, 10-20	5,9	13.0
100	3 15/16	90515324	100-5100-35-125A, 10-20	6,1	13.4
105	4 1/8	90515325	100-5105-35-1250, 10-20	6,3	13.9
CONVEX BALLISTIC					
92	3 5/8	90515326	100-5092-35-223A, 10-20	5,5	12.1
95	3 3/4	90515327	100-5095-35-223A, 10-20	5,6	12.3
100	3 15/16	90515328	100-5100-35-223A, 10-20	5,6	12.3
105	4 1/8	90515329	100-5105-35-2239, 10-20	5,8	12.8
CONCAVE					
100	3 15/16	90515330	100-5100-35-021A, 10-20	5,2	11.4
ROCKET BIT					
90	3 9/16	90515757	100-5090-35-623A, 10-20	5,1	11.2
95	3 3/4	90515700	100-5095-35-623A, 10-20	5,3	11.7
EXHAUSTTUBE		90515375	9091-90515375		
ASSEMBLYTOOL		90515511	9110-90515511		

Secoroc DTH rock drilling tools

TD 40 shank (COP 44 Gold, QLX 40)

Diameter		Product No.	Product code	Weight approx	
mm	inch			kg	lbs
FLAT FRONT					
110	4 1/3	90516005	100-5110-64-1210,10-20	9,1	20.1
115	4 1/2	90516006	100-5115-64-1210,10-20	9,3	20.5
115	4 1/2	90516450	100-5115-64-1228,10-20	9,4	20.8
120	4 3/4	90516506	100-5120-64-1210,10-20	9,5	21.0
125	5	90516227	100-5125-64-1210,10-20	9,8	21.6
130	5 1/8	90516007	100-5130-64-1218,10-20	10,2	22.5
140	5 1/2	90516447	100-5140-64-1218,10-20	10,9	24.1
152	6	90516446	100-5152-64-1217,10-20	11,5	25.4
SPEEDBIT					
115	4 1/2	90516008	100-5115-64-1250,10-20	9,3	20.5
120	4 3/4	90516516	100-5120-64-1250,10-20	9,5	21.0
125	4 15/16	90516364	100-5125-64-1250,10-20	9,7	21.4
130	5 1/8	90516365	100-5130-64-1250,10-20	9,7	21.4
CONCAVE					
115	4 1/2	90003644	100-5115-64-0210,10-20	9,1	20.1
121	4 3/4	90516009	100-5121-64-0210,10-20	9,4	20.8
ROCKET BIT					
110	4 5/16	90516010	100-5110-64-623A,10-20	8,5	18.8
115	4 1/2	90516011	100-5115-64-623A,10-20	8,6	19.0
115	4 1/2	90516012	100-5115-64-6210,10-20	8,7	19.2

EXHAUSTTUBE	90516004	9115
ASSEMBLY TOOL	90516013	9141

QL 50 shank (COP 54 Gold, QL 50/55, QLX 50/55)

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

EXHAUSTTUBE	90515427	9257
ASSEMBLY TOOL	89000993	9190

QL 60 shank (COP 64 Gold, QL 60/65, QLX 60/65)

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	69.0
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
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

EXHAUSTTUBE	90514253	9283
ASSEMBLY TOOL	89001189	9170



Secoroc DTH rock drilling tools

Pipes - Design group Atlas Copco ROC/FlexiROC/SmartROC

Diameter		Product No.	Product code	Thread Pin/Box	Wall thickness		Length		Wrench flats	Weight	
inch	mm				inch	mm	feet	m		lbs	kg
3.00	76	89000871	210-076-0600-B44-A0,40-06	2 3/8" API REG	0.248	6,3	19.7	6	No Wrench flats	145	66
3.00	76	89000444	210-076-0500-B44-A0,40-06	2 3/8" API REG	0.248	6,3	16.4	5	No Wrench flats	128	58
3.00	76	89009398	210-076-0400-B44-A0,40-06	2 3/8" API REG	0.248	6,3	13.1	4	No Wrench flats	106	48
3.50	89	89000999	210-089-0600-B44-A0,40-08	2 3/8" API REG	0.346	8,8	19.7	6	No Wrench flats	279	127
3.50	89	89009356	210-089-0600-B44-A0,40-06	2 3/8" API REG	0.248	6,3	19.7	6	No Wrench flats	183	83
3.50	89	89000442	210-089-0500-B44-A0,40-06	2 3/8" API REG	0.248	6,3	16.4	5	No Wrench flats	165	75
3.50	89	89000445	210-089-0400-B44-A0,40-06	2 3/8" API REG	0.248	6,3	13.1	4	No Wrench flats	132	60
4.00	102	89000698	212-102-0600-B44-A0,40-06	2 7/8" API REG	0.248	6,3	19.7	6	No Wrench flats	232	105
4.00	102	89000681	212-102-0500-B44-A0,40-06	2 7/8" API REG	0.248	6,3	16.4	5	No Wrench flats	197	90
4.00	102	89000648	212-102-0400-B44-A0,40-06	2 7/8" API REG	0.248	6,3	13.1	4	No Wrench flats	152	69
4.50	114	89000950	214-114-0600-B44-A0,40-08	3 1/2" API REG	0.346	8,8	19.7	6	No Wrench flats	350	159
4.50	114	89009355	214-114-0600-B44-A0,40-06	3 1/2" API REG	0.248	6,3	19.7	6	No Wrench flats	254	115
4.50	114	89001303	214-114-0500-B44-A0,40-06	3 1/2" API REG	0.248	6,3	16.4	5	No Wrench flats	239	108
5.50	140	89000982	217-140-0600-B44-A0,40-08	4 1/2" API REG	0.346	8,8	19.7	6	No Wrench flats	441	200
5.50	140	89001415	217-140-0500-B44-A0,40-08	4 1/2" API REG	0.346	8,8	16.4	5	No Wrench flats	381	173

