



ROCK
CUTTING
TOOLS

Built
to
Last!

Brunner
& Lay

INTRODUCTION

Brunner & Lay, established in 1882, manufactures an extensive range of quality tools for use in the Rock Drilling, Quarrying, Mining, Tunneling, Construction, Civil Engineering, and Demolition industries worldwide.

Brunner & Lay's reputation for being "Built to Last" has been nurtured throughout the years by continuous research, development, and testing of the Company's wide range of product, together with ongoing investment in modern technology and machinery.

This catalog features Brunner & Lay's wide range of Drilling Accessories that have been designed for today's hard hitting rock drills. Customer requirements, other than the products featured in this catalog, will be considered by special arrangement.

Material, drawings, and pictures in this catalog are the property of Brunner & Lay and are not to be reproduced without written permission.

Brunner & Lay reserves the right to amend product specifications without prior notification.

BRUNNER & LAY PRODUCT WARRANTY

The company's liability in respect to any warranty claim is limited to replacement, and does not extend to any other expenditure incurred or to any consequential damage. Warranty claims are subject to immediate notification of any problems and return of the product in question to Brunner & Lay under the Returned Goods Policy.

To insure safety, operators should select the correct tool for their machine and the job they are performing.

No other warranty is expressed or implied.



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ROCK DRILLING TOOLS

8th Edition

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Taper Drill Steel



SHANK SIZE	LENGTH		PART NUMBER		WEIGHT	
	FEET	mm.	11° Taper	12° Taper	Pounds	Kilograms
7/8" X 4-1/4" (22mm. X 108mm)	2'	609.6	K102425	K102426	5.0	2.3
	2-1/2'	762.0	K103025	K103026	6.1	2.8
	3'	914.4	K103625	K103626	7.1	3.2
	3-1/2'	1066.8	K104225	K104226	8.1	3.7
	4'	1219.2	K104825	K104826	9.2	4.2
	4-1/2'	1371.6	K105425	K105426	10.2	4.6
	5'	1524.0	K106025	K106026	11.3	5.1
	5-1/2'	1676.4	K106625	K106626	12.3	5.6
	6'	1828.8	K107225	K107226	13.3	6.0
	6-1/2'	1981.2	K107825	K107826	14.4	6.5
	7'	2133.6	K108425	K108426	15.4	7.0
	7-1/2'	2286.0	K109025	K109026	16.4	7.4
	8'	2438.4	K109625	K109626	17.5	7.9
	8-1/2'	2590.8	K110225	K110226	18.5	8.4
	9'	2743.2	K110825	K110826	19.5	8.8
	9-1/2'	2895.6	K111425	K111426	20.6	9.3
10'	3048.0	K112025	K112026	21.6	9.8	
10-1/2'	3200.4	K112625	K112626	22.6	10.3	
12'	3657.6	K114425	K114426	25.7	11.7	
13'	3962.4	K115625	K115626	27.8	12.6	
14'	4267.2	K116825	K116826	29.9	13.6	
1" X 4-1/4" (25mm X 108mm)	2'	609.6	K202435	K202436	6.6	3.0
	4'	1219.2	K204835	K204836	12.0	5.4
	6'	1828.8	K207235	K207236	17.4	7.9
	8'	2438.4	K209635	K209636	22.8	10.3
	10'	3048.0	K212035	K212036	28.2	12.8
	12'	3657.6	K214435	K214436	33.6	15.2

* Call your local warehouse for longer lengths

* All taper steel is carburized. To order High Frequency hardened steel replace the letter K in the part number with the letter H.

* E,H, and D thread shanked steel and Rock-Bits are available in the Brunner & Lay Pneumatic, Electric & Hydraulic Hammer Accessory Catalog.

Rock Bit Notes:

* = Made to order only, Consult Factory.


Due to Manufacturing tolerances, the actual bit diameters could exceed the nominal diameters given in this catalog by .090". This along with certain rock conditions could affect hole size desired.

Bits required to drill a specific tolerance hole are available on request. Consult factory for price and availability.

If a bit size or configuration does not appear in this catalog call customer service for assistance.


Shims for 7/8" x 12degree are also available upon request.

SINGLE PASS TAPER BITS




	BIT DIAMETER		Taper Type			Weight	
	INCHES	MM	7/8" - 11°	7/8" - 12°	1" - 11°	Pounds	Kilograms
	1-1/4"	32	T1001L0	T1004L0		.38	.17
	1-3/8"	35	T1201L0	T1204L0	T1202L0	.42	.19
	1-1/2"	38	T1501L0	T1504L0	T1502L0	.53	.24
	1-5/8"	41	T1601L0		T1602L0	.55	.25
	1-3/4"	45	T1701L0		T1702L0	.61	.28
	2"	51	T2001L0		T2002L0	.75	.34

MULTI PASS TAPER BITS



	BIT DIAMETER		Taper Type			Weight	
	INCHES	MM	7/8" - 11°	7/8" - 12°	1" - 11°	Pounds	Kilograms
	1 -1/4"	32		T1004M0		.38	.17
	1-3/8"	35		T1204M0		.42	.19
	1-1/2"	38		T1504M0		.53	.24
	1-5/8"	42		T1604M0		.55	.25
	1-3/4"	45		T1704M0		.61	.28
	2"	51		T2004M0		.75	.34



BUTTON TAPER BITS






	BIT DIAMETER		Taper Type			Weight	
	INCHES	MM	7/8" - 11°	7/8" - 12°	1" - 11°	Pounds	Kilograms
	1-1/4"	32		*S1004M		.39	.18
	1-3/8"	35	*S1201M	*S1204M		.43	.20
	1-1/2"	38	*S1501M	*S1504M		.54	.24
	1-5/8"	41	*S1601M	*S1604M		.56	.25
	2"	51					

R-25 100-ROPE 1" / 25-mm

Shanked Rods


	LENGTH		PART NUMBER	WEIGHT	
	FEET/INCHES	MILLIMETER		POUNDS	KILOGRAMS
7/8" X 4-1/4"  (22mm x 108mm)	1'	305	P02B100	3.5	1.6
	2'	610	K10242A	5.5	2.5
	3'	914	K10362A	7.6	3.4
	4'	1219	K10482A	9.7	4.4
	6'	1829	K10722A	13.8	6.3
	8'	2438	K10962A	17.9	8.1
	10'	3048	K11202A	22.1	10.0
1" X 4-1/4"  (25mm x 108mm)	1'	305	K20123A	3.9	1.8
	2'	610	K20243A	6.6	3.0
	3'	914	K20363A	9.3	4.2
	4'	1219	K20483A	12.0	5.4
	6'	1829	K20723A	17.4	7.9
	8'	2438	K20963A	22.8	10.3
	10'	3048	K21203A	28.2	12.8

