



MBI
GLOBAL



NEOLITHIK 

DRILL ROD THREAD OPTIONS

REV00 August 2026

Drill Rod Thread Options

THREAD TYPES

Manufactured from seamless tubing and subjected to a rigorous heat-treatment process, these rods undergo stringent quality control to ensure superior mechanical properties, metallurgical integrity, and reliable tool joint performance.

STANDARD THREAD



Standard thread form used in the diamond drilling industry since the 1960s. (Also referred to in the industry as "Q™" thread. Q™ is a trademark of Boart Longyear.)

M THREAD



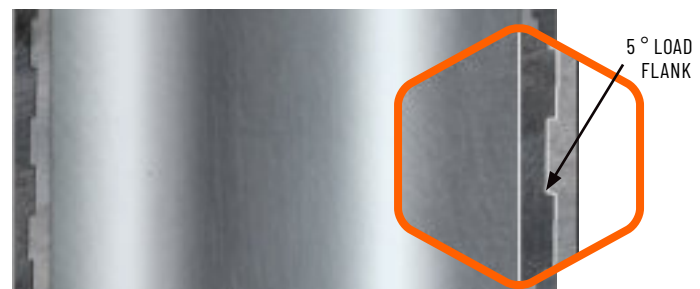
MBI's M Series drill rods are engineered to deliver exceptional performance in deep-hole drilling applications, while providing excellent leak resistance, durability, and ease of make-and-break operations. The M thread profile also offers added flexibility for wedging applications, making the M Series a reliable solution for demanding drilling environments.

R THREAD



MBI's R Flank drill rods are designed to provide reliable performance and exceptional durability in demanding drilling applications. This series of drill rods offers depth capacities, high torque transmission, and excellent pullback strength, making them a proven solution for deep-hole drilling projects where maximum reliability and productivity are required.

T THREAD



MBI's T Series provides a heavy-duty thread designed for strength, durability, and reliable performance in demanding drilling conditions.

TW THREAD



Thin-wall rod offers a lighter drill string, improves fluid circulation better core recovery and reliable performance in deep drilling applications.

WARNING:

MBI threads are precision machined and engineered to operate exclusively with compatible MBI threaded components. The use of rods, adapters, or threaded accessories from other manufacturers is not recommended, as differences in thread geometry, tolerances, and material properties may result in thread damage, premature failure, and unsafe operating conditions. Any failure associated with mixed-thread systems may void the product warranty.

Standard Thread

Standard Thread

	Unit	B		N		H	
		Metric	Imperial	Metric	Imperial	Metric	Imperial
Rod OD	mm (in)	55,6	2,19	69,9	2,75	88,9	3,50
Rod ID	mm (in)	46,0	1,81	60,2	2,37	77,7	3,06
Wall Thickness	mm (in)	4,8	0,19	4,8	0,19	5,6	0,22
Pin End Length	mm (in)	44,5	1,75	44,5	1,75	44,5	1,75
Thread Pitch	mm (in)	NA	0,33	NA	0,33	NA	0,33
Weight	kg/m (lb/ft)	6,0	4,00	7,8	5,20	11,5	7,70
Rod Content Weight (Water) per Unit Length	l/m (gal/ft)	1,7	0,13	2,9	0,23	4,8	0,38
Rod Displacement (Water) per Unit Length	l/m (gal/ft)	0,8	0,06	1,0	0,08	1,5	0,12
Rated Drilling Depth by Joint Strength	m (ft)	1 500	4 921	2 000	6 562	1 500	4 921
Rated Maximum Torque	N·m (ft·lb)	800	590	1 200	900	2 000	1 500
Minimum Makeup Torque	N·m (ft·lb)	400	300	600	450	1 000	750
Pullback Rating	kN (lb)	112	25 000	140	31 500	215	48 255
API Theoretical Burst Pressure at Box Shoulder	kPa (psi)	33 211	4 816	26 233	3 804	26 282	3 811
API Theoretical Burst Pressure at Mid-body	kPa (psi)	93 820	13 604	85 288	12 367	78 148	11 332
API Theoretical Collapse Pressure at Mid-body	kPa (psi)	97 966	14 205	79 431	11 517	73 231	10 619

Published ratings are based on testing, engineering calculations, and the application of appropriate safety factors. Values apply to new, unused products operated under recommended drilling practices and conditions. Actual performance may vary depending on drilling conditions, equipment configuration, and operating procedures. To maximize product life and safety, recommended operating limits should not be exceeded.

