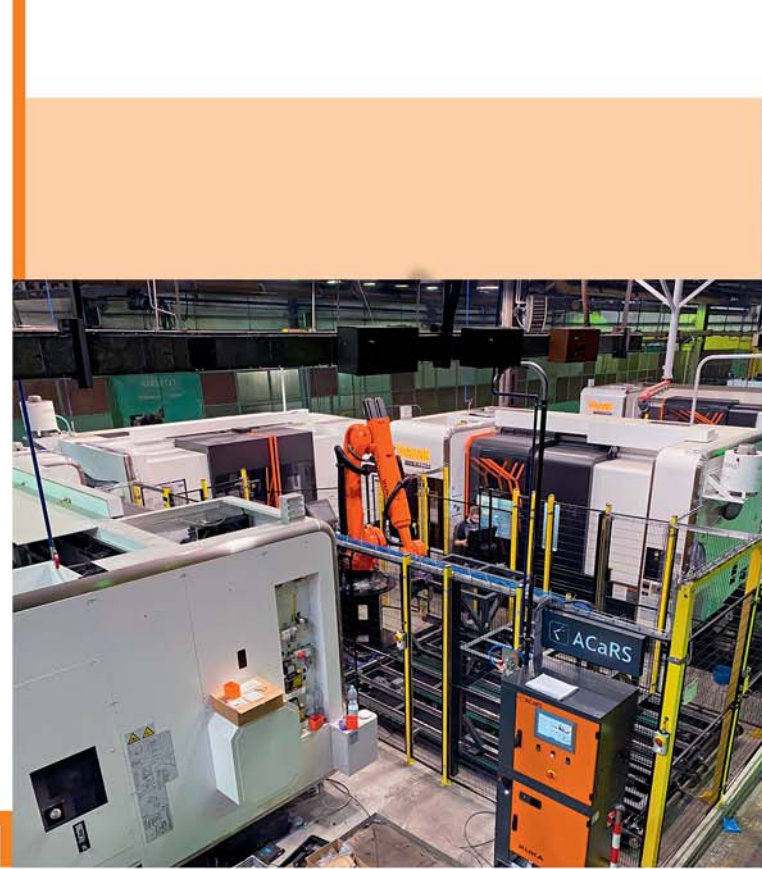


BENCH DRILLING

CATALOGUE

 **qonar**

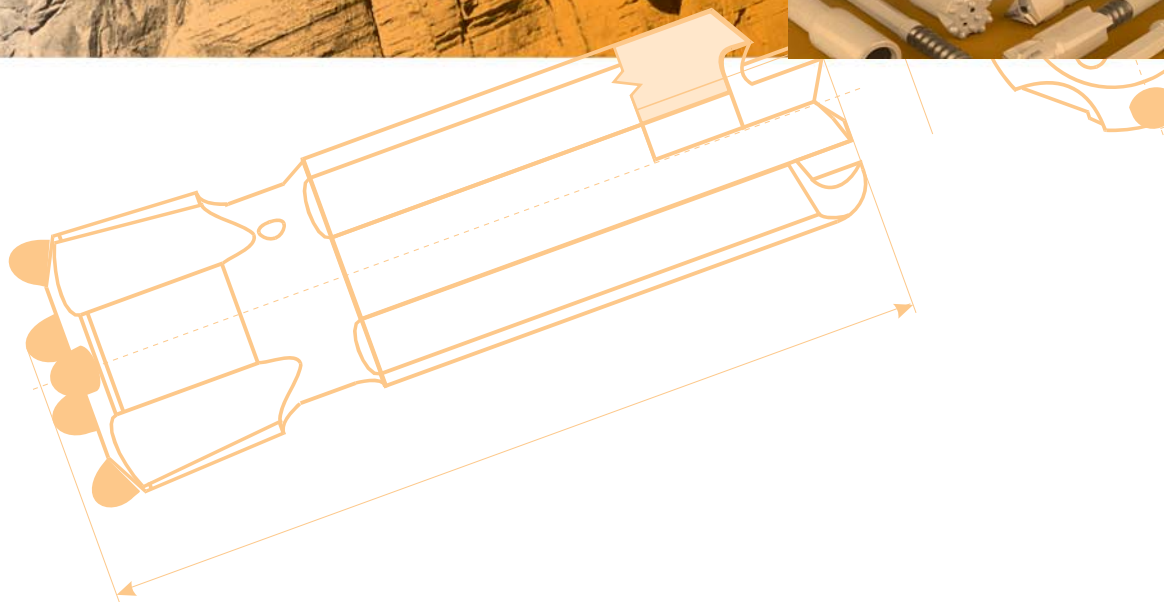




GONAR Co. Ltd. has been operating on the international market since 1974. We have over 50 years of experience in manufacturing of mining, tunnelling & geotech tools. Using raw materials only from certified suppliers in combination with high-tech innovative production facilities, we can guarantee high quality of fully carburised drill steels. Our R&D Department equipped with a testing lab and our Sinter Plant producing carbides in controlled vacuum ovens, assure high manufacturing quality.

We offer a wide range of products with carbide sinters and have the possibility to quickly turn around on prototype tooling and urgent requirements. To sum up we are a dynamic company with an aim to become leaders in technology and product innovation.

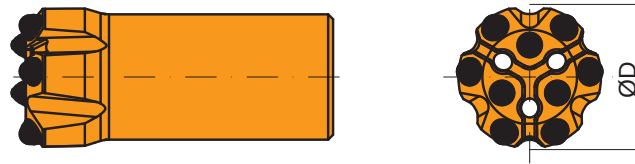




Bits, Rods, Couplings, Bit Adapters

– T35	str. 2-3
– T38	str. 4-13
– T45	str. 14-23
– T51	str. 24-31
– T60	str. 32-37
– GT60	str. 38-42

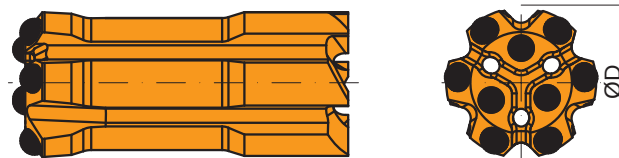
Button bit



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
51	2	1x6	3x6	6x10	3x9	0,9	B58051T3505R
51	2	1x6	3x6	6x10	3x9	0,9	B58051T3505S
54	2 1/8	1x6	3x6	6x11	3x9	1,1	B58054T3505R
54	2 1/8	1x6	3x6	6x11	3x9	1,1	B58054T3505S
57	2 1/4	1x6	3x6	6x11	3x10	1,3	B58057T3505R
57	2 1/4	1x6	3x6	6x11	3x10	1,3	B58057T3505S

R – spherical S – semi - ballistic

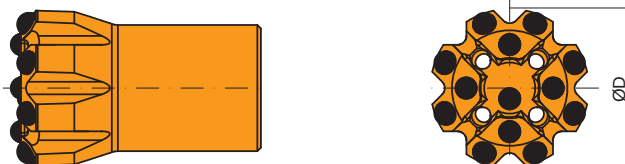
Button bit – RETRAC



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
51	2	1x6	3x6	6x10	3x9	1,2	B59051T3505R
51	2	1x6	3x6	6x10	3x9	1,2	B59051T3505S
54	2 1/8	1x6	3x6	6x11	3x9	1,4	B59054T3505R
54	2 1/8	1x6	3x6	6x11	3x9	1,4	B59054T3505S
57	2 1/4	1x6	3x6	6x11	3x10	1,6	B59057T3505R
57	2 1/4	1x6	3x6	6x11	3x10	1,6	B59057T3505S

R – spherical S – semi - ballistic

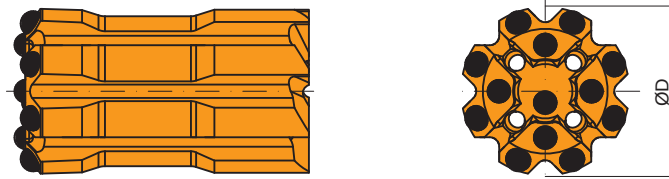
Button bit – DROP CENTER



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
64	2 1/2	-	4x6	8x10	5x9	1,6	B50064T3505C
64	2 1/2	-	4x6	8x10	5x9	1,6	B50064T3505R
64	2 1/2	-	4x6	8x10	5x9	1,6	B50064T3505S
70	2 3/4	-	4x6	8x11	5x10	1,9	B50070T3505C
70	2 3/4	-	4x6	8x11	5x10	1,9	B50070T3505R
70	2 3/4	-	4x6	8x11	5x10	1,9	B50070T3505S
76	3	-	4x6	8x12	5x11	2,6	B50076T3505C
76	3	-	4x6	8x12	5x11	2,6	B50076T3505R
76	3	-	4x6	8x12	5x11	2,6	B50076T3505S

C - conical R – spherical S – semi - ballistic

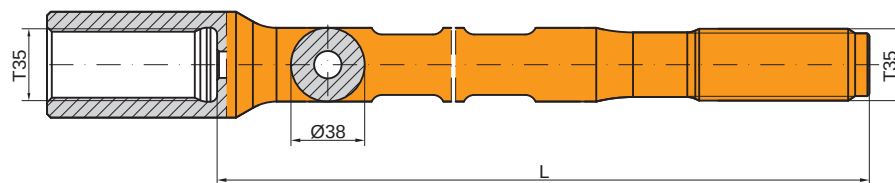
Button bit – DROP CENTER – RETRAC



Diameter		Flushing holes(mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
64	2 ½	-	4x6	8x10	5x9	2,1	B51064T3505C
64	2 ½	-	4x6	8x10	5x9	2,1	B51064T3505R
64	2 ½	-	4x6	8x10	5x9	2,1	B51064T3505S
70	2 ¾	-	4x6	8x11	5x10	2,9	B51070T3505C
70	2 ¾	-	4x6	8x11	5x10	2,9	B51070T3505R
70	2 ¾	-	4x6	8x11	5x10	2,9	B51070T3505S
76	3	-	4x6	8x12	5x11	3,7	B51076T3505C
76	3	-	4x6	8x12	5x11	3,7	B51076T3505R
76	3	-	4x6	8x12	5x11	3,7	B51076T3505S

C - conical
R - spherical
S - semi - ballistic

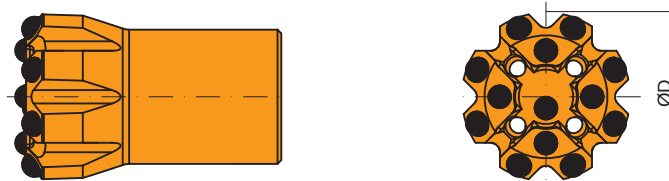
Speed rods / M – F rods



Diameter		Threads	Length			Weight (kg)	Catalogue no.
mm	inch		mm	ft	inch		
38	1 ½	T35/T35	915	3	-	7,1	26323091
38	1 ½	T35/T35	1220	4	-	9,5	26323122
38	1 ½	T35/T35	1525	5	-	12,0	26323152
38	1 ½	T35/T35	1830	6	-	14,5	26323183
38	1 ½	T35/T35	2435	8	-	19,4	26323243
38	1 ½	T35/T35	3050	10	-	24,3	26323305
38	1 ½	T35/T35	3660	12	-	29,3	26323366
38	1 ½	T35/T35	4265	14	-	34,1	26323427
38	1 ½	T35/T35	4915	16	-	39,4	26323491
38	1 ½	T35/T35	5490	18	-	44,0	26323549
38	1 ½	T35/T35	6100	20	-	48,9	26323610

Flushing hole ø 14,5 mm, Female end ø 49 mm

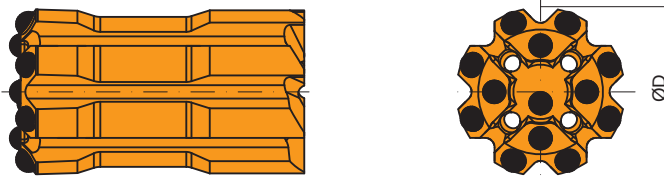
Button bit – DROP CENTER



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
64	2 ½	-	4x8	8x10	5x9	1,7	B50064T3805C
64	2 ½	-	4x8	8x10	5x9	1,7	B50064T3805R
64	2 ½	-	4x8	8x10	5x9	1,7	B50064T3805S
70	2 ¾	-	4x8	8x11	5x10	2,1	B50070T3805C
70	2 ¾	-	4x8	8x11	5x10	2,1	B50070T3805R
70	2 ¾	-	4x8	8x11	5x10	2,1	B50070T3805S
76	3	-	4x8	8x12	5x11	2,7	B50076T3805C
76	3	-	4x8	8x12	5x11	2,7	B50076T3805R
76	3	-	4x8	8x12	5x11	2,7	B50076T3805S
89	3 ½	-	4x9	8x13	5x12	3,5	B50089T3805C
89	3 ½	-	4x9	8x13	5x12	3,5	B50089T3805R
89	3 ½	-	4x9	8x13	5x12	3,5	B50089T3805S
102	4	-	4x9	8x14	6x13	4,8	B50102T3805C
102	4	-	4x9	8x14	6x13	4,8	B50102T3805R
102	4	-	4x9	8x14	6x13	4,8	B50102T3805S