Carbex




7/8" (22mm) HEX 	2'	610	K1024AA	5.1	2.3
	4'	1219	K1048AA	9.2	4.2
	6'	1829	K1072AA	13.4	6.1
	8'	2438	K1096AA	17.5	8.0
	10'	3048	K1120AA	21.6	9.8
SINGLE THREAD 1" (25mm) HEX 	4'	1219	K2048AA	11.8	5.4
	6'	1829	K2072AA	17.2	7.8
	8'	2438	K2096AA	22.6	10.3
	10'	3048	K2120AA	28.0	12.7
	1" (25mm) HEX 125-R(R32) to 100-R(R25) 	10'-1/2"	3073	K2121AC	27.7
12'-1/2"		3683	K2145AC	33.1	15.0

Drifter Rod

Couplings

	Diameter		PART NUMBER	WEIGHT	
	INCHES	MILLIMETER		POUNDS	KILOGRAMS
 100 ROPE	1-3/8"	38	CC100R0	2.0	.91
100-Rope/125-Rope Combination	1-3/4"	45	CA10125	2.1	.91

Rok Bits

STANDARD 4-POINT 	1-3/8"	35	T1210M0	.7	.32
	1-1/2"	38	T1510M0	.9	.41
	1-5/8"	41	T1610M0	1.1	.50
	1-3/4"	45	T1710M0	1.2	.54
	1-7/8"	48	T1910M0	1.5	.68
	2"	51	T2010M0	1.7	.77
	2-1/4"	57	T2210M0	1.8	.90
MODIFIED CHISEL 	1-3/8"	35	S1210M	1.1	.50
	1-1/2"	38	S1510M	1.1	.50
	1-5/8"	41	S1610M	1.3	.59
	1-3/4"	45	S1710M	1.5	.68
	1-7/8"	48	S1910M	1.7	.77
	2"	51	S2010M	2.0	.91
CROWN  Bit shown with parabolic carbide	1-1/2"	38	S1510C6	1.1	.50
	1-5/8"	41	S1610C6	1.3	.59
	1-3/4"	45	S1710C6	1.5	.68
	1-7/8"	48	S1910C6	1.7	.77
	2"	51	S2010C6	2.0	.91

112-ROPE 1-1/8" / 28-mm

R-28

LENGTH		PART NUMBER	WEIGHT	
FEET/INCHES	MILLIMETER		POUNDS	KILOGRAM
10' 1-1/2"	3073	K31210C	34.6	15.7
12' 1-1/2"	3683	K31450C	42.1	19.1
14' 1-1/2"	4293	K31690C	48.0	21.8



Drifter Rods

DIAMETER		PART NUMBER	WEIGHT	
INCHES	MILLIMETER		POUNDS	KILOGRAM
1 5/8"	41	T1611M0	1.1	.5
1 3/4"	45	T1711M0	1.2	.6
1 7/8"	48	T1911M0	1.5	.7
2"	51	T2011M0	1.7	.8
2 1/4"	57	T2211M0	1.8	.9












Rok - Bits

1 1/2"	38	S1511M	1.1	.5
1 5/8"	41	S1611M	1.3	.6
1 3/4"	45	S1711M	1.5	.7
1 7/8"	48	S1911M	1.7	.8
2"	51	S2011M	2.0	.9









R-32

125-ROPE 1-1/4" / 32-mm

	LENGTH		PART NUMBER	WEIGHT	
	FEET/INCHES	MILLIMETER		POUNDS	KILOGRAMS
Shanked Rods  <p>1" x 4-1/4" (25mm x108mm)</p>	2'	610	K20243C	7.1	3.2
	3'	914	K20363C	9.8	4.4
	4'	1219	K20483C	12.5	5.7
	6'	1829	K20723C	17.9	8.1
	8'	2438	K20963C	23.3	10.6
	10'	3050	K21203C	28.7	13.0
Carbex  <p>1" (25mm) Hexagon Single Thread</p>	4'	1219	K2048CC	11.8	5.4
	6'	1829	K2072CC	17.2	7.8
	8'	2438	K2096CC	22.6	10.3
	10'	3050	K2120CC	28.0	12.7
Drifter Rods  <p>1-1/4" (32mm) Hexagon 150-Rope (R-38) to 125-Rope (R-32)</p>  <p>1-1/4" (32mm) Hexagon T-38 to 125-Rope</p>  <p>1-3/8" (35mm) Hexagon 150-Rope (R38) to 125-Rope (R32)</p>  <p>1-3/8" (35mm) Hexagon T-38 to 125-Rope (R-32)</p>	10'-1/2"	3073	K4121CE	43.5	19.7
	12'-1/2"	3683	K4145CE	51.8	23.5
	14'-1/2"	4293	K4169CE	63.6	28.8
	16'-1/2"	4902	K4193CE	72.4	32.8
	18'-1/2"	6274	K4217CE	81.3	36.9
	10'-1/2"	3073	K4121CQ	43.5	19.7
	12'-1/2"	3683	K4145CQ	51.8	23.5
	14'-1/2"	4293	K4169CQ	63.6	28.8
	16'-1/2"	4902	K4193CQ	72.4	32.8
	18'-1/2"	6274	K4217CQ	81.3	36.9
	16'-1/2"	4902	K8193CE	85.6	38.8
	18'-1/2"	6274	K8217CE	96.0	43.5
16'-1/2"	4902	K8193CQ	85.6	38.8	
18'-1/2"	6274	K8217CQ	96.0	43.5	
Round Drill Steel  <p>1-1/4" (32mm) ROUND Single Thread</p>  <p>1-1/4" (32mm) ROUND Multilife Thread</p>  <p>1-1/4" (32mm) ROUND Male / Female</p>	4'	1220	J4048CC	15.0	6.8
	6'	1830	J4072CC	22.5	10.2
	8'	2440	J4096CC	30.0	13.6
	10'	3050	J4120CC	37.5	17.0
	12'	3660	J4144CC	45.0	20.4
	14'	4265	J4168CC	52.5	23.8
	10'	3050	J4120DD	37.5	17.0
	12'	3660	J4144DD	45.0	20.4
	14'	4265	J4168DD	52.5	23.8
	4'3"	1295	J4051C1F	17.1	7.8
	5'3"	1600	J4063C1F	20.9	9.5
	6'3"	1905	J4075C1F	24.6	11.2
8'3"	2515	J4099C1F	32.1	14.6	
10'3"	3124	J4123C1F	39.6	18.0	
12'3"	3734	J4147C1F	47.1	21.4	

