

Top hammer drilling tools

Product catalogue

Sandvik Construction



Small hole drilling

HI9 (3/4") Integral drill steels

HI9 (3/4")

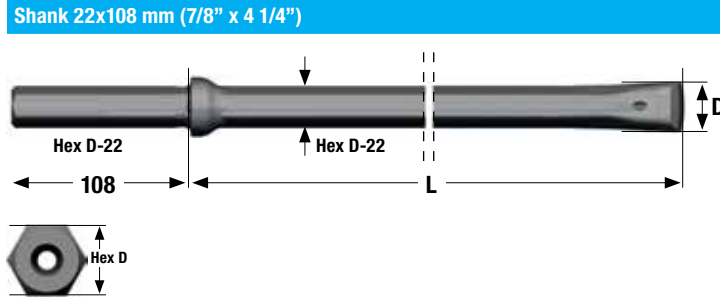
	Dimensions D						Part No.
	Series	L mm	ft	in	D mm	in	
Shank 19 x 108 mm (3/4" x 4 1/4")							
	21	400	1'	4"	29	19/64"	724-0429
	-	800	2'	7"	28	1 7/64"	724-0828
	-	1600	5'	3"	27	1 1/16"	724-1627
	-	2400	7'	10"	26	1 1/32"	724-2426
	24	600	2'	-	27	1 1/16"	724-0627
	-	1200	3'	11"	26	1 1/32"	724-1226
	Boulder-steel	400	1'	4"	24	15/16"	724-0424
		800	2'	7"	23	29/32"	724-0823

Shank 22 x 108 mm (7/8" x 4 1/4")							
		400	1'	4"	24	15/16"	728-0424
		400	1'	4"	29	1 9/64"	728-0429
		800	2'	7"	28	1 7/64"	728-0828
		1600	5'	3"	27	1 1/16"	728-1627

Small hole drilling

H22 (7/8") Integral drill steels

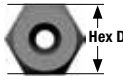
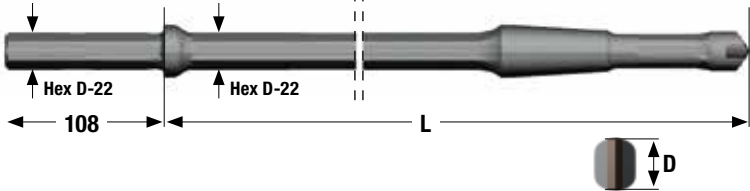
	Dimensions D						Part No.
	Series	L mm	ft	in	D mm	in	

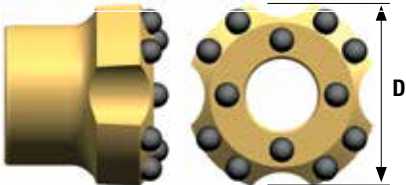


Shank 22x108 mm (7/8" x 4 1/4")							
11	800	2'	7"	34	1 11/32"	714-0834-65	
	1600	5'	3"	33	1 19/64"	714-1633-65	
	2400	7'	10"	32	1 1/4"	714-2432-65	
	3200	10'	6"	31	1 7/32"	714-3231	
	4000	13'	1"	30	1 3/16"	714-4030	
	4800	15'	9"	29	1 9/64"	714-4829	
	5600	18'	4"	28	1 7/64"	714-5628-50	
	6400	21'	–	27	1 1/16"	714-6427-50	
	7200	23'	8"	26	1 1/32"	714-7226-50	
12	800	2'	7"	40	1 37/64"	714-0840-65	
	1600	5'	3"	39	1 17/32"	714-1639-65	
	2400	7'	10"	38	1 1/2"	714-2438-65	
	3200	10'	6"	37	1 29/64"	714-3237-65	
	4000	13'	1"	36	1 27/64"	714-4036-65	
	4800	15'	9"	35	1 3/8"	714-4835-65	
	5600	18'	4"	34	1 11/32"	714-5634-65	
	6400	21'	–	33	1 19/64"	714-6433-65	
13	400	1'	4"	34	1 11/32"	714-0434-65	
	800	2'	7"	33	1 19/64"	714-0833-65	
	1200	3'	11"	32	1 1/4"	714-1232-65	
	1600	5'	3"	31	1 7/32"	714-1631	
	2000	6'	7"	30	1 3/16"	714-2030	
16	600	2'	–	35	1 3/8"	714-0635-65	
	1200	3'	11"	34	1 11/32"	714-1234-65	
	1800	5'	11"	33	1 19/64"	714-1833-65	
	2400	7'	10"	32	1 1/4"	714-2432-65	
17	600	2'	–	41	1 5/8"	714-0641-65	
	1200	3'	11"	40	1 37/64"	714-1240-65	
	1800	5'	11"	39	1 17/32"	714-1839-65	
	2400	7'	10"	38	1 1/2"	714-2438-65	
	2000	6'	7"	33	1 19/64"	714-2033-65	
	8000	26'	3"	26	1 1/32"	714-8026-50	
	8800	28'	11"	25	1"	714-8825-5005	
	9600	31'	6"	25	1"	714-9625-5005	
	800	2'	7"	29	1 9/64"	714-0829	
	1600	5'	3"	28	1 7/64"	714-1628-50	
	2400	7'	10"	27	1 1/16"	714-2427-50	

Small hole drilling





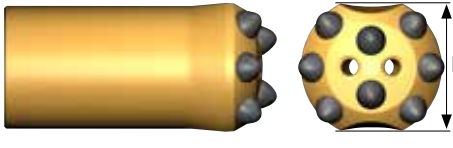

H22 Reaming tools

		Dimensions D					Part No.
		L			D		
		mm	ft	in	mm	in	
Pilot rod, Hex 22, 6° taper							
		800	2'	7 1/2"	26	1 1/32"	7922-6108-11
		1200	3'	11 3/4"	26	1 1/32"	7922-6112-11
		2000	6'	6 3/4"	26	1 1/32"	7922-6120-11
		2400	8'	2 1/2"	26	1 1/32"	7922-6124-11

	Buttons, mm		Angle	Dimensions D		Part No.
	Front No	Size		Gauge No	Size	
Reaming tools for cut holes / Reaming bit, 6° taper						
	4x8	8x9	25°	64	2 1/2"	7722-4864-S48
	4x10	8x10	30°	76	3"	7722-4876-S48
	6x10	8x10	30°	89	3 1/2"	7722-4889-S48

Small hole drilling

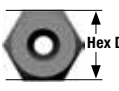
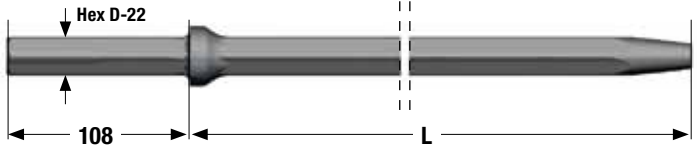
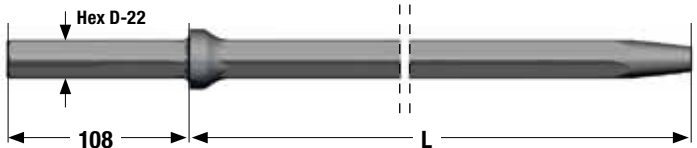
H22 Tapered tools, 12° taper

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in	
Button bit								
	1x5	1x5	1x7	4x7	35°	28	1 1/8"	7795-6428-B48
	1x5	1x5	1x7	4x7	35°	30	1 3/16"	7795-6430-B48
Button bit								
	2x4	1x4	2x7	5x7	40°	32	1 1/4"	7795-5232-B48
	2x4	1x4	2x7	5x8	40°	35	1 3/8"	7795-5235-B48
	2x4	1x4	2x7	5x9	40°	38	1 1/2"	7795-5238-B48
Button bit								
	2x4	1x4	2x7	5x7	40°	33	1 9/64"	7770-5233-B48
	2x4	1x4	2x7	5x8	35°	35	1 3/8"	7770-5235-B48
Button bit								
	1x4	1x6	2x7	5x7	35°	33	1 9/64"	7770-4433-B48
	1x5	1x5	2x7	5x7	35°	35	1 3/8"	7770-4435-B48
Button bit								
	2x4	1x4	6x7	2x7	40°	33	1 9/64"	7770-5433-B48
Cross bit								
	1x4	2x4	—	—	—	30	1 3/16"	7770-9030-42
	1x6	2x4.5	—	—	—	32	1 1/4"	7770-9032-42
	1x6	2x4.5	—	—	—	35	1 3/8"	7770-9035-42

Small hole drilling


H22 Tapered tools, 12° taper


H22 - 12°

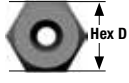
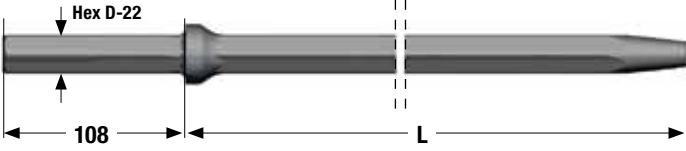
Rods		Dimensions D					Part No.
		L	mm		Hex D		
		mm	ft	in	mm	in	
Tapered rod, shank 22x108, carburized							
		610	2'	–	22	7/8"	7870-6106-11
		1220	4'	–	22	7/8"	7870-6112-11
		1830	6'	–	22	7/8"	7870-6118-11
		2000	6'	7"	22	7/8"	7870-6120-11
		2440	8'	–	22	7/8"	7870-6124-11
		3050	10'	–	22	7/8"	7870-6131-11
		3200	10'	6"	22	7/8"	7870-6132-11
		3660	12'	–	22	7/8"	7870-6137-11
Tapered rod, shank 22x108, HF-hardened - For surface drilling							
		2440	8'	–	22	7/8"	7870-5124-11
		3200	10'	6"	22	7/8"	7870-5132-11
		4000	13'	1 1/2"	22	7/8"	7870-1140-11
		4400	14'	5"	22	7/8"	7870-1144-11
		4800	15'	9"	22	7/8"	7870-1148-11
		5600	18'	4 1/2"	22	7/8"	7870-1156-11
		6400	21'	–	22	7/8"	7870-1164-11
		7200	23'	7 1/2"	22	7/8"	7870-1172-11
	8000	26'	3"	22	7/8"	7870-1180-11	
	8800	28'	10 1/2"	22	7/8"	7870-1188-11	

Small hole drilling

H22 Tapered tools, 11° taper

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in	
Button bit								
	1x6	1x6	2x8	3x9	40°	38	1 1/2"	7776-1938-B48
	1x6	1x6	2x8	3x9	40°	40	1 37/64"	7776-1940-B48


Button bit								
	1x5	1x5	2x7	5x7	40°	32	1 1/4"	7776-4432-B48
	1x5	1x5	2x7	5x8	40°	35	1 3/8"	7776-4435-B48
	1x5	1x5	2x7	5x8	35°	36	1 7/16"	7776-4436-B48
	1x5	1x5	2x7	5x8	35°	38	1 1/2"	7776-4438-B48
	1x6	1x6	2x8	5x9	35°	40	1 37/64"	7776-4440-B48

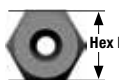

Rods		Dimensions D					Part No.
		L			Hex D		
Tapered rod, shank 22x108, carburized		mm	ft	in	mm	in	
	610	2'	–	22	7/8"	7876-6106-11	
	800	2'	7 1/2"	22	7/8"	7876-6108-11	
	1220	4'	–	22	7/8"	7876-6112-11	
	1600	5'	3"	22	7/8"	7876-6116-11	
	1830	6'	–	22	7/8"	7876-6118-11	
	2000	6'	7"	22	7/8"	7876-6120-11	
	2440	8'	–	22	7/8"	7876-6124-11	
	3050	10'	–	22	7/8"	7876-6131-11	
	3600	11'	9 1/2"	22	7/8"	7876-6136-11	

Small hole drilling

H22 Tapered tools, 7° taper

H22-7°

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in	
Button bit								
	2x5	1x5	2x7	5x7	40°	32	1 1/4"	7788-5232-B48
	2x4	1x4	2x7	5x7	40°	33	1 9/64"	7788-5233-B48
	2x4	1x4	2x7	5x8	40°	35	1 3/8"	7788-5235-B48
	2x4	1x4	2x7	5x8	35°	38	1 1/2"	7788-5238-B48

Rods		Dimensions D					Part No.
		L			Hex D		
Tapered rod, shank 22x108, carburized							
	2400	8'	–	22	7/8"	7888-6124-11	
	3200	10'	6"	22	7/8"	7888-6132-11	

Small hole drilling

Stone working tools

	Dimensions D					Part No.
	L mm	ft	in	D mm	in	
Plug hole integral steel						
	150		6"	17	21/32"	721-1517
	160		6 1/4"	20	25/32"	721-1620
	200		7 7/8"	20	25/32"	721-2020
	240		9 29/64"	20	25/32"	721-2420
	280		11 1/32"	20	25/32"	721-2820
	310		11 1/4"	20	25/32"	721-3120
	160		6 1/4"	22	7/8"	721-1622
	190		7 1/2"	22	7/8"	721-1922

Small hole drilling

R22 (7/8") Extension drilling tools

R22 (7/8")

Cross bit	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in	

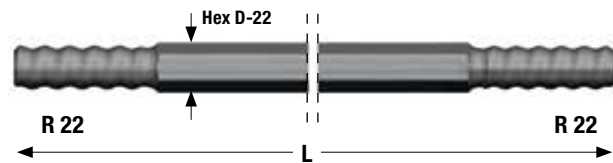
Cross bit



1	4.5	2	4.5	–	38	1 1/2"	7731-1038-42
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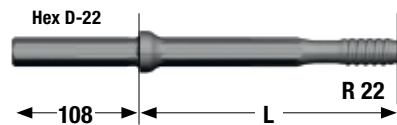
Extension rod R22 - Hex 22 - R22	Hex D	Dimensions D					Part No.
		L mm	ft	in	D mm	in	

Extension rod R22 - Hex 22 - R22



800	2'	7"	22	7/8"	7851-1308-20
1200	3'	11"	22	7/8"	7851-1312-20
1600	5'	3"	22	7/8"	7851-1316-20

Shank adapter/Shank rod, Hex 22 - R22



255	–	10 3/64"	22	7/8"	7801-6103-11
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Coupling sleeve, R22




140	–	5 1/2"	31	1 7/32"	7991-2031
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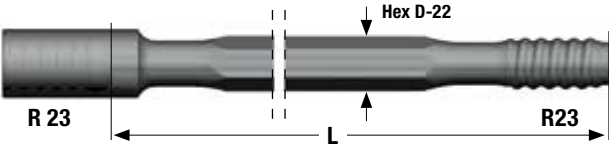
Small hole drilling

R23 (29/32") Extension drilling tools

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
Button bit									
	1x4	1x6	2x7	5x7	35°	33	1 5/16"	HMCA	7737-4433-R48
	1x6	1x6	2x7	5x8	40°	35	1 3/8"	HMCA	7737-5235-R48
	1x6	1x6	2x7	5x8	35°	38	1 1/2"	HMCA	7737-5238A-R48
	1x6	1x6	2x8	5x9	35°	41	1 5/8"	HMCA	7737-5241-R48

Button bit									
	3x5	–	3x8	6x9	30°	45	1 3/4"	HMCA	7737-5345-R48

Rods	Dimensions D					Part No.
	L			Hex D		
	mm	ft	in	mm	in	

MF-rod, R23 - Hex 22 - R23						
	2095	6'	10 1/2"	22	7/8"	7857-4821-20
	3050	10'	–	22	7/8"	7857-4831-20



Female end Ø 31 mm


Shank adapter / Shank rod, Hex 22 - R23						
	255	–	10 3/64"	22	7/8"	7807-6103-11
	800	2'	7"	22	7/8"	7807-6108-11
	1600	5'	3"	22	7/8"	7807-6116-11
	2400	8'	–	22	7/8"	7807-6124-11
	3200	10'	–	22	7/8"	7807-6132-11
	3600	11'	9 5/8"	22	7/8"	7807-6136-11

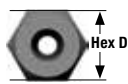

Shank adapter / Shankrod Hex 25 - R 23						
	255	–	10 3/64"	25	1"	7807-7103-30
	3600	11'	9"	25	1"	7807-7136-30

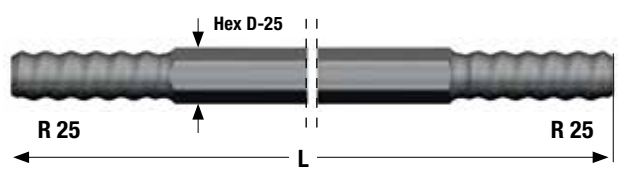
Small hole drilling

R25 (1") Extension drilling tools


Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
Button bit									
	1x4	1x6	2x7	5x8	35°	35	1 3/8"	HMCA	7732-4435-S48 
	1x5	1x6	2x7	5x8	40°	35	1 3/8"	HMCA	7732-5235-R48
	1x6	1x6	2x7	5x9	30°	38	1 1/2"	HMCA	7732-5238-S48
	1x6	1x6	2x7	5x9	35°	38	1 1/2"	HMCA	7732-5238-R48
	1x6	1x6	2x8	5x9	35°	41	1 5/8"	HMCA	7732-5241-S48
	1x6	1x6	2x8	5x9	35°	41	2 5/8"	HMCA	7732-5241-R48

Button bit									
	3x4.5	–	3x8	6x9	40°	45	1 3/4"	MSCFAN	7732-5345F-R48

Rods		Dimensions D					Part No.
		L mm	ft	in	Hex D mm	in	
Shank adapter / rod, Hex 22 x R25							
	255	–	10 3/64"	22	7/8"	7802-6103-11	
	800	2'	7"	22	7/8"	7802-6108-11	
	1000	3'	3"	22	7/8"	7802-6110-11	

Extension rod, R25 - Hex 25 - R25						
	915	3'	–	25	1"	7852-2309-20
	1220	4'	–	25	1"	7852-2312-20
	1525	5'	–	25	1"	7852-2315-20
	1830	6'	–	25	1"	7852-2318-20
	2435	8'	–	25	1"	7852-2324-20
	3050	10'	–	25	1"	7852-2331-20

Coupling sleeve, R25						
	160	–	6 1/4"	35	1 3/8"	7992-2035

 – For one-rod drilling

Small hole drilling

Sandvik Alpha. α 250 bit thread

α 250

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		

Button bit



1x6	1x6	2x7	5x9	35°	38	1 1/2"	HMCA	7764-5238-R48
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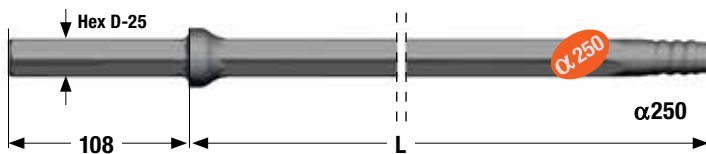
Button bit



3x4.5	-	3x8	6x9	40°	45	1 3/4"	MSCFAN	7764-5345F-R48
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Rods		Dimensions D					Part No.
		L			Hex D		
		mm	ft	in	mm	in	

Shank rod, Hex 25 - α 250





3600	11'	9 5/8"	25	1"	7814-7136-30
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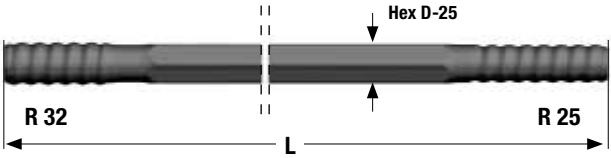
Drifting and Tunneling

R25 (1") bit thread

R25 (1")

