

Secoroc Rock Drilling Tools

Down-the-hole drill strings for CM 700 series



Secoroc high quality DTH drill string equipment

Atlas Copco Secoroc offers a complete DTH drill string for the CM 700 series.
This brochure will help you to select the right DTH equipment for each field application.

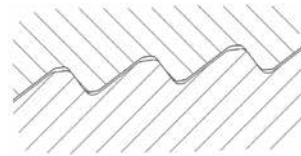
Atlas Copco CM drill rigs

The CM 760/765/780/785 are high capacity down-the-hole crawlers for drilling with 3", 4", 5" and 6" hammers in aggregate and limestone quarries or in volume mining operations.

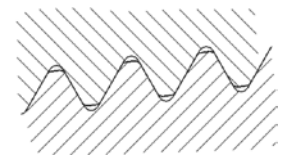
The CM drill rigs contributes to higher productivity by drilling high-quality holes at a high penetration rate with optimum fuel consumption, long accessory life and low overall maintenance cost.

The CM drill rigs are equipped with a powerful rotary head DDRH (Direct Driven Rotary Head), using the Rod Lock Sleeve System, with high torque.

This system uses Z threaded spindle and pipes. Z thread is coarse and robust with low torque requirement and un-coupling is done directly by the rod lock in the rotary head with no need for floating sub and hard grip centralizer. (See Z thread vs API thread below.)

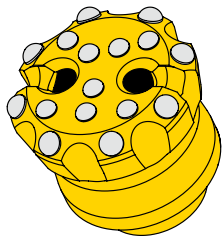


Z thread



API thread

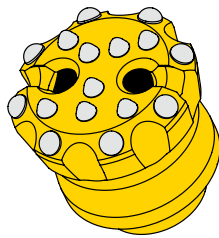
Secoroc drill bits – standard assortment



Flat front

Applications:
Hard and abrasive formations, all round.

Typical formations:
Granite, hard limestone, basalt.

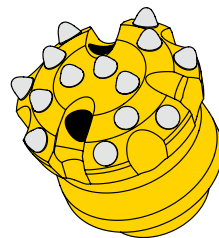


SpeedBit

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

Design feature:
Ballistic buttons in front.

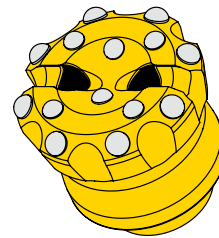
Typical formations:
Granite, hard limestone, basalt.



Convex front, ballistic

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

Typical formations:
Limestone, hard limestone, shale.

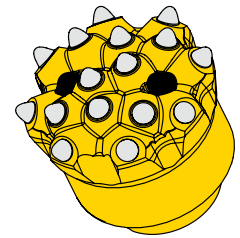


Concave front

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 drill bits

TD 35 (DHD 3.5 shank)

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
FOOT VALVE		90515375	9091		
ASSEMBLY TOOL		90515511	9110		

COP 44 (DHD 340A shank)

Diameter		Product No.	Product code	Weight approx	
mm	inch			kg	lbs
FLAT FRONT					
110	4 5/16	90513714	100-5110-34-1210,10-20	8.8	19.4
115	4 1/2	90513715	100-5115-34-1210,10-20	9	19.8
125	4 15/16	90513716	100-5125-34-1210,10-20	9.5	20.9
130	5 1/8	90515203	100-5130-34-1218,10-20	9.9	21.8
SPEEDBIT					
110	4 5/16	90513719	100-5110-34-1250,10-20	8.8	19.4
115	4 1/2	90513720	100-5115-34-1250,10-20	9	19.8
125	4 15/16	90513721	100-5125-34-1250,10-20	9.7	21.4
130	5 1/8	90513722	100-5130-34-1250,10-20	9.7	21.4
CONCAVE					
110	4 5/16	90514995	100-5110-34-0210,10-20	8.6	19.0
115	4 1/2	90514996	100-5115-34-0210,10-20	9	19.8
121	4 3/4	90514999	100-5121-34-0210,10-20	9.1	20.1
130	5 1/8	90515551	100-5130-34-0218,10-20	9.4	20.7
CONVEX BALLISTIC					
110	4 5/16	90513724	100-5110-34-2230,10-20	8.3	18.3
115	4 1/2	90513725	100-5115-34-2239,10-20	8.6	19.0
125	4 15/16	90513726	100-5125-34-223A,10-20	8.8	19.4
130	5 1/8	90513727	100-5130-34-223A,10-20	9.2	20.3
ROCKET BIT - BALLISTIC					
110	4 5/16	90515306	100-5110-34-623A-10-20	8.7	19.2
115	4 1/2	90515305	100-5115-34-623A-10-20	8.9	19.6
ROCKET BIT - SPHERICAL					
115	4 1/2	90515548	100-5115-34-6210-10-20	8.9	19.6
FOOT VALVE		86002883	9227		
ASSEMBLY TOOL		89001223	9226		