M Thread

M Thread									
	Unit	BM		NM		HM		HWT	
		Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial
Rod OD	mm (in)	55,6	2,19	69,9	2,75	88,9	3,50	114,3	4,50
Rod ID	mm (in)	46,0	1,81	60,2	2,37	77,7	3,06	101,6	4,00
Wall Thickness	mm (in)	4,8	0,19	4,8	0,19	5,6	0,22	6,4	0,25
Pin End Length	mm (in)	44,5	1,75	44,5	1,75	44,5	1,75	62,8	2,47
Thread Pitch	mm (in)	NA	0,33	NA	0,33	NA	0,33	NA	0,40
Weight	kg/m (lb/ft)	6,0	4,00	7,8	5,20	11,5	7,70	15,7	10,60
Rod Content Weight (Water) per Unit Length	l/m (gal/ft)	1,7	0,13	2,8	0,23	4,7	0,38	8,1	0,65
Rod Displacement (Water) per Unit Length	l/m (gal/ft)	0,8	0,06	1,0	0,08	1,5	0,12	2,2	0,17
Rated Drilling Depth by Joint Strength	m (ft)	2 700	8 858	2 400	7 874	1 800	5 905	1 500	4921
Rated Maximum Torque	N·m (ft·lb)	1 000	750	2 000	1 500	2 000	1 500	2 000	1 500
Minimum Makeup Torque	N·m (ft·lb)	400	300	600	450	1 000	750	1 000	750
Pullback Rating	kN (lb)	112	25 000	140	31 500	215	48 255	352	79 000
API Theoretical Burst Pressure at Box Shoulder	kPa (psi)	59 506	8 628	47 505	6 888	44 230	6 413	21 467	3 113
API Theoretical Burst Pressure at Mid-body	kPa (psi)	94 284	13 671	85 811	12 443	78 069	11 320	69 000	10 005
API Theoretical Collapse Pressure at Midbody	kPa (psi)	98 405	14 269	79 882	11 583	73 161	10 608	65 167	9 449

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R Thread

R Thread					
	Unit	NR		HR	
		Metric	Imperial	Metric	Imperial
Rod OD	mm (in)	69,9	2,75	88,9	3,50
Rod ID	mm (in)	60,2	2,37	77,7	3,06
Wall Thickness	mm (in)	4,8	0,19	5,6	0,22
Pin End Length	mm (in)	41,9	1,65	41,9	1,65
Thread Pitch	mm (in)	NA	0,33	NA	0,33
Weight	kg/m (lb/ft)	7,8	5,20	11,5	7,70
Rod Content Weight (Water) per Unit Length	l/m (gal/ft)	2,8	0,23	4,7	0,38
Rod Displacement (Water) per Unit Length	l/m (gal/ft)	1,0	0,08	1,5	0,12
Rated Drilling Depth by Joint Strength	m (ft)	3 000	9843	2 500	8202
Rated Maximum Torque	N·m (ft-lb)	2 400	1 750	3 500	2 580
Minimum Makeup Torque	N·m (ft-lb)	600	450	1 000	740
Pullback Rating	kN (lb)	330	74 180	510	114 600
API Theoretical Burst Pressure at Box Shoulder	kPa (psi)	48 265	6 998	44 800	6 496
API Theoretical Burst Pressure at Mid-body	kPa (psi)	85 811	12 443	78 069	11 320
API Theoretical Collapse Pressure at Mid-body	kPa (psi)	79 882	11 583	73 161	10 608