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
Button bit, type 52									
	1x4,5	1x6	2x7	5x7	45°	33	1 5/16"	HMCA	7732-4433C-S48
	1x5	1x6	2x7	5x9	30°	35	1 3/8"	HMCA	7732-4435-S48
	1x5	1x6	2x7	5x9	30°	37	7/16"	HMCA	7732-4437C-S48
	1x6	1x6	2x7	5x9	30°	38	1 1/2"	HMCA	7732-5238-S48
	1x6	1x6	2x7	5x9	35°	38	1 1/2"	MCAN	7732-5238-R48
	1x6	1x6	2x8	5x9	35°	41	1 5/8"	HMCA	7732-5241-S48

Cross bit									
	1x5	2x5				35	1 3/8"	-	7732-1435-42

Rods		Dimensions D					Part No.
		L mm	ft	in	D mm	in	
Drifter rod, R32 - Hex 25 - R25							
 <p>Flushing hole \varnothing 8,6 mm</p>	1870	6'	1 5/8"	25	1"	7853-2418-20	
	2175	7'	1 5/8"	25	1"	7853-2421-20	
	2475	8'	1 1/2"	25	1"	7853-2424-20	
	2630	8'	7 1/2"	25	1"	7853-2426-20	
	2785	9'	1 5/8"	25	1"	7853-2427-20	
	2935	9'	7 1/2"	25	1"	7853-2429-20	
	3090	10'	1 5/8"	25	1"	7853-2431-20	
	3340	10'	11 1/2"	25'	1"	7853-2433-20	
	3700	12'	1 5/8"	25'	1"	7853-2437-20	

Coupling sleeve, R32						
	150		5 29/32"	44	1 47/64"	7993-3644

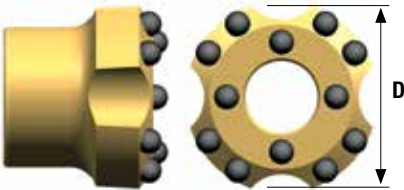
Drifting and Tunneling

R25 (1") reaming tools

	Thread	Dimensions D					Part No.
		L mm	ft	in	D mm	in	
Reaming tools for cut holes / Pilot adapter, 6° taper							
	R25	-	-	-	26	1 1/32"	7822-2526



	Buttons, mm		Angle	Dimensions D		Part No.
	Front No Size	Gauge No Size		mm	in	
Reaming tools for cut holes / Reaming bit, 6° taper						




4x8	8x9	25°	64	2 1/2"	7722-4864-S48
4x10	8x10	30°	76	3"	7722-4876-S48
6x10	8x12	35°	89	3 1/2"	7722-4889-S48

Drifting and Tunneling

R28 (1 1/8") bit thread


R28 (1 1/8")

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		

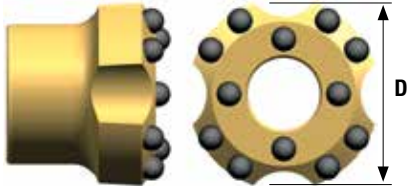
Button bit, type 52									
	1x5	1x6	2x7	5x9	30°	37	7/16"	HMCA	7739-5237-S48
	1x6	1x6	2x7	5x9	35°	38	1 1/2"	MCAN	7739-5238-R48
	1x6	1x6	2x7	5x9	30°	38	1 1/2"	HMCA	7739-5238-S48
	1x6	1x6	2x8	5x9	35°	41	1 5/8"	HMCA	7739-5241-S48
	1x6	1x6	2x8	5x10	30°	43	1 11/16"	HMCA	7739-5243-S48

Cross bit									
	1x5	2x5	-	-		38	1 1/2"		7739-1438-42

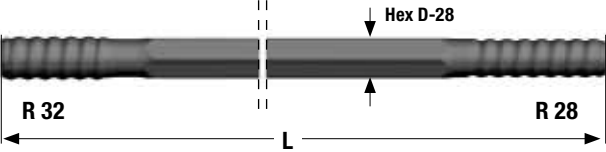
Reaming tools	Thread	Dimensions D					Part No.
		L mm	ft	in	D mm	in	

Reaming tools for cut holes / Pilot adapter, 6° taper							
	R28	-	-	-	26	1 1/32"	7822-1526

Reaming tools for cut holes / Reaming bit, 6° taper	Buttons, mm		Angle	Dimensions D		Part No.
	Front No Size	Gauge No Size		mm	in	

	4x8	8x9	25°	64	2 1/2"	7722-4864-S48
	4x10	8x10	30°	76	3"	7722-4876-S48
	6x10	8x12	35°	89	3 1/2"	7722-4889-S48

Rods		Dimensions D					Part No.
		L mm	ft	in	D mm	in	

Drifter rod, R32 - Hex 28 - R28						
	2475	8'	1 1/2"	28	1 1/8"	7853-7624-20
	2785	9'	1 5/8"	28	1 1/8"	7853-7627-20
	3090	10'	1 5/8"	28	1 1/8"	7853-7631-20
	3700	12'	1 5/8"	28	1 1/8"	7853-7637-20
	4305	14'	1 1/2"	28	1 1/8"	7853-7643-20

Flushing hole \varnothing 8,8 mm

Coupling sleeve, R32						
	150		5 29/32"	44	1 47/64"	7993-3644

Drifting and Tunneling

R32 (1 1/4") bit thread

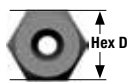
Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
Button bit, type 52									
	1x5	2x6	2x9	5x10	35°	43	1 11/16"	HMCVA	7733-5243A-S48
	1x5	2x6	2x9	5x11	30°	45	1 3/4"	HMCVA	7733-5245A-S48
	1x6	2x7.5	2x9	5x11	35°	48	1 7/8"	HMCVA	7733-5248A-S48
	1x6	2x7.5	2x10	5x12	35°	51	2"	HMCVA	7733-5251A-S48
Button bit, type 54									
	2x6	2x6	2x9	6x9	40°	43	1 11/16"	MSCAN	7733-5443B-R48
	2x6	2x6	2x9	6x10	35°	45	1 3/4"	MSCAN	7733-5445B-R48
Button bit, type 53/16									
	3x4.5	1x4.5	3x8	6x9	30°	43	1 11/16"	MSCAN	7733-5343A-R48
	3x4.5	1x5	3x8	6x10	25°	45	1 3/4"	HMCAN	7733-5345A-S48
	3x4.5	1x5	3x8	6x10	30°	45	1 3/4"	MSCAN	7733-5345A-R48
	3x5	1x5	3x9	6x10	30°	48	1 7/8"	HMCAN	7733-5348A-S48
	3x5	1x5	3x9	6x10	30°	48	1 7/8"	HMCAN	7733-5348A-R48
	3x6	1x6	3x9	6x10	35°	51	2"	MSCAN	7733-1651A-S48
	3x6	1x6	3x9	6x10	40°	51	2"	MSCAN	7733-1651A-R48
	3x6	1x6	3x10	6x11	35°	57	2 1/4"	HMCA	7733-1657A-S48
	3x7	-	3x11	6x12	30°	64	2 1/2"	HMCVA	7733-1664-S48
Button bit, type 55									
	3x5.5	3x5.5	3x9	3x9	40°	45	1 3/4"	SCFN	7733-5545A-C60
	3x6	1x6	3x9	6x10	40°	51	2"	SCFN	7733-5551A-C60
Button bit, type 18									
	4x7	-	5x11	8x12	35°	76	3"	HMCVA	7733-1876-S48
Cross bit									
	1x5	4x6	-	-	-	45	1 3/4"		7733-1345A-42

Drifting and Tunneling

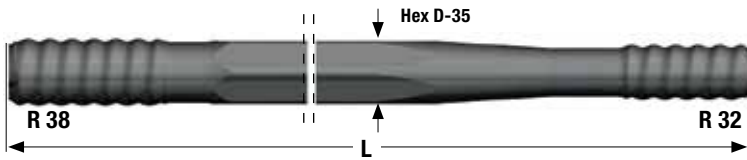
R32 (1 1/4") bit thread

R32 (1 1/4")

Rods	Dimensions D					Part No.
	L mm	ft	in	D mm	in	



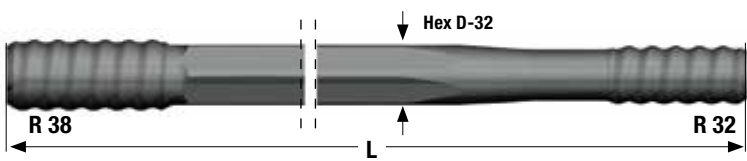
Drifter rod, R38 - Hex 35 - R32



3090	10'	1 5/8"	35	1 3/8"	7854-9631-20
3700	12'	1 5/8"	35	1 3/8"	7854-9637-20
4305	14'	1 1/2"	35	1 3/8"	7854-9643-20
4915	16'	1 1/2"	35	1 3/8"	7854-9649-20
5525	18'	1 1/2"	35	1 3/8"	7854-9655-20

Flushing hole \varnothing 9,5 mm

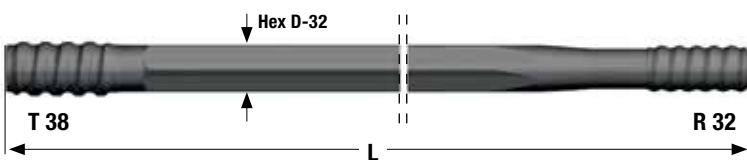
Drifter rod, R38 - Hex 32 - R32



3090	10'	1 5/8"	32	1 1/4"	7854-8631-20
3700	12'	1 5/8"	32	1 1/4"	7854-8637-20
4305	14'	1 1/2"	32	1 1/4"	7854-8643-20
4915	16'	1 1/2"	32	1 1/4"	7854-8649-20

Flushing hole \varnothing 9,6 mm

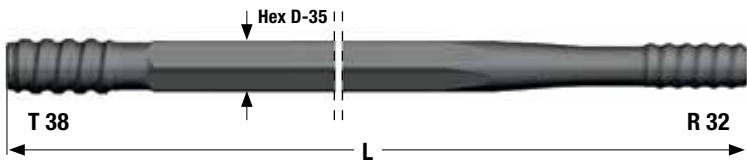
Drifter rod, T38 - Hex 32 - R32



3700	12'	1 5/8"	32	1 1/4"	7324-8637-20
4305	14'	1 1/2"	32	1 1/4"	7324-8643-20

Flushing hole \varnothing 9,6 mm

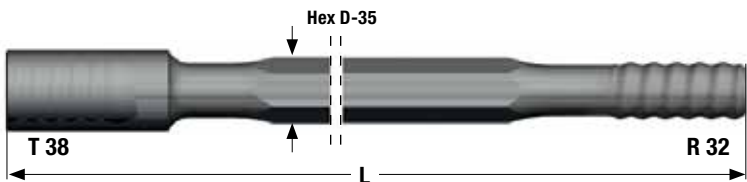
Drifter rod, T38 - Hex 35 - R32



3090	10'	1 5/8"	35	1 3/8"	7324-9631-20
3700	12'	1 5/8"	35	1 3/8"	7324-9637-20
4305	14'	1 1/2"	35	1 3/8"	7324-9643-20
4915	16'	1 1/2"	35	1 3/8"	7324-9649-20
5525	18'	1 1/2"	35	1 3/8"	7324-9655-20
6135	20'	1 1/2"	35	1 3/8"	7324-9661-20
6440	21'	1 1/2"	35	1 3/8"	7324-9664-20

Flushing hole \varnothing 9,5 mm

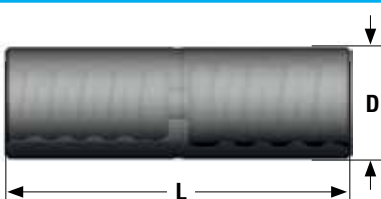
MF Drifter rod, T38 - Hex 35 - R32



3700	12'	1 1/2"	35	1 3/8"	7324-6537-20
4305	14'	1 1/2"	35	1 3/8"	7324-6543-20

Flushing hole \varnothing 9,5 mm

Coupling sleeve



R38	170	-	6 3/4"	55	2 5/32"	7994-3655
T38	191	-	7 1/2"	52	2"	7314-3652

Drifting and Tunneling

R32 (1 1/4") reaming tools

Pilot adapters 6°, 12° taper	Thread	Dimensions D					Part No.
		L mm	ft	in	D mm	in	

Reaming tools for cut holes / Pilot adapter, 6° taper



R32	-	-	-	26	1 1/32"	7822-3526
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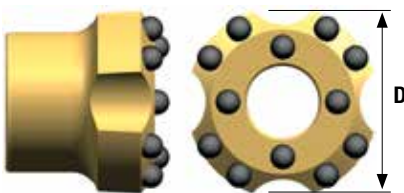
Reaming tools for cut holes / Pilot adapter, 12° taper



R32	-	-	-	40	1 37/64"	7821-3440
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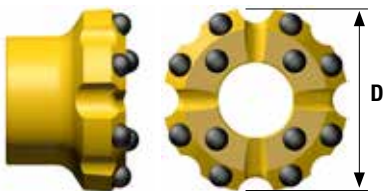
Reaming bit 6°, 12° taper	Buttons, mm		Angle	Dimensions D		Part No.
	Front No Size	Gauge No Size		mm	in	

Reaming tools for cut holes / Reaming bit, 6° taper



4x8	8x9	25°	64	2 1/2"	7722-4864-S48
4x10	8x10	30°	76	3"	7722-4876-S48
6x10	8x12	35°	89	3 1/2"	7722-4889-S48

Reaming tools for cut holes / Reaming bit, 12° taper



4x10	8x12	35°	89	3 1/2"	7721-4889-S48
4x13	8x13	35°	102	4"	7721-4802-S48
8x13	8x13	35°	127	5"	7721-4827-S48

Reaming bit	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Part No.
	Front No Size	Gauge No Size	Pilot No Size	Gauge No Size		mm	in	

Reaming tools for cut holes / Reaming bit, R32



4x6	-	3x10	12x13	35°	102	4"	7733-5602P-S48
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Drifting and Tunneling

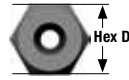
Sandvik Alpha. α 330 bit thread

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
Button bit, type 52									
	1x5	1x7.5	2x9	6x10	35°	43	1 11/16"	HMCVA	7767-5243A-S48
	1x5	1x7.5	2x9	5x11	30°	45	1 3/4"	HMCVA	7767-5245A-S48
	1x6	2x7.5	2x9	5x11	35°	48	1 7/8"	HMCVA	7767-5248A-S48
Button bit, type 54									
	2x6	2x6	2x9	6x9	40°	43	1 11/16"	MSCAN	7767-5443B-R48
	2x6	2x6	2x9	6x10	35°	45	1 3/4"	MSCAN	7767-5445B-R48
Button bit, type 53/16									
	3x4.5	1x4.5	3x8	6x9	30°	43	1 11/16"	MSCAN	7767-5343A-R48
	3x4.5	1x5	3x8	6x10	30°	45	1 3/4"	MSCAN	7767-5345A-R48
	3x4.5	1x5	3x8	6x10	25°	45	1 3/4"	HMCAN	7767-5345A-S48
	3x5	1x5	3x9	6x10	30°	48	1 7/8"	MSCAN	7767-5348A-R48
	3x5	1x5	3x9	6x10	30°	48	1 7/8"	HMCAN	7767-5348A-S48
	3x6	1x6	3x9	6x10	40°	51	2"	MSCAN	7767-1651A-R48
	3x6	1x6	3x9	6x10	35°	51	2"	HMCAN	7767-1651A-S48
	3x7	-	3x11	6x12	30°	64	2 1/2"	HMCAN	7767-1664-S48
Button bit, type 18									
	4x7	-	5x10	8x11	35°	76	3"	HMCAN	7767-1876-S48
Button bit, Retrac									
	3x6	-	3x9	6x10	35°	51	2"	HMCAN	7767-4651A-S48
Cross bit									
	1x5	4x6				45	1 3/4"		7767-1345A-42

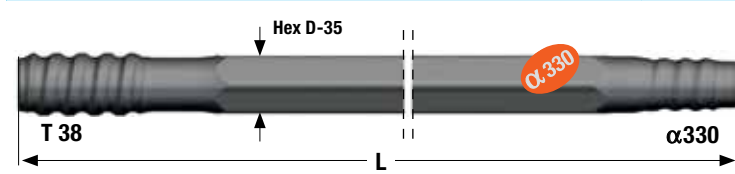
Drifting and Tunneling

Sandvik Alpha. α 330 bit thread

Rods	Dimensions D					Part No.
	L mm	ft	in	D mm	in	



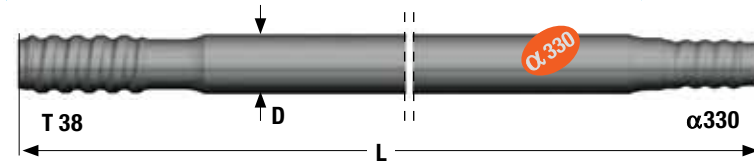
Drifter rod, T38 - Hex 35 - α 330



Flushing hole \varnothing 9,5 mm

3090	10'	1 5/8"	35	1 3/8"	7324-6731-20
3700	12'	1 5/8"	35	1 3/8"	7324-6737-20
4305	14'	1 1/2"	35	1 3/8"	7324-6743-20
4915	16'	1 1/2"	35	1 3/8"	7324-6749-20
5525	18'	1 1/2"	35	1 3/8"	7324-6755-20

Drifter rod, T38 - Round 39 - α 330



Flushing hole \varnothing 10,3 mm

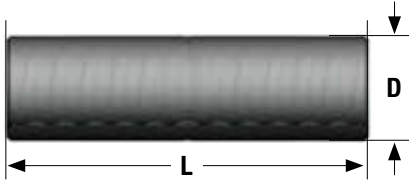
4915	16'	1 1/2"	39	1 1/2"	7324-7049-20
5525	18'	1 1/2"	39	1 1/2"	7324-7055-20
6135	20'	1 1/2"	39	1 1/2"	7324-7061-20
6440	21'	1 1/2"	39	1 1/2"	7324-7064-20

Drifting and Tunneling

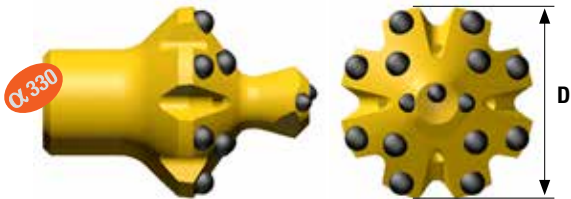
Sandvik Alpha. α 330 bit thread

α330

Coupling Sleeves	Dimensions D					Part No.
	L mm	ft	in	D mm	in	
Coupling sleeve, T38	191	-	7 1/2"	52	2"	7314-3652



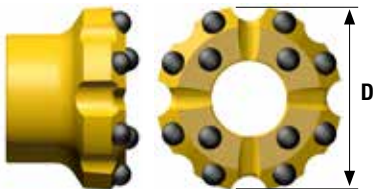
Reaming bit	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Part No.
	Front No Size	Gauge No Size	Pilot No Size	Gauge No Size		mm	in	
Reaming tools for cut holes / Reaming bit, α 330	2x6	2x6	3x10	12x13	35°	102	4"	7767-5602P-S48



Pilot adapter 12° taper	Thread	Dimensions D				Part No.	
		L mm	ft	in	D mm		in
Reaming tools for cut holes / Pilot adapter, 12° taper	α 330	-	-	-	40	1 37/64"	7821-6740




Reaming bit 12° taper	Buttons, mm		Angle	Dimensions D		Part No.
	Front No Size	Gauge No Size		mm	in	
Reaming tools for cut holes / Reaming bit, 12° taper	4x10	8x12	35°	89	3 1/2"	7721-4889-S48
	4x13	8x13	35°	102	4"	7721-4802-S48
	8x13	8x13	35°	127	5"	7721-4827-S48