Pipes - Design group Simba ITH

Diameter		Product No.	Product code	Thread Pin/Box	Wall thickness		Length		Wrench flats	Weight	
inch	mm				inch	mm	feet	m		lbs	kg
3.00	76	89001411	210-076-0180-B41-A0,40-06	2 3/8" API REG	0.248	6,6	6.0	1,8	Circular grip	64	29
3.50	89	89009197	210-089-0200-B41-L0,40-04	2 3/8" API REG	0.157	4,0	6.6	2	Circular grip	59	27
3.50	89	89001564	210-089-0180-B41-A0,40-06	2 3/8" API REG	0.248	6,6	6.0	1,8	Circular grip	68	31
3.50	89	89000988	210-089-0150-B41-L0,40-06	2 3/8" API REG	0.248	6,6	4.9	1,5	Circular grip	53	24
4.00	102	89001533	212-102-0180-B41-A0,40-06	2 7/8" API REG	0.248	6,6	6.0	1,8	Circular grip	97	44



Secoroc DTH rock drilling tools

Saver sub Atlas Copco ROC series L6mk1/L8mk1

Adapter length s/s 305 mm for fixed sub and floating sub.

Diameter		Product No.	Product code	Length s/s		Configu- ration	Box	Pin	Flats across		Weight	
inch	mm			inch	mm				inch	mm	lbs	kg
3.00	76	89000701	310-2076-10-030-01-C44,41	12.00	305	Box/Pin	2 3/8" API Reg	2 3/8" API Reg	n/a	n/a	20	9
3.50	89	89000644	310-2090-10-030-01-C44,41	12.00	305	Box/Pin	2 3/8" API Reg	2 3/8" API Reg	n/a	n/a	29	13
4.00	102	89000655	312-2102-10-030-01-C44,41	12.00	305	Box/Pin	2 7/8" API Reg	2 3/8" API Reg	n/a	n/a	35	16
4.50	114	89000702	314-2114-14-030-01-C44,41	12.00	305	Box/Pin	3 1/2" API Reg	3 1/2" API Reg	n/a	n/a	46	21
4.50	114	89000854	314-2114-12-030-01-C44,41	12.00	305	Box/Pin	3 1/2" API Reg	2 7/8" API Reg	n/a	n/a	46	21
5.00	127	89001339	314-2127-14-030-01-D44,41	12.00	305	Box/Pin	3 1/2" API Reg	3 1/2" API Reg	n/a	n/a	60	27

Saver sub Atlas Copco ROC/FlexiROC/SmartROC/Simba ITH

Adapter length s/s 580 mm for fixed sub. Adapter length s/s 220 mm for floating sub.

Diameter		Product No.	Product code	Length s/s		Configu- ration	Box	Pin	Flats across		Weight	
inch	mm			inch	mm				inch	mm	lbs	kg
3.00	76	89001326	310-2076-10-022-01-C43,41	8.66	220	Box/Pin	2 3/8" API Reg	2 3/8" API Reg	2.56	65	15	7
3.00	76	89001315	310-2076-10-058-01-D43,41	22.83	580	Box/Pin	2 3/8" API Reg	2 3/8" API Reg	2.56	65	39	7
3.50	89	89001327	310-2089-10-022-01-C43,41	8.66	220	Box/Pin	2 3/8" API Reg	2 3/8" API Reg	2.56	65	20	9
3.50	89	89001322	310-2089-10-058-01-C43,41	22.83	580	Box/Pin	2 3/8" API Reg	2 3/8" API Reg	2.56	65	53	25
4.00	102	89001328	312-2102-10-022-01-C43,41	8.66	220	Box/Pin	2 7/8" API Reg	2 3/8" API Reg	2.95	75	26	12
4.00	102	89001323	312-2102-10-058-01-C43,41	22.83	580	Box/Pin	2 7/8" API Reg	2 3/8" API Reg	2.95	75	72	33
4.00	102	89001331	312-2102-14-022-01-C43,41	8.66	220	Box/Pin	2 7/8" API Reg	3 1/2" API Reg	2.95	75	27	12
4.00	102	89001325	312-2102-14-058-01-C43,41	22.83	580	Box/Pin	2 7/8" API Reg	3 1/2" API Reg	2.95	75	69	32
4.50	114	89001329	314-2114-14-022-01-C43,41	8.66	220	Box/Pin	3 1/2" API Reg	3 1/2" API Reg	3.74	95	34	15
4.50	114	89001320	314-2114-14-058-01-C43,41	22.83	580	Box/Pin	3 1/2" API Reg	3 1/2" API Reg	3.74	95	89	40
5.50	140	89001330	317-2140-14-022-01-C43,41	8.66	220	Box/Pin	4 1/2" API Reg	3 1/2" API Reg	4.72	120	44	20
5.50	140	89001324	317-2140-14-058-01-C43,41	22.83	580	Box/Pin	4 1/2" API Reg	3 1/2" API Reg	4.72	120	131	59

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 questions 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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