COP 54 Gold Express (QL 50 shank)

Diameter		Product No.	Product code	Weight approx	
mm	Inch			kg	lbs
FLAT FRONT					
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	39.25
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					
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	100-5149-25-0218,10-20	17.5	38.6
152	6	90514974	100-5152-25-1217,10-20	17.7	39.0
CONVEX BALLISTIC					
140	5 1/2	90515424	100-5140-25-2339,10-20	16.3	35.9
140	5 1/8	90515428	100-5140-25-2237,10-20	16.2	35.7
146	5 3/4	90514713	100-5146-25-2338,10-20	17.1	37.7
FOOT VALVE		90515427	9257		
ASSEMBLY TOOL		89000993	9190		

COP 64 Gold (QL 60 shank)

Diameter		Product No.	Product code	Weight approx	
mm	Inch			kg	lbs
FLAT FRONT					
156	6 1/4	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 2/4	90515613	100-5165-26-1217,08-20	24.2	53.4
165	6 2/4	90515589	100-5165-26-1211,08-20	24.4	53.8
165	6 2/4	90515609	100-5165-26-1241,08-20	24.4	53.8
SPEEDBIT					
156	6 1/4	90515705	100-5156-26-1247,08-20	22.5	49.6
CONCAVE					
156	6 1/4	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	52.9
165	6 1/2	90515598	100-5165-26-0211,08-20	24.2	53.4
CONVEX - BALLISTIC					
165	6 1/2	90515641	100-5165-26-2337,08-20	23.8	52.3
CONVEX - SPHERICAL					
165	6 1/2	90515652	100-5165-26-221b,08-20	24.3	53.6
FOOT VALVE		90514253	9283		
ASSEMBLY TOOL		89001230	9188		