Drifting and Tunneling

R35 (1 3/8") bit thread

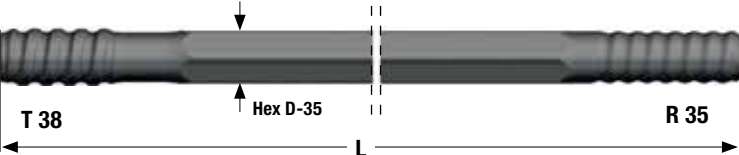
Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		

Button bit, type 53/16									
	3x5	1x5	3x9	6x10	30°	48	1 7/8"	HMCAN	7738-5348A-S48
	3x5	1x5	3x9	6x10	30°	48	1 7/8"	MSCAN	7738-5348A-R48

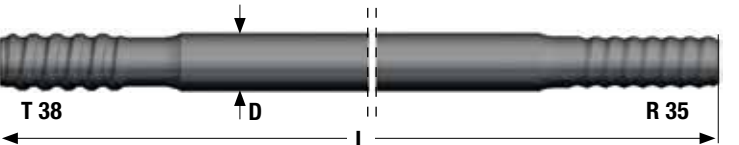
	3x6	1x6	3x9	6x10	35°	51	2"	HMCAN	7738-1651A-S48
	3x6	1x6	3x9	6x10	40°	51	2"	MSCAN	7738-1651A-R48

Cross bit									
	1x5	2x7.5	-	-	-	48	1 7/8"	-	7738-1448-42

Rods	Dimensions D					Part No.
	L mm	ft	in	D mm	in	

Drifter rod, T38 - Hex 35 - R35						
	4305	14'	1 1/2"	35	1 3/8"	7324-8543-20
	4915	16'	1 1/2"	35	1 3/8"	7324-8549-20
	5525	18'	1 1/2"	35	1 3/8"	7324-8555-20

Flushing hole \varnothing 9,5 mm

Drifter rod, T38 - Round 39 - R35						
	4305	14'	1 1/2"	39	1 1/2"	7324-7243-20
	4915	16'	1 1/2"	39	1 1/2"	7324-7249-20
	5525	18'	1 1/2"	39	1 1/2"	7324-7255-20
	6135	20'	1 1/2"	39	1 1/2"	7324-7261-20

Flushing hole \varnothing 14,5 mm

Drifter rod, T38 - Round 39 - R35						
	191	-	7 1/2"	52	2"	7314-3652

R35 (1 3/8")

Drifting and Tunneling

R35 (1 3/8") bit thread

R35 (1 3/8")

Reaming bit	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Part No.
	Front No Size	Gauge No Size	Pilot No Size	Gauge No Size		mm	in	

Reaming tools for cut holes / Reaming bit, R35



2x6	2x6	3x10	12x13	35°	102	4"	7738-5602P-S48
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Pilot adapter 12° taper	Thread	Dimensions D					Part No.
		L mm	ft	in	D mm	in	

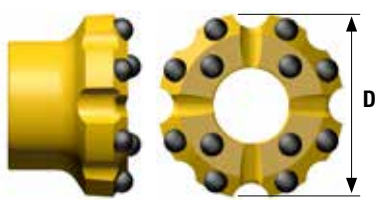
Reaming tools for cut holes / Pilot adapter, 12° taper



R35	-	-	-	-	40	1 37/64"	7821-5440
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Reaming bit 12° taper	Buttons, mm		Angle	Dimensions D		Part No.
	Front No Size	Gauge No Size		mm	in	

Reaming tools for cut holes / Reaming bit, 12° taper



4x10	8x12	35°	89	3 1/2"	7721-4889-S48
4x13	8x13	35°	102	4"	7721-4802-S48
8x13	8x13	35°	127	5"	7721-4827-S48

Drifting and Tunneling

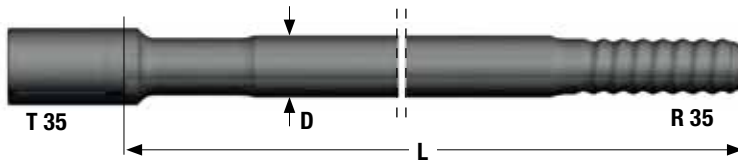
Sandvik Extra. R35 (I 3/8") bit thread

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
Button bit, Retrac R35									
	3x6	1x5	3x9	3x10	30°	54	2 1/5"	MSCFAN	7738-4654A1-R48



Rods	Dimensions D					Part No.
	L mm	ft	in	D mm	in	

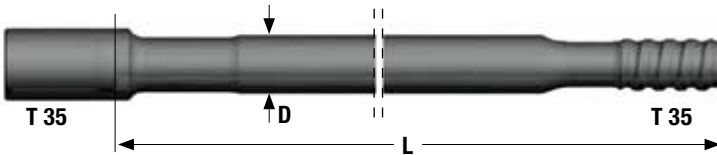
Drifter rod, T35 - Round 39 - R35



4305	14'	1 1/2"	39	1 1/2"	7327-5243-20
4915	16'	1 1/2"	39	1 1/2"	7327-5249-20
5525	18'	1 1/2"	39	1 1/2"	7327-5255-20
6135	20'	1 1/2"	39	1 1/2"	7327-5261-20

Flushing hole Ø 14,5 mm, Female end Ø 48,2 mm

Drifter Extension rod, T35 - Round 39 - T35



3050	10'	–	39	1 1/2"	7327-4731-20
3660	12'	–	39	1 1/2"	7327-4737-20
4265	14'	–	39	1 1/2"	7327-4743-20
4875	16'	–	39	1 1/2"	7327-4749-20

Flushing hole Ø 14,5 mm, Female end Ø 48,2 mm

Drifting and Tunneling

Sandvik drifter bits

Sandvik bits for drifting and tunneling are available in four basic designs



Type 52

Designed for maximum bit life in hard and abrasive rock



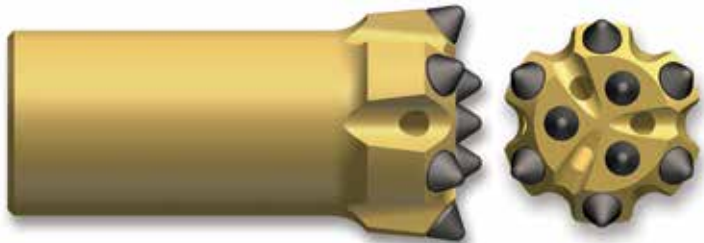
Type 53

All-round design with a good trade off between speed and bit life length for hard to medium hard rock



Type 54

All-round design with high penetration rate for hard to medium hard rock



Type 55

Designed for maximum penetration rate in softer and less abrasive rock formations



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The right solutions for increased productivity

A Sandvik T35 tool system enables 54 or 57 mm holes to be drilled using the same stiffer rod dimension as for T38.

Sandvik GT60 enables drilling of holes down to 92 mm. By using a GT60 tool system when drilling the typical T51 hole size (102 mm), hole straightness can be greatly improved – thanks to the much stiffer and stable rod package.

A drill string with Sandvik MF-rods offers stiffer connections than a string with separate coupling sleeves due to the 50% reduction in thread play.

BENEFITS WITH SANDVIK TOOLS IN BENCH DRILLING

- Reduced consumption of explosives, which accounts for 40–50% of the total drilling and blasting cost.
 - Longer service life of drill steel components reducing the drilling tool cost.
 - Improved safety – better blasting control.
 - Less downtime – improved productivity.
 - Less hole deviation which gives more well balanced fragmentation and thereby higher productivity in crushers.
 - Using Sandvik rock tools gives a lowered total operating cost.
-

Bench drilling

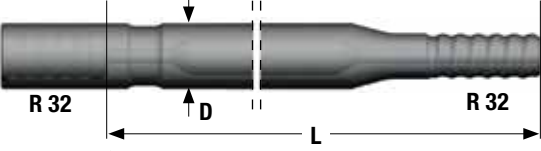
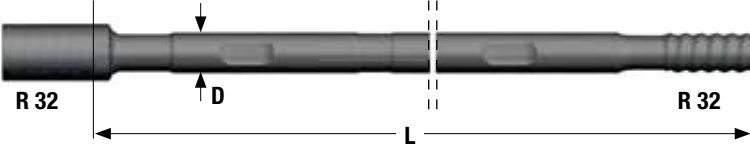
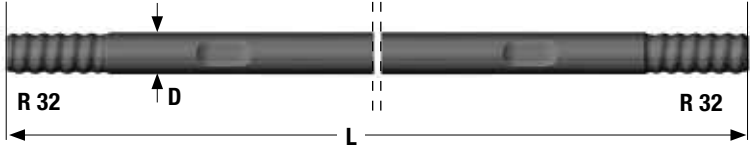

R32 (1 1/4")

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
Button bit, regular skirt									
	3x6	1x6	3x9	6x10	35°	51	2"	HMCA	7733-1651A-S48
	3x6	1x6	3x9	6x10	40°	51	2"	MSCAN	7733-1651A-R48
	3x6	1x6	3x10	6x11	35°	57	2 1/4"	HMCA	7733-1657A-S48
	3x7	–	3x11	6x12	30°	64	2 1/2"	HMCVA	7733-1664-S48
	4x7	–	5x11	8x12	35°	76	3"	HMCVA	7733-1876-S48
	3x6	1x6	3x9	6x10	40°	51	2"	SCFN	7733-5551A-C60
	3x6	1x6	3x10	6x10	40°	57	2 1/4"	SCFN	7733-5557A-C60
	3x8	1x8	3x10	6x11	40°	64	2 1/2"	SCFN	7733-5564A-C60
Button bit, Retrac									
	3x6	–	3x9	6x10	35°	51	2"	HMCFA	7733-4651-S48
	3x6	–	3x9	6x10	35°	51	2"	MSCFAN	7733-4651-R48
	4x7	–	5x9	8x10	30°	64	3 1/2"	HMCFVA	7733-4864-S48
Cross bit									
	1x5	2x7.5	–	–	–	51	2"	HMCFA	7733-1451-42

R32 (1 1/4")

Bench drilling

R32 (1 1/4")


Rods	Dimensions D						Part No.
	Bit dia. mm	L mm	ft	in	D mm	in	
Guide tube							
 <p>Female end Ø 46 mm</p>	51-64	1830	6'	-	46	1 3/4"	7953-4618-20
MF-rod, R32 - round 32 - R32							
 <p>Flushing hole Ø 9.2 mm. Wrench flat 25.4 mm. Female end Ø 45 mm</p>	3050	10'	-	-	32	1 1/4"	7853-5131-20
	3660	12'	-	-	32	1 1/4"	7853-5137-20
Extension rod, R32 - round 32 - R32							
 <p>Flushing hole Ø 11.7 mm. Wrench flat 25.4 mm</p>	2440	8'	-	-	32	1 1/4"	7853-3324-30
	3050	10'	-	-	32	1 1/4"	7853-3331-30
	3660	12'	-	-	32	1 1/4"	7853-3337-30
Coupling sleeve R32							
	150	-	5 29/32"	-	44	1 47/64"	7993-3644

Bench drilling


T35 (1 3/8")

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		

Button bit, regular skirt

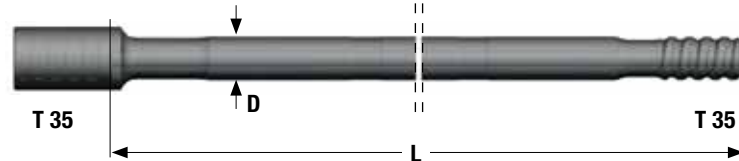
	3x6	1x6	3x9	6x10	35°	54	2 1/2"	HMCFVAN	7517-1654A-S48
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Button bit, Retrac

	3x6	–	3x9	6x10	35°	54	2 1/6"	MSCFAN	7517-4654-R48
	3x7	–	3x10	6x11	35°	57	2 1/4"	MSCFAN	7517-4657-R48

Rods	Dimensions D					Part No.
	L mm	ft	in	D mm	in	

MF-rod, T35 - round 39 - T35

	3050	10'	-	39	1 1/2"	7327-4731-20
	3660	12'	-	39	1 1/2"	7327-4737-20

Female end Ø 48,2 mm. Flushing hole Ø 14,5 mm

Bench drilling

T38 (1 1/2")

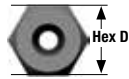
Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
Button bit, regular skirt									
	3x8	–	3x11	6x12	30°	64	2 1/2"	HMCVAN	7514-1664-S48
	3x8	–	3x11	6x12	35°	64	2 1/2"	MSCAN	7514-1664-R48
	4x8	–	5x10	8x11	30°	70	2 3/4"	HMCVAN	7514-1870-S48
	4x8	–	5x11	8x12	35°	76	3"	HMCVAN	7514-1876-S48
	4x8	–	5x11	8x11	40°	76	3"	MSCAN	7514-1876-R48
	4x9	–	5x12	8x12	35°	89	3 1/2"	HMCVAN	7514-1889-S48
	2x11	1x6	4x10	8x10	30°	64	2 1/2"	HMCAN	7514-2664A-S48
	2x11	1x6	6x10	8x11	35°	76	3"	HMCAN	7514-2676A-S48
	3x8	1x8	3x10	6x11	40°	64	2 1/2"	SCFN	7514-5564A-C60
	4x8	1x8	4x10	8x11	40°	76	3"	SCFN	7514-5576A-C60
Button bit, Retrac									
	3x8	–	3x11	6x12	30°	64	2 1/2"	HMCVFAN	7514-4664-S48
	4x8	–	5x9	8x10	35°	64	2 1/2"	MSCFAN	7514-4864-R48
	4x8	–	5x10	8x11	30°	70	2 3/4"	HMCVFAN	7514-4870-S48
	4x8	–	5x11	8x12	35°	76	3"	HMCVFAN	7514-4876-S48
	4x8	–	5x11	8x11	35°	76	3"	MSCFAN	7514-4876-R48
	2x10	1x6	4x10	8x10	30°	64	2 1/2"	HMCVFAN	7514-7864A-S48
	2x11	1x6	6x10	8x11	35°	76	3"	HMCVFAN	7514-7876A-S48
X bit									
	1x7.5	2x7.5	–	–	–	64	2 1/2"	–	7514-4064-11

T38 (1 1/2")

Bench drilling

T38 (1 1/2")

Rods

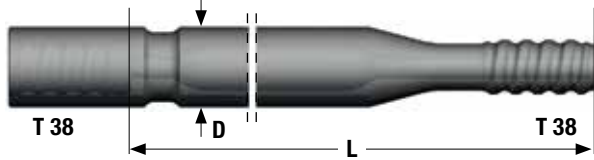


Dimensions D

Bit dia.	L	ft	in	D	in
mm	mm			mm	

Part No.

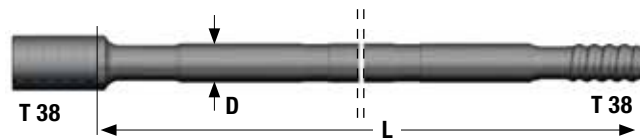
Guide tube



64-76	3660	12'	–	56	2 13/64"	7955-5637-20
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Female end OD 56 mm

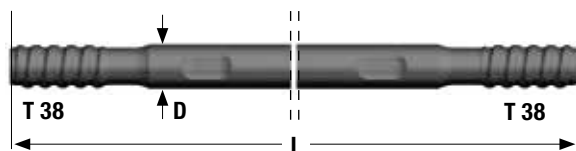
MF-rod, T38 - round 39 - T38



3050	10'	–		39	1 1/2"	7324-4731-70
3660	12'	–		39	1 1/2"	7324-4737-70
4265	14'	–		39	1 1/2"	7324-4743-70

Flushing hole \varnothing 14.5 mm. Female end OD 56 mm

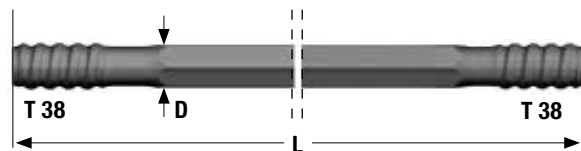
Extension rod, T38 - round 39 - T38



3050	10'	–		39	1 1/2"	7324-4331C-30
3660	12'	–		39	1 1/2"	7324-4337C-30

Flushing hole \varnothing 14.5 mm. Wrench flat 32 mm

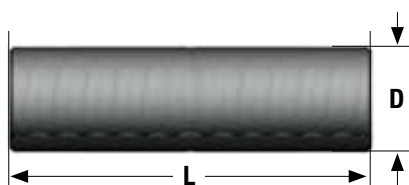
Light extension rod, T38 - Hex 32 - T38



3050	10'	–		32	1 1/4"	7324-6931-20
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Flushing hole \varnothing 9.6 mm

Coupling sleeve T38



191	–	7 1/2"		55	2 5/32"	7314-3355
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Bench drilling

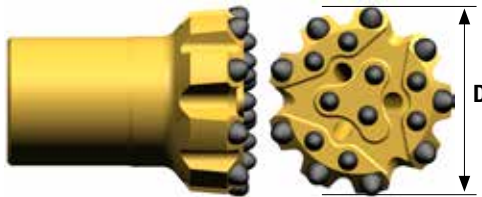
T45 (1 3/4")

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		

Button bit, regular skirt



4x8	–	5x10	8x11	30°	70	2 3/4"	HMCVAN	7515-1870-S48
4x8	–	5x11	8x12	35°	76	3"	HMCVAN	7515-1876-S48
4x8	–	5x11	8x12	35°	76	3"	MSCAN	7515-1876-R48
4x9	–	5x13	8x13	35°	89	3 1/2"	HMCVAN	7515-1889-S48
4x9	–	5x13	8x13	40°	89	3 1/2"	HMCAN	7515-1889-R48



3x10	–	9x11	9x13	35°	102	4"	HMCVAN	7515-1902-S48
3x10	–	9x11	9x13	40°	102	4"	MSCAN	7515-1902-R48



2x12	1x7.5	6x10	8x11	35°	76	3"	HMCAN	7515-2676A-S48
3x10	1x7.5	6x10	9x11	35°	89	3 1/2"	HMCAN	7515-2689A-S48

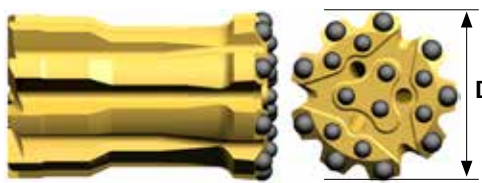


4x8	1x8	4x10	8x11	40°	76	3"	SCFN	7515-5576A-C60
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Button bit, Retrac



4x8	–	5x10	8x11	35°	70	2 3/4"	MSCFAN	7515-4870-R48
4x8	–	5x11	8x12	35°	76	3"	HMCVFAN	7515-4876-S48
4x8	–	5x11	8x12	35°	76	3"	MSCFAN	7515-4876-R48
4x9	–	5x13	8x13	35°	89	3 1/2"	HMCVFAN	7515-4889-S48
4x9	–	5x13	8x13	40°	89	3 1/2"	MSCFAN	7515-4889-R48



3x10	–	9x11	9x13	35°	102	4"	HMCVFAN	7515-4902-S48
3x10	–	9x11	9x13	40°	102	4"	MSCFAN	7515-4902-R48



2x11	1x6	6x10	8x11	35°	76	3"	HMCVFAN	7515-7876A-S48
3x10	1x8	6x10	9x11	35°	89	3 1/2"	HMCVFAN	7515-7889A-S48