125-ROPE 1-1/4" / 32-mm R-32

DIAMETER		PART NUMBER	WEIGHT			
INCHES	MILLIMETER		POUNDS	KILOGRAMS		
1 3/4"	45	CC125R0	2.0	.9	125 Rope	
1 3/4"	45	CA10125	2.1	.9	100Rope - 125 Rope	Combination
2 1/8"	54	CA12515	4.2	2.1	125 Rope - 150 Rope	
2 1/8"	54	CA12538	4.2	2.1	125 Rope - T-38	
1 5/8"	41	T1612M0	1.1	.5		STANDARD 4-POINT
1 3/4"	45	T1712M0	1.2	.6		
1 7/8"	48	T1912M0	1.5	.7		
2"	51	T2012M0	1.7	.8		
2 1/4"	57	T2212M0	1.8	1.0		
2 1/2"	64	T2512M0	2.5	1.1		
2 3/4"	70	T2712M0	3.0	1.4		
3"	76	T3012M0	3.5	1.6		
1 3/4"	45	T1712N0	1.2	.6		HI-DUTY 4-POINT
1 7/8"	48	T1912N0	1.5	.7		
2"	51	T2012N0	1.7	.8		
2 1/4"	57	T2212N0	1.8	1.0		
1 5/8"	41	S1612M	1.3	.6		MODIFIED CHISEL
1 3/4"	45	S1712M	1.5	.7		
1 7/8"	48	S1912M	1.7	.8		
2"	51	S2012M	2.0	.9		
1 5/8"	41	S1612C6	1.3	.6		CROWN
1 3/4"	45	S1712C6	1.5	.7		
1 7/8"	48	S1912C6	1.7	.8		
2"	51	S2012C6	2.0	.9		
2 1/4"	57	S2212C6	2.2	1.0		
2 1/2"	64	S2512C6	2.5	1.1		
3"	76	S3012CA	2.7	1.2		
2"	51	S2012-W-	2.0	.9		Retrac Button Bits Call our customer service representatives for bit and carbide type.
2-1/4"	57	S2212-W-	2.7	1.2		

Couplings

Rok-Bits

Button Bits

Button Bits are available with Standard, Parabolic, Ballistic, or Conical Carbide




- Parabolic = P as the last digit
- Ballistic = B as the last digit
- Conical = C as the last digit







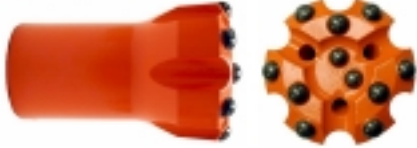

R-35 137-Rope 1-3/8" / 35-mm

		LENGTH		PART NUMBER	WEIGHT		
		FEET/INCHES	MILLIMETER		POUNDS	KILOGRAMS	
Drifter Rods	 1-3/8" (35mm) Hexagon 137-R(R35) to T-38 (38mm)	18' 1-1/2"	6274	K8217NQ	96.0	43.5	
	 1-1/2" (32mm) Round 137-R(R35) to T-38 (38mm)	18' 1-1/2"	6274	J5216KR	94.3	42.8	
Button Bits	 CHISEL	DIAMETER		PART NUMBER	WEIGHT		
		INCHES	MILLIMETER		POUNDS	KILOGRAMS	
		1-7/8"	48		S1937MP	1.7	.77
		2"	51		S2037237P	2.0	.91
		2"	51	S2037POP	2.0	.91	

R-38 150-Rope 1-1/2" / 38-mm

		LENGTH		PART NUMBER	WEIGHT			
		FEET/INCHES	MILLIMETER		POUNDS	KILOGRAMS		
Drifter Rods	 1-1/4" (32mm) Hexagon 150-R(R-38) to 125-R (R-32)	10' 1-1/2"	3073	K4121CE	43.5	19.7		
		12' 1-1/2"	3683	K4145CE	51.8	23.5		
		14' 1-1/2"	4293	K4169CE	63.6	28.8		
		16' 1-1/2"	4902	K4193CE	72.4	32.8		
		18' 1-1/2"	6274	K4217CE	81.3	36.9		
Round Drill Steel	 1-3/8" (35mm) Hexagon 150R (R38) to 125R (R32)	16' 1-1/2"	4902	K8193CE	85.6	38.8		
		18' 1-1/2"	6274	K8217CE	96.0	43.5		
		1 1/2" (38mm) ROUND		10'	3050	J5120EE	52.4	23.9
		Single Thread		12'	3660	J5144EE	62.8	28.7
				14'	4265	J5168EE	73.3	33.5
		Picture shown with flats. Add an F to the end of the part number if flats are required.						
Round Drill Steel	 1 1/2" (38mm) ROUND Multilife	10'	3050	J5120FF	52.4	23.9		
		12'	3660	J5144FF	62.8	28.7		
		14'	4265	J5168FF	73.3	33.5		
		1 1/2" (38mm) ROUND		10'	3050	J5120HH	47.2	21.4
		All Thread		12'	3660	J5144HH	56.6	25.7
				14'	4265	J5168HH	66.1	30.0

150-Rope 1-1/2" / 38mm **R-38**

DIAMETER		PART NUMBER	WEIGHT		
INCHES	MILLIMETER		POUNDS	KILOGRAMS	
2-1/8"	54	CC150R0	3.5	1.6	150 Rope 
2-1/8"	54	CA12515	4.9	2.2	125 Rope - 150 Rope COMBINATION 150 Rope - T-38
2-1/8"	54	CA15038	3.7	1.7	
2 1/2"	64	T2515X0	3.6	1.6	STANDARD X-Design 
2 3/4"	70	T2715X0	4.2	1.9	
3"	76	T3015X0	4.8	2.2	
3 1/2"	89	T3515X0	6.5	2.9	
4"	102	T4015X0	8.7	3.9	
2 1/2"	64	T2515Z0	3.8	1.7	HI-DUTY X-Design 
2 3/4"	70	T2715Z0	4.4	2.0	
3"	76	T3015Z0	5.0	2.3	
3 1/2"	89	T3515Z0	6.8	3.1	
4"	102	T4015Z0	9.0	4.1	
2 1/2"	64	S2515C0	3.7	1.7	CROWN 
2 3/4"	70	S2715C0	4.3	1.9	
3"	76	S3015H0	4.7	2.1	
3 1/2"	89	S3515H0	5.2	2.4	
4"	102	S4015H0	8.4	3.8	
2 1/2"	64	S2515D0	3.7	1.7	DROP CENTER 
2 3/4"	70	S2715D0	4.3	1.9	
3"	76	S3015D0	4.7	2.1	
3 1/2"	89	S3515D0	5.2	2.4	
4"	102	S4015D0	8.4	3.8	
2 1/2"	64	S2515F0	3.7	1.7	FLAT FACE 
2 3/4"	70	S2715F0	4.3	1.9	
3"	76	S3015FA	4.7	2.1	
3 1/2"	89	S3515FA	5.2	2.4	
4"	102	S4015FA	8.4	3.8	

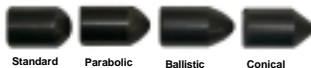
Couplings

Rok - Bits

Button Bits

Button Bits are available with Standard, Parabolic, Ballistic, or Conical Carbide

- Parabolic = P as the last digit
- Ballistic = B as the last digit
- Conical = C as the last digit



T-38 1-1/2" / 38mm

Carbex

	LENGTH		PART NUMBER	WEIGHT	
	FEET/INCHES	MILLIMETER		POUNDS	KILOGRAMS
1-1/4" (32mm) Hexagon					
Single Thread	10'	3050	K4120QQ	45.6	20.7
	12'	3660	K4144QQ	54.4	24.7
	14'	4265	K4168QQ	59.8	27.1