C - conical
R - spherical
S - semi - ballistic

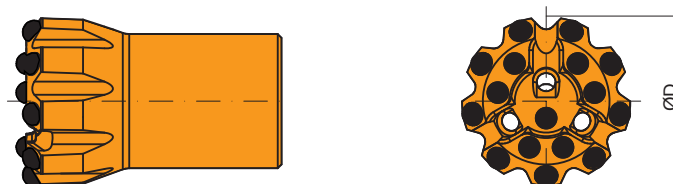
Button bit – DROP CENTER – RETRAC



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
64	2 ½	-	4x8	8x10	5x9	2,1	B51064T3805C
64	2 ½	-	4x8	8x10	5x9	2,1	B51064T3805R
64	2 ½	-	4x8	8x10	5x9	2,1	B51064T3805S
70	2 ¾	-	4x8	8x11	5x10	2,9	B51070T3805C
70	2 ¾	-	4x8	8x11	5x10	2,9	B51070T3805R
70	2 ¾	-	4x8	8x11	5x10	2,9	B51070T3805S
76	3	-	4x8	8x12	5x11	3,7	B51076T3805C
76	3	-	4x8	8x12	5x11	3,7	B51076T3805R
76	3	-	4x8	8x12	5x11	3,7	B51076T3805S
89	3 ½	-	4x9	8x13	5x12	5,2	B51089T3805C
89	3 ½	-	4x9	8x13	5x12	5,2	B51089T3805R
89	3 ½	-	4x9	8x13	5x12	5,2	B51089T3805S
102	4	-	4x9	8x14	6x13	7,2	B51102T3805C
102	4	-	4x9	8x14	6x13	7,2	B51102T3805R
102	4	-	4x9	8x14	6x13	7,2	B51102T3805S

C - conical
R - spherical
S - semi - ballistic

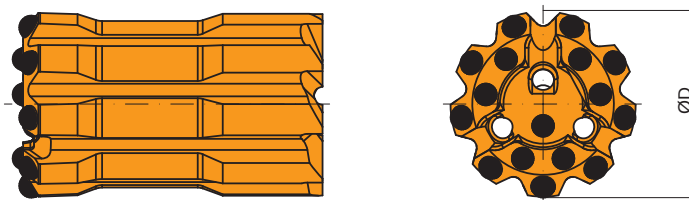
Button bit – DROP CENTER



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
64	2 ½	-	3x8	9x10	4x9	1,7	B60064T3805C
64	2 ½	-	3x8	9x10	4x9	1,7	B60064T3805R
64	2 ½	-	3x8	9x10	4x9	1,7	B60064T3805S
70	2 ¾	-	3x8	9x11	4x10	2,1	B60070T3805C
70	2 ¾	-	3x8	9x11	4x10	2,1	B60070T3805R
70	2 ¾	-	3x8	9x11	4x10	2,1	B60070T3805S
76	3	-	3x9	9x12	4x10	2,4	B60076T3805C
76	3	-	3x9	9x12	4x10	2,4	B60076T3805R
76	3	-	3x9	9x12	4x10	2,4	B60076T3805S
89	3 ½	-	3x10	9x12	7x11	3,9	B60089T3805C
89	3 ½	-	3x10	9x12	7x11	3,9	B60089T3805R
89	3 ½	-	3x10	9x12	7x11	3,9	B60089T3805S
102	4	-	3x10	9x13	7x12	4,9	B60102T3805C
102	4	-	3x10	9x13	7x12	4,9	B60102T3805R
102	4	-	3x10	9x13	7x12	4,9	B60102T3805S

C - conical
R – spherical
S – semi - ballistic

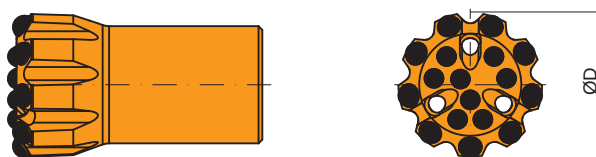
Button bit – DROP CENTER – RETRAC



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
64	2 ½	-	3x8	9x10	4x9	1,9	B61064T3805C
64	2 ½	-	3x8	9x10	4x9	1,9	B61064T3805R
64	2 ½	-	3x8	9x10	4x9	1,9	B61064T3805S
70	2 ¾	-	3x8	9x11	4x10	2,6	B61070T3805C
70	2 ¾	-	3x8	9x11	4x10	2,6	B61070T3805R
70	2 ¾	-	3x8	9x11	4x10	2,6	B61070T3805S
76	3	-	3x9	9x12	4x10	3,3	B61076T3805C
76	3	-	3x9	9x12	4x10	3,3	B61076T3805R
76	3	-	3x9	9x12	4x10	3,3	B61076T3805S
89	3 ½	-	3x10	9x12	7x11	4,9	B61089T3805C
89	3 ½	-	3x10	9x12	7x11	4,9	B61089T3805R
89	3 ½	-	3x10	9x12	7x11	4,9	B61089T3805S
102	4	-	3x10	9x13	7x12	6,7	B61102T3805C
102	4	-	3x10	9x13	7x12	6,7	B61102T3805R
102	4	-	3x10	9x13	7x12	6,7	B61102T3805S

C - conical
R – spherical
S – semi - ballistic

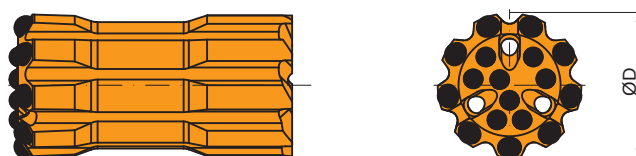
Button bit – FLAT FACE



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
64	2 ½	-	3x8	9x10	8x8	1,7	B52064T3805R
64	2 ½	-	3x8	9x10	8x8	1,7	B52064T3805S
76	3	-	3x9	9x12	8x10	2,8	B52076T3805R
76	3	-	3x9	9x12	8x10	2,8	B52076T3805S
89	3 ½	-	3x10	9x13	9x11	3,5	B52089T3805R
89	3 ½	-	3x10	9x13	9x11	3,5	B52089T3805S
102	4	-	3x10	9x14	9x12	4,5	B52102T3805R
102	4	-	3x10	9x14	9x12	4,5	B52102T3805S

R – spherical
S – semi - ballistic

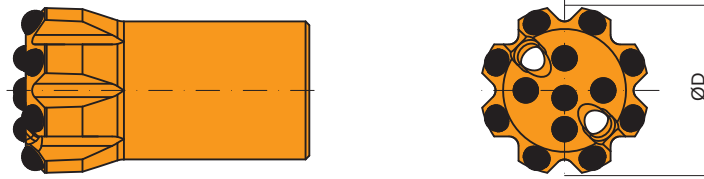
Button bit – FLAT FACE – RETRAC



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
64	2 ½	-	3x8	9x10	8x8	2,1	B53064T3805R
64	2 ½	-	3x8	9x10	8x8	2,1	B53064T3805S
76	3	-	3x9	9x12	8x10	3,6	B53076T3805R
76	3	-	3x9	9x12	8x10	3,6	B53076T3805S
89	3 ½	-	3x10	9x13	9x11	5,2	B53089T3805R
89	3 ½	-	3x10	9x13	9x11	5,2	B53089T3805S
102	4	-	3x10	9x14	9x12	6,4	B53102T3805R
102	4	-	3x10	9x14	9x12	6,4	B53102T3805S

R – spherical
S – semi - ballistic

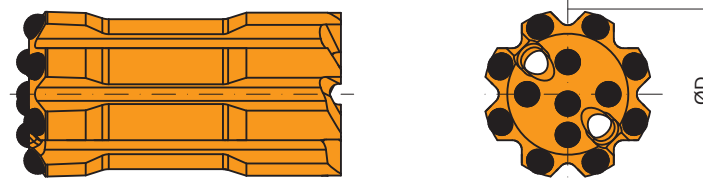
Button bit – FLAT FACE – Heavy Duty



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
64	2 ½	-	2x9	8x11	4x10	1,8	B52064T3815R
70	2 ¾	-	2x9	8x12	4x11	2,4	B52070T3815R
76	3	-	2x10	8x13	4x12	2,8	B52076T3815R
89	3 ½	-	2x11	8x14	5x13	3,6	B52089T3815R
102	4	-	2x11	8x15	6x14	5,0	B52102T3815R

R – spherical

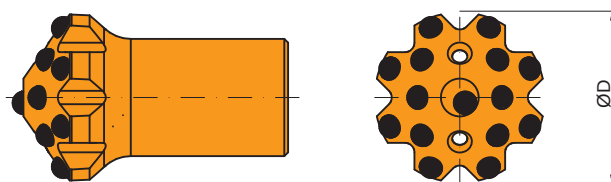
Button bit – FLAT FACE – Heavy Duty – RETRAC



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
64	2 ½	-	2x9	8x11	4x10	2,2	B53064T3815R
70	2 ¾	-	2x9	8x12	4x11	3,1	B53070T3815R
76	3	-	2x10	8x13	4x12	3,7	B53076T3815R
89	3 ½	-	2x11	8x14	5x13	5,2	B53089T3815R
102	4	-	2x11	8x15	6x14	7,4	B53102T3815R

R – spherical

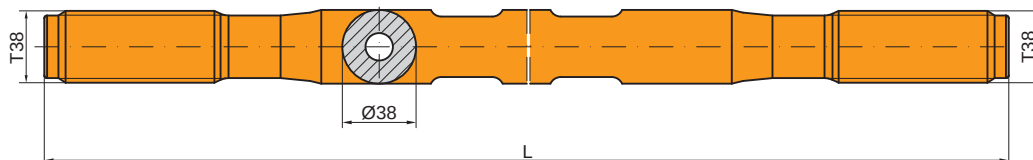
Reaming bit



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
70	2 ¾	-	2x8	8x11	5x10	2,3	B54070T3805R
70	2 ¾	-	2x8	8x11	5x10	2,3	B54070T3805S
76	3	-	2x9	8x12	7x11	2,5	B54076T3805R
76	3	-	2x9	8x12	7x11	2,5	B54076T3805S
89	3 ½	-	2x9	8x12	7x12	3,1	B54089T3805R
89	3 ½	-	2x9	8x12	7x12	3,1	B54089T3805S
102	4	-	2x10	8x12	9x12	4,1	B54102T3805R
102	4	-	2x10	8x12	9x12	4,1	B54102T3805S
115	4 ½	-	2x10	9x13	8x12	6,4	B54115T3805R
115	4 ½	-	2x10	9x13	8x12	6,4	B54115T3805S
127	5	-	2x10	8x15	9x14	7,8	B54127T3805R
127	5	-	2x10	8x15	9x14	7,8	B54127T3805S

R – spherical
S – semi - ballistic

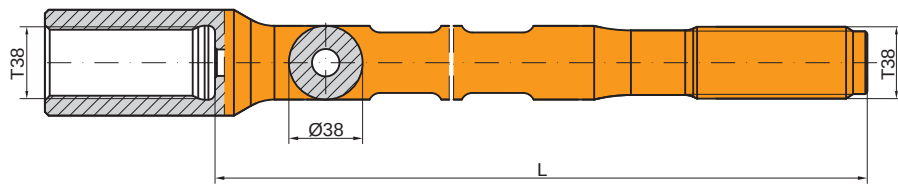
Extension rods



Diameter		Threads	Length			Weight (kg)	Catalogue no.
mm	inch		mm	ft	inch		
38	1 ½	T38/T38	915	3	-	7,0	23222091
38	1 ½	T38/T38	1220	4	-	9,5	23222122
38	1 ½	T38/T38	1525	5	-	11,9	23222152
38	1 ½	T38/T38	1830	6	-	14,4	23222183
38	1 ½	T38/T38	2435	8	-	19,3	23222243
38	1 ½	T38/T38	3050	10	-	24,3	23222305
38	1 ½	T38/T38	3660	12	-	29,2	23222366
38	1 ½	T38/T38	4265	14	-	34,1	23222426
38	1 ½	T38/T38	4915	16	-	39,3	23222491
38	1 ½	T38/T38	5490	18	-	44,0	23222549
38	1 ½	T38/T38	6100	20	-	48,9	23222610

Flushing hole ø 14,5 mm

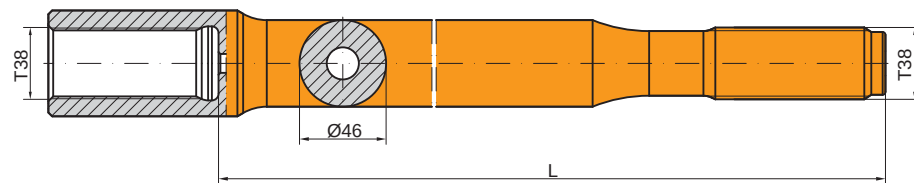
Speed rods / M – F rods



Diameter		Threads	Length			Weight (kg)	Catalogue no.
mm	inch		mm	ft	inch		
38	1 ½	T38/T38	915	3	-	7,1	26223091
38	1 ½	T38/T38	1220	4	-	9,5	26223122
38	1 ½	T38/T38	1525	5	-	12,0	26223152
38	1 ½	T38/T38	1830	6	-	14,5	26223183
38	1 ½	T38/T38	2435	8	-	19,4	26223243
38	1 ½	T38/T38	3050	10	-	24,3	26223305
38	1 ½	T38/T38	3660	12	-	29,3	26223366
38	1 ½	T38/T38	4265	14	-	34,1	26223426
38	1 ½	T38/T38	4915	16	-	39,4	26223491
38	1 ½	T38/T38	5490	18	-	44,0	26223549
38	1 ½	T38/T38	6100	20	-	48,9	26223610

Flushing hole ø 14,5 mm, Female end ø 56 mm

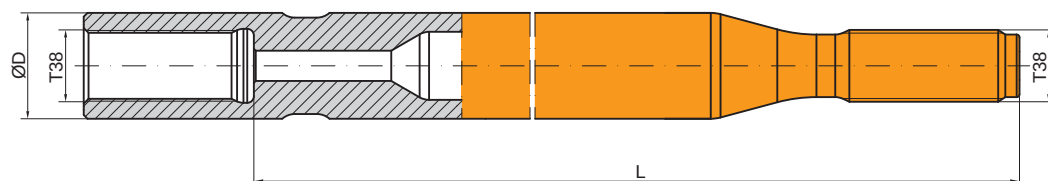
Guide rods / M – F rods



Diameter		Threads	Length			Weight (kg)	Catalogue no.
mm	inch		mm	ft	inch		
46	1 ¾	T38/T38	915	3	-	9,5	266260913
46	1 ¾	T38/T38	1220	4	-	12,8	266261223
46	1 ¾	T38/T38	1525	5	-	16,2	266261523
46	1 ¾	T38/T38	1830	6	-	19,5	266261833
46	1 ¾	T38/T38	2435	8	-	26,2	266262433
46	1 ¾	T38/T38	3050	10	-	33,0	266263053
46	1 ¾	T38/T38	3660	12	-	39,7	266263663
46	1 ¾	T38/T38	4265	14	-	46,3	266264263
46	1 ¾	T38/T38	4915	16	-	53,5	266264913
46	1 ¾	T38/T38	5490	18	-	59,8	266265493
46	1 ¾	T38/T38	6100	20	-	66,5	266266103