CM-760

Rotation unit DDRH-A	Spindle adapter	Drill pipe	Starter pipe	DTH hammer	Bit
3" pipes/ 3" hammer	3.5" API Reg Pin x 2.0" Z Box <i>Prod. No. 52100435</i> <i>Prod. code</i> <i>3Z1-2076-14-012-01-B8741</i>	L=4.0m (13'), OD=76mm (3"), Wall=6.3mm (0.25"), 2.0" Z Pin x 2.0" Z Box <i>Prod. No. 51788479</i> <i>Prod. code 2Z1-076-0400-B65-L0, 40-06</i>	L=2.9m (9.54'), OD=76mm (3"), Wall=8.8mm (0.37"), 2.0" Z Pin x API 2 3/8" Reg Box <i>Prod. No. 51985885</i> <i>Prod. code 2CI-076-0290-A65-L0, 40-08</i>	TD 35 STD API 2 3/8" Reg Pin <i>Prod. No. 52312923</i> <i>Prod. code</i> <i>9703-03-60-00</i>	90-105 mm (3 1/2"-4 1/8")
3.5" pipes/ 4" hammer	3.5" API Reg Pin x 2.5" Z Box <i>Prod. No. 52137015</i> <i>Prod. code</i> <i>3Z3-2089-14-012-01-B8741</i>	L=4.0m (13'), OD=89mm (3.5"), Wall=6.3mm (0.25"), 2.5" Z Pin x 2.5" Z Box <i>Prod. No. 57699050</i> <i>Prod. code 2Z3-089-0400-B65-L0, 40-06</i>	L=2.7m (8.86'), OD=89mm (3.5"), Wall=8.8mm (0.37"), 2.5" Z Pin x API 2 3/8" Reg Box <i>Prod. No. 57699043</i> <i>Prod. code 2CJ-089-0270-A65-L0, 40-08</i>	COP 44 STD API 2 3/8" Reg Pin <i>Prod. No. 89004882</i> <i>Prod. code 9704-03-04</i>	110-130 mm (4 5/16"-5 1/8")
3.5" pipes/ 5" hammer	3.5" API Reg Pin x 2.5" Z Box <i>Prod. No. 52137015</i> <i>Prod. code</i> <i>3Z3-2089-14-012-01-B8741</i>	L=4.0m (13'), OD=89mm (3.5"), Wall=6.3mm (0.25"), 2.5" Z Pin x 2.5" Z Box <i>Prod. No. 57699050</i> <i>Prod. code 2Z3-089-0400-B65-L0, 40-06</i>	L=2.4m (7.87'), OD= 89mm (3.5"), Wall=8.8mm (0.37"), 2.5" Z Pin x API 3.5" Reg Box <i>Prod. No. 57699035</i> <i>Prod. code 2CK-089-0240-A65-L0, 40-08</i>	COP 54 GE API 3.5" Reg Pin <i>Prod. No. 89001243</i> <i>Prod. code 9705-05-34</i>	134-152 mm (5 1/4"-6")
				COP 54 GE QM API 3.5" Reg Pin <i>Prod. No. 89001255</i> <i>Prod. code 9705-05-36</i>	140-152 mm (5 1/2"-6")
4" pipes/ 5" hammer	3.5" API Reg Pin x 2.5" Z Box <i>Prod. No. 52100427</i> <i>Prod. code</i> <i>3Z3-2102-14-012-01-B87, 41</i>	L=4,0m (13'), OD=102mm (4"), Wall=6.3mm (0.25"), 2.5" Z Pin x 2.5" Z Box <i>Prod. No. 51788487</i> <i>Prod. code 2Z3-102-0400-B65-L0, 40-06</i>	L=2.7m (8.86'), OD=102mm (4"), Wall=8.8mm (0.37"), 2.5" Z Pin x API 3.5" Reg Box <i>Prod. No. 51985893</i> <i>Prod. code 2CK-102-0270-A65-L0, 40-08</i>	COP 54 GE API 3.5" Reg Pin <i>Prod. No. 89001243</i> <i>Prod. code 9705-05-34</i>	134-152 mm (5 1/4"-6")
				COP 54 GE QM API 3.5" Reg Pin <i>Prod. No. 89001255</i> <i>Prod. code 9705-05-36</i>	140-152 mm (5 1/2"-6")