Drifter Rods

1-1/4" (32mm) Hexagon					
T-38 (38mm) to 125-Rope (R32)	10' 1-1/2"	3073	K4121CQ	43.5	19.7
	12' 1-1/2"	3683	K4145CQ	51.8	23.5
	14' 1-1/2"	4293	K4169CQ	63.6	28.8
	16' 1-1/2"	4902	K4193CQ	68.0	30.8
	18' 1-1/2"	6274	K4217CQ	81.3	36.9
1-3/8" (35mm) Hexagon					
T-38 (38mm) to 125-Rope (R32)	16' 1-1/2"	4902	K8193CQ	85.6	38.8
	18' 1-1/2"	6274	K8217CQ	96.0	43.5

Round Drill Steel

1-1/2" (38mm) ROUND					
Single Thread	6'	1830	J5072RR	31.4	27.8
	8'	2440	J5096RR	41.9	19.0
	10'	3050	H5120RR	52.4	23.7
	12'	3660	H5144RR	62.8	28.4
	14'	4265	H5168RR	73.3	33.2
	16'	4875	H5192RR	83.8	38.0
	18'	5485	H5216RR	94.3	42.8
Picture shown with flats. Add an F to the end of the part number if flats are required.					
1-1/2" (38mm) ROUND					
Tandem Thread	10'	3050	H5120SS	52.4	23.7
	12'	3660	H5144SS	62.8	28.4
	14'	4265	H5168SS	73.3	33.2
	16'	4875	H5192SS	83.8	38.0
1-1/2" (38mm) ROUND					
All Thread	10'	3050	J5120GG	47.2	21.4
	12'	3660	J5144GG	56.6	25.6
	14'	4270	J5168GG	66.0	29.9
1-1/2" (38mm) ROUND					
Male / Female	4' 4"	1320	J5052RQF	24.9	11.2
	5' 4"	1626	J5064RQF	30.2	13.6
	6' 4"	1930	J5076RQF	35.4	16.0
	10' 4"	3150	J5124RQF	56.4	25.5
	12' 4"	3760	J5148RQF	66.9	30.3




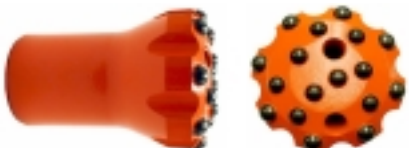
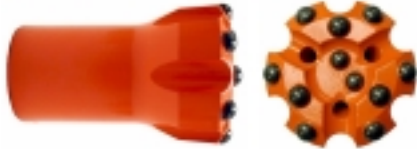


Call 1-800-872-6899
for HL-16 Drilling Accessories

1-1/2" / 38mm **T-38**

Couplings

Rok-Bits

Button Bits

DIAMETER		PART NUMBER	WEIGHT		T-38 
INCHES	MILLIMETER		POUNDS	KILOGRAMS	
2 1/8"	54	CCT3800	3.9	1.8	
2 1/8"	54	CA12538	5.1	2.4	COMBINATION 125 Rope - T-38 150 Rope - T-38 T-38 - T-45
2 1/8"	54	CA15038	3.7	1.7	
2 1/2"	64	CA38045	7.0	3.1	
2 1/2"	64	T2538X0	3.6	1.6	STANDARD X-Design 
2 3/4"	70	T2738X0	4.2	1.9	
3"	76	T3038X0	4.8	2.2	
3 1/2"	89	T3538X0	6.5	2.9	
4"	102	T4038X0	8.7	3.9	
2 1/2"	64	T2538Z0	3.8	1.7	HI-DUTY X-Design 
2 3/4"	70	T2738Z0	4.4	2.0	
3"	76	T3038Z0	5.0	2.3	
3 1/2"	89	T3538Z0	6.8	3.1	
4"	102	T4038Z0	9.0	4.1	
2 1/2"	64	S2538C0	3.7	1.7	CROWN 
2 3/4"	70	S2738C0	4.3	1.9	
3"	76	S3038H0	4.7	2.1	
3 1/2"	89	S3538H0	7.2	3.3	
4"	102	S4038H0	9.2	4.2	
2 1/2"	64	S2538D0	3.7	1.7	DROP CENTER 
2 3/4"	70	S2738D0	4.3	1.9	
3"	76	S3038D0	4.7	2.1	
3 1/2"	89	S3538D0	7.2	3.3	
4"	102	S4038D0	9.2	4.2	
2 1/2"	64	S2538F0	3.7	1.7	FLAT FACE 
2 3/4"	70	S2738F0	4.3	1.9	
3"	76	S3038FA	4.7	2.1	
3 1/2"	89	S3538FA	7.2	3.3	
4"	102	S4038FA	9.2	4.2	
2-1/2"	64	S2538-W-	5.0	2.3	Retrac Button Bits Call our customer service representatives for bit and carbide type.  Straight hole available upon request.
2-3/4"	70	S2738-W-	5.8	2.6	
3"	76	S3038-W-	6.6	3.0	
3-1/2"	89	S3538-W-	11.0	5.0	
4"	102	S4038-W-	14.6	6.6	

Button Bits are available with Standard, Parabolic, Ballistic, or Conical Carbide






- Parabolic = P as the last digit
- Ballistic = B as the last digit
- Conical = C as the last digit



T-45 1-3/4" / 45-mm

Carbex








Round Drill Steel

	LENGTH		PART NUMBER	WEIGHT	
	FEET/INCHES	MILLIMETER		POUNDS	KILOGRAMS
1-1/2" (38mm) Hexagon  Single Thread	10'	3050	K5120TT	59.3	26.9
	12'	3660	K5144TT	70.8	32.1
	14'	4265	K5168TT	82.2	37.3
1-3/4" (45mm) ROUND  Single Thread <small>Picture shown with flats. Add an F to the end of the part number if flats are required.</small>	10'	3050	H6120TT	71.1	32.3
	12'	3660	H6144TT	85.3	38.7
	14'	4265	H6168TT	99.5	45.1
	20'	6095	H6240TT	142.2	64.5
1-3/4" (45mm) ROUND  Tandem Thread	10'	3050	H6120YY	71.1	32.2
	12'	3660	H6144YY	85.3	38.7
	14'	4265	H6168YY	99.5	45.1
	20'	6095	H6240YY	142.2	64.5
1-3/4" (45mm) ROUND  All Thread	10'	3050	J6120XX	64.5	29.3
	12'	3660	J6144XX	77.4	35.1
	14'	4265	J6168XX	90.3	41.0
1-3/4" (45mm) ROUND  Male / Female	6' 4"	1930	J6076T2F	51.0	23.1
	8' 4"	2540	J6100T2F	65.2	29.6
	10' 4"	3150	J6124T2F	79.4	36.0
	12' 4"	3760	J6148T2F	93.6	42.5
	20' 4"	6198	J6244T2F	150.5	68.3