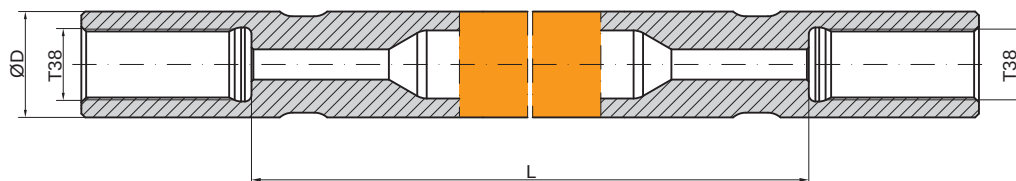
Flushing hole ø 17 mm, Female end ø 56 mm

Guide tube rods



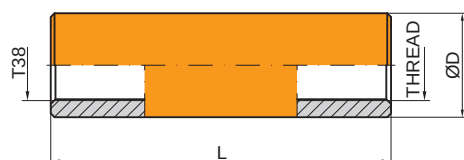
Diameter		Threads	Length			Weight (kg)	Catalogue no.
mm	inch		mm	ft	inch		
56	2 ¼	T38/T38	1525	5	-	18,6	1256T38T38152
56	2 ¼	T38/T38	1830	6	-	22,1	1256T38T38183
56	2 ¼	T38/T38	3050	10	-	35,9	1256T38T38305
56	2 ¼	T38/T38	3660	12	-	42,8	1256T38T38366
63	2 ½	T38/T38	3660	12	-	49,4	1263T38T38366

Guide tube rods



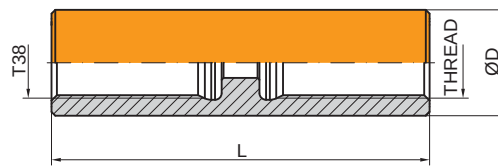
Diameter		Threads	Length			Weight (kg)	Catalogue no.
mm	inch		mm	ft	inch		
56	2 ¼	T38/T38	1525	5	-	19,5	1356T38T38152
56	2 ¼	T38/T38	1830	6	-	23,0	1356T38T38183
56	2 ¼	T38/T38	3050	10	-	36,8	1356T38T38305
56	2 ¼	T38/T38	3660	12	-	43,7	1356T38T38366
63	2 ½	T38/T38	3660	12	-	52,4	1363T38T38366

Coupling sleeve



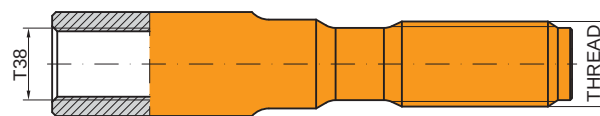
Diameter		Threads	Length		Weight (kg)	Catalogue no.
mm	inch		mm	inch		
56	2 ¼	T38/T38	180	7 ½	19,5	3922200

Full bridge



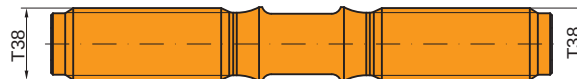
Diameter		Threads	Length		Weight (kg)	Catalogue no.
mm	inch		mm	inch		
56	2 ¼	T38/R32	185	7	2,4	3947201
56	2 ¼	T38/T38	200	7 ⅞	2,5	3922201

M – F adapters



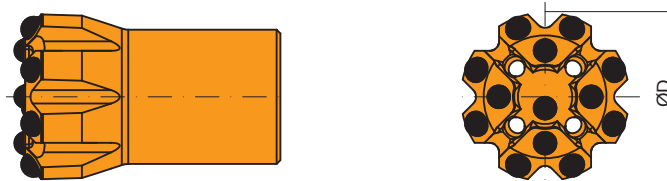
Threads female/male	Length		Weight (kg)	Catalogue no.
	mm	inch		
T38/R32	240	9 ½	2,4	39472061
T38/T45	275	10 ¾	3,2	3922306

M – M adapters



Threads male/male	Length		Weight (kg)	Catalogue no.
	mm	inch		
T38/T38	265	10 ⅞	1,9	3838T38T3800

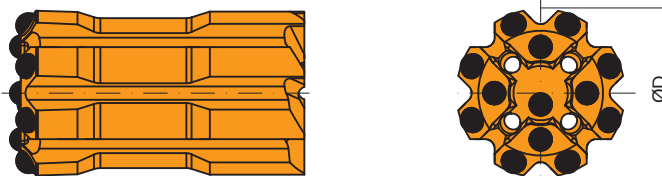
Button bit – DROP CENTER



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
70	2 ¾	-	4x8	8x11	5x10	2,3	B50070T4505C
70	2 ¾	-	4x8	8x11	5x10	2,3	B50070T4505R
70	2 ¾	-	4x8	8x11	5x10	2,3	B50070T4505S
76	3	-	4x8	8x12	5x11	2,7	B50076T4505C
76	3	-	4x8	8x12	5x11	2,7	B50076T4505R
76	3	-	4x8	8x12	5x11	2,7	B50076T4505S
89	3 ½	-	4x9	8x13	5x12	3,8	B50089T4505C
89	3 ½	-	4x9	8x13	5x12	3,8	B50089T4505R
89	3 ½	-	4x9	8x13	5x12	3,8	B50089T4505S
102	4	-	4x9	8x14	6x13	4,8	B50102T4505C
102	4	-	4x9	8x14	6x13	4,8	B50102T4505R
102	4	-	4x9	8x14	6x13	4,8	B50102T4505S
115	4 ½	-	4x9	8x15	6x14	6,0	B50115T4505C
115	4 ½	-	4x9	8x15	6x14	6,0	B50115T4505R
115	4 ½	-	4x9	8x15	6x14	6,0	B50115T4505S
127	5	-	4x10	8x15	4x15,4x13	8,8	B50127T4505C
127	5	-	4x10	8x15	4x15,4x13	8,8	B50127T4505R
127	5	-	4x10	8x15	4x15,4x13	8,8	B50127T4505S

C - conical
R - spherical
S - semi - ballistic

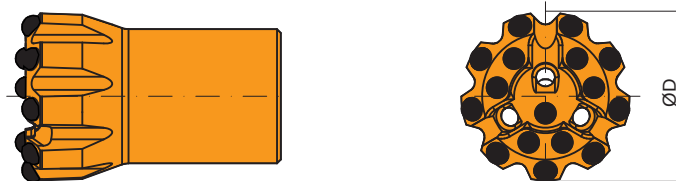
Button bit – DROP CENTER – RETRAC



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
70	2 ¾	-	4x8	8x11	5x10	2,6	B51070T4505C
70	2 ¾	-	4x8	8x11	5x10	2,6	B51070T4505R
70	2 ¾	-	4x8	8x11	5x10	2,6	B51070T4505S
76	3	-	4x8	8x12	5x11	3,3	B51076T4505C
76	3	-	4x8	8x12	5x11	3,3	B51076T4505R
76	3	-	4x8	8x12	5x11	3,3	B51076T4505S
89	3 ½	-	4x9	8x13	5x12	5,0	B51089T4505C
89	3 ½	-	4x9	8x13	5x12	5,0	B51089T4505R
89	3 ½	-	4x9	8x13	5x12	5,0	B51089T4505S
102	4	-	4x9	8x14	6x13	6,9	B51102T4505C
102	4	-	4x9	8x14	6x13	6,9	B51102T4505R
102	4	-	4x9	8x14	6x13	6,9	B51102T4505S
115	4 ½	-	4x9	8x15	6x14	8,9	B51115T4505C
115	4 ½	-	4x9	8x15	6x14	8,9	B51115T4505R
115	4 ½	-	4x9	8x15	6x14	8,9	B51115T4505S
127	5	-	4x10	8x15	4x15,4x13	12,0	B51127T4505C
127	5	-	4x10	8x15	4x15,4x13	12,0	B51127T4505R
127	5	-	4x10	8x15	4x15,4x13	12,0	B51127T4505S

C - conical
R - spherical
S - semi - ballistic

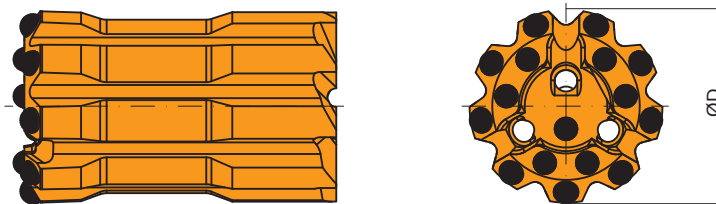
Button bit – DROP CENTER



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
70	2 ¾	-	3x8	9x11	4x10	2,3	B60070T4505C
70	2 ¾	-	3x8	9x11	4x10	2,3	B60070T4505R
70	2 ¾	-	3x8	9x11	4x10	2,3	B60070T4505S
76	3	-	3x9	9x12	4x10	2,7	B60076T4505C
76	3	-	3x9	9x12	4x10	2,7	B60076T4505R
76	3	-	3x9	9x12	4x10	2,7	B60076T4505S
89	3 ½	-	3x10	9x12	7x11	3,8	B60089T4505C
89	3 ½	-	3x10	9x12	7x11	3,8	B60089T4505R
89	3 ½	-	3x10	9x12	7x11	3,8	B60089T4505S
102	4	-	3x10	9x13	7x12	4,8	B60102T4505C
102	4	-	3x10	9x13	7x12	4,8	B60102T4505R
102	4	-	3x10	9x13	7x12	4,8	B60102T4505S
115	4 ½	-	3x10	9x14	8x13	6,0	B60115T4505C
115	4 ½	-	3x10	9x14	8x13	6,0	B60115T4505R
115	4 ½	-	3x10	9x14	8x13	6,0	B60115T4505S
127	5	-	3x10	9x16	8x15	7,1	B60127T4505C
127	5	-	3x10	9x16	8x15	7,1	B60127T4505R
127	5	-	3x10	9x16	8x15	7,1	B60127T4505S

C - conical
R - spherical
S - semi - ballistic

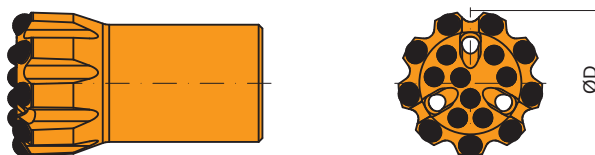
Button bit – DROP CENTER – RETRAC



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
70	2 ¾	-	3x8	9x11	4x10	2,8	B61070T4505C
70	2 ¾	-	3x8	9x11	4x10	2,8	B61070T4505R
70	2 ¾	-	3x8	9x11	4x10	2,8	B61070T4505S
76	3	-	3x9	9x12	4x10	3,2	B61076T4505C
76	3	-	3x9	9x12	4x10	3,2	B61076T4505R
76	3	-	3x9	9x12	4x10	3,2	B61076T4505S
89	3 ½	-	3x10	9x12	7x11	5,3	B61089T4505C
89	3 ½	-	3x10	9x12	7x11	5,3	B61089T4505R
89	3 ½	-	3x10	9x12	7x11	5,3	B61089T4505S
102	4	-	3x10	9x13	7x12	6,9	B61102T4505C
102	4	-	3x10	9x13	7x12	6,9	B61102T4505R
102	4	-	3x10	9x13	7x12	6,9	B61102T4505S
115	4 ½	-	3x10	9x14	8x13	8,8	B61115T4505C
115	4 ½	-	3x10	9x14	8x13	8,8	B61115T4505R
115	4 ½	-	3x10	9x14	8x13	8,8	B61115T4505S
127	5	-	3x10	9x16	8x15	10,2	B61127T4505C
127	5	-	3x10	9x16	8x15	10,2	B61127T4505R
127	5	-	3x10	9x16	8x15	10,2	B61127T4505S

C - conical
R – spherical
S – semi - ballistic

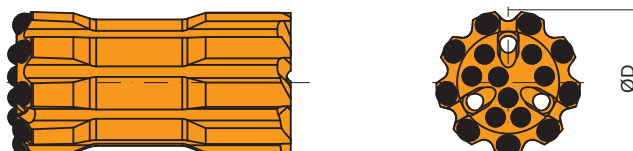
Button bit – FLAT FACE



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
76	3	-	3x9	9x12	8x10	2,4	B52076T4505R
76	3	-	3x9	9x12	8x10	2,4	B52076T4505S
89	3 ½	-	3x10	9x13	9x11	3,9	B52089T4505R
89	3 ½	-	3x10	9x13	9x11	3,9	B52089T4505S
102	4	-	3x10	9x14	9x12	4,8	B52102T4505R
102	4	-	3x10	9x14	9x12	4,8	B52102T4505S
115	4 ½	-	3x10	9x15	10x13	6,5	B52115T4505R
115	4 ½	-	3x10	9x15	10x13	6,5	B52115T4505S
127	5	-	3x10	9x16	10x14	8,9	B52127T4505R
127	5	-	3x10	9x16	10x14	8,9	B52127T4505S