Bench drilling

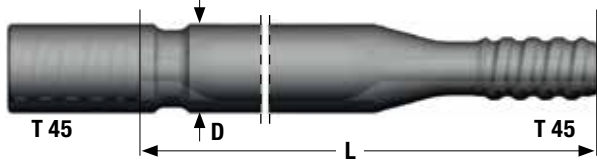
T45 (1 3/4")

T45 (1 3/4")

Rods	Dimensions D					Part No.
	Bit dia. mm	L mm	ft	in	D mm	

Guide tube

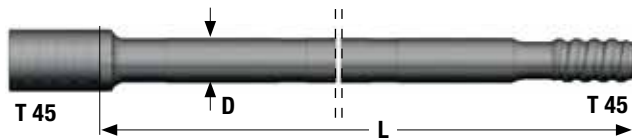
76-89	3660	12'	–	63	2 1/2"	7956-6337-70
89-102	3660	12'	–	76	3"	7956-7637-70



Female end \varnothing 63 mm / 76 mm

MF-rod, T45 - round 46 - T45

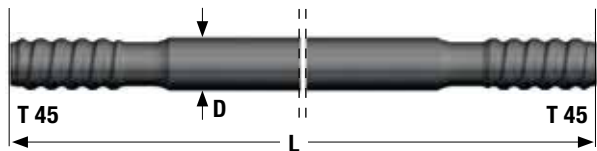
3050	10'	–	46	1 3/4"	7325-7731-70
3660	12'	–	46	1 3/4"	7325-7737-70
4265	14'	–	46	1 3/4"	7325-7743-70
6095	20'	–	46	1 3/4"	7325-7761-70



Flushing hole \varnothing 17 mm. Female end \varnothing 63 mm

Extension rod, T45 - round 46 - T45

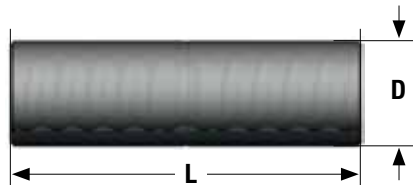
3050	10'	–	46	1 3/4"	7325-7331C-30
3660	12'	–	46	1 3/4"	7325-7337C-30
4265	14'	–	46	1 3/4"	7325-7343C-30



Flushing hole \varnothing 17 mm

Coupling sleeve T45

210	–	8 1/8"	63	2 31/64"	7315-3663
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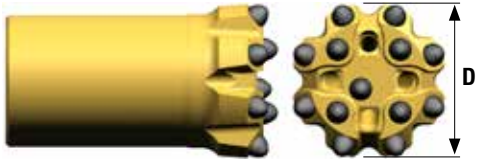


Bench drilling

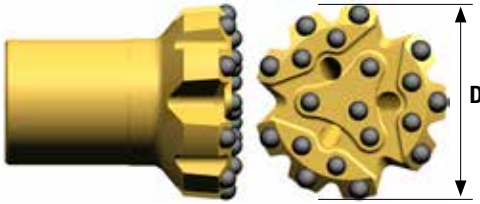
T51 (2")

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		

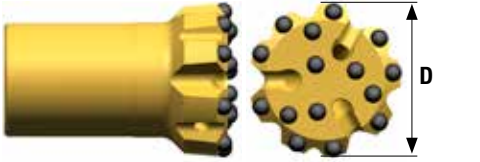
Button bit, regular skirt



4x10	–	5x13	8x13	35°	89	3 1/2"	HMCVAN	7516-1889-S48
4x10	–	5x13	8x13	40°	89	3 1/2"	MSCAN	7516-1889-R48



3x13	–	9x11	9x13	40°	102	4"	MSCAN	7516-1902-R48
3x13	–	9x11	9x13	35°	102	4"	HMCVAN	7516-1902-S48
3x14	–	10x12	9x14	35°	115	4 1/2"	HMCVAN	7516-1915-S48
3x14	–	10x13	9x14	35°	127	5"	HMCVAN	7516-1927-S48

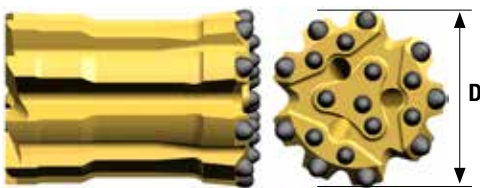


3x12	1x8	6x10	9x11	35°	89	3 1/2"	HMCAN	7516-2689A-S48
3x12	1x8	6x12	9x12	35°	102	4"	HMCAN	7516-2602A-S48

Button bit, Retrac



4x10	–	5x13	8x13	35°	89	3 1/2"	HMCVFAN	7516-4889-S48
4x10	–	5x13	8x13	40°	89	3 1/2"	MSCFAN	7516-4889-R48



3x13	–	9x11	9x13	40°	102	4"	MSCFAN	7516-4902-R48
3x13	–	9x11	9x13	35°	102	4"	HMCVFAN	7516-4902-S48
3x14	–	10x12	9x14	40°	115	4 1/2"	HMCVFAN	7516-4915-R48
3x14	–	10x12	9x14	35°	115	4 1/2"	HMCVFAN	7516-4915-S48
3x14	–	10x13	9x14	35°	127	5"	HMCVFAN	7516-4927-S48



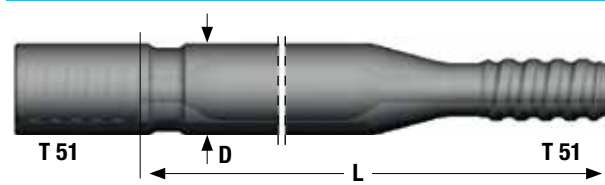
3x12	1x8	6x10	9x11	35°	89	3 1/2"	HMCVFAN	7516-7889A-S48
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Bench drilling

T51 (2")

Rods	Dimensions D						Part No.
	Bit dia. mm	L mm	ft	in	D mm	in	

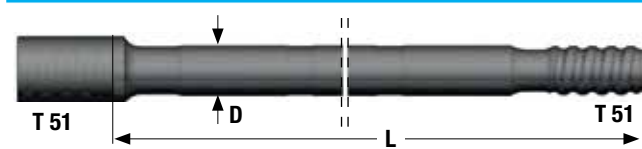
Guide tube



89-102	3660	12'	–	76	3"	7957-7637-70
102-127	3660	12'	–	87	3 1/2"	7957-8737-70

Female end \varnothing 76 / 87 mm

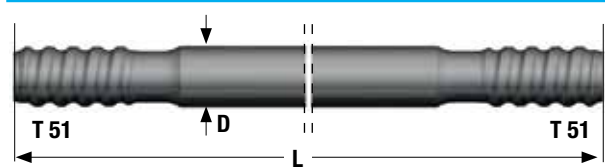
MF-rod, T51 - round 52 - T51



3660	12'	–	52	2"	7326-5537-70
4265	14'	–	52	2"	7326-5543-70
6095	20'	–	52	2"	7326-5561-70

Flushing hole \varnothing 21,5 mm. Female end \varnothing 71 mm

Extension rod, T51 - round 52 - T51



3050	10'	–	46	1 3/4"	7326-7331C-30
3660	12'	–	46	1 3/4"	7326-7337C-30
4265	14'	–	46	1 3/4"	7326-7343C-30

Flushing hole \varnothing 21.5 mm

Coupling sleeve T51



225	–	8 7/8"	71	2 51/64"	7316-3671
225	–	8 7/8"	76	3"	7316-3676

Bench drilling

Sandvik GT60

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		

Button bit, regular skirt

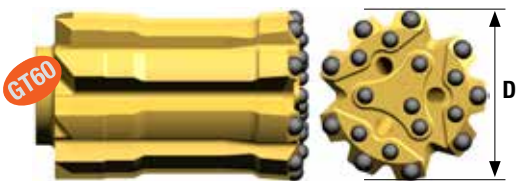


4x11	–	6x12	8x14	35°	92	3 5/8"	HMSCVA	7620-1892-S48
4x11	–	6x12	8x14	35°	96	3 3/4"	HMSCVA	7620-1896-S48



3x14	–	9x11	9x13	35°	102	4"	HMSCVA	7620-1902-S48
3x14	–	10x12	9x14	35°	115	4 1/2"	HMSCVA	7620-1915-S48
3x14	–	10x12	9x14	40°	115	4 1/2"	MSCFAN	7620-1915-R48
3x14	–	10x14	9x16	35°	127	5"	HMSCVA	7620-1927-S48
3x14	–	10x14	9x16	35°	140	5 1/2"	HMSCVA	7620-1940-S48
3x14	–	12x14	9x16	35°	152	6"	HMSCVA	7620-1952-S48

Button bit, Retrac



3x14	–	9x11	9x13	35°	102	4"	HMSCFVA	7620-4902-S48
3x14	–	10x12	9x14	40°	115	4 1/2"	MSCFAN	7620-4915-R48
3x14	–	10x12	9x14	35°	115	4 1/2"	HMSCFVA	7620-4915-S48
3x14	–	10x14	9x16	35°	127	5"	HMSCFVA	7620-4927-S48
3x14	–	10x14	9x16	35°	127	5"	HMSCFVA	7620-4927-S55
3x14	–	10x14	9x16	35°	140	5 1/2"	HMSCFVA	7620-4940-S48
3x14	–	12x14	9x16	35°	152	6"	HMSCFVA	7620-4952-S48



2x14	–	9x12	9x12	35°	92	3 5/8"	HMSCFAN	7620-8792-S48
2x14	–	9x12	9x12	40°	92	3 5/8"	MSCFAN	7620-8792-R48
2x14	–	9x12	9x12	35°	96	3 3/4"	HMSCFAN	7620-8796-S48
2x14	–	9x12	9x12	40°	96	3 3/4"	MSCFAN	7620-8796-R48
2x14	–	10x12	9x13	40°	102	4"	MSCFAN	7620-8702-R48



3x13	–	6x13	9x16	35°	115	4 1/2"	HMCFVA	7620-8115-S55
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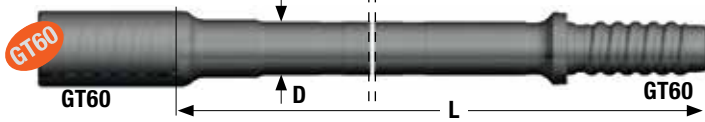
Bench drilling

Sandvik GT60

GT60

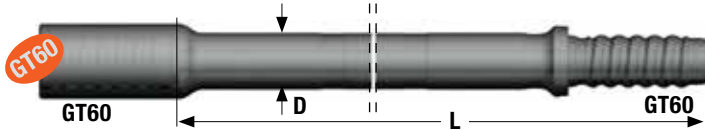
Rods	Dimensions D					Part No.
	L mm	ft	in	D mm	in	

MF-rod, GT60 - round 60 - GT60. For bits from 96 mm.



Female end \varnothing 85 mm. Flushing hole \varnothing 22,5 mm

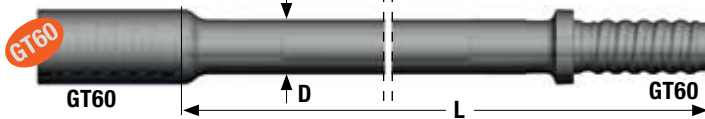
3660	12'	-	60	2 3/8"	7610-1137-70
4265	14'	-	60	2 3/8"	7610-1143-70
6095	20'	-	60	2 3/8"	7610-1161-70



Female end \varnothing 85 mm. Flushing hole \varnothing 25 mm

4265	14'	-	64	2 1/2"	7610-1243-70
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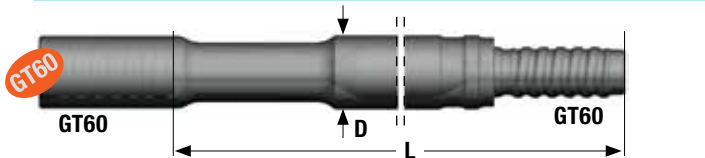
MF-rod, GT60 - round 60 - GT60. For 92-115 mm bits.



Female end \varnothing 82 mm. Flushing hole \varnothing 22,5 mm

4265	14'	-	60	2 3/8"	7610-1443-70
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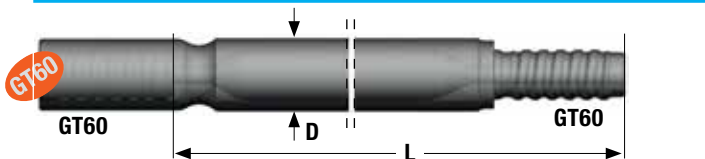
Pilot tube - GT60.



Female end \varnothing 85 mm (82 mm on 76 mm tubes)

4265	14'	-	87	3 1/2"	7640-8743-70
5335	17'	6"	76	3"	7640-7653-70

Drill tube



Always use with tube shank adapter 7600-6030-01 (HL1500, 1560) or 7600-6031-01 (HL1000, 1010)

4265	14'	-	87	3 1/2"	7660-8743-71
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Where quality counts

dilution is primarily caused by deviation

One of the questions commonly asked is whether it is possible to increase the output of the long hole-drilling rig. The answer is an emphatic yes. It's all to do with hole straightness and direction. Accurate placement of explosives energy will protect weak ground conditions. The ultimate reason for efficient, accurate drilling is mine profitability. Hole deviation adversely affects profitability in the form of poor fragmentation, low ore recovery and ore dilution. Working with Sandvik quality tools can reduce deviation with up to 40%.

R32 (1 1/4")	62
T35 (1 3/8")	64
T38 (1 1/2")	65
T45 (1 3/4")	67
T51 (2")	69
T45 (1 3/4") TUBE DRILLING TOOLS	71
ST58 (2 1/4") TUBE DRILLING TOOLS	72
ST68 (2 3/4") TUBE DRILLING TOOLS	73



Long hole drilling underground

R32 (1 1/4")

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
Button bit, Regular skirt									
	3x6	1x6	3x9	6x10	35°	51	2"	HMCA	7733-1651A-S48
	3x6	1x6	3x9	6x10	40°	51	2"	MSCAN	7733-1651A-R48
	3x6	1x6	3x10	6x11	35°	57	2 1/4"	HMCA	7733-1657A-S48
	3x7	–	3x11	6x12	30°	64	2 1/2"	HMCVA	7733-1664-S48
	4x7	–	5x11	8x12	35°	76	3"	HMCVA	7733-1876-S48
	3x6	1x6	3x9	6x10	40°	51	2"	SCFN	7733-5551A-C60
	3x6	1x6	3x10	6x10	40°	57	2 1/4"	SCFN	7733-5557A-C60
	3x8	1x8	3x10	6x11	40°	64	2 1/2"	SCFN	7733-5564A-C60
Button bit, Retrac skirt									
	3x6	–	3x9	6x10	35°	51	2"	HMCFA	7733-4651-S48
	3x6	–	3x9	6x10	35°	51	2"	MSCFAN	7733-4651-R48
	4x7	–	5x9	8x10	30°	64	3 1/2"	HMCFVA	7733-4864-S48
Cross bit									
	1x5	2x7.5	–	–	–	51	2"	HMCFA	7733-1451-42

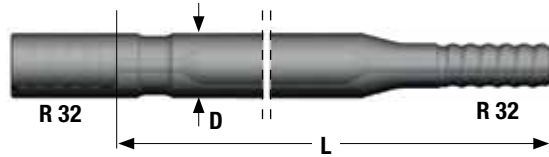
R32 (1 1/4")

Long hole drilling underground

R32 (1 1/4")

Rods	Dimensions D						Part No.
	Bit dia. mm	L mm	ft	in	D mm	in	

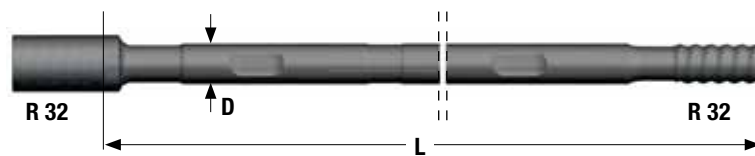
Guide tube



51-64	1830	6'	–	46	1 3/4"	7953-4618-20
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Female end Ø 46 mm

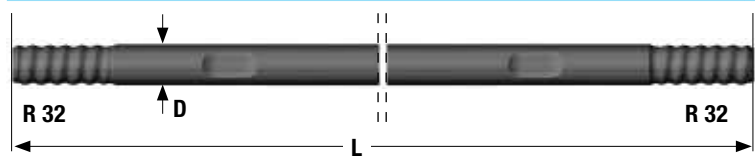
MF-rod, R32 - round 32 - R32



915	3'	–	32	1 1/4"	7853-5109-20
1220	4'	–	32	1 1/4"	7853-5112-20
1525	5'	–	32	1 1/4"	7853-5115-20
1830	6'	–	32	1 1/4"	7853-5118-20

Flushing hole Ø 11.7 mm. Wrench flat 25.4 mm. Female end Ø 45 mm

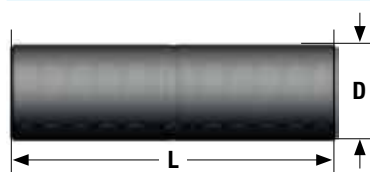
Extension rod, R32 - round 32 - R32



915	3'	–	32	1 1/4"	7853-3309-20
1220	4'	–	32	1 1/4"	7853-3312-20
1525	5'	–	32	1 1/4"	7853-3315-20
1830	6'	–	32	1 1/4"	7853-3318-20

Flushing hole Ø 11.7 mm. Wrench flat 25.4 mm

Coupling sleeve R32



150	–	5 29/32"	44	1 47/64"	7993-3644
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Pilot adapter	Thread	Dimensions D				Part No.
		L mm	ft	in	D mm	

Pilot adapter for reaming of 51 mm (2") pilot holes



R32	–	–	–	47	1 7/8"	7823-3647
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Reaming bit	Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size		mm	in		

Reaming bit



4x12	8x12	35°	102	4"	–	7723-4802-S48
4x12	8x12	35°	127	5"	–	7723-4827-S48

Long hole drilling underground


T35 (1 3/8")

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		

Button bit, regular skirt

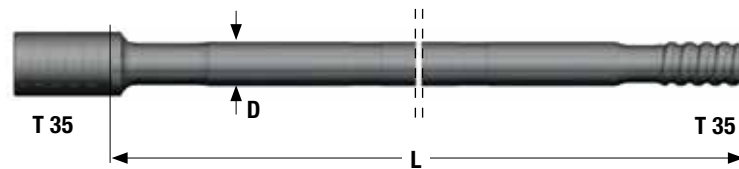
	3x6	1x6	3x9	6x10	35°	64	2 1/2"	HMCFVAN	7517-1654A-S48
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Button bit, Retrac T35

	3x6	–	3x9	6x10	35°	54	2 1/6"	MSCFAN	7517-4654-R48
	3x7	–	3x10	6x11	35°	57	2 1/4"	MSCFAN	7517-4657-R48

Rods	Dimensions D					Part No.
	L mm	ft	in	D mm	in	

MF-rod, T35 - Round 39 - T35

	1830	6'	-	39	1 1/2"	7327-4718-20
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Female end Ø 48,2 mm. Flushing hole Ø 14,5 mm

Long hole drilling underground

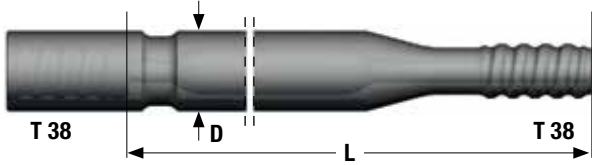
T38 (1 1/2")