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T Thread

T Thread

	Unit	BT		NT		HT	
		Metric	Imperial	Metric	Imperial	Metric	Imperial
Rod OD	mm (in)	55,6	2,19	69,9	2,75	89,0	3,50
Rod ID	mm (in)	46,0	1,81	60,3	2,37	77,8	3,06
Wall Thickness	mm (in)	4,8	0,19	4,8	0,19	5,6	0,22
Pin End Length	mm (in)	50,8	2,00	55,5	2,19	55,5	2,19
Thread Pitch	mm (in)	NA	0,40	NA	0,50	NA	0,50
Weight	kg/m (lb/ft)	6,0	4,00	7,8	5,20	11,5	7,70
Rod Content Weight (Water) per Unit Length	l/m (gal/ft)	1,7	0,13	2,9	0,23	4,8	0,38
Rod Displacement (Water) per Unit Length	l/m (gal/ft)	0,8	0,06	1,0	0,08	1,5	0,12
Rated Drilling Depth by Joint Strength	m (ft)	2 100	6 890	2 400	7 874	1 800	5 906
Rated Maximum Torque	N·m (ft-lb)	1 000	750	2 000	1 500	2 000	1 500
Minimum Makeup Torque	N·m (ft-lb)	400	300	600	450	1 000	750
Pullback Rating	kN (lb)	125	28 000	151	34 000	238	53 500
API Theoretical Burst Pressure at Box Shoulder	kPa (psi)	49 623	7 195	48 265	6 998	44 800	6 496
API Theoretical Burst Pressure at Mid-body	kPa (psi)	94 284	13 671	85 288	12 367	78 148	11 332
API Theoretical Collapse Pressure at Mid-body	kPa (psi)	98 405	14 269	79 431	11 517	73 231	10 619

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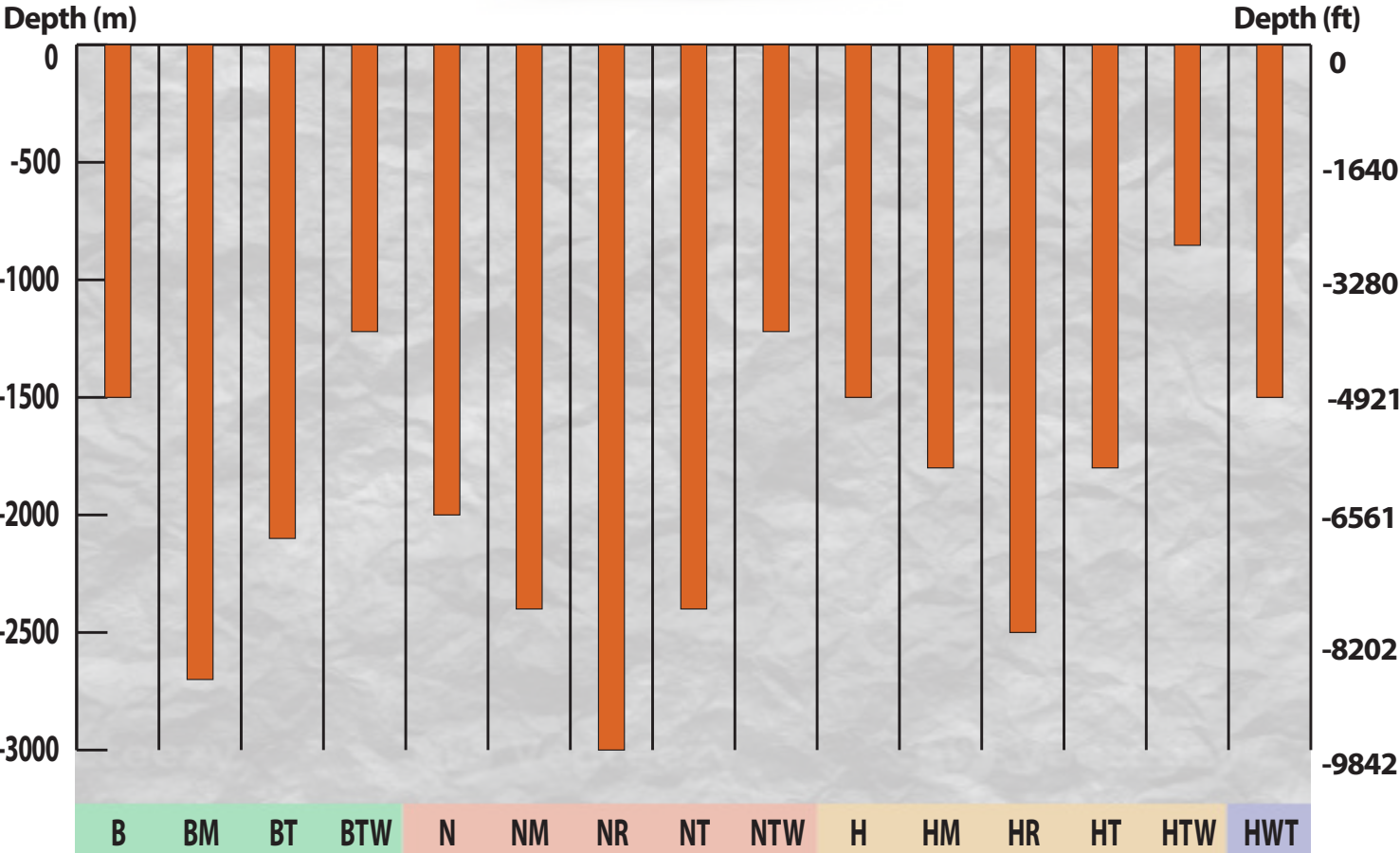
Thin Wall Thread