R – spherical
S – semi - ballistic

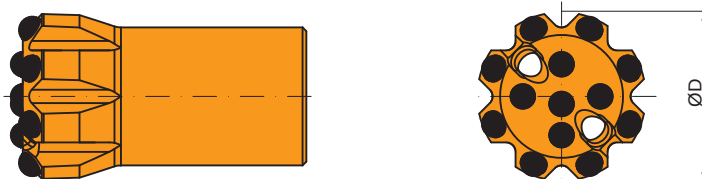
Button bit – FLAT FACE – RETRAC



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
76	3	-	3x9	9x12	8x10	3,2	B53076T4505R
76	3	-	3x9	9x12	8x10	3,2	B53076T4505S
89	3 ½	-	3x10	9x13	9x11	5,2	B53089T4505R
89	3 ½	-	3x10	9x13	9x11	5,2	B53089T4505S
102	4	-	3x10	9x14	9x12	6,6	B53102T4505R
102	4	-	3x10	9x14	9x12	6,6	B53102T4505S
115	4 ½	-	3x10	9x15	10x13	8,4	B53115T4505R
115	4 ½	-	3x10	9x15	10x13	8,4	B53115T4505S
127	5	-	3x10	9x16	10x14	11,8	B53127T4505R
127	5	-	3x10	9x16	10x14	11,8	B53127T4505S

R – spherical
S – semi - ballistic

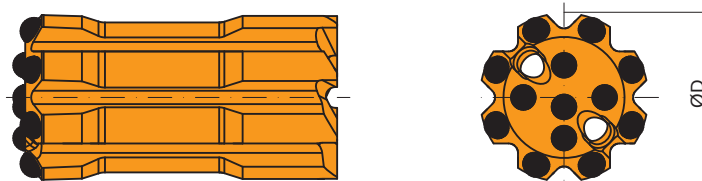
Button bit – FLAT FACE – Heavy Duty



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
70	2 ¾	-	2x9	8x12	4x11	2,3	B52070T4515R
76	3	-	2x10	8x13	4x12	2,7	B52076T4515R
89	3 ½	-	2x11	8x14	5x13	3,5	B52089T4515R
102	4	-	2x11	8x15	6x14	4,9	B52102T4515R
115	4 ½	-	2x12	8x16	6x15	6,5	B52115T4515R
127	5	-	2x12	8x16	8x15	9,0	B52127T4515R

R – spherical

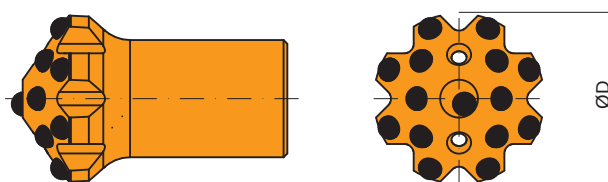
Button bit – FLAT FACE – Heavy Duty – RETRAC



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
70	2 ¾	-	2x9	8x12	4x11	3,2	B53070T4515R
76	3	-	2x10	8x13	4x12	3,5	B53076T4515R
89	3 ½	-	2x11	8x14	5x13	5,0	B53089T4515R
102	4	-	2x11	8x15	6x14	6,6	B53102T4515R
115	4 ½	-	2x12	8x16	6x15	8,4	B53115T4515R
127	5	-	2x12	8x16	8x15	11,7	B53127T4515R

R – spherical

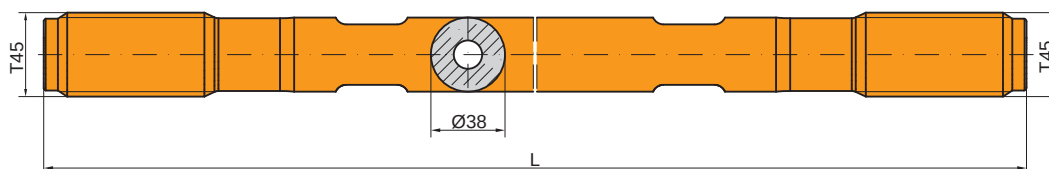
Reaming bit



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
76	3	-	2x9	8x12	7x11	2,5	B54076T4505R
76	3	-	2x9	8x12	7x11	2,5	B54076T4505S
89	3 ½	-	2x9	8x12	7x12	3,1	B54089T4505R
89	3 ½	-	2x9	8x12	7x12	3,1	B54089T4505S
102	4	-	2x10	8x12	9x12	3,8	B54102T4505R
102	4	-	2x10	8x12	9x12	3,8	B54102T4505S
115	4 ½	-	3x10	9x13	8x12	6,2	B54115T4505R
115	4 ½	-	3x10	9x13	8x12	6,2	B54115T4505S
127	5	-	2x12	8x15	9x14	7,6	B54127T4505R
127	5	-	2x12	8x15	9x14	7,6	B54127T4505S
152	6	-	3x11	9x15	11x14	10,1	B54152T4505R
152	6	-	3x11	9x15	11x14	10,1	B54152T4505S

R – spherical
S – semi - ballistic

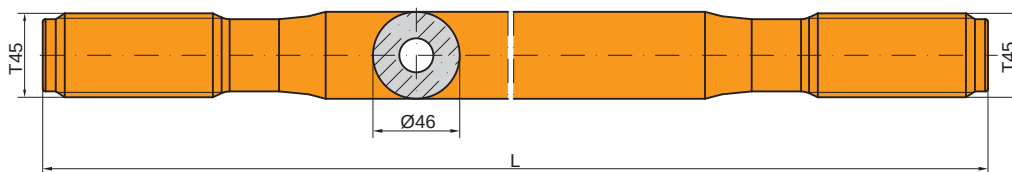
Extension rods diameter 38mm



Diameter		Threads	Length			Weight (kg)	Catalogue no.
mm	inch		mm	ft	inch		
38	1 ½	T45/T45	915	3	-	8,1	23323091
38	1 ½	T45/T45	1220	4	-	10,7	23323122
38	1 ½	T45/T45	1525	5	-	13,4	23323152
38	1 ½	T45/T45	1830	6	-	16,1	23323183
38	1 ½	T45/T45	2435	8	-	21,3	23323243
38	1 ½	T45/T45	3050	10	-	25,0	23323305
38	1 ½	T45/T45	3660	12	-	30,0	23323366
38	1 ½	T45/T45	4265	14	-	37,3	23323426
38	1 ½	T45/T45	4915	16	-	43,0	23323491
38	1 ½	T45/T45	5490	18	-	48,0	23323549
38	1 ½	T45/T45	6100	20	-	53,3	23323610

Flushing hole ø 14,5 mm

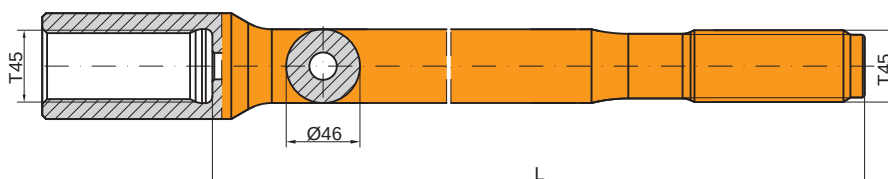
Extension rods diameter 46mm



Diameter		Threads	Length			Weight (kg)	Catalogue no.
mm	inch		mm	ft	inch		
46	1 ¾	T45/T45	915	3	-	8,7	18323091
46	1 ¾	T45/T45	1220	4	-	11,6	18323122
46	1 ¾	T45/T45	1525	5	-	14,5	18323152
46	1 ¾	T45/T45	1830	6	-	17,4	18323183
46	1 ¾	T45/T45	2435	8	-	23,1	18323243
46	1 ¾	T45/T45	3050	10	-	29,0	18323305
46	1 ¾	T45/T45	3660	12	-	34,8	18323366
46	1 ¾	T45/T45	4265	14	-	40,5	18323426
46	1 ¾	T45/T45	4915	16	-	46,7	18323491
46	1 ¾	T45/T45	6100	20	-	58,0	18323610

Flushing hole ø 17 mm

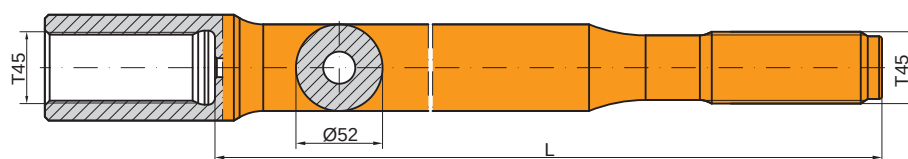
Speed rods / M – F rods



Diameter		Threads	Length			Weight (kg)	Catalogue no.
mm	inch		mm	ft	inch		
46	1 ¾	T45/T45	1525	5	-	17,5	26626152
46	1 ¾	T45/T45	1830	6	-	20,0	26626183
46	1 ¾	T45/T45	2435	8	-	27,7	26626243
46	1 ¾	T45/T45	3050	10	-	34,6	26626305
46	1 ¾	T45/T45	3660	12	-	41,6	26626366
46	1 ¾	T45/T45	4265	14	-	47,0	26626426
46	1 ¾	T45/T45	4915	16	-	55,3	26626491
46	1 ¾	T45/T45	6100	20	-	68,6	26626610

Flushing hole ø 17 mm, Female end ø 67 mm

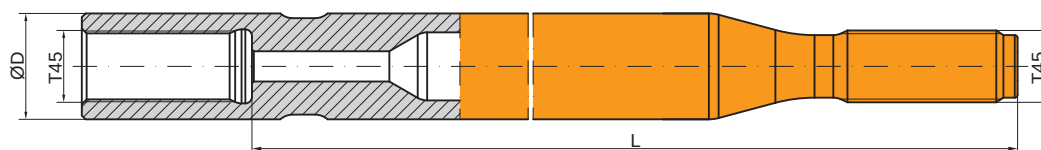
Guide rods / M – F rods



Diameter		Threads	Length			Weight (kg)	Catalogue no.
mm	inch		mm	ft	inch		
52	2	T45/T45	1525	5	-	17,0	269291523
52	2	T45/T45	1830	6	-	21,3	269291833
52	2	T45/T45	2435	8	-	29,6	269292433
52	2	T45/T45	3050	10	-	38,2	269293053
52	2	T45/T45	3660	12	-	46,6	269293663
52	2	T45/T45	4265	14	-	54,7	269294263
52	2	T45/T45	4915	16	-	70,8	269294913
52	2	T45/T45	5490	18	-	72,7	269295493
52	2	T45/T45	6100	20	-	78,8	269296103

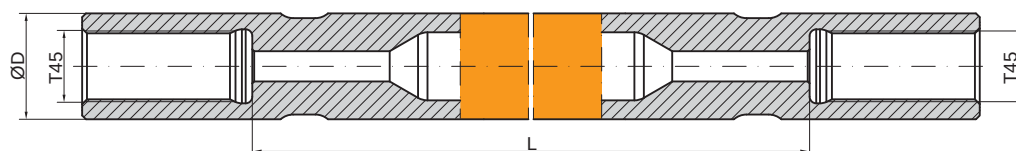
Flushing hole ø 21,5 mm, Female end ø 67 mm

Guide tube rods



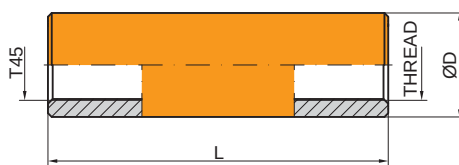
Diameter		Threads	Length			Weight (kg)	Catalogue no.
mm	inch		mm	ft	inch		
63	2 ½	T45/T45	1830	6	-	25,8	1263T45T45183
63	2 ½	T45/T45	3660	12	-	49,6	1263T45T45366
63	2 ½	T45/T45	4265	14	-	57,5	1263T45T45426
76	3	T45/T45	3660	12	-	72,7	1276T45T45366
76	3	T45/T45	4265	14	-	84,2	1276T45T45426

Guide tube rods



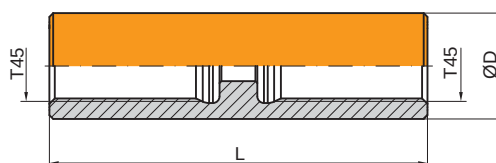
Diameter		Threads	Length			Weight (kg)	Catalogue no.
mm	inch		mm	ft	inch		
63	2 ½	T45/T45	1830	6	-	30,1	1363T45T45183
63	2 ½	T45/T45	3660	12	-	54,1	1363T45T45366
63	2 ½	T45/T45	4265	14	-	62,0	1363T45T45426
76	3	T45/T45	3660	12	-	79,5	1376T45T45366
76	3	T45/T45	4265	14	-	91,0	1376T45T45426

Coupling sleeve



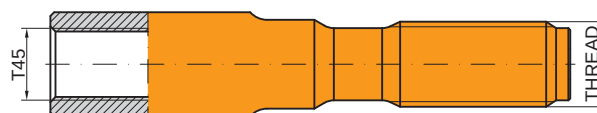
Diameter		Threads	Length		Weight (kg)	Catalogue no.
mm	inch		mm	inch		
64	2 ½	T45/T38	180	7 ¾	2,9	3922300
64	2 ½	T45/T45	180	7 ¾	2,5	3932300

Full bridge



Diameter		Threads	Length		Weight (kg)	Catalogue no.
mm	inch		mm	inch		
64	2 ½	T45/T45	210	8 ¼	3,4	3932301

M – F adapters



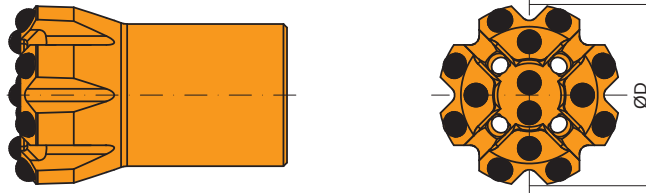
Threads	Length		Weight (kg)	Catalogue no.
	female/male	mm	inch	
T45/T38		240	9 ½	3932206
T45/T51		275	10 7/8	39523065

M – M adapters



Threads	Length		Weight (kg)	Catalogue no.
	male/male	mm	inch	
T45/T45		265	10 5/16	3845T45T4500