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
Button bit, Regular skirt									
	3x8	–	3x11	6x12	30°	64	2 1/2"	HMCVAN	7514-1664-S48
	3x8	–	3x11	6x12	35°	64	2 1/2"	MSCAN	7514-1664-R48
	4x8	–	5x10	8x11	30°	70	2 3/4"	HMCVAN	7514-1870-S48
	4x8	–	5x11	8x12	35°	76	3"	HMCVAN	7514-1876-S48
	4x8	–	5x11	8x11	40°	76	3"	MSCAN	7514-1876-R48
	4x9	–	5x12	8x12	35°	89	3 1/2"	HMCVAN	7514-1889-S48
	2x11	1x6	4x10	8x10	30°	64	2 1/2"	HMCAN	7514-2664A-S48
	2x11	1x6	6x10	8x11	35°	76	3"	HMCAN	7514-2676A-S48
	3x8	1x8	3x10	6x11	40°	64	2 1/2"	SCFN	7514-5564A-C60
	4x8	1x8	4x10	8x11	40°	76	3"	SCFN	7514-5576A-C60
Button bit, Retrac skirt									
	3x8	–	3x11	6x12	30°	64	2 1/2"	HMCVFAN	7514-4664-S48
	4x8	–	5x9	8x10	35°	64	2 1/2"	MSCFAN	7514-4864-R48
	4x8	–	5x10	8x11	30°	70	2 3/4"	HMCVFAN	7514-4870-S48
	4x8	–	5x11	8x12	35°	76	3"	HMCVFAN	7514-4876-S48
	4x8	–	5x11	8x11	35°	76	3"	MSCFAN	7514-4876-R48
	4x8	–	5x11	8x11	35°	76	3"	MSCFAN	7514-4876-R48
	2x10	1x6	4x10	8x10	30°	64	2 1/2"	HMCVFAN	7514-7864A-S48
	2x11	1x6	6x10	8x11	35°	76	3"	HMCVFAN	7514-7876A-S48
X bit									
	1x7.5	2x7.5	–	–	–	64	2 1/2"	–	7514-4064-11

Long hole drilling underground

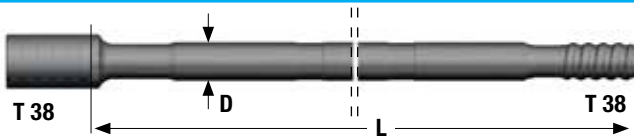
T38 (1 1/2")

Rods	Dimensions D						Part No.
	Bit dia. mm	L mm	ft	in	D mm	in	
Guide tube	64-76	1830	6'	–	56	2 13/64"	7955-5618-20



Female end OD 56 mm

MF-rod, T38 - round 39 - T38	Bit dia. mm	L mm	ft	in	D mm	in	Part No.
	1220	4'	–	39	1 1/2"	7324-4712C-20	
	1525	5'	–	39	1 1/2"	7324-4715C-20	
	1830	6'	–	39	1 1/2"	7324-4718C-20	



Flushing hole Ø 14.5 mm. Female end OD 56 mm

Pilot adapter	Thread	Dimensions D					Part No.
		L mm	ft	in	D mm	in	
Pilot adapter for reaming of 51 mm (2") pilot holes	R38	–	–	–	47	1 7/8"	7823-2647



Reamer	Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size		mm	in		
Reaming bit	4x12	8x12	35°	102	4"	–	7723-4802-S48
	4x12	8x12	35°	127	5"	–	7723-4827-S48



Long hole drilling underground

T45 (1 3/4")

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
Button bit, Regular skirt									
	4x8	–	5x10	8x11	30°	70	2 3/4"	HMCVAN	7515-1870-S48
	4x8	–	5x11	8x12	35°	76	3"	HMCVAN	7515-1876-S48
	4x8	–	5x11	8x12	35°	76	3"	MSCAN	7515-1876-R48
	4x9	–	5x13	8x13	35°	89	3 1/2"	HMCVAN	7515-1889-S48
	4x9	–	5x13	8x13	40°	89	3 1/2"	HMCAN	7515-1889-R48
	3x10	–	9x11	9x13	35°	102	4"	HMCVAN	7515-1902-S48
	3x10	–	9x11	9x13	40°	102	4"	MSCAN	7515-1902-R48
	2x12	1x7.5	6x10	8x11	35°	76	3"	HMCAN	7515-2676A-S48
	3x10	1x7.5	6x10	9x11	35°	89	3 1/2"	HMCAN	7515-2689A-S48
	4x8	1x8	4x10	8x11	40°	76	3"	SCFN	7515-5576A-C60
Button bit, Retrac skirt									
	4x8	–	5x10	8x11	35°	70	2 3/4"	MSCFAN	7515-4870-R48
	4x8	–	5x11	8x12	35°	76	3"	HMCVFAN	7515-4876-S48
	4x8	–	5x11	8x12	35°	76	3"	MSCFAN	7515-4876-R48
	4x9	–	5x13	8x13	35°	89	3 1/2"	HMCVFAN	7515-4889-S48
	4x9	–	5x13	8x13	40°	89	3 1/2"	MSCFAN	7515-4889-R48
	3x10	–	9x11	9x13	35°	102	4"	HMCVFAN	7515-4902-S48
	3x10	–	9x11	9x13	40°	102	4"	MSCFAN	7515-4902-R48
	2x11	1x6	6x10	8x11	35°	76	3"	HMCVFAN	7515-7876A-S48
	3x10	1x8	6x10	9x11	35°	89	3 1/2"	HMCVFAN	7515-7889A-S48
Reaming bit									
	3x14	–	9x14	–	35°	127	5"	–	7515-5627-S48
	7x14	–	8x14	–	35°	152	6"	–	7515-5652-S48

Pilot diameter: 64 mm

T45 (1 3/4")

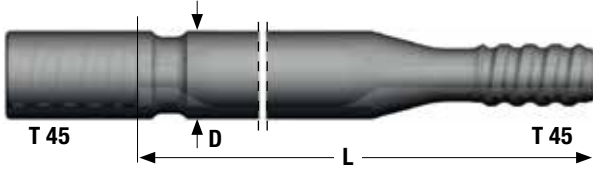
Long hole drilling underground

T45 (1 3/4")

Rods	Dimensions D						Part No.
	Bit dia. mm	L mm	ft	in	D mm	in	

Guide tube

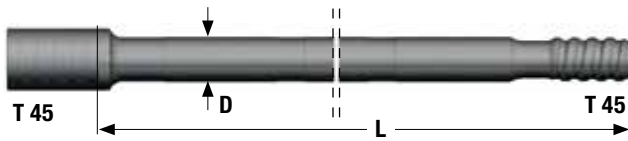
76-89	1830	6'	–	63	2 31/64"	7956-6318-21
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Female end Ø 63 mm

MF-rod, T45 - round 46 - T45


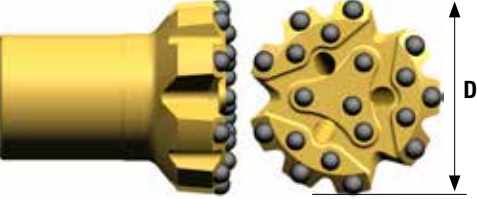


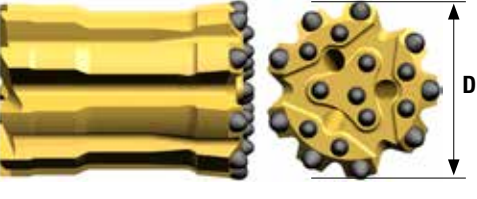
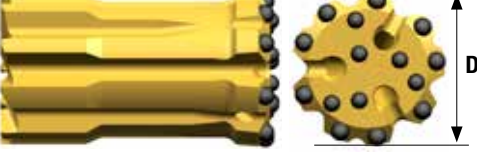

1220	4'	–	46	1 3/4"	7325-7712C-20
1525	5'	–	46	1 3/4"	7325-7715C-20
1830	6'	–	46	1 3/4"	7325-7718C-20



Flushing hole Ø 17 mm. Female end Ø 63 mm

Long hole drilling underground

T51 (2")

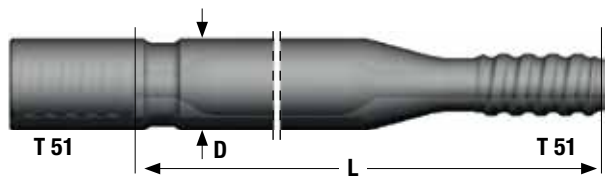
Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
Button bit, Regular skirt									
	4x10	–	5x13	8x13	35°	89	3 1/2"	HMCVAN	7516-1889-S48
	4x10	–	5x13	8x13	40°	89	3 1/2"	MSCAN	7516-1889-R48
	3x13	–	9x11	9x13	40°	102	4"	MSCAN	7516-1902-R48
	3x13	–	9x11	9x13	35°	102	4"	HMCVAN	7516-1902-S48
	3x14	–	10x12	9x14	35°	115	4 1/2"	HMCVAN	7516-1915-S48
	3x14	–	10x13	9x14	35°	127	5"	HMCVAN	7516-1927-S48
	3x12	1x8	6x10	9x11	35°	89	3 1/2"	HMCAN	7516-2689A-S48
	3x12	1x8	6x12	9x12	35°	102	4"	HMCAN	7516-2602A-S48
Button bit, Retrac skirt									
	4x10	–	5x13	8x13	35°	89	3 1/2"	HMCVFAN	7516-4889-S48
	4x10	–	5x13	8x13	40°	89	3 1/2"	MSCFAN	7516-4889-R48
	3x13	–	9x11	9x13	40°	102	4"	MSCFAN	7516-4902-R48
	3x13	–	9x11	9x13	35°	102	4"	HMCVFAN	7516-4902-S48
	3x14	–	10x12	9x14	40°	115	4 1/2"	HMCVFAN	7516-4915-R48
	3x14	–	10x12	9x14	35°	115	4 1/2"	HMCVFAN	7516-4915-S48
	3x14	–	10x13	9x14	35°	127	5"	HMCVFAN	7516-4927-S48
	3x12	1x8	6x10	9x11	35°	89	3 1/2"	HMCVFAN	7516-7889A-S48
	3x12	–	6x12	9x12	35°	102	4"	HMCVFAN	7516-7802-S48
Reaming bit									
	7x14		8x14		35°	152	6"	–	7516-5652-S48

Pilot diameter: 64 mm

Long hole drilling underground

T51 (2")

Rods	Dimensions D						Part No.
	Bit dia. mm	L mm	ft	in	D mm	in	
Guide tube	89-102	1830	6'	–	76	3"	7957-7618-20



Female end Ø 76

MF-rod, T51 - round 52 - T51							
	1525	5'	–		52	2"	7326-5515C-20
	1830	6'	–		52	2"	7326-5518C-20



Flushing hole Ø 21.5 mm. Female end Ø 71 mm

T51 (2")

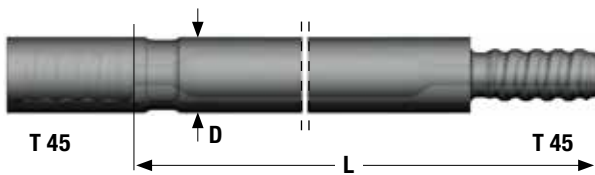
Long hole drilling underground

T45 (I 3/4") tube drilling tools

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
XDC, button bit									
	4x7.5	–	6x10	8x11	35°	76	3"	HMCVA	7525-8476-R65



Tubes	Dimensions D					Part No.
	L mm	ft	in	D mm	in	
Drill tube, T45 - Round 65 - T45						



Flushing hole \varnothing 18 mm


1525	5'	–	65	2 1/2"	7985-6315-26
1830	6'	–	65	2 1/2"	7985-6318-26

Long hole drilling underground

ST58 (2 1/4") tube drilling tools


Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		

XDC, button bit




4x10	–	6x12	8x12	35°	89	3 1/2"	HMCVA	7528-8489-R65
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XDC, button bit, guide retrac




4x10	–	6x12	8x12	35°	89	3 1/2"	HMCVA	7528-7389-R65
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Button bit, Heavy Duty



2x15	–	6x12	8x14	35°	89	3 1/2"	HCV	7528-6989-S65
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Reaming bit



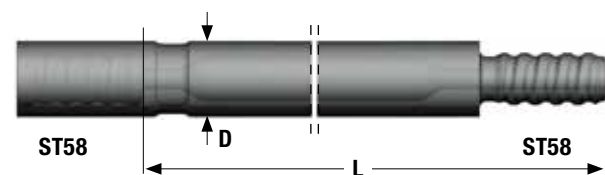
7x14	8x14	35°	152	6"	–	7528-5652-S65
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Pilot diameter 76 mm

Tubes	Dimensions D					Part No.
	L mm	ft	in	D mm	in	

Drill tube, ST58 - Round 76 - ST58

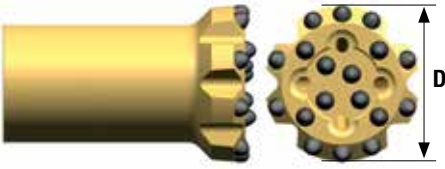
1525	5'	–	76	3"	7378-7615-26
1830	6'	–	76	3"	7378-7618-26





Flushing hole Ø 26 mm

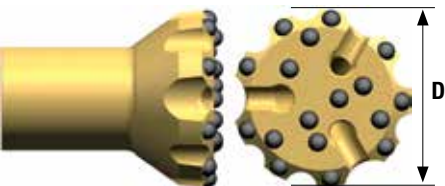
Long hole drilling underground

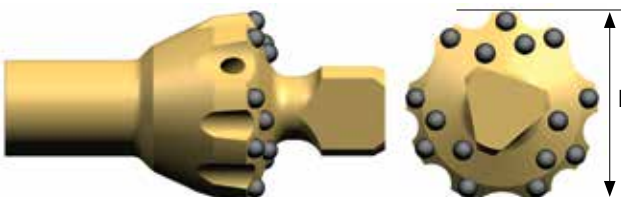
ST68 (2 3/4") tube drilling tools

Bits	Flushing hole, mm		Buttons, mm		Angle	Dimensions D		Bit Classification	Part No.
	Front No Size	Gauge No Size	Front No Size	Gauge No Size		mm	in		
XDC, button bit									
	4x10	–	8x12	10x12	35°	102	4"	HMCVA	7529-8402-R65
	4x10	–	8x14	10x14	35°	115	4 1/2"	HMCVA	7529-8415-R65

Button bit, Heavy Duty									
	2x15	–	5x14	8x16	35°	102	4"	HCV	7529-6902-S65

XDC, button bit, guide retrac									
	4x10	–	8x12	10x12	35°	102	4"	HMCVA	7529-7302-R65
	4x10	–	8x14	10x14	35°	115	4 1/2"	HMCVA	7529-7315-R65

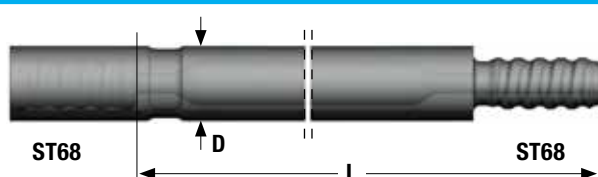
Collaring bit									
	3x18	–	8x16	9x16	35°	152	6"	–	7529-6652-S48

Reaming bit									
	3x16	9x16	35°	152	6"	–	7529-5652C-S65		
	4x14	16x14	35	204	8"	-	7529-5604A-S65		

Pilot diameter 95 mm 7529-5652C-S65

Pilot diameter 137 mm 7529-5604A-S65

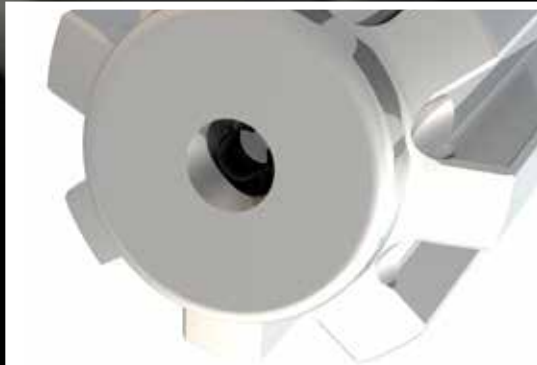
Tubes	Dimensions D					Part No.
	L mm	ft	in	D mm	in	
Drill tube, ST68 - Round 87 - ST68						



Flushing hole Ø 30 mm

1525	5'	–	87	3 1/2"	7379-8715-26
1525	5'	–	87	3 1/2"	7379-8715-46
1830	6'	–	87	3 1/2"	7379-8718-26
1830	6'	–	87	3 1/2"	7379-8718-46

! Permanent back flow valve.



Internal flushing consists of a water tube that fits through the center of the drill and into an o-ring seal in the end of the shank to transfer flushing into the drill string.



With external flushing, holes or a slot are required in the side of the shank adapter. These line up between seals inside the front head or water box of the rock drill when the shank is installed.

High precision rock drilling for reliable performance and lower costs

While every component in the drill string is crucial, the shank adapter must be engineered to withstand the most extreme stress. Its function is to transmit impact energy from the rock-drill piston, as well as rotation torque, into the drill string without energy losses. It must withstand and transmit up to 6300 blows per minute from the piston continually, with great endurance and dependability. With this in mind, Sandvik manufactures premium quality shank adapters for most brands of rock drill.

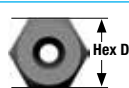
HEXAGONAL SHANK ADAPTERS	76
SANDVIK	77
ATLAS COPCO	84
BOART	88
FURUKAWA	89
GARDNER-DENVER, INGERSOLL-RAND & KLEMM	90
MONTABERT	91
SIG	92



Hydraulic shanks generally have at least a 5 to 14-spline configuration. Pneumatic shanks tend to have internal or through-flushing. They can be identified by their lugs or 4-spline configuration.

Shank adapters

Hexagonal shank adapters



Flushing tube (mm)	Thread	Length (mm)	Part No.
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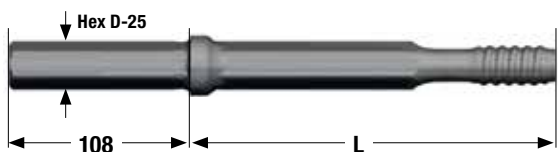
For hexagonal bushing 22 x 108 mm



4.5-5.0	R22	255	7801-6103-11
4.5-5.0	R23	255	7807-6103-11
4.5-5.0	R25	255	7802-6103-11



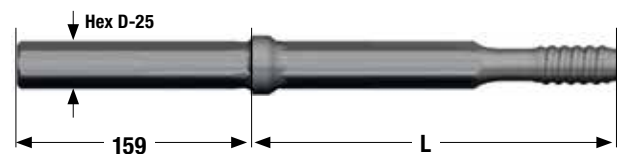
For hexagonal bushing 25 x 108 mm



4.5-5.0	R23	255	7807-7103-30
4.5-5.0	R25	255	7802-7103-14



For hexagonal bushing 25 x 159



8	R25	255	7802-7103-21
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No packing. Not suitable for hydraulic machines with water flushing.