CM-765

Rotation unit DDRH-A	Spindle adapter	Drill pipe	Starter pipe	DTH hammer	Bit
3" pipes/ 3" hammer	3.5" API Reg Pin x 2.0" Z Box <i>Prod. No. 52100435</i> <i>Prod. code</i> <i>3Z1-2076-14-012-01-B87, 41</i>	L=5.0m (16.4'), OD=76mm (3"), Wall=6.3mm (0.25"), 2.0" Z Pin x 2.0" Z Box <i>Prod. No. 57844078</i> <i>Prod. code 2Z1-076-0500-B65-L0, 40-06</i>	L=4.6m (15.1'), OD=76mm (3"), Wall=8.8mm (0.37"), 2.0" Z Pin x API 2 3/8" Reg Box <i>Prod. No. 57882326</i> <i>Prod. code 2CI-076-0460-A65-L0, 40-08</i>	TD 35 STD API 2 3/8" Reg Pin <i>Prod. No. 52312923</i> <i>Prod. code</i> <i>9703-03-60-00</i>	90-105 mm (3 1/2"-4")
3.5" pipes/ 4" hammer	3.5" API Reg Pin x 2.5" Z Box <i>Prod. No. 52137015</i> <i>Prod. code</i> <i>3Z3-2089-14-012-01-B87, 41</i>	L=5.0m (16.4'), OD=89mm (3.5"), Wall=6.3mm (0.25"), 2.5" Z Pin x 2.5" Z Box <i>Prod. No. 57844060</i> <i>Prod. code 2Z3-089-0500-B65-L0, 40-06</i>	L=4.6m (15.1'), OD=89mm (3.5"), Wall=8.8mm (0.37"), 2.5" Z Pin x API 2 3/8" Reg Box <i>Prod. No. 57882292</i> <i>Prod. code 2CJ-089-0460-A65-L0, 40-08</i>	COP 44 STD API 2 3/8" Reg Pin <i>Prod. No. 89004882</i> <i>Prod. code 9704-03-04</i>	110-130 mm (4 5/16"-5 1/8")
3.5" pipes/ 5" hammer	3.5" API Reg Pin x 2.5" Z Box <i>Prod. No. 52137015</i> <i>Prod. code</i> <i>3Z3-2089-14-012-01-B87, 41</i>	L=5.0m (16.4'), OD=89mm (3.5"), Wall=6.3mm (0.25"), 2.5" Z Pin x 2.5" Z Box <i>Prod. No. 57844060</i> <i>Prod. code 2Z3-089-0500-B65-L0, 40-06</i>	L=4.4m (14.4'), OD=89mm (3.5"), Wall=8.8mm (0.37"), 2.5" Z Pin x API 3.5" Reg Box <i>Prod. No. 57882284</i> <i>Prod. code 2CK-089-0440-A65-L0, 40-08</i>	COP 54 GE API 3.5" Reg Pin <i>Prod. No. 89001243</i> <i>Prod. code 9705-05-34</i>	134-152 mm (5 1/4"-6")
				COP 54 GE QM API 3.5" Reg Pin <i>Prod. No. 89001255</i> <i>Prod. code 9705-05-36</i>	140-152 mm (5 1/2"-6")
4" string/ 5" hammer	3.5" API Reg Pin x 2.5" Z Box <i>Prod. No. 52100427</i> <i>Prod. code</i> <i>3Z3-2102-14-012-01-B87, 41</i>	L=5.0m (16.4'), OD=102mm (4"), Wall=6.3mm (0.25"), 2.5" Z Pin x 2.5" Z Box <i>Prod. No. 57794422</i> <i>Prod. code 2Z3-102-0500-B65-L0, 40-06</i>	L = 4.4m (14.4'), OD=102mm (4"), Wall=8.8mm (0.37"), 2.5" Z Pin x API 3.5" Reg Box <i>Prod. No. 57882318</i> <i>Prod. code 2CK-102-0440-B65-L0, 40-08</i>	COP 54 GE API 3.5" Reg Pin <i>Prod. No. 89001243</i> <i>Prod. code 9705-05-34</i>	134-152 mm (5 1/4"-6")
				COP 54 GE QM API 3.5" Reg Pin <i>Prod. No. 89001255</i> <i>Prod. code 9705-05-36</i>	140-152 mm (5 1/2"-6")