Thin Wall Thread							
	Unit	BTW		NTW		HTW	
		Metric	Imperial	Metric	Imperial	Metric	Imperial
Rod OD	mm (in)	56,6	2,23	73,0	2,88	91,0	3,58
Rod ID	mm (in)	48,5	1,91	64,3	2,53	81,5	3,21
Wall Thickness	mm (in)	4,1	0,16	4,4	0,17	4,7	0,19
Pin End Length	mm (in)	39,6	1,56	55,5	2,19	55,5	2,19
Thread Pitch	mm (in)	5,5	NA	NA	0,25	NA	0,50
Weight	kg/m (lb/ft)	5,3	3,45	9,2	5,00	10,2	6,70
Rod Content Weight (Water) per Unit Length	l/m (gal/ft)	1,8	0,15	3,2	0,26	5,2	0,42
Rod Displacement (Water) per Unit Length	l/m (gal/ft)	0,7	0,05	0,9	0,08	1,3	0,10
Rated Drilling Depth by Joint Strength	m (ft)	1 220	4 003	1 220	4 003	853	2 799
Rated Maximum Torque	N·m (ft-lb)	750	550	1 200	900	2 000	1 500
Minimum Makeup Torque	N·m (ft-lb)	320	240	600	450	1 000	750
Pullback Rating	kN (lb)	96	21 428	152	34 225	197	44 287
API Theoretical Burst Pressure at Box Shoulder	kPa (psi)	27 094	3 929	24 133	3 499	32 738	4 747
API Theoretical Burst Pressure at Mid-body	kPa (psi)	77 973	11 306	74 250	10 766	64 839	9 402
API Theoretical Collapse Pressure at Mid-body	kPa (psi)	82 718	11 994	69 811	10 123	61 454	8 911