Shank adapters

Sandvik

	Applica- tion	Flushing hole (mm)	Thread	Length (mm)	Part No.
HLX 1					
	TU,BO	–	R23	235	7807-7570-01
	TU,BO	–	R25	255	7802-7567-01
	TU,BO	–	R23	255	7807-7567-01
HL 300					
	BE	–	R32	400	7803-7549-01
HL 300S					
	BO,TU	–	R28	245	7809-7547-01
	BO,TU	–	R32	245	7803-7547-01
RD314					
	UG	–	R32	205	7803-7663-01
	UG	–	T38	410	7304-7672-01
L400, L410, L500, L510, L550					
	BO, PD, TU	10	R32	380	7803-3602-30
HLR 438L and HLR 438T					
	BE, TU	12.7	R32	380	7803-4700-50
	BE, TU	12.7	T38	400	7304-4700-50

- 38 = For 38 mm front head, S=For underground drilling

Shank adapters

Sandvik

	Applica- tion	Flushing hole (mm)	Thread	Length (mm)	Part No.
HLR 438LS, 438TS, HL 538, HL538L, L550S					
	BE, PD, TU	–	R32	450	7803-4700-01
	TU	–	R38	450	7804-4700-01
	BE, PD, TU	–	T38	455	7304-4700-01
	BE	–	T38	545	7304-4706-01
HLR 438LS, HL500-38/HL510-38, HL538L, L550S					
	BE	–	R32	550	7803-7535-02
	BE	–	T35	550	7307-7535-02
	BE	–	T38	550	7304-7535-02
	BE	–	R38	550	7804-7535-02
HL 500-45 / HL510-45					
	BE	–	R32	550	7803-7557-01
	BE	–	T35	550	7307-7557-01
	BE	–	T38	550	7304-7557-01
	BE	–	T45	550	7305-7557-01
HL 500 S-38 / 510 S-38 / 510 B / 510 LH					
	PD,TU	–	R32	460	7803-7531-01
	TU	–	R38	460	7804-7531-01
	PD,TU	–	T38	460	7304-7531-01
	TU	–	R38	500	7804-7536-01
	PD,TU	–	T38	500	7304-7536-01
HL 500 F / HL510 F					
	B0	–	R32	350	7803-7553-01
HL 550 SUPER / HL560 SUPER / HL510 S-45					
	TU	–	T35	460	7307-7566-01
	PD,TU	–	T35	550	7307-7557-01
	TU	–	R38	500	7804-7554-01
	TU	–	T38	500	7304-7554-01

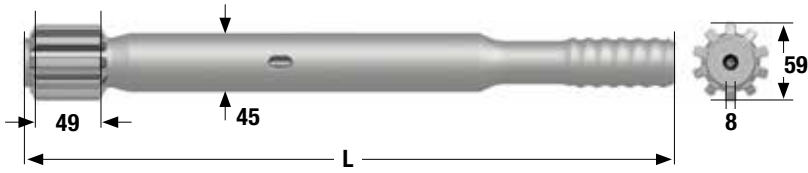
- 38, -45 = For 38 or 45 mm front head, S=For underground drilling

Shank adapters

Sandvik

	Applica- tion	Flushing hole (mm)	Thread	Length (mm)	Part No.
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HLX 5 / HLX 5T



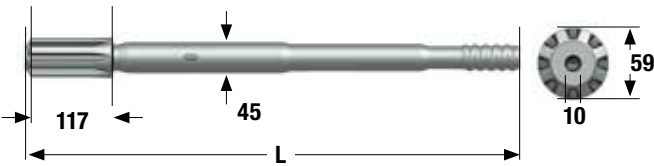
TU	-		R32	500	7803-7585-01
TU	-		T35	500	7307-7585-01
TU	-		T38	500	7304-7585-01
TU	-		R38	500	7804-7585-01
BE	-		R32	575	7803-7586-01
BE	-		T35	575	7307-7586-01
BE	-		T38	575	7304-7586-01
BE	-		T45	575	7305-7586-01

HFX 5T



TU	-		T38	720	7304-7668-01
TU	-		T35	720	7307-7668-01

HLX5 PE-45



TU	-		R32	575	7803-7664-01
TU	-		T38	575	7304-7664-01
TU	-		T35	575	7307-7664-01
TU	-		T38	720	7304-7671-01
TU	-		T35	720	7307-7671-01

RD520/RD525 - PE



TU	-		T38	745	7304-7673-01
TU	-		T35	745	7307-7673-01

RD520/RD525



TU	-		T38	525	7304-7669-01
TU	-		T38	600	7304-7666-01
TU	-		T35	600	7307-7666-01
TU	-		T38	745	7304-7685-01
TU	-		T35	745	7307-7685-01
TU	-		R32	745	7803-7685-01

- 38, -45 = For 38 or 45 mm front head, S=For underground drilling

Shank adapters

Sandvik

	Applica- tion	Flushing hole (mm)	Thread	Length (mm)	Part No.
HL 600-45 / HL 600 S-45					
	BE	–	R32	600	7803-7532-01
	BE	–	T38	600	7304-7532-01
	Tubes, BE	–	T45	600	7305-7532-01
	TU,PD	–	T38	525	7304-7537-01
	TU,PD	–	T45	525	7305-7537-01
HL 600-52					
	BE	–	T45	650	7305-7551-01
	BE	–	T51	650	7306-7551-02
HL 645					
	BE	–	T38	600	7304-7541-02
	BE	–	T45	600	7305-7541-02
HL700/HL710-45/HL800T-45/HL810T-45/HF810T-45/HL650-45					
	BE	–	T38	600	7304-7576-01
	BE	–	T45	600	7305-7576-01
HL700/HL710-52/HL710PE-52/HL700LH/HL710S-52/HL710SPE-52/T45/HL650-52/HL800T-52/HL800T/PE-52/HL810T-52/HF810T-52					
	BE,PD	–	T38	600	7304-7577-02
	BE	–	T45	600	7305-7577-02
	BE	–	T51	600	7306-7577-03
HL 850S					
	BE, PD	–	T45	670	7305-7400-01
	BE, PD	–	T51	670	7306-7400-02

-45, -52 = For 45 or 52 mm front head, PE= For Power Extractor rock drill (reverse hammering), S=For underground drilling

Shank adapters

Sandvik

	Applica- tion	Flushing hole (mm)	Thread	Length (mm)	Part No.
HL1000/HL 1010, HL1000S/HL 1010S-52					
	BE	–	T45	670	7305-6010-01
	BE	–	T51	670	7306-6010-02
	PD	–	T45	590	7305-6008-01
	PD	–	T51	590	7306-6008-01
HL 1000-60/HL 1010-60					
	BE	–	T51	670	7306-6014-02
	BE	–	GT60	670	7600-6014-02
	BE	–	ST58	670	7358-6014-01
HL 1000-80/HL 1010-80, Shoulder drive					
	BE	–	GT60	760	7600-6031-01
HL1000/HL 1000S-80, HL1000-80/HL1010-80					
	PD	–	ST58	635	7328-6009-02
	PD	–	ST68	640	7329-6009-02
HL1000PE-65, HL1010PE-65, HL1060T/PE-65, HL1500T/PE-65, HL1560T/PE-65					
	BE,	–	T51	760	7306-6025-02
	BE,	–	GT60	760	7600-6025-02
	BE,	–	ST58	760	7358-6025-02

-52, -60, -65, -80 = For 52, 60, 65 or 80 mm front head, PE= For Power Extractor rock drill (reverse hammering), S=For underground drilling

Shank adapters

Sandvik

	Applica- tion	Flushing hole (mm)	Thread	Length (mm)	Part No.
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HL 1500-52 / 1500 T-52



BE	–		T51	710	7306-6021-02
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HL 1500-60 / 1500 T-60



BE	–		T51	760	7306-6022-02
BE	–		GT60	760	7600-6022-03

HL 1500-80/1560T-80/HL1060T-80/HF1560, Shoulder drive



BE	–		GT60	760	7600-6030-05
BE			ST68	630	7329-6034-05
PD	–		ST58	635	7328-6020-01
PD	–		ST68	635	7329-6020-05

HL1500T/PE-90/HL1500ST/PE-90/ HL1560T/PE-90/HL1560ST/PE-90

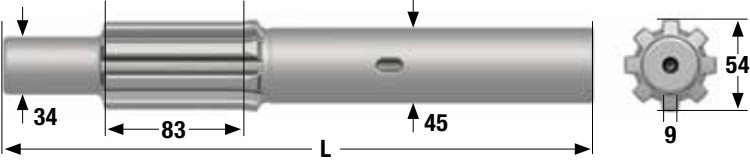
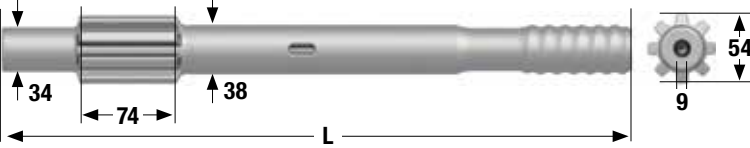





PD	–		ST58	635	7328-6035-01
PD	–		ST68	635	7329-6035-05
BE	–		GT60	760	7600-6032-05

i -52, -60, -80, -90 = For 52, 60, 80 and 90 mm front head, PE= For Power Extractor rock drill, S=For underground drilling, T= Drill with stabilizer

Shank adapters

Sandvik

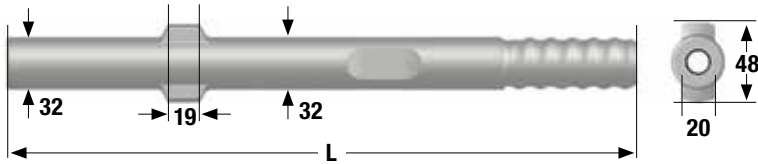
	Applica- tion	Flushing hole (mm)	Thread	Length (mm)	Part No.
Hydrastar 200					
	TU,B0	-	R32	351	7803-4703-01
Hydrastar 200, 300 and X2					
	TU	-	R32	485	7803-3590-03
	TU	-	R38	485	7804-3590-03
	TU	-	T38	485	7304-3590-03
Hydrastar 350					
	BE	-	R32	500	7803-3591-01
	TU	-	R38	485	7804-3590-03
	BE	-	T38	500	7304-3591-01
Toyo PR 220					
	BE	14	R32	330	7803-7500-61
	BE	14	T38	446	7304-7500-60
Toyo TH 501					
	BE	11	T38	565	7304-7583-40

Shank adapters

Atlas Copco

	Applica- tion	Flushing hole (mm)	Thread	Length (mm)	Part No.
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Atlas Copco BBC 43, 44, 45 and 100



TU	10	R32	380	7803-3100-30
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Atlas Copco BBC 51, 52, 54 and 120



TU	10	R32	380	7803-4200-30
TU	10	T38	390	7304-4200-30

Atlas Copco BBE 57



BE	14	T38	537	7304-7502-60
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Atlas Copco COP 125, 130 and 131



TU, BE, PD	14	T38	380	7304-4500-60
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Atlas Copco COP 1032 HD



TU, B0	-	R32	340	7803-3588-01
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TU, B0	-	R38	340	7804-3575-01
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Shank adapters

Atlas Copco

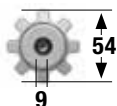
		Application	Flushing hole (mm)	Thread	Length (mm)	Part No.
Atlas Copco COP 1032 LE						
	BE,DS	-	R32	550	7803-3576-01	
Atlas Copco COP 1036/1038 HB						
	BE	-	R32	500	7803-3591-01	
	BE	-	T38	500	7304-3591-01	
	BE	-	T45	500	7305-3591-01	
Atlas Copco COP 1038 HD/1238						
	TU	-	R32	485	7803-3590-03	
	TU	-	R38	485	7804-3590-03	
	TU	-	T38	485	7304-3590-03	
Atlas Copco COP 1038 HL						
	BE,PD	-	R32	575	7803-3593-01	
	BE,PD	-	T38	575	7304-3593-01	
	BE,PD	-	T45	575	7305-3593-01	
Atlas Copco COP 1132						
	PD	-	R32	410	7803-3581-01	
	PD	-	R32	500	7803-3583-01	

Shank adapters

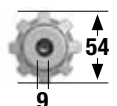
Atlas Copco

	Applica- tion	Flushing hole (mm)	Thread	Length (mm)	Part No.
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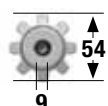
Atlas Copco COP 1238



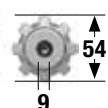
BE	–	R32	500	7803-3591-01
BE	–	T38	500	7304-3591-01
TU	–	R38	485	7804-3590-03
TU	–	T38	485	7304-3590-03



BE	–	T45	500	7305-3591-01
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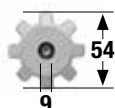


BE,PD	–	R32	575	7803-3593-01
BE,PD	–	T35	575	7307-3593-01
BE,PD	–	T38	575	7304-3593-01

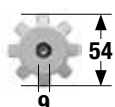


BE,PD	–	T38	575	7304-3550-01
BE,PD	–	T45	575	7305-3593-01

Atlas Copco COP 1432, COP 1532, COP1440, COP1838 HD/ME



TU	–	R38	435	7804-3652-01
TU	–	T35	435	7307-3652-01
TU	–	T38	435	7304-3652-01
TU	–	R32	435	7803-3652-01



BO	–	R32	525	7803-3656-01
BE	–	T35	525	7307-3656-01
BO	–	T38	525	7304-3656-01

Atlas Copco COP 1432 Female



TU	–	R38	341	7804-3670-02
TU	–	R32	341	7803-3670-02

Shank adapters

Atlas Copco

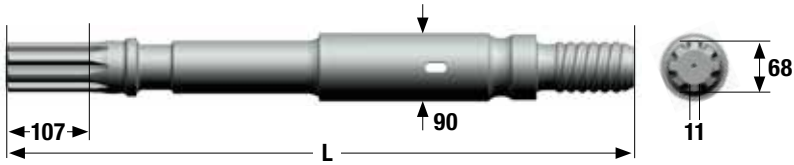
	Applica- tion	Flushing hole (mm)	Thread	Length (mm)	Part No.
Atlas Copco COP 1550, COP 1838 ME/ HE					
	BE,PD	–	T38	525	7304-3655-01
	BE,PD	–	T45	525	7305-3655-01
	BE,PD	–	T51	525	7306-3655-02
Atlas Copco COP 1550 EX, COP 1838 EX					
	BE	–	T38	730	7304-3825-02
	BE	–	T45	730	7305-3826-02
Atlas Copco COP 1840 HE, COP 1850					
	BE,PD	–	T35	565	7307-3690-01
	BE,PD	–	T38	565	7304-3690-02
	BE,PD	–	T45	565	7305-3690-02
	BE,PD	–	T51	565	7306-3690-03
Atlas Copco COP 2150, COP 2550					
	BE	–	T51	770	7306-3692-01
Atlas Copco COP 2160, COP 2560					
	BE	–	T51	770	7306-3689-01
Atlas Copco COP2160EX/2560EX					
	BE	–	T51	770	7306-3699-01
	BE	–	GT60	770	7600-3699-01
Atlas Copco COP 3038					
	TU	–	T38	435	7304-3666-01
	TU	–	T45	435	7305-3667-01
	TU	–	T35	440	7307-3668-01
	TU,PD	–	T35	525	7307-3671-01

Shank adapters

Atlas Copco/Boart

	Applica- tion	Flushing hole (mm)	Thread	Length (mm)	Part No.
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Atlas Copco COP 4050 MUX



PD	–	ST68	835	7329-3720-01
PD	–	ST58	835	7328-3720-01

Boart HD 125, HD 150, HD 160



TU	–	R38	495	7804-4993-01
TU	–	T38	495	7304-4993-01

Shank adapters

Furukawa

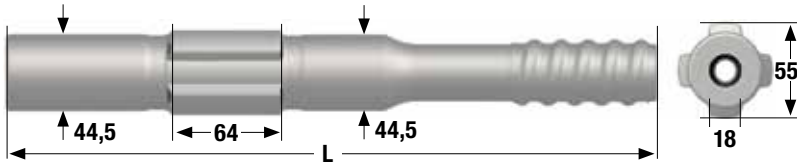
	Applica- tion	Flushing hole (mm)	Thread	Length (mm)	Part No.
Furukawa M 120 and PD 200					
	BE	14	R32	330	7803-7500-61
	BE	14	T38	380	7304-7543-60
	BE	14	T38	446	7304-7500-60
Furukawa PD 200R					
	BE	14	T38	484	7304-7581-60
Furukawa HD 260, HD 300					
	BE	16	T38	655	7304-7526-80
	BE	16	T45	655	7305-7526-80
Furukawa HD 609					
	BE	-	T38	620	7304-4791-01
	BE	-	T38	690	7304-4780-01
	BE	-	T45	620	7305-4791-01
Furukawa HD 612					
	BE	-	T45	710	7305-7414-01
Furukawa HD 709					
	BE	-	T38	620	7304-7426-01
Furukawa HD 712					
	BE	-	T45	788	7305-7417-01

Shank adapters

Gardner-Denver, Ingersoll-Rand and Klemm

	Applica- tion	Flushing hole (mm)	Thread	Length (mm)	Part No.
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Gardner-Denver PR 123



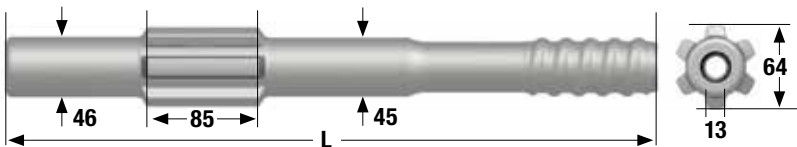
TU, BE	14	R32	330	7803-7500-61
TU, BE	14	R32	380	7803-7543-60
TU	14	R38	350	7804-7500-60
TU, BE	14	T38	446	7304-7500-60
TU, BE	14	T38	380	7304-7543-60

Ingersoll-Rand URD 475, URD 550, VL120, EVL 130, VL140 and F16



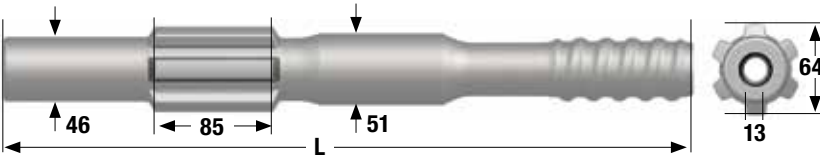
BE	14	R32	330	7803-7500-61
BE	14	R32	380	7803-7543-60
BE	14	T38	380	7304-7543-60
BE	14	T38	446	7304-7500-60

Ingersoll-Rand YH 65, YH 80



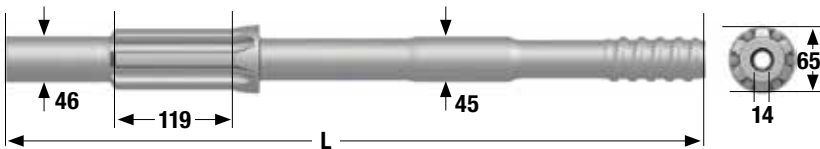
BE	19	T38	495	7304-7525-19
BE	19	T45	500	7305-7525-19

Ingersoll-Rand YH 80 A



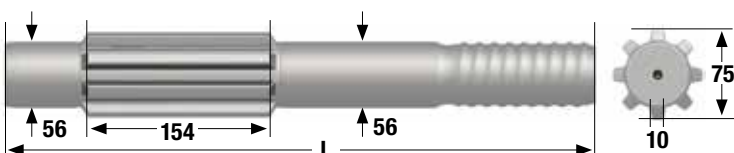
BE	19	T45	495	7305-7559-19
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Ingersoll-Rand YH 65 RP, YH 70 RP, YH 75 RP, YH 80 RP




BE	19	T45	700	7305-7546-19
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Klemm 4053



BE	–	R55	500	7805-6015 ¹⁾
BE	–	R55	500	7805-7015 ²⁾

 ¹⁾ LH-Rotation
²⁾ RH-Rotation

Shank adapters

Montabert

	Applica- tion	Flushing hole (mm)	Thread	Length (mm)	Part No.
Montabert HC40					
	BE	–	R32	447	7803-4725-01
	BE	–	R38	447	7804-4725-01
	BE	–	T38	447	7304-4725-01
Montabert HC40 (female)					
	TU, BO	–	R32	270	7803-4726-01
Montabert HC 80, HC 90, HC 105					
	TU	–	R38	440	7804-4720-01
	TU	–	T38	440	7304-4720-01
Montabert H 100					
	BE	14	T38	537	7304-7502-60
Montabert HC 80R, HC 105R, HC 107R, HC 108R, HC 109R					
	BE	–	T38	670	7304-7544-01
Montabert HC 80, HC 120					
	BE	–	T45	490	7305-7520-01
Montabert HC 120R, HC 150R, HC 155R, HC 158R					
	BE	–	T51	670	7306-7528-02
Montabert HC 200A					
	BE	–	T51	840	7306-7530-02
	BE	–	GT60	840	7600-7530-02

Shank adapters

SIG

	Applica- tion	Flushing hole (mm)	Thread	Length (mm)	Part No.
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SIG HBM 50, 100 and 120



B0	–	R32	340	7803-3588-01
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SIG HBM 100 and 120



TU, B0	–	R38	340	7804-3575-01
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SIG HBM 50, 100 and 120



BE, DS	–	R32	550	7803-3576-01
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SIG 101



BE	–	R32	500	7803-3591-01
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When every minute counts

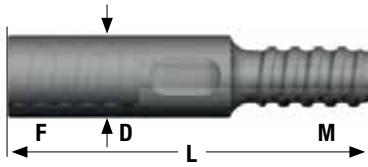
“The right tools for the right job”

Auxiliary tools are an important part of the drilling application and that’s why we apply top grade tools to keep the process going and avoid further downtime. Sandvik accessories for top hammer drilling tools are simple and practical additions. Their purpose is to enable the tool system to be tailored to meet demands in different applications and working environments, and to optimize the system to give higher productivity, even greater reliability and reduced operating costs.