CM-780

Rotation unit DDRH-C	Spindle adapter	Drill pipe	Starter pipe	DTH hammer	Bit
3.5" pipes/ 4" hammer	3.5" API Reg Pin x 2.5" Z Box <i>Prod. No. 57683922</i> <i>Prod. code 3Z3-2089-14-012-01-B88, 41</i>	L=4.0m (13'), OD=89mm (3.5"), Wall=6.3mm (0.25"), 2.5" Z Pin x 2.5" Z Box <i>Prod. No. 57699050</i> <i>Prod. code 2Z3-089-0400-B65-L0, 40-06</i>	L=2.7m (8.9'), OD=89mm (3.5"), Wall=8.8mm (0.37"), 2.5" Z Pin x API 2 3/8" Reg Box <i>Prod. No. 57699043</i> <i>Prod. code 2CJ-089-0270-A65-L0, 40-08</i>	COP 44 STD API 2 3/8" Reg Pin <i>Prod. No. 89004882</i> <i>Prod. code 9704-03-04</i>	110-130 mm (4 5/16"-5 1/8")
3.5" pipes/ 5" hammer	3.5" API Reg Pin x 2.5" Z Box <i>Prod. No. 57683922</i> <i>Prod. code 3Z3-2089-14-012-01-B88, 41</i>	L=4.0m (13'), OD=89mm (3.5"), Wall=6.3mm (0.25"), 2.5" Z Pin x 2.5" Z Box <i>Prod. No. 57699050</i> <i>Prod. code 2Z3-089-0400-B65-L0, 40-06</i>	L=2.4m (7.9'), OD=89mm (3.5"), Wall=8.8mm (0.37"), 2.5" Z Pin x API 3 .5" Reg Box <i>Prod. No. 57699035</i> <i>Prod. code 2CK-089-0240-A65-L0, 40-08</i>	COP 54 GE API 3.5" Reg Pin <i>Prod. No. 89001243</i> <i>Prod. code 9705-05-34</i> COP 54 GE QM API 3.5" Reg Pin <i>Prod. No. 89001255</i> <i>Prod. code 9705-05-36</i>	134-152 mm (5 1/4"-6") 140-152 mm (5 1/2"-6")
4" pipes/ 5"/6" hammer	3.5" API Reg Pin x 2.5" Z Box <i>Prod. No. 57683914</i> <i>Prod. code 3Z3-2102-14-012-01-B88, 41</i>	L=4.0m (13'), OD=102mm (4"), Wall=6.3mm (0.25"), 2.5" Z Pin x 2.5" Z Box <i>Prod. No. 51788487</i> <i>Prod. code 2Z3-102-0400-B65-L0, 40-06</i>	L=2.7m (8.9'), OD=102mm (4"), Wall=8.8mm (0.37"), 2.5" Z Pin x API 3 .5" Reg Box <i>Prod. No. 51985893</i> <i>Prod. code 2CK-102-0270-A65-L0, 40-08</i>	COP 54 GE API 3.5" Reg Pin <i>Prod. No. 89001243</i> <i>Prod. code 9705-05-34</i> COP 54 GE QM API 3.5" Reg Pin <i>Prod. No. 89001255</i> <i>Prod. code 9705-05-36</i> COP 64 Gold API 3.5" Reg Pin <i>Prod. No. 89000959</i> <i>Prod. code 9706-05-34</i> COP 64 Gold QM API 3.5" Reg Pin <i>Prod. No. 89000960</i> <i>Prod. code 9706-05-36</i>	134-152 mm (5 1/4"-6") 140-152 mm (5 1/2"-6") 152-165 mm (6"-6 1/2") 159-165 mm (6 1/4"-6 1/2")