Call 1-800-872-6899
for HL-17 Drilling Accessories

1-3/4" / 45mm **T-45**

Couplings Rok-Bits Button Bits

DIAMETER		PART NUMBER	WEIGHT		T-45		
FEET/INCHES	MILLIMETER		POUNDS	KILOGRAMS			
2 1/2"	64	CCT4500	6.0	2.7			
2 1/2"	64	CA38045	7.0	3.1	T-38 - T-45 T-45 - T-51	COMBINATION	
3"	76	CA45051	6.4	2.9			
						STANDARD X-Design	
3"	76	T3045X0	5.2	2.3			
3 1/2"	89	T3545X0	6.8	3.1			
4"	102	T4045X0	11.7	5.3			
						HI-DUTY X-Design	
3"	76	T3045Z0	5.3	2.4			
3 1/2"	89	T3545Z0	7.0	3.2			
4"	102	T4045Z0	11.8	5.4			
						CROWN	
3"	76	S3045H0	5.1	2.3			
3 1/2"	89	S3545H0	6.7	3.0			
4"	102	S4045H0	12.3	5.6			
4 1/2"	115	S4545H0	14.4	6.5			
						DROP CENTER	
3"	76	S3045D0	5.1	2.3			
3 1/2"	89	S3545D0	6.7	3.0			
4"	102	S4045D0	12.3	5.6			
4 1/2"	115	S4545D0	14.4	6.5			
						FLAT FACE	
3"	76	S3045FA	5.1	2.3			
3 1/2"	89	S3545FA	6.7	3.0			
4"	102	S4045FA	12.3	5.6			
4 1/2"	115	S4545FA	14.4	6.5			
						Retrac Button Bits	
3"	76	S3045-W-	6.6	3.0		Call our customer service representatives for bit and carbide type.	
3-1/2"	89	S3545-W-	11.0	5.0			
4"	102	S4045-W-	14.6	6.6			
4-1/2"	115	S4545-W-	16.4	7.4			

Straight hole available upon request.









Button Bits are available with Standard, Parabolic, Ballistic, or Conical Carbide

- Parabolic = P as the last digit
- Ballistic = B as the last digit
- Conical = C as the last digit



T-51 2" / 51-mm

Drill Steel
Coupling
Rok-Bits
Button Bits

		LENGTH		PART NUMBER	WEIGHT	
		FEET/INCHES	MILLIMETER		POUNDS	KILOGRAMS
 Single Thread 2" Round	12'	3660	H7144ZZ	112.8	51.2	
	14'	4265	H7168ZZ	131.6	59.7	
	20'	6095	H7240ZZ	188.0	85.3	
 Male / Female	12'4"	3760	J7148Z3F	125.3	56.8	
	20'4"	6198	J7244Z3F	200.5	90.9	
 NO FLATS	3"	76	CCT5100	10.5	4.7	
						W/ FLATS
COMBINATION	T-45 - T-51	3"	76	CA45051	6.4	2.9
 HI-Duty X-Design	4 1/2"	115	T4551Z0	13.6	6.2	
	5"	127	T5051Z0	15.4	7.0	
 CROWN	3-1/2"	89	S3551H0	8.4	3.8	
	4"	102	S4051H0	10.5	4.8	
	4 1/2"	115	S4551H0	13.6	6.2	
	5"	127	S5051H0	15.4	7.0	
 DROP CENTER	3-1/2"	89	S3551D0	8.4	3.8	
	4"	102	S4051D0	10.5	4.8	
	4 1/2"	115	S4551D0	13.6	6.2	
	5"	127	S5051D0	15.4	7.0	
 FLAT FACE	3-1/2"	89	S3551F0	8.4	3.8	
	4"	102	S4051FA	10.5	4.8	
	4 1/2"	115	S4551FA	13.6	6.2	
 Retrac Button Bits Call our customer service representatives for bit and carbide type.	3-1/2"	89	S3551-W-	10.5	4.8	
	4"	102	S4051-W-	14.6	6.6	
	4-1/2"	115	S4551-W-	16.4	7.4	
	5"	127	S5051-W-	18.2	8.2	
Straight hole available upon request.						

Call 1-800-872-6899
for C-17 Drilling Accessories



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Shanked Rods

		Thread	Part Number	Length Inches	Length MM	Weight Pounds	Weight Kilograms
1	7/8"Hex (22mm) x 4-1/4"(108mm) 	R25 / 100-Rope	P02B100 <i>*No Seal</i>	16	405.0	2.5	1.13
2	1"Hex (25mm) x 4-1/4" (108mm) 	R25 / 100-Rope R32 / 125-Rope	P04B100 P04B120	14.5 14.5	368.0 368.0	3.0 3.0	1.36 1.36


Atlas Copco


		Thread	Part Number	Length Inches	Length MM	Weight Pounds	Weight Kilograms
3	1-11/32"Rd.(33.7mm) x 2-3/8"  1036HB, 1038HB, 1238HB	8-Spline R38 / 150-Rope T-38 T-45	P28X150 P28X380 P28X450	19.68 19.68 19.68	500.0 500.0 500.0	11.00 11.00 12.00	4.98 4.98 5.44
4	1-11/32"Rd. (33.7mm) X 2-3/8"  1038HD, 1238HD	8-Spline R32 / 125-Rope R38 / 150-Rope T-38	P29X120 P29X150 P29X380	19.68 19.09 19.09	500.0 485.0 485.0	11.00 11.00 11.00	4.98 4.98 4.98
5	1-11/32"Rd. (33.7mm) x 2-3/8"  1038HL, 1238HL	8-Spline R38 / 150-Rope T-38	P32X150 P32X380	23.23 23.23	590.0 590.0	11.00 11.00	4.98 4.98
6	1-3/4"Rd. (45mm) x 6-1/2"  BBE56US, BBE57	6-Spline T-38 T-45	P42J380 P42J450	21.1 21.1	536.0 536.0	11.40 11.40	5.17 5.17
7	1-1/2"Rd. (38mm) x 3-13/16"  COP 125, 130, 131	3-Flute R38 / 150-Rope T-38	P27J150 P27J380	15.0 15.0	381.0 381.0	6.00 6.00	2.72 2.72
8	1-11/32"Rd. (33.7mm) x 2-9/32"  1032HD	8-Spline R32 / 125-Rope R38 / 150-Rope	Female P22X120F P22X150F	13.81 13.81	351.0 351.0	7.70 7.70	3.49 3.49
9	2-1/8"Rd. (54mm)  COP1440	8-Spline R38 / 150-Rope T-38 Long Bar R32 / 125-Rope R38 / 150-Rope	P46X150 P46X380 P47X120 P47X150	17.1 17.1 20.6 20.6	435.0 435.0 523.0 523.0	8.50 8.50 9.20 9.20	3.85 3.85 4.17 4.17
10	2-1/8"Rd. (54mm)  COP1550	8-Spline T-45 T-51	P56X450 P56X510	21.25 21.25	540.0 540.0	14.60 14.60	6.62 6.62