BIT ADAPTERS	96
REDUCTION COUPLINGS	96
WRENCHES	97
KNOCK-OFF TOOLS / FISHING TOOLS	97
THREAD GREASE AND GAUGES	98
DRILL STEEL STRAIGHTENER	98

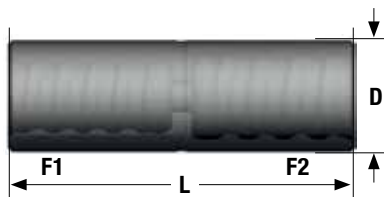
Auxiliary tools

Bit adapters	Wrench flat	Threads		Dimensions				Part No.
	(mm)	F (Female)	M (Male)	L (mm)	L (in)	D (mm)	D (in)	



28,5	R23	R32	200	7 7/8"	35	1 3/8"	7837-3301
38	R25	R32	173	6 13/16"	45	1 3/4"	7832-3301
38	R28	R32	230	9 1/16"	40	1 37/64"	7839-3301
38	R32	T38	225	8 55/64"	45	1 49/64"	7833-4401
38	R32	R38	225	8 55/64"	45	1 49/64"	7833-4301
38	T35	T38	250	9 27/32"	48	1 7/8"	7337-4401
44,5	R38	R32	270	10 41/64"	55	2 5/32"	7834-3303
44,5	R38	T38	245	9 21/32"	55	2 5/32"	7834-4401
44,5	T38	R32	270	10 41/64"	57	2 1/4"	7334-3301
44,5	T38	T45	285	11 7/32"	57	2 1/4"	7334-5401
44,5	T38	R38	280	11 1/32"	57	2 1/4"	7334-4301
38	T45	T38	265	10 7/16"	63	2 31/64"	7335-4401
44,5	T45	T51	285	11 7/32"	63	2 31/64"	7335-6401
44,5	T51	T45	285	11 7/32"	71	2 51/64"	7336-5401

Reduction couplings	Threads		Dimensions				Part No.
	F1	F2	L (mm)	L (in)	D (mm)	D (in)	

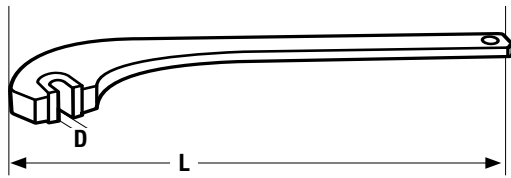


R32	R28	165	6 1/2"	44	1 47/64"	7993-0444
R32	R25	160	6 1/4"	43	1 11/16"	7993-2443
R38	R32	170	6 3/4"	55	2 5/32"	7994-3455
T38	R32	195	7 11/16"	55	2 5/32"	7314-3555
T38	R38	185	7 9/32"	55	2 5/32"	7314-4455
T38	T45	180		58	2 9/32"	7314-6258
T38	T45	180	8 43/64"	61	2 13/32"	7314-6261
T51	T45	218	8 19/32"	71	2 51/64"	7316-6271

Auxiliary tools

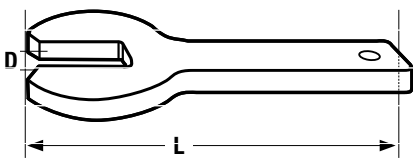
Wrenches and knock-off tools	Dimensions					Part No.
	L (mm)	L (ft)	L (in)	D (mm)	D (in)	

For integral drill steels and shank rods



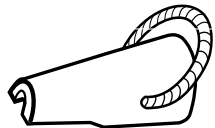
Hex 22	600	1'	11 5/8"	22	7/8"	795-1408
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For extension rods



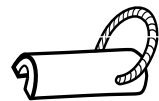
Hex 25, Round 32	300	-	11 13/16"	25	1"	795-1431
Hex 32, Round 39	370	1'	2 9/16"	32	1 1/4"	795-1432
Round 46	370	1'	2 9/16"	38	1 1/2"	795-1494
DTH	380	1'	2 31/32"	65	2 7/12"	795-1495

Knock-off-tools for Hex 22 and Hex 25



Pilot rods, type 7922-XXXX-XX	-	-	-	-	-	795-1469
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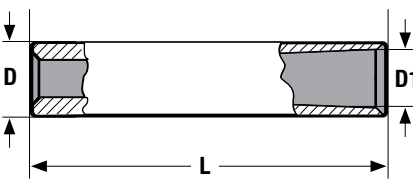
Knock-off-tools for tapered bits



Hex 22	-	-	-	-	-	795-1467
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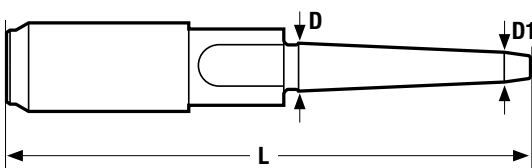
Fishing tools	Dimensions				Part No.
	D	D1	L	Thread	

Fishing sleeve



R32 round/Hex. rods/coupling sleeves	49	47,2	300	R32	795-1604A
R38 round rods/coupling sleeves	60	-	353	R38	795-1605
T35 round rods/coupling sleeves	52	50	284	T35	795-1613
T38 round rods/coupling sleeves/MF-rods	61	58,2	353	T38	795-1607A
T45 round rods/coupling sleeves/MF-rods	71	68	393	T45	795-1608
T51 round rods/coupling sleeves/MF-rods	82	78,2	440	T51	795-1609A
GT60 rods	92	87,5	450	GT60	795-2601
ST68 tubes Ø87	102	92	410	ST68	795-1696

Fishing pike



R32 rods ¹⁾	19,4	4	280	R32	795-1606
T38 rods ²⁾	19,4	8	237	T38	795-1676
T45 rods ²⁾	25	8	275	T45	795-1681
T51 rods ²⁾	27	15	285	T51	795-1690
ST58 tubes Ø76 ²⁾	57	22	400	ST58	795-1699
ST68 tubes Ø87 ²⁾	71	35	431	ST68	795-2600
GT60 rods	50	19,6	500	GT60	795-2604

¹⁾ Without flushing hole

²⁾ With flushing hole

Auxiliary tools

Thread grease

Dimensions			Part No.
D (mm)	L (mm)	Weight (kg)	

For integral drill steels and shank rods

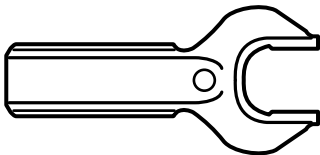


Can	215	170	4,5	795-1960
Can	300	380	18	795-1961
Tube	53/57	235	0,4	795-1962
Low temp. Can	300	380	18	795-1963
Barrel	370	690	50	795-1967
Barrel	610	870	240	795-1964

Gauges

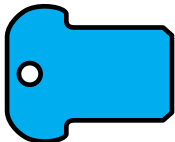
Dimensions	Part No.
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Gauges / Wear gauge for male and female threads



R22	795-1331
R25	795-1332
R32	795-1333
R38	795-1334

Gauges / Chuck wear gauge



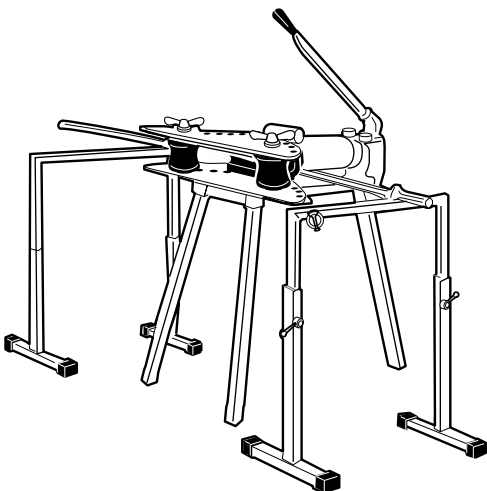
Hex 19	795-2301-19
Hex 22	795-2301-22
Hex 25	795-2301-25

Drill steel straightener

Prod. Info

Part No.

Drill steel straightener for Hex19 to Round 52



Manual/Hydraulic	796-2930
Electric/Hydraulic, 380V/50Hz	796-2930-52
Support leg, 1 piece	796-2931



Information

Grinding of Hardmetal – Health and Safety Information

Material Composition

Hardmetal products contain tungsten carbide and cobalt.

Routes of exposure

Grinding or heating hardmetal blanks or hardmetal products will produce dusts or fumes with dangerous ingredients that can be inhaled, swallowed or come in contact with the skin or eyes.

Acute toxicity

The dust is toxic by inhalation. Inhalation may cause irritation and inflammation in the airways. Skin contact can cause irritation and rash. Sensitized persons may experience an allergic reaction.

Chronic toxicity

Repeated inhalation of aerosols containing cobalt may cause obstruction in the airways. Prolonged inhalation of increased concentrations may cause lung fibrosis or lung cancer. Epidemiological studies indicate that workers exposed in the past to high concentrations of tungsten carbide/cobalt carried an increased risk of developing lung cancer.

Cobalt and nickel are potent skin sensitizers. Repeated or prolonged contact can cause sensitization.

Classification

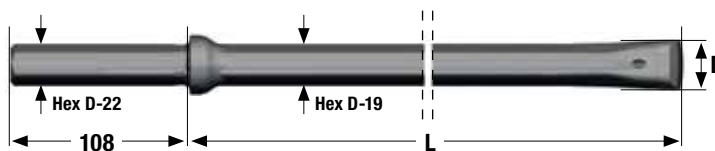
- Following hazard classification according to GHS/CLP applies to the hardmetal powder ($2.5\% \leq \text{Co} < 25\%$):
- Acute Inhalation 3, H331: Toxic if inhaled
- Carc. Cat. 2, H351: Suspected of causing cancer by inhalation
- Repr. 2, H361; Suspected of damaging fertility.
- STOT RE 1, H372: Causes damage to lungs through prolonged or repeated exposure by inhalation
- Resp. Sens. 1B, H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled
- Skin Sens.1, H317: May cause an allergic skin reaction
- Eye Irrit. 2, H319: Causes serious eye irritation
- Aquatic Acute 1, H400: Very toxic to aquatic life
- Aquatic Chronic 2, H411: Toxic to aquatic life with long lasting effects

Precautionary Statements

- Do not breathe dust
- Wear protective gloves/protective clothing/eye protection.
- Use personal protective equipment as required. In case of inadequate ventilation wear respiratory protection
- Avoid release to the environment
- IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician
- If skin irritation or rash occurs: Get medical advice/attention

Code key Integral Drill Steels

7XX - YYZZ - QQ



Main code 7XX	Sub code YYZZ	3:rd code group QQ
714 = 22x108 shank, Hex 22 chisel	YY = effective length in dm ZZ = bit diameter in mm	50 = insert height 17 mm 65 = insert height 19 mm
724 = 19x108 shank, Hex 19 chisel	YY = effective length in dm ZZ = bit diameter in mm	
728 = 22x108 shank, Hex 19 chisel	YY = effective length in dm ZZ = bit diameter in mm	

Code key tapered bits

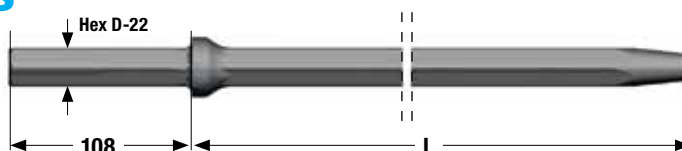
7XXX - YYZZ - QQ



Main code 7XXX	Sub code YYZZ	3:rd code group QQ
7770 = 12deg Long skirt 7776 = 11deg 7788 = 7deg 7795 = 12deg Short skirt	YY = 19, 3 gauge buttons YY = 44/52 Normal, 5 gauge buttons YY = 54, 6 gauge buttons YY = 64 Normal, 4 gauge buttons YY = 90 Cross bit HD ZZ = Bit diameter in mm	(Q) = S spherical buttons (Q) = B ballistic buttons QQ = 42 CC-grade 442 (inserts) QQ = 48 CC-grade XT48 (buttons)

Code key tapered rods

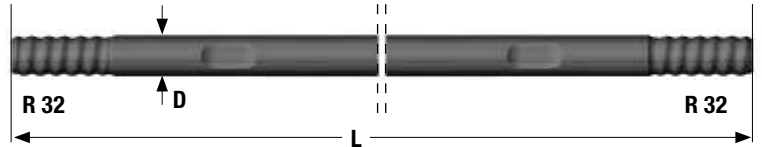
7XXX - YYZZ - QQ



Main code 7XXX	Sub code YYZZ	3:rd code group QQ
7870 = 12deg 7876 = 11deg 7888 = 7deg	YY = 11 HF hardened, Sanbar 20 YY = 51 HF hardened, Sanbar 61 YY = 61 Carburized, Sanbar 64 ZZ = approximate length in dm	11 = no packing

Code key extension rods

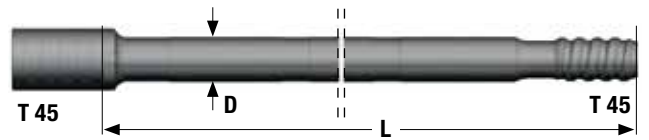
7XXX – YYZZ – QQ



Main code 7XXX	Sub code YYZZ	3:rd code group QQ
7851 = R22 7852 = R25 7853 = R32 7854 = R38 7857 = R23	YY = 13 Hex22 YY = 23 Hex25 YY = 33 Round33 YY = 43 Round39 ZZ = approximate length in dm	20 = Carburized 30 = HF-hardened
7324 = T38 7325 = T45 7326 = T51	YY = 43 Round39 YY = 73 Round46 YY = 53 Round52 ZZ = approximate length in dm	20 = Carburized 30 = HF-hardened

Code key MF rods

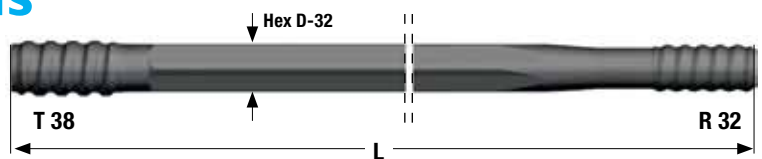
7XXX – YYZZ – QQ



Main code 7XXX	Sub code YYZZ	3:rd code group QQ
7853 = R32 7857 = R23	YY = 48 Hex22 YY = 51 Round32 ZZ = approximate length in dm	20 = Carburized
7324 = T38 7325 = T45 7326 = T51 7327 = T35 7610 = GT60	YY = 47 Round39 YY = 77 Round46 YY = 55 Round52 YY = 11 Round60 YY = 14 Round60, for 92mm bits ZZ = approximate length in dm	20 = Carburized 70 = Sandvik Tough

Code key drifter rods

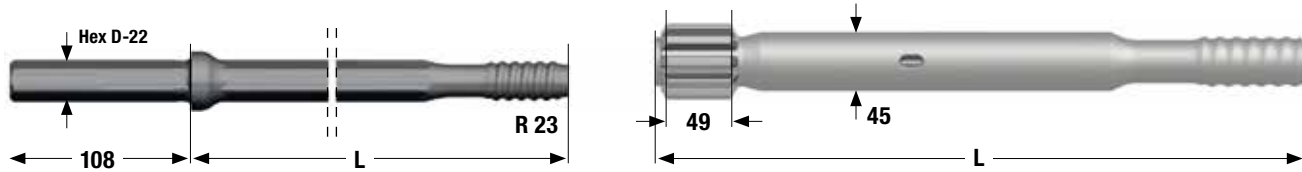
7XXX – YYZZ – Q



Main code 7XXX	Subcode YY ZZ = approximate length in dm	3:rd code group Q
7853 = R32 shank end 7854 = R38 shank end 7324 = T38 shank end 7327 = T35 shank end	Code	20 = Carburized
	24	Hex25 R25
	30	Hex28 R25
	76	Hex28 R28
	87	Hex32 R28
	65	MF-drifter Hex35 R32
	86	Hex32 R32
	96	Hex35 R32
	67	Hex35 α330
	70	Round39 α330
	72	Round39 R35
	85	Hex35 R35
	52	MF-drifter Round39 R35

Code key shank rods and shank adapters

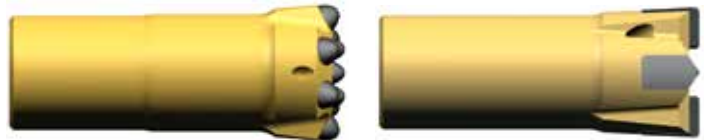
7XXX - YYZZ - QQ



Main code 7XXX	Sub code YYZZ	3:rd code group QQ
7801 = R22 7802 = R25 7803 = R32 7804 = R38 7807 = R23 7814 = α 250 7304 = T38 7305 = T45 7306 = T51 7307 = T35 7328 = ST58 7329 = ST68 7600 = GT60	Shank rods: YY = 61 Hex22 YY = 71 Hex25 ZZ = approximate length in dm	Shank rods: 11= shank H22X108, no packing 21=shank H25X159, no packing 30= Shank H25x108, no packing Shank adapters: 01,02,03,05 = separate flushing 19 = 19mm packing 23 = 23mm packing 30 = 10mm packing 40 = 11mm packing 50 = 12,7mm packing 60/61 = 14mm packing 80 = 16mm packing

Code key drifter bits

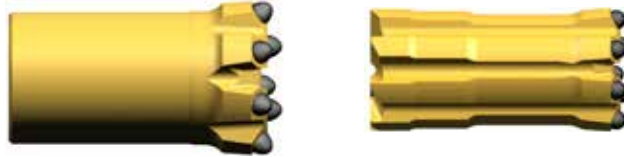
7XXX - YYZZ - (Q) QQ



Main code 7XXX	Sub code YYZZ	3:rd code group QQ
7731 = R22 7732 = R25 7733 = R32 7737 = R23 7738 = R35 7739 = R28 7764 = α 250 7767 = α 330	YY = 10 Cross bit Normal YY = 13/14 Cross bit HD YY = 16 Normal bit with 6 gauge buttons YY = 44 Normal bit 5 gauge buttons YY = 52 HD bit 5 gauge buttons YY = 53 Normal bit 6 gauge buttons YY = 54 Normal bit 6 gauge buttons ZZ = Bit diameter in mm	(Q) = S spherical buttons (Q) = R ballistic buttons (Q) = C conical buttons QQ = 11 CC-grade 411 (inserts) QQ = 42 CC-grade 442 (inserts) QQ = 48 CC-grade XT48 (buttons) QQ = 55 CC-grade DP55 (buttons) QQ = 65 CC-grade DP65 (buttons)