CM-785

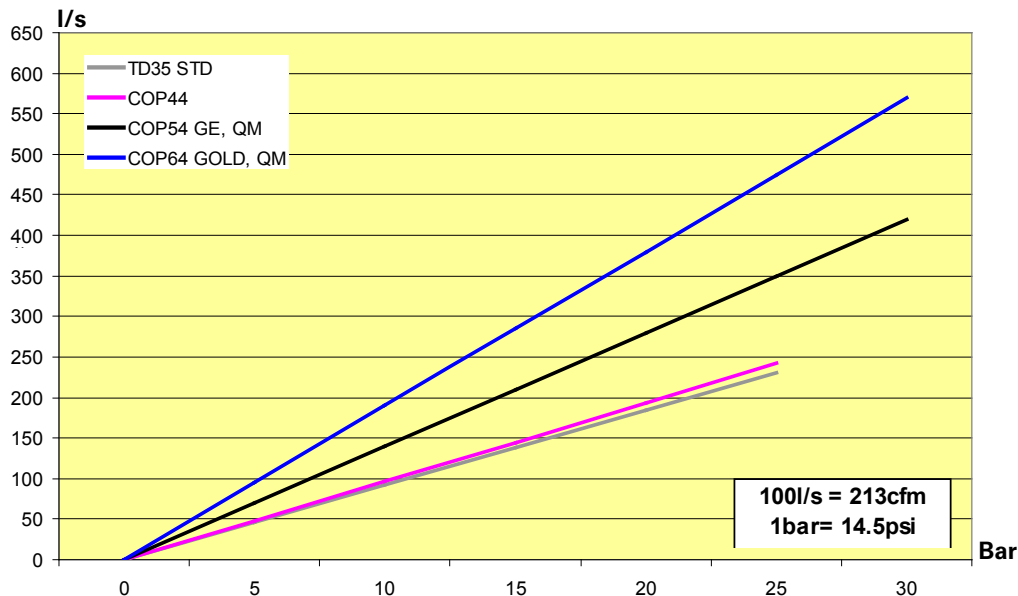
Rotation unit DDRH-C	Spindle adapter	Drill pipe	Starter pipe	DTH hammer	Bit
3.5" pipes/ 4" hammer	3.5" API Reg Pin x 2.5" Z Box <i>Prod. No. 57683922</i> <i>Prod. code 3Z3-2089-14-012-01-B88, 41</i>	L=5.0m (16.4'), OD=89mm (3.5"), Wall=6.3mm (0.25"), 2.5" Z Pin x 2.5" Z Box <i>Prod. No. 57844060</i> <i>Prod. code 2Z3-089-0500-B65-L0, 40-06</i>	L=4.6m (15.1'), OD=89mm (3.5"), Wall=8.8mm (0.37"), 2.5" Z Pin x API 2 3/8" Reg Box <i>Prod. No. 57882292</i> <i>Prod. code 2CJ-089-0460-A65-L0, 40-08</i>	COP 44 STD API 2 3/8" Reg Pin <i>Prod. No. 89004882</i> <i>Prod. code 9704-03-04</i>	110-130 mm (4 5/16"-5 1/8")
3.5" pipes/ 5" hammer	3.5" API Reg Pin x 2.5" Z Box <i>Prod. No. 57683922</i> <i>Prod. code 3Z3-2089-14-012-01-B88, 41</i>	L=5.0m (16.4'), OD=89mm (3.5"), Wall=6,3mm (0.25"), 2.5" Z Pin x 2.5" Z Box <i>Prod. No. 57844060</i> <i>Prod. code 2Z3-089-0500-B65-L0, 40-06</i>	L=4.4m (14.4'), OD=89mm (3.5"), Wall=8.8mm (0.37"), 2.5" Z Pin x API 3 .5" Reg Box <i>Prod. No. 57882284</i> <i>Prod. code 2CK-089-0440-A65-L0, 40-08</i>	COP 54 GE API 3.5" Reg Pin <i>Prod. No. 89001243</i> <i>Prod. code 9705-05-34</i> COP 54 GE QM API 3.5" Reg Pin <i>Prod. No. 89001255</i> <i>Prod. code 9705-05-36</i>	134-152 mm (5 1/4"-6") 140-152 mm (5 1/2"-6")
4" pipes/ 5"/6" hammer	3.5" API Reg Pin x 2.5" Z Box <i>Prod. No. 57683914</i> <i>Prod. code 3Z3-2102-14-012-01-B88, 41</i>	L=5.0m (16.4'), OD=102mm (4"), Wall=6.3mm (0.25"), 2.5" Z Pin x 2.5" Z Box <i>Prod. No. 57794422</i> <i>Prod. code 2Z3-102-0500-B65-L0, 40-06</i>	L=4.4m (14.4'), OD=102mm (4"), Wall=8.8mm (0.37"), 2.5" Z Pin x API 3 .5" Reg Box <i>Prod. No. 57882318</i> <i>Prod. code 2CK-102-0440-A65-L0, 40-08</i>	COP 54 GE API 3.5" Reg Pin <i>Prod. No. 89001243</i> <i>Prod. code 9705-05-34</i> COP 54 GE QM API 3.5" Reg Pin <i>Prod. No. 89001255</i> <i>Prod. code 9705-05-36</i> COP 64 Gold API 3.5" Reg Pin <i>Prod. No. 89000959</i> <i>Prod. code 9706-05-34</i> COP 64 Gold QM API 3.5" Reg Pin <i>Prod. No. 89000960</i> <i>Prod. code 9706-05-36</i>	134-152 mm (5 1/4"-6") 140-152 mm (5 1/2"-6") 152-165 mm (6"-6 1/2") 159-165 mm (6 1/4"-6 1/2")