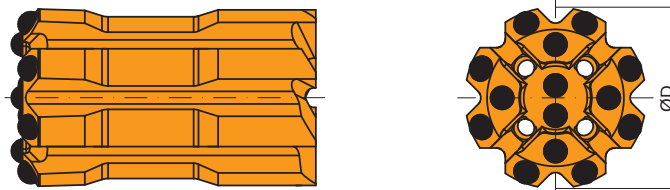
Button bit – DROP CENTER



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
89	3 ½	-	4x10	8x13	5x12	4,2	B50089T5105C
89	3 ½	-	4x10	8x13	5x12	4,2	B50089T5105R
89	3 ½	-	4x10	8x13	5x12	4,2	B50089T5105S
102	4	-	4x10	8x14	6x13	5,3	B50102T5105C
102	4	-	4x10	8x14	6x13	5,3	B50102T5105R
102	4	-	4x10	8x14	6x13	5,3	B50102T5105S
115	4 ½	-	4x11	8x15	6x14	6,9	B50115T5105C
115	4 ½	-	4x11	8x15	6x14	6,9	B50115T5105R
115	4 ½	-	4x11	8x15	6x14	6,9	B50115T5105S
127	5	-	4x11	8x15	4x15,4x13	8,2	B50127T5105C
127	5	-	4x11	8x15	4x15,4x13	8,2	B50127T5105R
127	5	-	4x11	8x15	4x15,4x13	8,2	B50127T5105S
152	6	-	4x12	8x16	4x16,4x15	13,8	B50152T5105C
152	6	-	4x12	8x16	4x16,4x15	13,8	B50152T5105R
152	6	-	4x12	8x16	4x16,4x15	13,8	B50152T5105S

C - conical R - spherical S - semi - ballistic

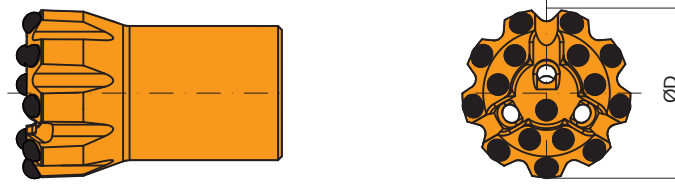
Button bit – DROP CENTER – RETRAC



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
89	3 ½	-	4x10	8x13	5x12	5,0	B51089T5105C
89	3 ½	-	4x10	8x13	5x12	5,0	B51089T5105R
89	3 ½	-	4x10	8x13	5x12	5,0	B51089T5105S
102	4	-	4x10	8x14	6x13	7,0	B51102T5105C
102	4	-	4x10	8x14	6x13	7,0	B51102T5105R
102	4	-	4x10	8x14	6x13	7,0	B51102T5105S
115	4 ½	-	4x11	8x15	6x14	9,7	B51115T5105C
115	4 ½	-	4x11	8x15	6x14	9,7	B51115T5105R
115	4 ½	-	4x11	8x15	6x14	9,7	B51115T5105S
127	5	-	4x11	8x15	4x15,4x13	12,7	B51127T5105C
127	5	-	4x11	8x15	4x15,4x13	12,7	B51127T5105R
127	5	-	4x11	8x15	4x15,4x13	12,7	B51127T5105S
152	6	-	4x12	8x16	4x16,4x15	19,0	B51152T5105C
152	6	-	4x12	8x16	4x16,4x15	19,0	B51152T5105R
152	6	-	4x12	8x16	4x16,4x15	19,0	B51152T5105S

C - conical R - spherical S - semi - ballistic

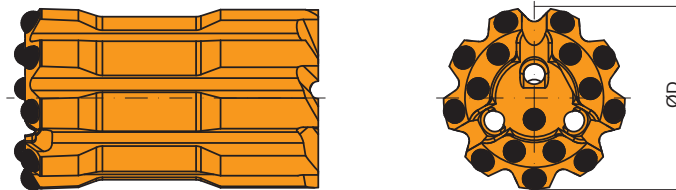
Button bit – DROP CENTER



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
89	3 ½	-	3x11	9x12	7x11	3,9	B60089T5105C
89	3 ½	-	3x11	9x12	7x11	3,9	B60089T5105R
89	3 ½	-	3x11	9x12	7x11	3,9	B60089T5105S
102	4	-	3x12	9x13	7x12	5,1	B60102T5105C
102	4	-	3x12	9x13	7x12	5,1	B60102T5105R
102	4	-	3x12	9x13	7x12	5,1	B60102T5105S
115	4 ½	-	3x12	9x14	8x13	7,2	B60115T5105C
115	4 ½	-	3x12	9x14	8x13	7,2	B60115T5105R
115	4 ½	-	3x12	9x14	8x13	7,2	B60115T5105S
127	5	-	3x12	9x16	8x15	9,7	B60127T5105C
127	5	-	3x12	9x16	8x15	9,7	B60127T5105R
127	5	-	3x12	9x16	8x15	9,7	B60127T5105S
152	6	-	3x13	9x16	8x15	14,5	B60152T5105C
152	6	-	3x13	9x16	8x15	14,5	B60152T5105R
152	6	-	3x13	9x16	8x15	14,5	B60152T5105S

C - conical R - spherical S - semi - ballistic

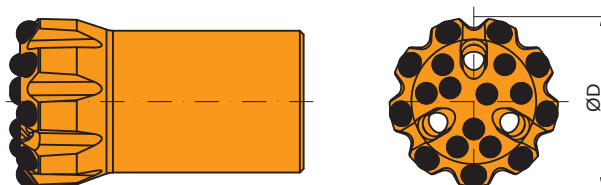
Button bit – DROP CENTER – RETRAC



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
89	3 ½	-	3x11	9x12	7x11	3,9	B61089T5105C
89	3 ½	-	3x11	9x12	7x11	3,9	B61089T5105R
89	3 ½	-	3x11	9x12	7x11	3,9	B61089T5105S
102	4	-	3x12	9x13	7x12	7,1	B61102T5105C
102	4	-	3x12	9x13	7x12	7,1	B61102T5105R
102	4	-	3x12	9x13	7x12	7,1	B61102T5105S
115	4 ½	-	3x12	9x14	8x13	10,2	B61115T5105C
115	4 ½	-	3x12	9x14	8x13	10,2	B61115T5105R
115	4 ½	-	3x12	9x14	8x13	10,2	B61115T5105S
127	5	-	3x12	9x16	8x15	13,8	B61127T5105C
127	5	-	3x12	9x16	8x15	13,8	B61127T5105R
127	5	-	3x12	9x16	8x15	13,8	B61127T5105S
152	6	-	3x13	9x16	8x15	15,0	B61152T5105C
152	6	-	3x13	9x16	8x15	15,0	B61152T5105R
152	6	-	3x13	9x16	8x15	15,0	B61152T5105S

C - conical R - spherical S - semi - ballistic

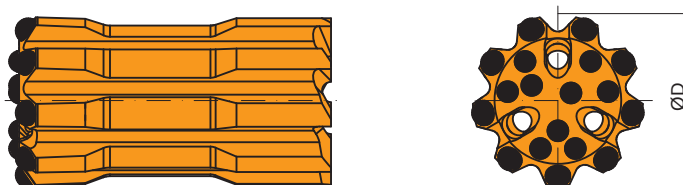
Button bit – FLAT FACE



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
89	3 ½	-	3x11	9x13	9x11	4,3	B52089T5105R
89	3 ½	-	3x11	9x13	9x11	4,3	B52089T5105S
102	4	-	3x12	9x14	9x12	5,3	B52102T5105R
102	4	-	3x12	9x14	9x12	5,3	B52102T5105S
115	4 ½	-	3x12	9x15	10x13	7,1	B52115T5105R
115	4 ½	-	3x12	9x15	10x13	7,1	B52115T5105S
127	5	-	3x13	9x16	10x14	8,4	B52127T5105R
127	5	-	3x13	9x16	10x14	8,4	B52127T5105S
152	6	-	3x13	9x16	10x15	12,1	B52152T5105R
152	6	-	3x13	9x16	10x15	12,1	B52152T5105S

R – spherical
S – semi - ballistic

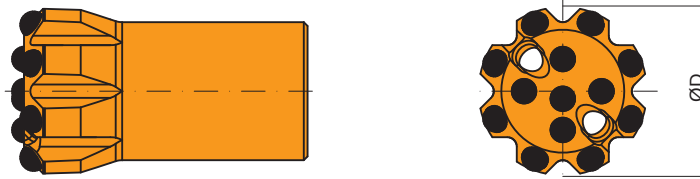
Button bit – FLAT FACE – RETRAC



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
89	3 ½	-	3x11	9x13	9x11	4,8	B53089T5105R
89	3 ½	-	3x11	9x13	9x11	4,8	B53089T5105S
102	4	-	3x12	9x14	9x12	6,8	B53102T5105R
102	4	-	3x12	9x14	9x12	6,8	B53102T5105S
115	4 ½	-	3x12	9x15	10x13	9,7	B53115T5105R
115	4 ½	-	3x12	9x15	10x13	9,7	B53115T5105S
127	5	-	3x13	9x16	10x14	12,2	B53127T5105R
127	5	-	3x13	9x16	10x14	12,2	B53127T5105S
152	6	-	3x13	9x16	10x15	19,2	B53152T5105R
152	6	-	3x13	9x16	10x15	19,2	B53152T5105S

R – spherical
S – semi - ballistic

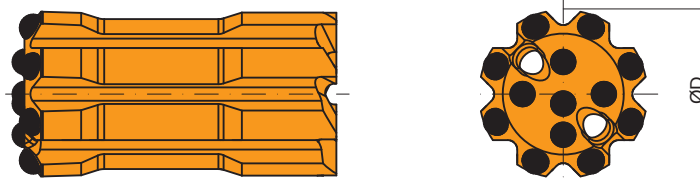
Button bit – FLAT FACE – Heavy Duty



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
89	3 ½	-	2x13	8x14	5x13	4,0	B52089T5115R
102	4	-	2x13	8x15	6x14	5,2	B52102T5115R
115	4 ½	-	2x14	8x16	6x15	7,5	B52115T5115R
127	5	-	2x14	8x16	8x15	8,3	B52127T5115R
152	6	-	2x14	8x17	8x16	13,0	B52152T5115R

R – spherical

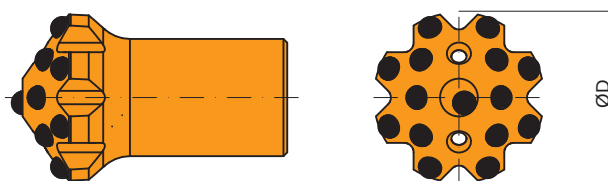
Button bit – FLAT FACE – Heavy Duty – RETRAC



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
89	3 ½	-	2x13	8x14	5x13	5,1	B53089T5115R
102	4	-	2x13	8x15	6x14	6,7	B53102T5115R
115	4 ½	-	2x14	8x16	6x15	10,1	B53115T5115R
127	5	-	2x14	8x16	8x15	11,9	B53127T5115R
152	6	-	2x14	8x17	8x16	15,2	B53152T5115R

R – spherical

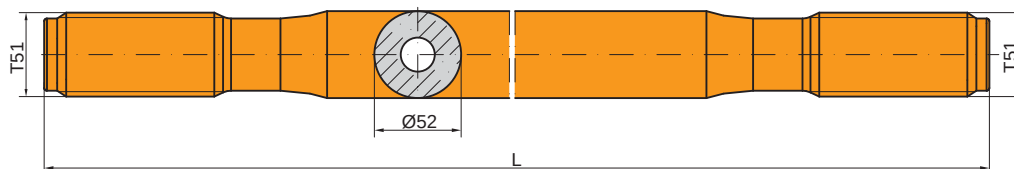
Reaming bit



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
89	3 ½	-	2x13	8x12	7x12	3,7	B54089T5105R
89	3 ½	-	2x13	8x12	7x12	3,7	B54089T5105S
102	4	-	2x13	8x12	9x12	4,6	B54102T5105R
102	4	-	2x13	8x12	9x12	4,6	B54102T5105S
115	4 ½	-	3x10	9x13	8x12	6,7	B54115T5105R
115	4 ½	-	3x10	9x13	8x12	6,7	B54115T5105S
127	5	-	2x14	8x15	9x14	7,6	B54127T5105R
127	5	-	2x14	8x15	9x14	7,6	B54127T5105S
152	6	-	3x12	9x15	11x14	10,3	B54152T5105R
152	6	-	3x12	9x15	11x14	10,3	B54152T5105S

R – spherical
S – semi - ballistic

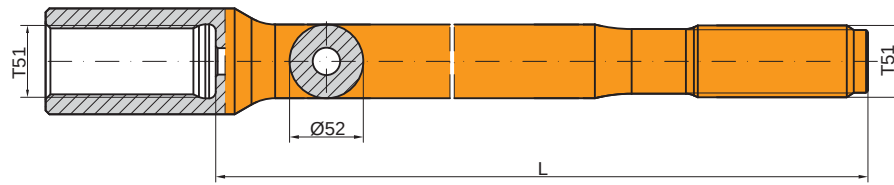
Extension rods



Diameter		Threads	Length			Weight (kg)	Catalogue no.
mm	inch		mm	ft	inch		
52	2	T51/T51	915	3	-	11,3	28050091
52	2	T51/T51	1220	4	-	15,6	28050122
52	2	T51/T51	1525	5	-	19,8	28050152
52	2	T51/T51	1830	6	-	24,0	28050183
52	2	T51/T51	2435	8	-	32,8	28050243
52	2	T51/T51	3050	10	-	40,9	28050305
52	2	T51/T51	3660	12	-	49,3	28050366
52	2	T51/T51	4265	14	-	57,7	28050426
52	2	T51/T51	4915	16	-	66,7	28050491
52	2	T51/T51	6100	20	-	83,1	28050610