Bohler / Demag


	1-3/4"Rd. (45mm) x 3-13/16"	Thread	Part Number	Length Inches	Length MM	Weight Pounds	Weight Kilograms
11	 <p>Also Available in tuning Style</p> <p>HM750, HM751 - RD500</p>	4-Spline					
		R32 / 125-Rope	P36J120	14.0	356.0	7.1	3.22
		R38 / 150-Rope	P36J150	14.0	356.0	7.6	3.44
		T-38	P36J380	15.0	381.0	7.6	3.44
		T-45	P36J450	15.0	381.0	8.5	3.85


Chicago Pneumatic


	1-1/2"Rd. (38mm) x 3-13/16"	Thread	Part Number	Length Inches	Length MM	Weight Pounds	Weight Kilograms
12	 <p>450N, 400DR</p>	Lug Bar					
		R32 / 125-Rope	P24*120	13.12	333.0	5.60	2.54
		R38 / 150-Rope	P24*150	13.12	333.0	5.60	2.54
		T-38	P24*380	13.12	333.0	5.60	2.54

	1-3/4"Rd. (45mm) x 3-13/16"	Thread	Part Number	Length Inches	Length MM	Weight Pounds	Weight Kilograms
13	 <p>Also Available in tuning Style</p> <p>CP 451</p>	4-Spline					
		R32 / 125-Rope	P36J120	14.0	356.0	7.1	3.22
		R38 / 150-Rope	P36J150	14.0	356.0	7.6	3.44
		T-38	P36J380	15.0	381.0	7.6	3.44
		T-45	P36J450	15.0	381.0	8.5	3.85

Furukawa

	1-3/4"Rd. (45mm) x 3-13/16"	Thread	Part Number	Length Inches	Length MM	Weight Pounds	Weight Kilograms
14	 <p>Also Available in tuning Style</p> <p>HD120, M120, PD200</p>	4-Spline					
		R32 / 125-Rope	P36J120	14.0	356.0	7.1	3.22
		R38 / 150-Rope	P36J150	14.0	356.0	7.6	3.44
		T-38	P36J380	15.0	381.0	7.6	3.44
		T-45	P36J450	15.0	381.0	8.5	3.85

	1-3/4"Rd. (45mm) x 6-1/2"	Thread	Part Number	Length Inches	Length MM	Weight Pounds	Weight Kilograms
15	 <p>HD200, HD300</p>	6-Spline					
		T-38	P72L380	25.5	648.0	14.5	6.57
		T-45	P72L450	25.5	648.0	14.5	6.57


	1-3/4"Rd. (45mm) x 4-1/16"	Thread	Part Number	Length Inches	Length MM	Weight Pounds	Weight Kilograms
16	 <p>PD200 Heavy Duty</p>	4-Spline					
		T-38	P75J380	19.0	483.0	9.7	4.39


	1.6" (36mm)	Thread	Part Number	Length Inches	Length MM	Weight Pounds	Weight Kilograms
17	 <p>HD609</p>	8-Spline					
		T-38	P71X380	24.4	620.0	13.5	6.12

		Thread	Part Number	Length Inches	Length MM	Weight Pounds	Weight Kilograms
18	 <p>HD612</p>	8-Spline					
		T-45	P68X450	28.0	712.0	20.0	9.07







		Thread	Part Number	Length Inches	Length MM	Weight Pounds	Weight Kilograms
19	 <p>HD615</p>	8-Spline					
		T-51	P76X510	27.5	700.0	32.0	14.51

Gardner Denver







	1-1/2"Rd. (38mm) X 3-13/16"	Thread	Part Number	Length Inches	Length MM	Weight Pounds	Weight Kilograms
20	 <p>99,123</p>	Lug Bar					
		R32 / 125-Rope	P24*120	13.12	333.0	5.60	2.54
		R38 / 150-Rope	P24*150	13.12	333.0	5.60	2.54
		T-38	P24*380	13.12	333.0	5.60	2.54

	1-3/4"Rd. (45mm) x 3-13/16"	Thread	Part Number	Length Inches	Length MM	Weight Pounds	Weight Kilograms
21	 <p>Also Available in tuning Style</p> <p>PR-55, PR-123</p>	4-Spline					
		R32 / 125-Rope	P36J120	14.0	356.0	7.1	3.22
		R38 / 150-Rope	P36J150	14.0	356.0	7.6	3.44
		T-38	P36J380	15.0	381.0	7.6	3.44
		T-45	P36J450	15.0	381.0	8.5	3.85











Gardner Denver-Continued

		Thread	Part Number	Length Inches	Length MM	Weight Pounds	Weight Kilograms	
22		1-3/4"Rd. (45mm) x 3-13/16"	4-Spline					
			R38 / 150-Rope	P36L150	14	356.0	7.6	3.44
			T-38	P36L380	14	356.0	7.6	3.44
23		1-3/4"Rd. (45mm) x 3-13/16"	6-Spline					
			T-38	P70L38T	28	711.0	13.0	5.89
			T-45	P70L45T	28	711.0	14.0	6.35
24		1-15/16"Rd (49mm) x 3-13/16"	14-Spline					
			R38 / 150-Rope	P25X150	23.3	592.0	11.0	4.98
			T-38	P25X380	23.3	592.0	11.0	4.98
			T-45	P25X450	23.3	592.0	13.0	5.89
25		1-3/4"Rd. (45mm) x 5-3/4"	12-Spline					
			T-38	P35X380	29	737.0	17.8	8.07
			T-45	P35X450	29	737.0	17.8	8.07
26		1-3/4"Rd (45mm) x 3-13/16"	4-Spline					
			R38 / 150-Rope	P37X150	23	584.0	10.0	4.53
			T-38	P37X380	23	584.0	10.0	4.53
27		2"Rd. (51mm)	14-Spline					
			T-45	P17X450	36	914.4	28.6	12.97
			T-51	P17X510	36	914.4	28.6	12.97




Ingersoll - Rand

		Thread	Part Number	Length Inches	Length MM	Weight Pounds	Weight Kilograms	
28		1-1/2"Rd. (38mm) x 3-13/16"	Lug Bar					
			R35 / 125-Rope	P24*120	13.12	333.0	5.6	2.54
			R38 / 150-Rope	P24*150	13.12	333.0	5.6	2.54
			T-38	P24*380	13.12	333.0	5.6	2.54
29		1-1/2"Rd. (38mm) x 3-13/16"	4-Spline					
			R32 / 125-Rope	P85D120	13.0	333.0	5.4	2.44
30		1-3/4"Rd. (45mm) x 3-13/16"	4-Spline					
			R32 / 125-Rope	P36J120	14.0	356.0	7.1	3.22
			R38 / 150-Rope	P36J150	14.0	356.0	7.6	3.44
			T-38	P36J380	15.0	381.0	7.6	3.44
			T-45	P36J450	15.0	381.0	8.5	3.85
31		1.74 (45mm) x 3.875	12-Spline					
			T-38	P67J380	13.75	349.0	7.0	3.17
32		1-3/4"Rd. (45mm) x 6-1/2"	6-Spline					
			T-38	P42J380	21.1	537.0	11.4	5.17
			T-45	P42J450	21.1	537.0	11.4	5.17
33		1-13/16" (46mm) x 4-5/16"	6-Spline					
			T-38	P84N380	19.25	489.0	10.6	4.80
			T-45	P84N450	19.25	489.0	10.7	4.85