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Drill Rod Thread Options

DRILL ROD DEPTH CAPACITY



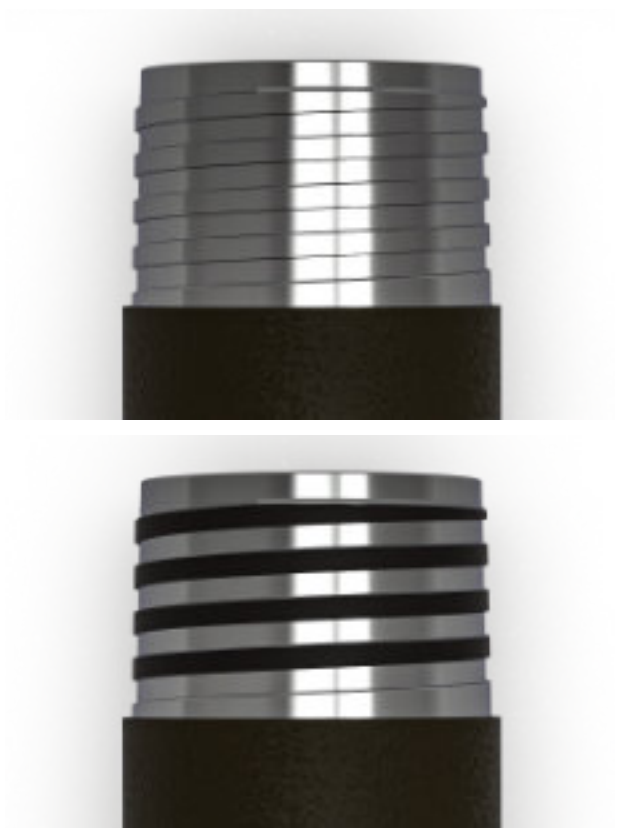
Standard Thread

Imperial

Item Description	Length	Item No.	Weight	
	ft		lb	kg
B Drill Rod 1 ft	1	RB3101	4	1,8
B Drill Rod 2 ft	2	RB3102	8	3,6
B Drill Rod 5 ft HT	5	RB3105	20	9,1
B Drill Rod 10 ft HT	10	RB3110	40	18,2
N Drill Rod 1 ft	1	RN3101	5,9	2,4
N Drill Rod 2 ft	2	RN3102	10,5	4,8
N Drill Rod 5 ft HT	5	RN3105	25	11,4
N Drill Rod 10 ft HT	10	RN3110	51	23,2
H Drill Rod 1 ft	1	RH3101	7,5	3,5
H Drill Rod 2 ft	2	RH3102	15,5	7
H Drill Rod 5 ft HT	5	RH3105	38,5	17,5
H Drill Rod 10 ft HT	10	RH3110	77	35
N Drill Rod 10 ft UPGRADED	10	RN4110	77	35
H Drill Rod 5 ft UPGRADED	5	RH4105	38,5	17,5
HWT Drill Rod 1 ft	1	RHWT7201	11,5	5,2
HWT Drill Rod 2 ft	2	RHWT7202	23	10,5
HWT Drill Rod 5 ft HT	5	RHWT7205	58	26,4
HWT Drill Rod 10 ft HT	10	RHWT7210	116,5	53
HWT Drill Rod 5 ft UPGRADED	5	RHWT8205	58	26,4
HWT Drill Rod 10 ft UPGRADED	10	RHWT8210	116,5	53

Metric

Item Description	Length	Item No.	Weight	
	m		lb	kg
BM Drill Rod 1,5 m HT	1,5	RBM3805	20	9,1
BM Drill Rod 3 m HT	3	RBM3810	40	18,2
BM Drill Rod 1,5 m UPGRADED	1,5	RBM4805	20	9,1
BM Drill Rod 3 m UPGRADED	3	RBM4810	40	18,2
NM Drill Rod 1,5 m HT	1,5	RNM3805	25	11,4
NM Drill Rod 3 m HT	3	RNM3810	51	23,2
NM Drill Rod 1,5 m UPGRADED	1,5	RNM4805	25	11,4
NM Drill Rod 3 m UPGRADED	3	RNM4810	51	23,2
HM Drill Rod 1,5 m HT	1,5	RHM3805	37,8	17,2
HM Drill Rod 3 m HT	3	RHM3810	76	34,5



UPGRADED rods incorporate a secondary heat treatment, delivering improved performance and extended service life.

M Thread

Imperial

Item Description	Length	Item No.	Weight	
	ft		lb	kg
BM Drill Rod 1 ft	1	RBM3301	4	1,8
BM Drill Rod 2 ft	2	RBM3302	8	3,6
BM Drill Rod 5 ft	5	RBM3305	20	9,1
BM Drill Rod 10 ft	10	RBM3310	40	18,2
NM Drill Rod 1 ft	1	RNM3301	5,9	2,4
NM Drill Rod 2 ft	2	RNM3302	10,5	4,8
NM Drill Rod 5 ft	5	RNM3305	25	11,4
NM Drill Rod 10 ft	10	RNM3310	51	23,2
HM Drill Rod 1 ft	1	RHM3301	11,5	5,2
HM Drill Rod 2 ft	2	RHM3302	15,5	7
HM Drill Rod 5 ft	5	RHM3305	38,5	17,5
HM Drill Rod 10 ft	10	RHM3310	77	35



Metric

Item Description	Length	Item No.	Weight	
	m		lb	kg
BM Drill Rod 1,5 m HT	1,5	RBM3805	20	9,1
BM Drill Rod 3 m HT	3	RBM3810	40	18,2
BM Drill Rod 1,5 m UPGRADED	1,5	RBM4805	20	9,1
BM Drill Rod 3 m UPGRADED	3	RBM4810	40	18,2
NM Drill Rod 1,5 m HT	3	RNM3805	25	11,4
NM Drill Rod 3 m HT	1,5	RNM3810	51	23,2
NM Drill Rod 1,5 m UPGRADED	3	RNM4805	25	11,4
NM Drill Rod 3 m UPGRADED	3	RNM4810	51	23,2
HM Drill Rod 1,5 m HT	1,5	RHM3805	37,8	17,2
HM Drill Rod 3 m HT	3	RHM3810	76	34,5
HM Drill Rod 3 m UPGRADED	3	RHM4810	76	34,5



UPGRADED rods incorporate a secondary heat treatment, delivering improved performance and extended service life.