Code key big threaded bits

7XXX - YYZZ - (Q) QQ



Main code 7XXX	Sub code YYZZ	3:rd code group QQ
7734 = R38 7514 = T38 7515 = T45 7516 = T51 7517 = T35 7620 = GT60	YY = 16 HD bit 6 gauge buttons YY = 18 HD bit 8 gauge buttons YY = 19 HD bit 9 gauge buttons YY = 26 Button bit Normal YY = 38 Button bit HD YY = 40 HD X-bit YY = 46 HD retrac bit 6 gauge buttons YY = 48 HD retrac bit 8 gauge buttons YY = 49 HD retrac bit 9 gauge buttons YY = 78 Retractable bit with buttons ZZ = Bit diameter in mm	(Q) = S spherical buttons (Q) = R ballistic buttons QQ = 11 CC-grade 411 (inserts) QQ = 42 CC-grade 442 (inserts) QQ = 48 CC-grade XT48 (buttons) QQ = 55 CC-grade DP55 (buttons) QQ = 65 CC-grade DP65 (buttons)

Code key couplings

7XXX - YYZZ



Main code 7XXX	Sub code YYZZ
7991 = R22 7992 = R25 7993 = R32 7994 = R38 7314 = T38 7315 = T45 7316 = T51 7317 = T35	YY = 04 R28 adapter thread YY = 20 Tough hardened, same thread both ends YY = 24 R25 adapter thread YY = 33 Tough hardened, same thread both ends YY = 34/35 R32 adapter thread YY = 36 Carburized, same thread both ends YY = 44 R38 adapter thread YY = 52 T38 Adapter thread YY = 62 T45 adapter thread ZZ = Outer diameter in mm

Code key bit adapters

7XXX - YY01



Main code 7XXX	Sub code YYZZ
7832 = R25 internal thread 7833 = R32 internal thread 7834 = R38 internal thread 7837 = R23 internal thread 7839 = R28 internal thread 7334 = T38 internal thread 7335 = T45 internal thread 7336 = T51 internal thread 7337 = T35 internal thread	YY = 33 R32 external thread YY = 43 R38 external thread YY = 44 T38 external thread YY = 54 T45 external thread YY = 64 T51 external thread

Numerical index with weight table

Part No.	Weight (kg)	Page	Part No.	Weight (kg)	Page	Part No.	Weight (kg)	Page
714-0434-65	1,8	19	721-2020	0,8	25	7304-7526-80	6,3	89
714-0635-65	2,5	19	721-2420	0,8	25	7304-7531-01	4,0	78
714-0641-65	2,5	19	721-2820	0,9	25	7304-7532-01	5,9	80
714-0829	3,0	19	721-3120	1,0	25	7304-7535-02	4,6	78
714-0833-65	3,0	19	724-0424	1,3	18	7304-7536-01	4,3	78
714-0834-65	3,0	19	724-0429	1,3	18	7304-7537-01	5,5	80
714-0840-65	3,1	19	724-0627	1,7	18	7304-7541-02	6,6	80
714-1232-65	4,3	19	724-0823	2,1	18	7304-7543-60	3,6	89, 90
714-1234-65	4,3	19	724-0828	2,2	18	7304-7544-01	7,3	91
714-1240-65	4,3	19	724-1226	3,0	18	7304-7554-01	5,3	78
714-1628-50	5,4	19	724-1627	5,0	18	7304-7557-01	5,6	78
714-1631	5,5	19	724-2426	5,7	18	7304-7576-01	6,9	80
714-1633-65	5,5	19	728-0424	1,4	18	7304-7577-02	8,4	80
714-1639-65	5,5	19	728-0429	1,4	18	7304-7581-60	5,2	89
714-1833-65	6,1	19	728-0828	2,3	18	7304-7583-40	5,8	83
714-1839-65	6,1	19	728-1627	3,9	18	7304-7585-01	5,3	79
714-2030	6,5	19	7304-3550-01	5,4	86	7304-7586-01	5,7	79
714-2033-65	6,6	19	7304-3590-03	4,1	83, 85, 86	7304-7664-01	6,4	79
714-2427-50	7,9	19	7304-3591-01	4,8	83, 85, 86	7304-7666-01	6,5	79
714-2432-65	7,9	19	7304-3593-01	4,7	85, 86	7304-7668-01	7,0	79
714-2438-65	7,9	19	7304-3652-01	3,8	86	7304-7669-01	5,6	79
714-3231	10	19	7304-3655-01	6,2	87	7304-7671-01	7,7	79
714-3237-65	10	19	7304-3656-01	4,5	86	7304-7672-01	3,5	77
714-4030	13	19	7304-3666-01	3,9	87	7304-7673-01	7,0	79
714-4036-65	13	19	7304-3690-02	6,7	87	7304-7685-01	7,0	79
714-4829	15	19	7304-3825-02	9,9	87	7305-3591-01	5,1	85, 86
714-4835-65	15	19	7304-4200-30	3,0	84	7305-3593-01	5,8	85, 86
714-5628-50	18	19	7304-4500-60	2,8	84	7305-3655-01	6,5	87
714-5634-65	18	19	7304-4700-01	4,0	78	7305-3667-01	4,5	87
714-6427-50	20	19	7304-4700-50	3,3	77	7305-3690-02	6,9	87
714-6433-65	20	19	7304-4706-01	4,7	78	7305-3826-02	10	87
714-7226-50	23	19	7304-4720-01	3,8	91	7305-4791-01	6,3	89
714-7232-65	23	19	7304-4725-01	3,6	91	7305-6008-01	8,9	81
714-8026-50	25	19	7304-4780-01	6,4	89	7305-6010-01	9,7	81
714-8825-5005	27	19	7304-4791-01	6,0	89	7305-7400-01	9,1	80
714-9625-5005	30	19	7304-4993-01	5,5	88	7305-7414-01	8,9	89
721-1517	0,6	25	7304-7426-01	6,3	89	7305-7417-01	9,5	89
721-1620	0,7	25	7304-7500-60	4,0	83, 89, 90	7305-7520-01	5,6	91
721-1622	0,7	25	7304-7502-60	5,4	84, 91	7305-7525-19	5,5	90
721-1922	0,8	25	7304-7525-19	5,4	90	7305-7526-80	6,6	89

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7305-7537-01	5,8	80	7307-7673-01	7,0	79	7324-8643-20	28	36
7305-7541-02	6,9	80	7307-7685-01	7,0	79	7324-9631-20	24	36
7305-7546-19	7,8	90	7314-3355	2,0	52	7324-9637-20	28	36
7305-7551-01	7,6	80	7314-3555	2,3	96	7324-9643-20	32	36
7305-7557-01	5,9	78	7314-3652	1,6	36, 40, 41	7324-9649-20	37	36
7305-7559-19	6,1	90	7314-4455	1,9	96	7324-9655-20	42	36
7305-7576-01	7,2	80	7314-6258	2,0	96	7324-9661-20	44	36
7305-7577-02	8,7	80	7314-6261	2,9	96	7324-9664-20	46	36
7305-7586-01	6,2	79	7315-3663	2,7	54	7325-7331C-30	33	54, 56
7306-3655-02	6,8	87	7316-3671	3,7	56	7325-7337C-30	40	54, 56
7306-3689-01	11	87	7316-3676	4,6	56	7325-7343C-30	47	54, 56
7306-3690-03	7,2	87	7316-6271	4,0	96	7325-7712C-20	14	68
7306-3692-01	9,5	87	7324-4331C-30	24	52	7325-7715C-20	18	68
7306-3699-01	14	87	7324-4337C-30	29	52	7325-7718C-20	21	68
7306-6008-01	9,3	81	7324-4712C-20	11	66	7325-7731-70	35	54
7306-6010-02	10	81	7324-4715C-20	12	66	7325-7737-70	41	54
7306-6014-02	12	81	7324-4718C-20	15	66	7325-7743-70	48	54
7306-6021-02	11	82	7324-4731-70	25	52	7325-7761-70	70	54
7306-6022-02	13	82	7324-4737-70	30	52	7326-5515C-20	23	70
7306-6025-02	16	81	7324-4743-70	36	52	7326-5518C-20	27	70
7306-7400-02	8,9	80	7324-6537-20	29	36	7326-5537-70	50	56
7306-7528-02	8,9	91	7324-6543-20	34	36	7326-5543-70	57	56
7306-7530-02	16	91	7324-6731-20	25	39	7326-5561-70	87	56
7306-7551-02	8,1	80	7324-6737-20	29	39	7327-4718-20	16	64
7306-7577-03	8,8	80	7324-6743-20	34	39	7327-4731-20	25	43, 50
7307-3593-01	4,5	86	7324-6749-20	39	39	7327-4737-20	32	43, 50
7307-3652-01	3,7	86	7324-6755-20	44	39	7327-4743-20	35	43
7307-3656-01	4,2	86	7324-6931-20	18	52	7327-4749-20	40	43
7307-3668-01	4,5	87	7324-7049-20	44	39	7327-5243-20	35	43
7307-3671-01	4,9	87	7324-7055-20	50	39	7327-5249-20	40	43
7307-3690-01	6,9	87	7324-7061-20	57	39	7327-5255-20	45	43
7307-7535-02	4,5	78	7324-7064-20	57	39	7327-5261-20	50	43
7307-7557-01	5,6	78	7324-7243-20	35	41	7328-3720-01	26	88
7307-7566-01	4,9	78	7324-7249-20	40	41	7328-6009-02	17	81
7307-7585-01	5,3	79	7324-7255-20	45	41	7328-6020-01	17	82
7307-7586-01	5,6	79	7324-7261-20	49	41	7328-6035-01	22	82
7307-7664-01	6,4	79	7324-8543-20	34	41	7329-3720-01	27	88
7307-7666-01	6,5	79	7324-8549-20	37	41	7329-6009-02	17	81
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7334-3301	2,6	96	7515-2676A-S48	2,5	53, 67	7529-5604A-S65	30	73
7334-4301	3,4	96	7515-2689A-S48	3,1	53, 67	7529-5652C-S65	15	73
7334-5401	3,3	96	7515-4870-R48	2,7	53, 67	7529-6652-S48	9,0	73
7335-4401	2,9	96	7515-4876-R48	3,0	53, 67	7529-6902-S65	5,2	73
7335-6401	3,7	96	7515-4876-S48	3,0	53, 67	7529-7302-R65	5,5	73
7336-5401	3,8	96	7515-4889-R48	4,8	53, 67	7529-7315-R65	7,5	73
7337-4401	1,9	96	7515-4889-S48	4,8	53, 67	7529-8402-R65	5,2	73
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7358-6025-02	17	81	7515-4902-S48	6,8	53, 67	7600-3699-01	14	87
7378-7615-26	33	72	7515-5576A-C60	2,5	53, 67	7600-6014-02	13	81
7378-7618-26	41	72	7515-5627-S48	6,9	67	7600-6022-03	15	82
7379-8715-26	40	73	7515-5652-S48	9,0	67	7600-6025-02	17	81
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7514-4664-S48	2,2	51, 65	7516-4902-R48	6,3	55, 69	7620-1915-S48	7,8	57
7514-4864-R48	2,0	51, 65	7516-4902-S48	6,3	55, 69	7620-1927-S48	9,4	57
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7514-4876-S48	3,5	51, 65	7516-4927-S48	11	55, 69	7620-4902-S48	7,6	57
7514-5564A-C60	1,7	51, 65	7516-5652-S48	9,3	69	7620-4915-R48	9,4	57
7514-5576A-C60	2,2	51, 65	7516-7802-S48	5,7	55, 69	7620-4915-S48	9,6	57
7514-7864A-S48	2,2	51, 65	7516-7889A-S48	4,4	55, 69	7620-4927-S48	13	57
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7640-8743-70	106	58	7733-5443B-R48	0,7	35	7767-5348A-S48	0,9	38
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7721-4889-S48	1,5	37, 40, 42	7733-5557A-C60	1,2	48, 62	7770-4433-B48	0,3	21
7722-4864-S48	0,9	20, 33, 34, 37	7733-5564A-C60	1,3	48, 62	7770-4435-B48	0,3	21
7722-4876-S48	1,3	20, 33, 34, 37	7733-5602P-S48	2,9	37	7770-5233-B48	0,3	21
7722-4889-S48	1,7	20, 33, 34, 37	7737-4433-R48	0,4	27	7770-5235-B48	0,3	21
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7723-4827-S48	5,2	63, 66	7737-5238A-R48	0,4	27	7770-9030-42	0,3	21
7731-1038-42	0,5	26	7737-5241-R48	0,5	27	7770-9032-42	0,3	21
7732-1435-42	0,5	32	7737-5345-R48	0,5	27	7770-9035-42	0,4	21
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7732-4437C-S48	0,5	32	7738-1651A-S48	0,9	41	7776-4432-B48	0,3	23
7732-5235-R48	0,4	28	7738-4654A1-R48	1,3	43	7776-4435-B48	0,3	23
7732-5238-R48	0,5	28, 32	7738-5348A-R48	1,0	41	7776-4436-B48	0,2	23
7732-5238-S48	0,5	28, 32	7738-5348A-S48	1,0	41	7776-4438-B48	0,3	23
7732-5241-R48	0,5	28	7738-5602P-S48	3,2	42	7776-4440-B48	0,3	23
7732-5241-S48	0,5	28, 32	7739-1438-42	0,6	34	7788-5232-B48	0,3	24
7732-5345F-R48	0,7	28	7739-5237-S48	0,5	34	7788-5233-B48	0,3	24
7733-1345A-42	0,8	35	7739-5238-R48	0,6	34	7788-5235-B48	0,4	24
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7733-1657A-S48	1,2	35, 48, 62	7764-5238-R48	0,5	29	7795-5238-B48	0,3	21
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7733-5245A-S48	0,8	35	7767-4651A-S48	1,1	38	7802-7103-14	1,4	76
7733-5248A-S48	0,9	35	7767-5243A-S48	0,7	38	7802-7103-21	1,6	76
7733-5251A-S48	1,0	35	7767-5245A-S48	0,8	38	7802-7567-01	1,0	77
7733-5343A-R48	0,7	35	7767-5248A-S48	0,8	38	7803-3100-30	2,0	84
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7803-3670-02	4,7	86	7807-6124-11	7,7	27	7853-2433-20	12	32
7803-4200-30	2,6	84	7807-6132-11	12	27	7853-2437-20	14	32
7803-4700-01	3,7	78	7807-6136-11	13	27	7853-3309-20	4,8	63
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7803-7532-01	5,7	80	7821-3440	2,8	37	7853-5109-20	5,5	63
7803-7535-02	4,2	78	7821-5440	2,7	42	7853-5112-20	7,5	63
7803-7543-60	4,1	90	7821-6740	2,7	40	7853-5115-20	9,1	63
7803-7547-01	2,6	77	7822-1526	1,9	34	7853-5118-20	11	63
7803-7549-01	2,6	77	7822-2526	1,3	33	7853-5131-20	18	49
7803-7553-01	3,9	78	7822-3526	1,5	37	7853-5137-20	21	49
7803-7557-01	5,4	78	7823-2647	4,6	66	7853-7624-20	12	34
7803-7585-01	5,1	79	7823-3647	4,4	63	7853-7627-20	14	34
7803-7586-01	5,4	79	7832-3301	1,2	96	7853-7631-20	15	34
7803-7663-01	2,0	77	7833-4301	1,8	96	7853-7637-20	20	34
7803-7664-01	5,7	79	7833-4401	1,9	96	7853-7643-20	21	34
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7804-3670-02	4,3	86	7851-1308-20	2,4	26	7854-9631-20	24	36
7804-4700-01	4,1	78	7851-1312-20	3,6	26	7854-9637-20	28	36
7804-4720-01	3,9	91	7851-1316-20	4,8	26	7854-9643-20	33	36
7804-4725-01	3,8	91	7852-2309-20	3,6	28	7854-9649-20	37	36
7804-4993-01	5,5	88	7852-2312-20	4,6	28	7854-9655-20	42	36
7804-7500-60	3,5	90	7852-2315-20	5,7	28	7857-4821-20	6,4	27
7804-7531-01	4,2	78	7852-2318-20	6,9	28	7857-4831-20	10	27
7804-7535-02	4,5	78	7852-2324-20	9,0	28	7870-1140-11	13	22

Numerical index with weight table

Part No.	Weight (kg)	Page	Part No.	Weight (kg)	Page	Part No.	Weight (kg)	Page
7870-1144-11	14	22	795-1469	4,4	97	7985-6315-26	28	71
7870-1148-11	15	22	795-1494	3,5	97	7985-6318-26	32	71
7870-1156-11	18	22	795-1495	5,2	97	7991-2031	0,5	26
7870-1164-11	20	22	795-1604A	1,9	97	7992-2035	0,7	28
7870-1172-11	23	22	795-1605	3,9	97	7993-0444	1,2	96
7870-1180-11	25	22	795-1606	0,6	97	7993-2443	1,1	96
7870-1188-11	27	22	795-1607A	3,9	97	7993-3644	0,9	32, 34, 49, 63
7870-5124-11	7,9	22	795-1608	6,0	97	7994-3455	1,9	96
7870-5132-11	10	22	795-1609A	8,4	97	7994-3655	1,7	36
7870-6106-11	2,2	22	795-1613	1,7	97			
7870-6112-11	4,1	22	795-1676	0,9	97			
7870-6118-11	6,0	22	795-1681	1,5	97			
7870-6120-11	6,5	22	795-1690	2,0	97			
7870-6124-11	7,8	22	795-1696	11	97			
7870-6131-11	9,5	22	795-1699	4,9	97			
7870-6132-11	10	22	795-1960	4,9	98			
7870-6137-11	11	22	795-1961	18	98			
7876-6106-11	2,2	23	795-1962	0,6	98			
7876-6108-11	2,7	23	795-1963	18	98			
7876-6112-11	4,1	23	795-1964	240	98			
7876-6116-11	5,0	23	795-1967	50	98			
7876-6118-11	5,9	23	795-2301-19	0,0	98			
7876-6120-11	6,5	23	795-2301-22	0,0	98			
7876-6124-11	7,8	23	795-2301-25	0,0	98			
7876-6131-11	9,6	23	795-2600	6,6	97			
7876-6136-11	11	23	795-2601	10	97			
7888-6124-11	7,6	24	795-2604	10	97			
7888-6132-11	8,3	24	7953-4618-20	16	63			
7922-6108-11	3,3	20	7953-4631-20	24	49			
7922-6112-11	4,7	20	7955-5618-20	18	66			
7922-6120-11	7,0	20	7955-5637-20	48	52			
7922-6124-11	7,9	20	7956-6318-21	28	68			
795-1331	0,2	98	7956-6337-70	46	54			
795-1332	0,3	98	7956-7637-70	78	54			
795-1333	0,4	98	7957-7618-20	40	70			
795-1334	0,5	98	7957-7637-70	76	56			
795-1408	3,1	97	7957-8737-70	89	56			
795-1431	3,5	97	796-2930	50	98			
795-1432	3,5	97	796-2930-52	60	98			
795-1467	1,1	97	796-2931	5,0	98			

Notes

A series of horizontal dotted lines for writing notes.

Notes



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