Flushing hole ø 21,5 mm

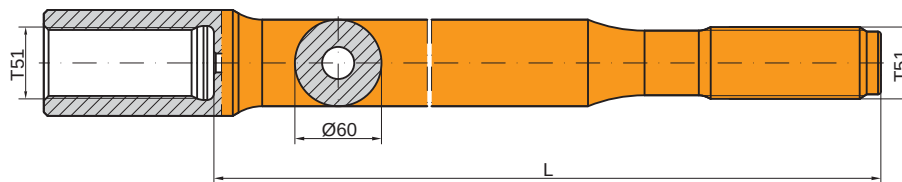
Speed rods / M – F rods



Diameter		Threads	Length			Weight (kg)	Catalogue no.
mm	inch		mm	ft	inch		
52	2	T51/T51	1525	5	-	23,6	26929152
52	2	T51/T51	1830	6	-	27,9	26929183
52	2	T51/T51	2435	8	-	36,2	26929243
52	2	T51/T51	3050	10	-	44,8	26929305
52	2	T51/T51	3660	12	-	53,2	26929366
52	2	T51/T51	4265	14	-	61,6	26929426
52	2	T51/T51	4915	16	-	70,6	26929491
52	2	T51/T51	6100	20	-	87,5	26929610

Flushing hole ø 21,5 mm, Female end ø 74 mm

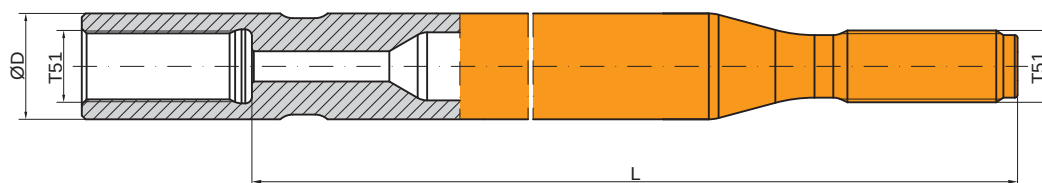
Guide rods / M – F rods



Diameter		Threads	Length			Weight (kg)	Catalogue no.
mm	inch		mm	ft	inch		
60	2 3/8	T51/T51	1525	5	-	30,5	269691523
60	2 3/8	T51/T51	1830	6	-	36,6	269691833
60	2 3/8	T51/T51	2435	8	-	48,7	269692433
60	2 3/8	T51/T51	3050	10	-	59,5	269693053
60	2 3/8	T51/T51	3660	12	-	71,5	269693663
60	2 3/8	T51/T51	4265	14	-	83,0	269694263
60	2 3/8	T51/T51	4915	16	-	95,6	269694913
60	2 3/8	T51/T51	5490	18	-	106,7	269695493
60	2 3/8	T51/T51	6100	20	-	118,7	269696103

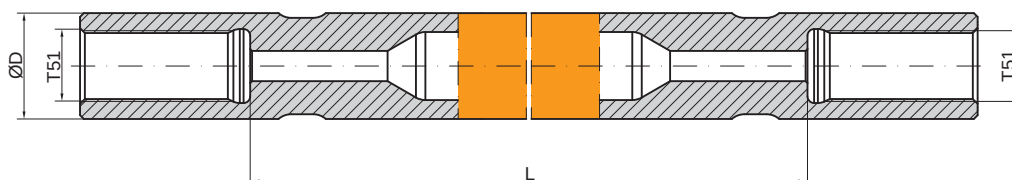
Flushing hole ø 22,6 mm, Female end ø 74 mm

Guide tube rods



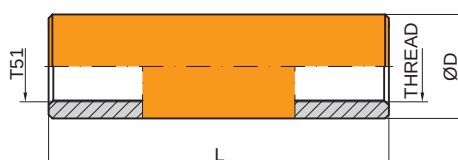
Diameter		Threads	Length			Weight (kg)	Catalogue no.
mm	inch		mm	ft	inch		
76	3	T51/T51	1830	6	-	37,3	1276T51T51183
76	3	T51/T51	3660	12	-	72,0	1276T51T51366
76	3	T51/T51	4265	14	-	83,5	1276T51T51426
87	3 ½	T51/T51	3660	12	-	95,8	1287T51T51366
87	3 ½	T51/T51	4265	14	-	105,8	1287T51T51426

Guide tube rods



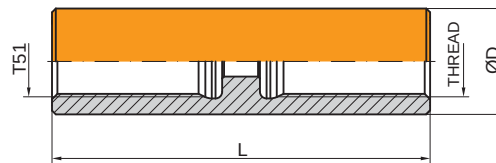
Diameter		Threads	Length			Weight (kg)	Catalogue no.
mm	inch		mm	ft	inch		
76	3	T51/T51	1830	6	-	41,9	1376T51T51183
76	3	T51/T51	3660	12	-	76,5	1376T51T51366
76	3	T51/T51	4265	14	-	88,0	1376T51T51426
87	3 ½	T51/T51	3660	12	-	105,5	1387T51T51366
87	3 ½	T51/T51	4265	14	-	120,8	1387T51T51426

Coupling sleeve



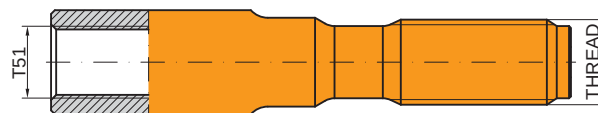
Diameter		Threads	Length		Weight (kg)	Catalogue no.
mm	inch		mm	inch		
72	2 ¾	T51/T51	210	8 ⅝	4,8	3952532
74	3	T51/T45	195	7 ⅞	3,9	3952300
74	3	T51/T51	210	8 ⅝	4,7	3952500

Full bridge



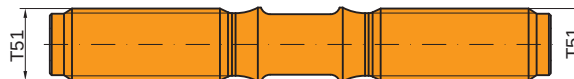
Diameter		Threads	Length		Weight (kg)	Catalogue no.
mm	inch		mm	inch		
76	3	T51/T45	215	8 ⁷ / ₁₆	5,3	3952301
76	3	T51/T51	230	9 ¹ / ₁₆	5,3	3952501

M – F adapters



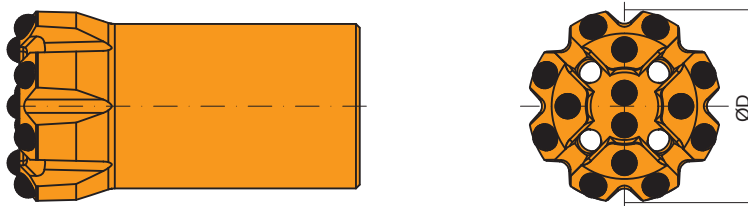
Threads	Length		Weight (kg)	Catalogue no.
	female/male	mm inch		
T51/T45	270	10 ⁵ / ₈	4,6	3952306
T51/GT60	300	11 ³ / ₄	7,5	3954606

M – M adapters



Threads	Length		Weight (kg)	Catalogue no.
	male/male	mm inch		
T51/T51	310	12 ⁷ / ₃₂	3,8	3851T51T5100

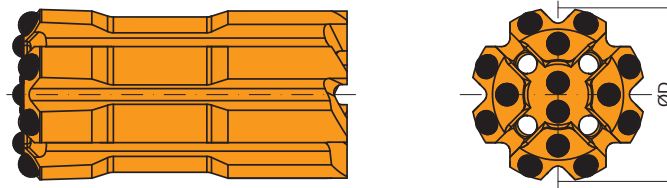
Button bit – DROP CENTER – RETRAC



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
92	3 5/8	-	4x11	8x14	5x13	5,4	B50092T6005C
92	3 5/8	-	4x11	8x14	5x13	5,4	B50092T6005R
92	3 5/8	-	4x11	8x14	5x13	5,4	B50092T6005S
96	3 3/4	-	4x11	8x14	5x13	5,7	B50096T6005C
96	3 3/4	-	4x11	8x14	5x13	5,7	B50096T6005R
96	3 3/4	-	4x11	8x14	5x13	5,7	B50096T6005S
102	4	-	4x12	8x14	6x13	6,3	B50102T6005C
102	4	-	4x12	8x14	6x13	6,3	B50102T6005R
102	4	-	4x12	8x14	6x13	6,3	B50102T6005S
115	4 1/2	-	4x12	8x15	6x14	7,4	B50115T6005C
115	4 1/2	-	4x12	8x15	6x14	7,4	B50115T6005R
115	4 1/2	-	4x12	8x15	6x14	7,4	B50115T6005S
127	5	-	4x13	8x15	4x15,4x13	9,2	B50127T6005C
127	5	-	4x13	8x15	4x15,4x13	9,2	B50127T6005R
127	5	-	4x13	8x15	4x15,4x13	9,2	B50127T6005S
140	5 1/2	-	4x14	8x16	4x16,4x15	13,0	B50140T6005C
140	5 1/2	-	4x14	8x16	4x16,4x15	13,0	B50140T6005R
140	5 1/2	-	4x14	8x16	4x16,4x15	13,0	B50140T6005S
152	6	-	4x14	8x16	4x16,4x15	15,1	B50152T6005C
152	6	-	4x14	8x16	4x16,4x15	15,1	B50152T6005R
152	6	-	4x14	8x16	4x16,4x15	15,1	B50152T6005S

C - conical
R – spherical
S – semi - ballistic

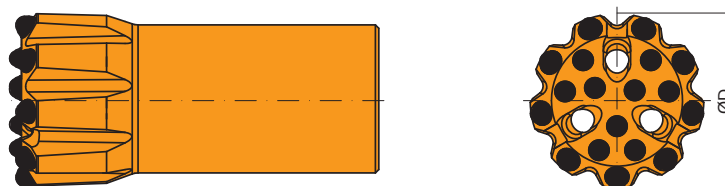
Button bit – DROP CENTER – RETRAC



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
92	3 5/8	-	4x11	8x14	5x13	5,5	B51092T6005C
92	3 5/8	-	4x11	8x14	5x13	5,5	B51092T6005R
92	3 5/8	-	4x11	8x14	5x13	5,5	B51092T6005S
96	3 3/4	-	4x11	8x14	5x13	6,2	B51096T6005C
96	3 3/4	-	4x11	8x14	5x13	6,2	B51096T6005R
96	3 3/4	-	4x11	8x14	5x13	6,2	B51096T6005S
102	4	-	4x12	8x14	6x13	7,6	B51102T6005C
102	4	-	4x12	8x14	6x13	7,6	B51102T6005R
102	4	-	4x12	8x14	6x13	7,6	B51102T6005S
115	4 1/2	-	4x12	8x15	6x14	10,1	B51115T6005C
115	4 1/2	-	4x12	8x15	6x14	10,1	B51115T6005R
115	4 1/2	-	4x12	8x15	6x14	10,1	B51115T6005S
127	5	-	4x13	8x15	4x15,4x13	12,7	B51127T6005C
127	5	-	4x13	8x15	4x15,4x13	12,7	B51127T6005R
127	5	-	4x13	8x15	4x15,4x13	12,7	B51127T6005S
140	5 1/2	-	4x14	8x16	4x16,4x15	15,8	B51140T6005C
140	5 1/2	-	4x14	8x16	4x16,4x15	15,8	B51140T6005R
140	5 1/2	-	4x14	8x16	4x16,4x15	15,8	B51140T6005S
152	6	-	4x14	8x16	4x16,4x15	19,4	B51152T6005C
152	6	-	4x14	8x16	4x16,4x15	19,4	B51152T6005R
152	6	-	4x14	8x16	4x16,4x15	19,4	B51152T6005S

C - conical R - spherical S - semi - ballistic

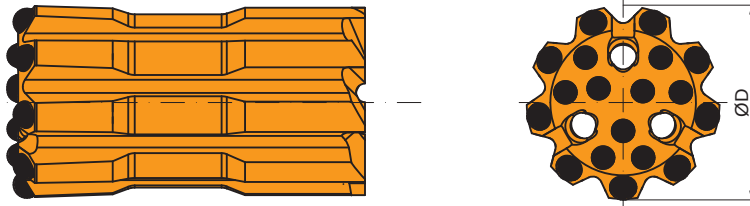
Button bit – FLAT FACE



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
102	4	-	3x14	9x14	9x12	6,5	B52102T6005R
102	4	-	3x14	9x14	9x12	6,5	B52102T6005S
115	4 1/2	-	3x14	9x15	10x13	7,7	B52115T6005R
115	4 1/2	-	3x14	9x15	10x13	7,7	B52115T6005S
127	5	-	3x14	9x16	10x14	10,3	B52127T6005R
127	5	-	3x14	9x16	10x14	10,3	B52127T6005S
140	5 1/2	-	3x14	9x16	10x15	13,7	B52140T6005R
140	5 1/2	-	3x14	9x16	10x15	13,7	B52140T6005S
152	6	-	3x14	9x16	10x15	15,1	B52152T6005R
152	6	-	3x14	9x16	10x15	15,1	B52152T6005S

R - spherical S - semi - ballistic

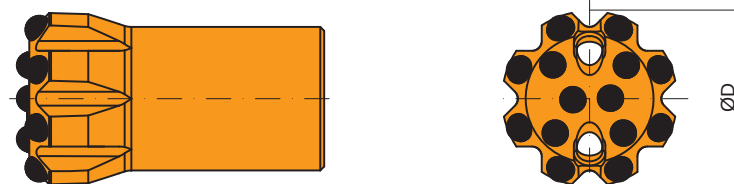
Button bit – FLAT FACE – RETRAC



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
102	4	-	3x14	9x14	9x12	7,5	B53102T6005R
102	4	-	3x14	9x14	9x12	7,5	B53102T6005S
115	4 ½	-	3x14	9x15	10x13	8,7	B53115T6005R
115	4 ½	-	3x14	9x15	10x13	8,7	B53115T6005S
127	5	-	3x14	9x16	10x14	13,5	B53127T6005R
127	5	-	3x14	9x16	10x14	13,5	B53127T6005S
140	5 ½	-	3x14	9x16	10x15	15,7	B53140T6005R
140	5 ½	-	3x14	9x16	10x15	15,7	B53140T6005S
152	6	-	3x14	9x16	10x15	19,1	B53152T6005R
152	6	-	3x14	9x16	10x15	19,1	B53152T6005S