R Thread

Imperial

Item Description	Length	Item No.	Weight	
	ft		lb	kg
NR Drill Rod 5 ft UPGRADED	5	RNR4105	25	11,4
NR Drill Rod 10 ft UPGRADED	10	RNR4110	51	23,2
HR Drill Rod 5 ft UPGRADED	5	RHR4105	38,5	17,5
HR Drill Rod 10 ft UPGRADED	10	RHR4110	77	35

Metric

Item Description	Length	Item No.	Weight	
	m		lb	kg
NR Drill Rod 1,5 m UPGRADED	1,5	RNR4605	25	11,4
NR Drill Rod 3 m UPGRADED	3	RNR4610	51	23,2
HR Drill Rod 1,5 m UPGRADED	1,5	RHR4605	37,8	17,2
HR Drill Rod 3 m UPGRADED	3	RHR4610	76	34,5



UPGRADED rods incorporate a secondary heat treatment, delivering improved performance and extended service life.

T Thread

Imperial

Item Description	Length	Item No.	Weight	
	ft		lb	kg
BT Drill Rod 2 ft	2	RBT5402	8	3,6
BT Drill Rod 10 ft	10	RBT5410	40	18,2
NT Drill Rod 1 ft	1	RNT5401	4	1,8
NT Drill Rod 2 ft	2	RNT5402	10,5	4,8
NT Drill Rod 5 ft HT	5	RNT5405	25	11,4
NT Drill Rod 10 ft HT	10	RNT5410	51	23,2
HT Drill Rod 2 ft	2	RHT5402	15,5	7
HT Drill Rod 5 ft HT	5	RHT5405	38,5	17,5
HT Drill Rod 10 ft HT	10	RHT5410	77	35

Metric

Item Description	Length	Item No.	Weight	
	m		lb	kg
BT Drill Rod 1,5 m HT	1,5	RBT5905	20	9,1
BT Drill Rod 3 m HT	3	RBT5910	40	18,2
NT Drill Rod 1.5 m HT	1,5	RNT5905	25	11,4
NT Drill Rod 3 m HT	3	RNT5910	51	23,2
HT Drill Rod 1,5 m HT	1,5	RHT5905	37,8	17,2
HT Drill Rod 3 m HT	3	RHT5910	76	34,5



Thin Wall Thread

Imperial

Item Description	Length	Item No.	Weight	
	ft		lb	kg
BTW Drill Rod 1 ft	1	RBTW6101	3,5	1,6
BTW Drill Rod 2 ft	2	RBTW6102	7,5	3,4
BTW Drill Rod 5 ft HT	5	RBTW6105	17,5	8
BTW Drill Rod 10 ft HT	10	RBTW6110	34,5	15,7
NTW Rod 1 ft ft	1	RNTW6101	5	2,2
NTW Drill Rod 2 ft	2	RNTW6102	10	4,5
NTW Drill Rod 5 ft HT	5	RNTW6105	25	11,4
NTW Drill Rod 10 ft HT	10	RNTW6110	50	22,7
HTW Drill Rod 2 ft	2	RHTW6102	13,56	6,16
HTW Drill Rod 5 ft	5	RHTW6105	33,9	15,4
HTW Drill Rod 10 ft	10	RHTW6110	67,8	30,8

Metric

Item Description	Length	Item No.	Weight	
	m		lb	kg
BTW Drill Rod 1,5 m HT	1,5	RBTW6605	17	7,95
BTW Drill Rod 3 m HT	3	RBTW6610	34	15,5
NTW Drill Rod 1,5 m HT	1,5	RNTW6605	24,5	11,2
NTW Drill Rod 3 m HT	3	RNTW6610	49,05	22,3
HTW Drill Rod 1.5 m	1,5	RHTW6605	33,3	15,2
HTW Drill Rod 3 m	3	RHTW6610	66,7	30,3