Ingersoll-Rand - Continued

		Thread	Part Number	Length Inches	Length MM	Weight Pounds	Weight Kilograms
33		1-13/15" (46mm) 4-5/16"					
		6-Spline T-45	Reverse Percussion P84N45B	27.5	699.0	16.0	7.25
	YH-65RP						
34							
		6-Spline T-45	P49N450	19.5	495.0	13.0	5.89
	YH-80A						
35		2.05 (52mm) x 2.91"					
		8-Spline T-45	Forward Percussion P83Q450	24.75	625.6	17.0	7.11
		T-51	P83Q510	24.75	625.6	17.0	7.11
	YH-95						
36							
		8-Spline T-45	Reverse Percussion P83Q45B	33.0	840.0	24.0	10.88
		T-51	P83Q51B	33.0	840.0	24.0	10.88
	YH-95RP						
37							
		8-Spline T-45	Forward Percussion P60X450	28.7	728.0	26.0	11.79
		T-51	P60X510	28.7	728.0	26.0	11.79
	YH-110V						
37							
		8-Spline T-45	Reverse Percussion P60X45B	35.4	900.0	32.0	14.51
		T-51	P60X51B	35.4	900.0	32.0	14.51
	YH-110VRP YH-135RP						
38		2-1/2" Rd. (64mm) X 6-1/2"					
		4-Flute T-51	P65N510	19.52	496.0	14.50	6.57
	VL-671						
39		1.81" Rd. (46mm) X 2"					
		5-Flute T-45	P66N450	21.0	533.0	12.8	5.80
	VL-671						
40							
		8-Spline T-51	Reverse Percussion P78X51B	26.4	670.0	17.6	7.98
	VL-672						
41		1.749" (45mm) X 3.027"					
		12-Spline T-38	P64X380	19.94	506.0	12.7	5.76
	F-17V						



Joy / Cannon / Sullivan

		Thread	Part Number	Length Inches	Length MM	Weight Pounds	Weight Kilograms
42		1-3/8" Rd. (35mm) X 3-13/16"					
		6-Spline R32 / 125-Rope	P30F120	15.23	387.0	5.6	2.54
		R38 / 150-Rope	P30F150	15.23	387.0	6.0	2.72
		T-38	P30F380	15.23	387.0	6.0	2.72
	VCR-150						
43		1-1/2" Rd. (38mm) X 3-13/16"					
		6-Spline R32 / 125-Rope	P26X120	17.5	445.0	8.0	3.62
		R38 / 150-Rope	P26X150	17.5	445.0	8.0	3.62
		T-38	P26X380	18.0	457.0	8.0	3.62
		Female T-38	P26X38F	15.375	388.0	17.5	7.93
	JH-2 / CH38						
44		1-5/16" (33mm) x 3.1"					
		Female 6-Spline R32 / 125-Rope	P19X12F	13.0	330.0	6.25	2.83
	CH32						


Joy / Cannon / Sullivan - Continued

		Thread	Part Number	Length Inches	Length MM	Weight Pounds	Weight Kilograms	
45	 1-3/4"Rd.(45mm) X 4-11/16"	8-Spline	R38 / 150-Rope	P48L150	17.75	451.0	8.9	4.04
			T-38	P48L380	17.75	451.0	8.9	4.04
			T-45	P48L450	15.25	387.0	9.8	4.45
46	 1-3/4"Rd. (45mm) X 4-11/16"	8-Spline	R38 / 150-Rope	P51N150	15.25	387.0	7.8	3.53
			T-38	P51N380	15.25	387.0	7.8	3.53
			T-45	P51N450	15.25	387.0	9.6	4.35
47	 2"Rd. (51mm)	8-Spline	T-38	P52N380	17.0	432.0	11.0	4.99
			T-45	P52N450	17.0	432.0	11.0	4.99
48	 2-3/4"Rd. (70mm) X 4-5/8"	10-Spline	T-51	P69T510	19.25	489.0	20.0	9.07
			C-17	P69T270	19.25	489.0	20.0	9.07
49	 1-5/16"Rd. (33mm) X 3-1/8"	8-Spline	R32 / 125-Rope	P21X120	15.63	397.0	7.0	3.18
			R38 / 150-Rope	P21X150	15.63	397.0	7.0	3.18
			T-38	P21X380	15.63	397.0	7.0	3.18
50	 1-7/32"(31mm) x 2-7/16"	6-Spline		Female				
			R25 / 100-Rope	P20X10F	11.3	287.0	5.5	2.50
			R32 / 125-Rope	P20X12F	11.3	287.0	5.5	2.50




Krupp / John Henry

		Thread	Part Number	Length Inches	Length MM	Weight Pounds	Weight Kilograms	
51	 1-3/4"Rd. (45mm)	6-Spline	T-38	P54X380	27.18	690.0	26.0	11.79
			T-45	P54X450	27.18	690.0	26.0	11.79
			T-51	P54X510	27.18	690.0	26.0	11.79
52	 1-3/4"Rd. (45mm)	6-Spline		Female				
			T-38	P54X380F	23.25	590.0	23.0	10.43
		T-45	P54X450F	23.25	590.0	22.0	9.98	









Mitsubishi

		Thread	Part Number	Length Inches	Length MM	Weight Pounds	Weight Kilograms	
53	 1-3/4"Rd. (45mm) X 3-13/16"	4-Spline						
			R32 / 125-Rope	P36J120	14.0	356.0	7.1	3.22
			R38 / 150-Rope	P36J150	14.0	356.0	7.6	3.45
			T-38	P36J380	15.0	381.0	7.6	3.45
			T-45	P36J450	15.0	381.0	8.5	3.86




Montabert

		Thread	Part Number	Length Inches	Length MM	Weight Pounds	Weight Kilograms
54	 1-1/2" Bearing Surface HC-40	8-Spline T-38	P41X380	17.25	438.0	8.0	3.62
55	 1-3/4"Rd (45mm) X 6-1/2" H100	6-Spline T-38 T-45	P42J380	21.1	536.0	11.4	5.17
			P42J450	21.1	536.0	11.4	5.17
56	 HC120R	8-Spline T-51	Reverse Percussion P78X51B	26.4	670.0	11.6	7.98