R – spherical
S – semi - ballistic

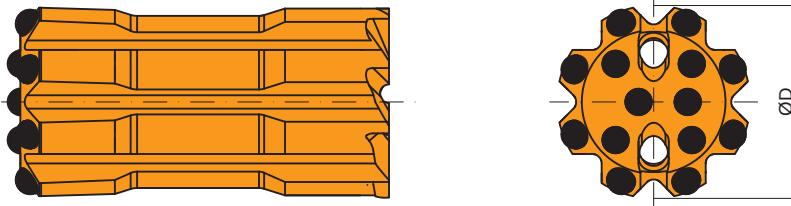
Button bit – FLAT FACE – Heavy Duty



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
102	4	-	2x15	8x15	6x14	5,9	B52102T6015R
115	4 ½	-	2x16	8x16	6x15	8,0	B52115T6015R
127	5	-	2x16	8x16	8x15	11,2	B52127T6015R
140	5 ½	-	2x17	8x17	8x16	13,7	B52140T6015R
152	6	-	2x17	8x17	8x16	15,1	B52152T6015R

R – spherical

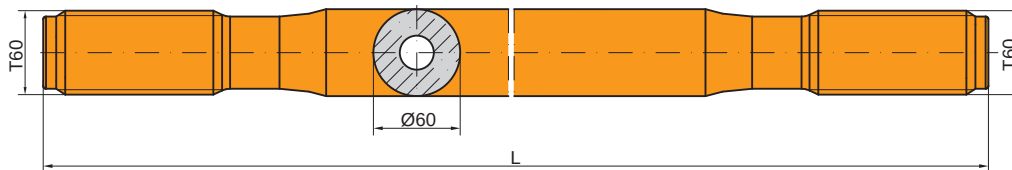
Button bit – FLAT FACE – Heavy Duty – RETRAC



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
102	4	-	2x15	8x15	6x14	7,0	B53102T6015R
115	4 ½	-	2x16	8x16	6x15	8,4	B53115T6015R
127	5	-	2x16	8x16	8x15	12,3	B53127T6015R
140	5 ½	-	2x17	8x17	8x16	15,1	B53140T6015R
152	6	-	2x17	8x17	8x16	18,4	B53152T6015R

R – spherical

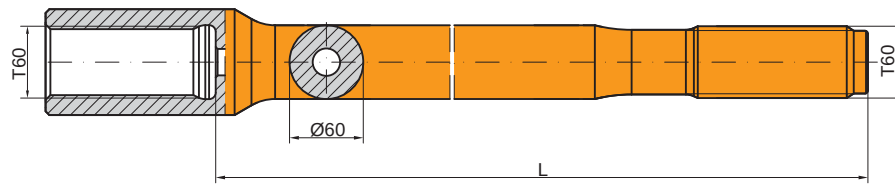
Extension rods



Diameter		Threads	Length			Weight (kg)	Catalogue no.
mm	inch		mm	ft	inch		
60	2 ¾	T60/T60	1830	6	-	32,5	10R60T60T60183
60	2 ¾	T60/T60	2435	8	-	43,3	10R60T60T60243
60	2 ¾	T60/T60	3050	10	-	54,3	10R60T60T60305
60	2 ¾	T60/T60	3660	12	-	65,1	10R60T60T60366
60	2 ¾	T60/T60	4265	14	-	75,8	10R60T60T60426
60	2 ¾	T60/T60	4915	16	-	87,3	10R60T60T60491
60	2 ¾	T60/T60	5470	18	-	97,2	10R60T60T60547
60	2 ¾	T60/T60	6100	20	-	108,4	10R60T60T60610

Flushing hole ø 22,6 mm

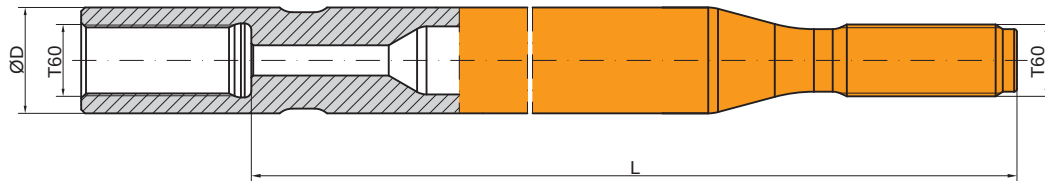
Speed rods / M – F rods



Diameter		Threads	Length			Weight (kg)	Catalogue no.
mm	inch		mm	ft	inch		
60	2 3/8	T60/T60	1830	6	-	38,5	11R60T60T60183
60	2 3/8	T60/T60	2435	8	-	51,2	11R60T60T60243
60	2 3/8	T60/T60	3050	10	-	61,2	11R60T60T60305
60	2 3/8	T60/T60	3660	12	-	73,4	11R60T60T60366
60	2 3/8	T60/T60	4265	14	-	84,9	11R60T60T60426
60	2 3/8	T60/T60	4915	16	-	97,8	11R60T60T60491
60	2 3/8	T60/T60	5470	18	-	108,8	11R60T60T60547
60	2 3/8	T60/T60	6100	20	-	121,4	11R60T60T60610

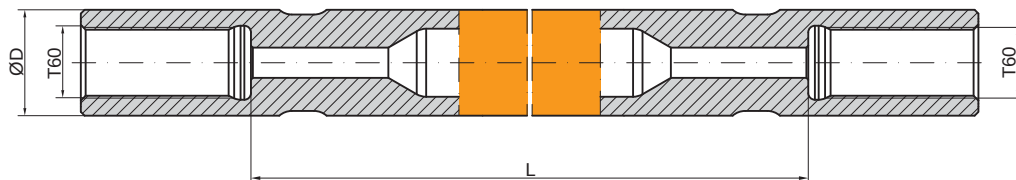
Flushing hole ø 22,6 mm, Female end ø 87 mm

Guide tube rods



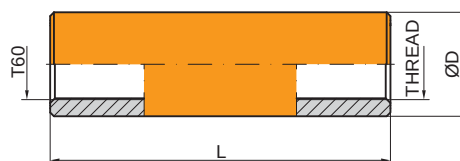
Diameter		Threads	Length			Weight (kg)	Catalogue no.
mm	inch		mm	ft	inch		
87	3 1/2	T60/T60	3660	12	-	96,2	1287T60T60366
87	3 1/2	T60/T60	4265	14	-	112,1	1287T60T60426

Guide tube rods



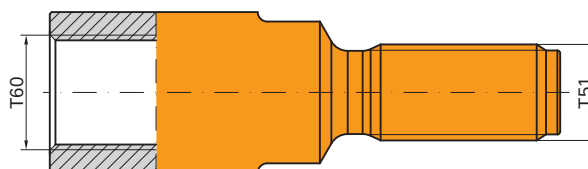
Diameter		Threads	Length			Weight (kg)	Catalogue no.
mm	inch		mm	ft	inch		
87	3 1/2	T60/T60	3660	12	-	104,0	1387T60T60366
87	3 1/2	T60/T60	4265	14	-	119,0	1387T60T60426

Coupling sleeve



Diameter		Threads	Length		Weight (kg)	Catalogue no.
mm	inch		mm	inch		
85	3 3/8	T60/T51	255	10 3/64	7,3	3985T60T5100
85	3 3/8	T60/T60	260	10 7/32	6,6	3985T60T6000

M – F adapters



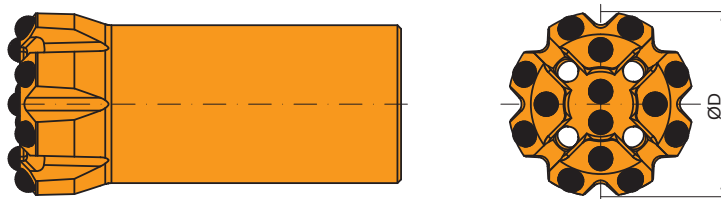
Threads	Length		Weight (kg)	Catalogue no.
	female/male	mm	inch	
T60/T51		270	10 5/8	3985T60T5103

M – M adapters



Threads	Length		Weight (kg)	Catalogue no.
	male/male	mm	inch	
T60/T60		350	13 5/8	3860T60T6000

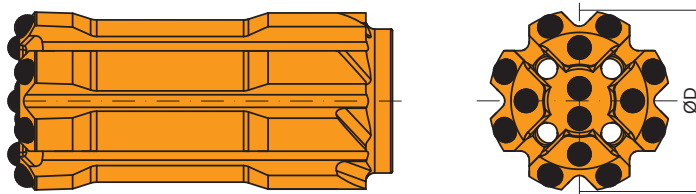
Button bit – DROP CENTER



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
92	3 5/8	-	4x11	8x14	5x13	6,1	B50092G6005C
92	3 5/8	-	4x11	8x14	5x13	6,1	B50092G6005R
92	3 5/8	-	4x11	8x14	5x13	6,1	B50092G6005S
96	3 3/4	-	4x11	8x14	5x13	6,4	B50096G6005C
96	3 3/4	-	4x11	8x14	5x13	6,4	B50096G6005R
96	3 3/4	-	4x11	8x14	5x13	6,4	B50096G6005S
102	4	-	4x12	8x14	6x13	7,0	B50102G6005C
102	4	-	4x12	8x14	6x13	7,0	B50102G6005R
102	4	-	4x12	8x14	6x13	7,0	B50102G6005S
115	4 1/2	-	4x12	8x15	6x14	8,3	B50115G6005C
115	4 1/2	-	4x12	8x15	6x14	8,3	B50115G6005R
115	4 1/2	-	4x12	8x15	6x14	8,3	B50115G6005S
127	5	-	4x13	8x15	4x15,4x13	11,3	B50127G6005C
127	5	-	4x13	8x15	4x15,4x13	11,3	B50127G6005R
127	5	-	4x13	8x15	4x15,4x13	11,3	B50127G6005S
140	5 1/2	-	4x14	8x16	4x16,4x15	14,5	B50140G6005C
140	5 1/2	-	4x14	8x16	4x16,4x15	14,5	B50140G6005R
140	5 1/2	-	4x14	8x16	4x16,4x15	14,5	B50140G6005S
152	6	-	4x14	8x16	4x16,4x15	16,6	B50152G6005C
152	6	-	4x14	8x16	4x16,4x15	16,6	B50152G6005R
152	6	-	4x14	8x16	4x16,4x15	16,6	B50152G6005S

C - conical
R – spherical
S – semi - ballistic

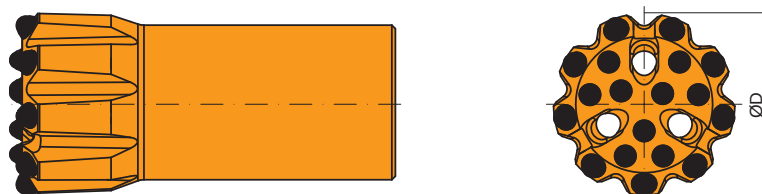
Button bit – DROP CENTER – RETRAC



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
92	3 5/8	-	4x11	8x14	5x13	6,0	B51092G6005C
92	3 5/8	-	4x11	8x14	5x13	6,0	B51092G6005R
92	3 5/8	-	4x11	8x14	5x13	6,0	B51092G6005S
96	3 3/4	-	4x11	8x14	5x13	6,8	B51096G6005C
96	3 3/4	-	4x11	8x14	5x13	6,8	B51096G6005R
96	3 3/4	-	4x11	8x14	5x13	6,8	B51096G6005S
102	4	-	4x12	8x14	6x13	7,7	B51102G6005C
102	4	-	4x12	8x14	6x13	7,7	B51102G6005R
102	4	-	4x12	8x14	6x13	7,7	B51102G6005S
115	4 1/2	-	4x12	8x15	6x14	10,9	B51115G6005C
115	4 1/2	-	4x12	8x15	6x14	10,9	B51115G6005R
115	4 1/2	-	4x12	8x15	6x14	10,9	B51115G6005S
127	5	-	4x13	8x15	4x15,4x13	13,9	B51127G6005C
127	5	-	4x13	8x15	4x15,4x13	13,9	B51127G6005R
127	5	-	4x13	8x15	4x15,4x13	13,9	B51127G6005S
140	5 1/2	-	4x14	8x16	4x16,4x15	17,0	B51140G6005C
140	5 1/2	-	4x14	8x16	4x16,4x15	17,0	B51140G6005R
140	5 1/2	-	4x14	8x16	4x16,4x15	17,0	B51140G6005S
152	6	-	4x14	8x16	4x16,4x15	20,9	B51152G6005C
152	6	-	4x14	8x16	4x16,4x15	20,9	B51152G6005R
152	6	-	4x14	8x16	4x16,4x15	20,9	B51152G6005S

C - conical R – spherical S – semi - ballistic

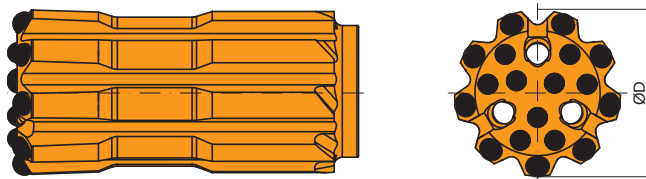
Button bit – FLAT FACE



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
102	4	-	3x14	9x14	9x12	7,2	B52102G6005R
102	4	-	3x14	9x14	9x12	7,2	B52102G6005S
115	4 1/2	-	3x14	9x15	10x13	8,5	B52115G6005R
115	4 1/2	-	3x14	9x15	10x13	8,5	B52115G6005S
127	5	-	3x14	9x16	10x14	11,5	B52127G6005R
127	5	-	3x14	9x16	10x14	11,5	B52127G6005S
140	5 1/2	-	3x14	9x16	10x15	15,2	B52140G6005R
140	5 1/2	-	3x14	9x16	10x15	15,2	B52140G6005S
152	6	-	3x14	9x16	10x15	16,6	B52152G6005R
152	6	-	3x14	9x16	10x15	16,6	B52152G6005S