DTH hammer

	TD 35 STD		COP 44 STD		COP 54 GE/QM		COP 64 G/QM	
Product No.	52312923		89004882		89001243 / 89001255		89000959 / 89000960	
Product code	9703-03-60-00		9704-03-04		9705-05-34/9705-05-36		9706-05-34/9706-05-36	
General specifications:								
Top sub thread	2 3/8API Reg Pin		2 3/8 API Reg Pin		3 1/2 API Reg Pin		3 1/2 API Reg Pin	
Shank style	DHD 3.5		DHD 340		QL 50		QL 60	
Outside diam (in & mm)	3.13	79.4	3.86	98.0	4.72	120.0	5.59	142.0
Bit size	90-105 mm (3 1/2"-4 1/8")		110-130 mm (4 3/16"-5 1/8")		134-152 mm (5 1/4"-6")/ 140-152 mm (5 1/2"-6")		156-165mm (6 1/8"-6 1/2") 159-165 mm (6 1/4"-6 1/2")	
Length with bit (in & mm)	35.2	894.1	41.46	1053.0	47.91	1217.0	49.53	1258.0
Weight w/o bit (lb & kg)	65	29.5	83.60	38.0	145.20	66.0	209.00	95.0
Maximum pressure differential (psig & bar)	350.0	24.1	362.5	25.0	435.0	30.0	435.0	30.0
Operational specifications:								
Feed force (lbs & kN)	1500-2000 / 7-9		2000-3000 / 9-13		4500-6000 / 20-27		4500-6000 / 20-27	
Rotation speed (rpm)	70-100		30-50		15-25		15-25	

DTH hammer at 25 bar/363 psi (bit size)	ROP (rate of penetration) in Swedish granite Quartz (SiO ₂): 28% Rock strength: 220 MPa/31 900 psi	
	m/min	ft/min
TD 35 (100 mm, 4")	0,96	3,15
COP 44 (115 mm, 4.5")	0,80	2,62
COP 54GE, QM (140 mm, 5.5")	0,87	2,85
COP 64 G, QM (165mm, 6.5")	0,84	2,76

Air consumption / Working pressure





COP oil

- A semi-synthetic oil based on >90% renewable raw materials.
- Uses carefully selected components to provide the highest technical performance for pneumatic and hydraulic rock drilling equipment.
- Withstands heavy loads while protecting against wear and corrosion.
- Provides optimum operation under variable air temperatures due to a broad operational temperature range.
- Utilizes the latest technology to provide decreased environmental impact.

Quantity	Product No.
10 litres	3115 3125 00
Can pallet - 48x10 litres	3115 3126 00
Drum - 208 litres	3115 3127 00



Super-Tac premium rock drill oil

- Specially formulated oil engineered and developed to meet the demanding requirements of high performance drilling systems.
- Extended warranties are offered for hammers lubricated with SUPER-TAC.

Grade	Product No. 3.8 liter / 1 gallon	Product No. 18.9 liter / 5 gallon	Product No. 207 liter / 55 gallon	Product No. 1130 liter / 300 gallon
Light	52334174	52333192	52333200	52343225
Medium	52334182	52333218	52333226	52343233
Heavy	52334190	52333234	52333242	52343241
Extra heavy	52334208	52333259	52333267	52343258

Breakout bench

The threaded connections of the driver chuck and top sub may become very tightly tensioned during drilling. It is convenient to break the hammer threads on the rig, but if the threads cannot be loosened or tend to get stuck, a breakout bench is the solution.