Tamrock

		Thread	Part Number	Length Inches	Length MM	Weight Pounds	Weight Kilograms
57	 1-1/4"Rd. (32mm) X 3-13/16" L400, L410, 500, 550, HL-432	4-Lug Bar R32 / 125-Rope	P87D120	15.0	381.0	4.6	2.08
58	 1-1/2"Rd. (38mm) X 3-13/16" HL438, HD438	4-Spline R38 / 150-Rope T-38	P88*150	15.0	381.0	6.6	2.99
			P88*380	15.0	381.0	6.6	2.99
59	 1-1/2"Rd (38mm)X 3-13/16" HL438TS, HL538TS	4-Spline R32 / 125-Rope R38 / 150-Rope T-38	P88X120	17.7	450.0	6.6	2.99
			P88X150	17.7	450.0	6.6	2.99
			P88X380	17.7	450.0	6.6	2.99
60	 2-9/32"Rd. (58mm) HL-500	8-Spline R38 / 150-Rope T-38	P97X150	17.75	451.0	9.8	4.44
			P97X380	17.75	451.0	9.8	4.44
61	 1.53"Rd (38mm) X 2-3/8" HL-600	8-Spline T-45	P79X450	23.62	600.0	14.5	6.57
62	 1-23/32"Rd. (44mm) X 3-13/16" HL-645	8-Spline R38 / 150-Rope T-38 T-45	P91X150	23.65	600.0	13.6	6.16
			P91X380	23.65	600.0	13.6	6.16
			P91X450	23.65	600.0	14.3	6.48
63	 1-3/4"Rd. (45mm) X 3-13/16" Also Available in Tuning Style L750, L600	4-Spline R32 / 125-Rope R38 / 150-Rope T-38 T-45	P36J120	14.0	356.0	7.1	3.22
			P36J150	14.0	356.0	7.6	3.44
			P36J380	15.0	381.0	7.6	3.44
			P36J450	15.0	381.0	8.5	3.85
64	 1-3/4"Rd (45mm) X 4-11/16" HL-844	8-Spline R38 / 150-Rope T-38 T-45	P48L150	17.75	451.0	8.9	4.03
			P48L380	17.75	451.0	8.9	4.03
			P48L450	15.25	387.0	9.8	4.44



Tamrock - Continued

		Thread	Part Number	Length Inches	Length MM	Weight Pounds	Weight Kilograms
65		8-Spline T-45 T-51	P92N450	19.75	502.0	13.9	6.30
			P92N510	19.75	502.0	14.07	6.66
66		8-Spline T-45 T-51	P92X450	26.4	671.0	18.7	8.48
			P92X510	26.4	671.0	19.6	8.89
67		8-Spline T-45 T-51	P95X450	26.3	668.0	24.0	10.88
			P95X510	26.3	668.0	24.0	10.88

Tamrock - Secoma

		Thread	Part Number	Length Inches	Length MM	Weight Pounds	Weight Kilograms
68		8-Spline R32 / 125-Rope R38 / 150-Rope T-38	P29X120	19.68	500.0	11.0	4.98
			P29X150	19.09	485.0	11.0	4.98
			P29X380	19.09	485.0	11.0	4.98
			Hydrastar 200/300 Series				
69		8-Spline R32 / 125-Rope	Female P82X12F	13.81	341.0	7.7	3.49
			Hydrastar 200				

Toyo

		Thread	Part Number	Length Inches	Length MM	Weight Pounds	Weight Kilograms
70		4-Spline R32 / 125-Rope R38 / 150-Rope T-38 T-45	P36J120	14.0	356.0	7.1	3.22
			P36J150	14.0	356.0	7.6	3.44
			P36J380	15.0	381.0	7.6	3.44
			P36J450	15.0	381.0	8.5	3.85
			TYPR 120, 220				
71		6-Spline T-38	P98H380	22.25	656.0	12.2	5.53
			TH-501				



SHANK SIZE	BIT SIZE		LENGTH		PART NUMBER	WEIGHT		
	Inches	MM	Inches	MM		Pounds	Kilograms	
7/8" X 4 1/4" (22mm X 108mm)	<i>Series 11</i>							
	1.34	34	2' 7"	800	X40834	6.5	2.9	
	1.30	33	5' 3"	1600	X41633	11.9	5.4	
	1.25	32	7' 10"	2400	X42432	17.6	7.9	
	1.22	31	10' 6"	3200	X43231	22.5	10.2	
	1.18	30	13' 1"	4000	X44030	28.0	12.7	
	1.14	29	15' 9"	4800	X44829	33.5	15.1	
	<i>Series 12</i>							
	1.57	40	2' 7"	800	X40840	6.5	2.9	
	1.54	39	5' 3"	1600	X41639	11.9	5.4	
	1.50	38	7' 10"	2400	X42438	17.6	7.9	
	1.46	37	10' 6"	3200	X43237	22.5	10.2	
	1.42	36	13' 1"	4000	X44036	28.0	12.7	
	1.38	35	15' 9"	4800	X44835	33.5	15.1	
	1.34	34	1' 4"	400	X40434	5.8	2.6	
	<i>Series 16</i>							
	1.38	35	2' 0"	600	X40635	5.3	2.4	
	1.34	34	4' 0"	1200	X41234	9.3	4.2	
	1.30	33	6' 0"	1800	X41833	13.2	5.9	
	1.25	32	8' 0"	2400	X42432	17.6	7.9	
<i>Series 17</i>								
1.61	41	2' 0"	600	X40641	5.3	2.4		
1.57	40	4' 0"	1200	X41240	9.3	4.2		
1.54	39	6' 0"	1800	X41839	13.2	5.9		
1.50	38	8' 0"	2400	X42438	17.6	7.9		
1.46	37	10' 0"	3048	X43037	22.0	9.9		
1" X 4 1/4" (25mm X 108mm)	1.61	41	2' 0"	600	X50641	6.8	3.0	
	1.57	40	4' 0"	1200	X51240	12.1	5.5	
	1.54	39	6' 0"	1800	X51839	17.4	7.8	
	1.50	38	8' 0"	2400	X52438	22.6	10.2	
	1.75	45	2' 0"	600	X50645	6.8	3.0	
	1.73	44	4' 0"	1200	X51244	12.1	5.5	
	1.69	43	6' 0"	1800	X51843	17.4	7.8	
	1.65	42	8' 0"	2400	X52442	22.6	10.2	

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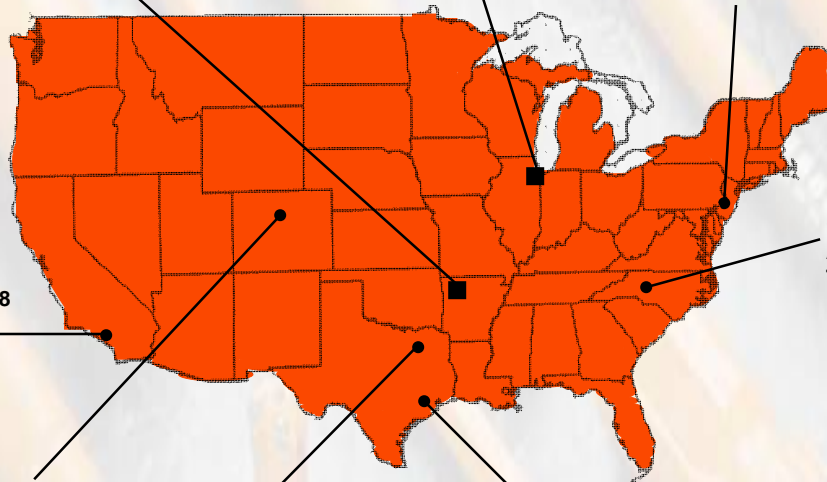
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