R – spherical S – semi - ballistic

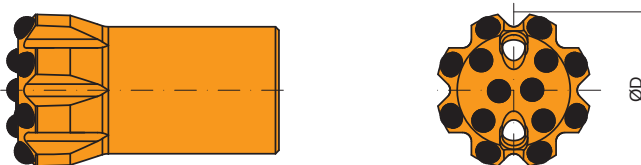
Button bit – FLAT FACE – RETRAC



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
102	4	-	3x14	9x14	9x12	8,1	B53102G6005R
102	4	-	3x14	9x14	9x12	8,1	B53102G6005S
115	4 ½	-	3x14	9x15	10x13	9,5	B53115G6005R
115	4 ½	-	3x14	9x15	10x13	9,5	B53115G6005S
127	5	-	3x14	9x16	10x14	14,4	B53127G6005R
127	5	-	3x14	9x16	10x14	14,4	B53127G6005S
140	5 ½	-	3x14	9x16	10x15	16,9	B53140G6005R
140	5 ½	-	3x14	9x16	10x15	16,9	B53140G6005S
152	6	-	3x14	9x16	10x15	20,7	B53152G6005R
152	6	-	3x14	9x16	10x15	20,7	B53152G6005S

R – spherical S – semi - ballistic

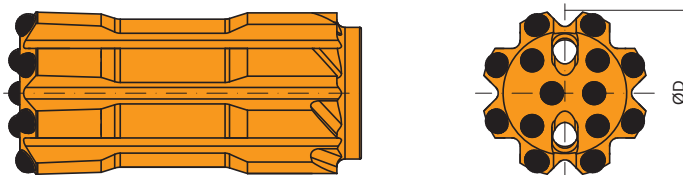
Button bit – FLAT FACE – Heavy Duty



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
102	4	-	2x15	8x15	6x14	6,6	B52102G6015R
115	4 ½	-	2x16	8x16	6x15	8,8	B52115G6015R
127	5	-	2x16	8x16	8x15	11,9	B52127G6015R
140	5 ½	-	2x17	8x17	8x16	15,2	B52140G6015R
152	6	-	2x17	8x17	8x16	16,6	B52152G6015R

R – spherical

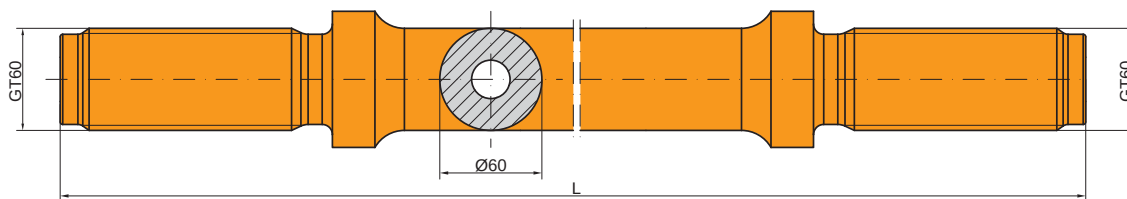
Button bit – FLAT FACE – Heavy Duty – RETRAC



Diameter		Flushing holes (mm)		Buttons (mm)		Weight (kg)	Catalogue no.
mm	inch	Side No x Size	Front No x Size	Gauge No x Size	Front No x Size		
102	4	-	2x15	8x15	6x14	7,8	B53102G6015R
115	4 ½	-	2x16	8x16	6x15	9,7	B53115G6015R
127	5	-	2x16	8x16	8x15	14,0	B53127G6015R
140	5 ½	-	2x17	8x17	8x16	16,9	B53140G6015R
152	6	-	2x17	8x17	8x16	20,7	B53152G6015R

R – spherical

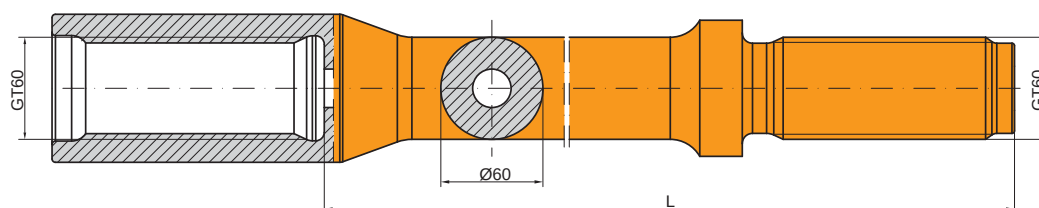
Extension rods



Diameter		Threads	Length			Weight (kg)	Catalogue no.
mm	inch		mm	ft	inch		
60	2 3/8	GT60/GT60	1830	6	-	35,8	10R60G60G60183
60	2 3/8	GT60/GT60	2435	8	-	47,5	10R60G60G60243
60	2 3/8	GT60/GT60	3050	10	-	58,7	10R60G60G60305
60	2 3/8	GT60/GT60	3660	12	-	70,6	10R60G60G60366
60	2 3/8	GT60/GT60	4265	14	-	82,2	10R60G60G60426
60	2 3/8	GT60/GT60	4915	16	-	94,6	10R60G60G60491
60	2 3/8	GT60/GT60	5470	18	-	105,3	10R60G60G60547
60	2 3/8	GT60/GT60	6100	20	-	117,5	10R60G60G60610

Flushing hole ø 22,6 mm

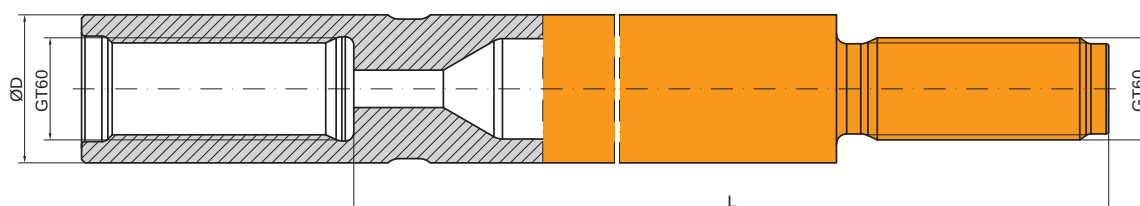
Speed rods / M – F rods



Diameter		Threads	Length			Weight (kg)	Catalogue no.
mm	inch		mm	ft	inch		
60	2 3/8	GT60/GT60	1830	6	-	40,5	11R60G60G60183
60	2 3/8	GT60/GT60	2435	8	-	53,6	11R60G60G60243
60	2 3/8	GT60/GT60	3050	10	-	62,7	11R60G60G60305
60	2 3/8	GT60/GT60	3660	12	-	75,4	11R60G60G60366
60	2 3/8	GT60/GT60	4265	14	-	86,9	11R60G60G60426
60	2 3/8	GT60/GT60	4915	16	-	99,1	11R60G60G60491
60	2 3/8	GT60/GT60	5470	18	-	110,4	11R60G60G60547
60	2 3/8	GT60/GT60	6100	20	-	121,5	11R60G60G60610

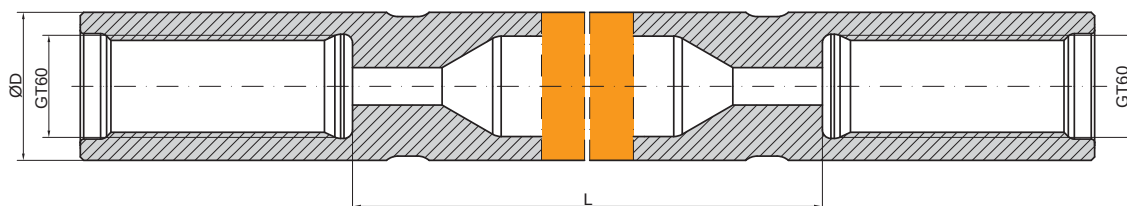
Flushing hole ø 22,6 mm, Female end ø 87 mm

Drill tube rods



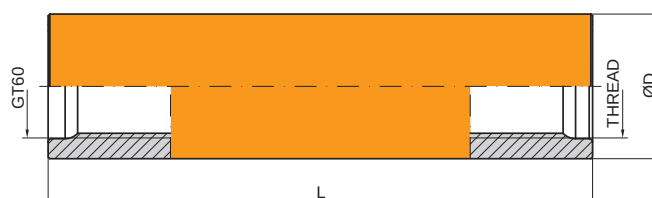
Diameter		Threads	Length			Weight (kg)	Catalogue no.
mm	inch		mm	ft	inch		
87	3 1/2	GT60/GT60	3660	12	-	97,8	1287G60G60366
87	3 1/2	GT60/GT60	4265	14	-	113,0	1287G60G60426

Drill tube rods



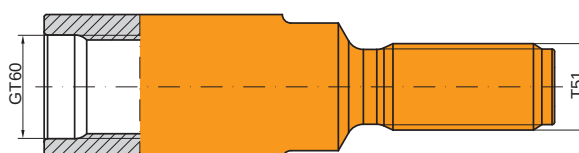
Diameter		Threads	Length			Weight (kg)	Catalogue no.
mm	inch		mm	ft	inch		
87	3 1/2	GT60/GT60	3660	12	-	105,0	1387G60G60366
87	3 1/2	GT60/GT60	4265	14	-	120,0	1387G60G60426

Coupling sleeve



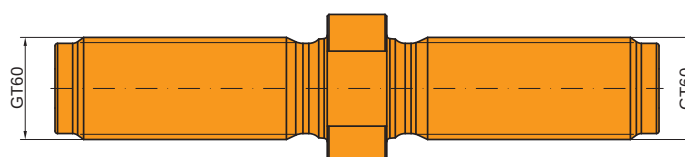
Diameter		Threads	Length		Weight (kg)	Catalogue no.
mm	inch		mm	inch		
85	3 3/8	GT60/T51	285	11 1/4	8,2	3985G60T5100
85	3 3/8	GT60/GT60	320	12 5/8	8,1	3985G60G6000

M – F adapters



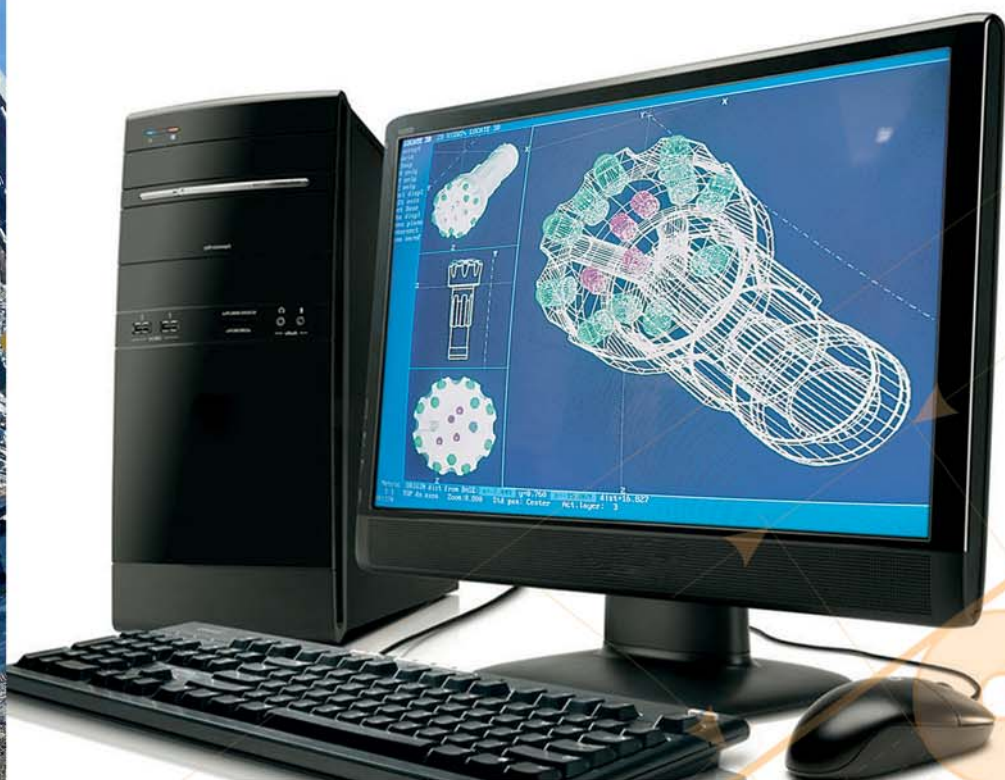
Threads	Length		Weight (kg)	Catalogue no.
female/male	mm	inch		
GT60/T51	300	11 3/4	6,1	3985G60T5103

M – M adapters

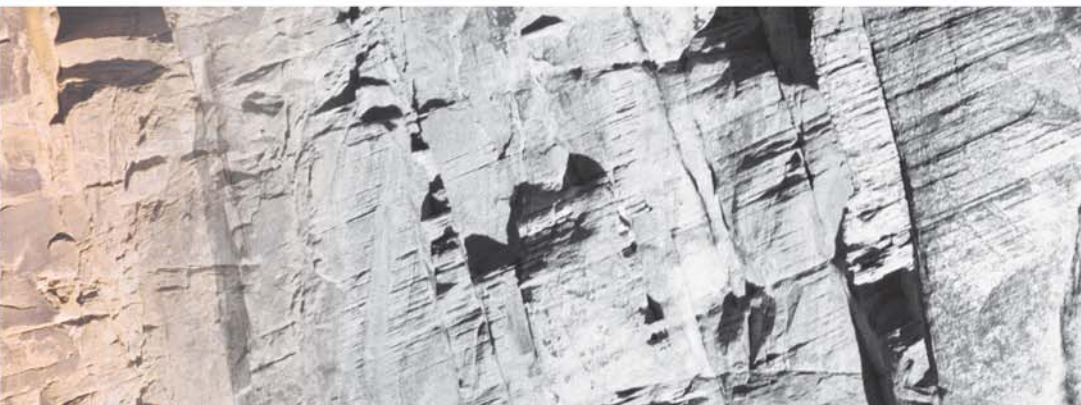


Threads	Length		Weight (kg)	Catalogue no.
male/male	mm	inch		
GT60/GT60	355	14	7,5	3860G60G6000

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DRILLING TOOLS





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