This handy but powerful breakout bench can easily be placed in a workshop or container and it breaks DTH hammers between 3–8".

The breakout bench is available in two designs.

NOTE! The breakout bench is delivered without wrench keys.

Description	Product No.	Product code
Hydraulic with hand pump	90514057	9178
Hydraulic with air operated foot pump, req. 6-12 bar air	90514348	9176

Selecting the right pipe

Key features of a high quality DTH pipe are durability, accuracy and manageability. Atlas Copco Secoroc pipes are made from cold drawn piping, providing a superior surface finish and tolerance compared to conventional pipes made from hot rolled piping. This drastically reduces the risk of scaling from the pipes entering the hammer, a major cause of premature hammer failure.

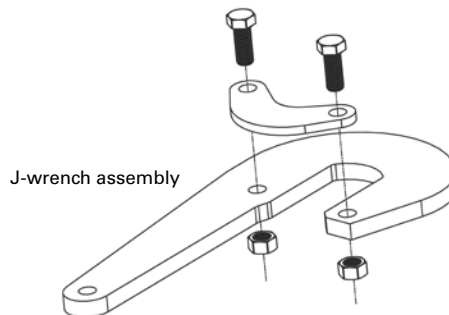
The joints are friction welded to achieve maximum strength, and the threads of the end-pieces are heat treated for optimum durability and strength of the thread profile. This not only ensures long thread life, but also makes coupling and uncoupling quick and simple, reducing drilling time.

Pipe diameter should be close to the hammer diameter to provide optimum flushing, reducing the chances of getting stuck.

Accessories

J-wrench assembly for pipes

Product No.	Product code	Pipe size
57747354	9474	3"
57747271	9475	3 1/2"
57747289	9476	4"

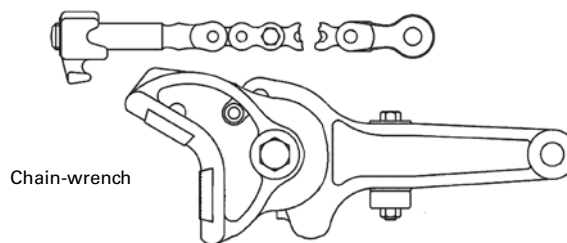


J-wrench assembly for COP/QL-series DTH hammers

Product No.	Product code	Hammer	Spanner flat	Thread
57746471	9477	TD 35, COP 44, QL 40	65 mm	2 3/8"
57746471	9477	COP 54 Gold Express	65 mm	2 3/8", 2 7/8"
57746455	9478	QL 50/55	89 mm	3 1/2"
58009655	9479	COP 54 Gold Express	95 mm	4"
57747255	9480	COP 64 Gold, QL 60/65	102 mm	4 1/2"

Chain-wrench for bit/hammer removal

Product No.	Product code	Chain-wrench
57809360	9481	3"-3 3/4"
50821487	9482	4 1/2"-5 3/8"
50260314	9483	5 3/8"-6 1/4"



Spindle adapter

Product No.	Product code	Spindle adapter	Pipe size	Drill rig
52100435	3Z1-2076-14-012-01-B87, 41	3.5" API Reg Pin x 2.0" Z Box	3"	CM 760/765
52137015	3Z3-2089-14-012-01-B87, 41	3.5" API Reg Pin x 2.5" Z Box	3 1/2"	CM 760/765
52100427	3Z3-2102-14-012-01-B87, 41	3.5" API Reg Pin x 2.5" Z Box	4"	CM 760/765
57683922	3Z3-2089-14-012-01-B88, 41	3.5" API Reg Pin x 2.5" Z Box	3 1/2"	CM 780/785
57683914	3Z3-2102-14-012-01-B88, 41	3.5" API Reg Pin x 2.5" Z Box	4"	CM 780/785

Spindle adapter



The Atlas Copco Secoroc division has additional information regarding drill string consumables.