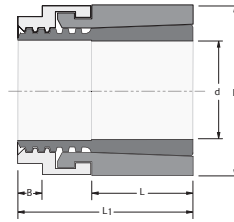
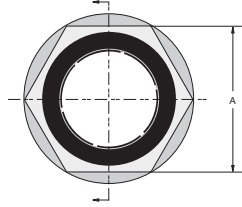


Power Transmission - Trantorque

Trantorque Mini Inch and Metric



TOLERANCE (T_L)

T_L for shaft and bore is $\pm .0015"$
(.04mm) for all sizes

Trantorque Mini – Inch

Part Number				d (inch)	D (inch)	L (inch)	L ₁ (inch)	Wrench Size		M _a †	Shipping Weight (lb)
Steel	Electroless Nickel Plated Steel	Thin Dense Chrome Coated Steel	Stainless Steel					A (inch)	B (inch)		
6410013	6202102EN	6410013DC	6990102	1/8	5/8	3/8	3/4	1/2	1/8	125	0.1
6410019	6202103EN	6410019DC	6990103	3/16	5/8	3/8	3/4	1/2	1/8	125	0.1
6410025	6202105EN	6410025DC	6990105	1/4	5/8	3/8	3/4	1/2	1/8	125	0.1
6410031	6202107EN	6410031DC	6990107	5/16	3/4	7/16	7/8	5/8	1/8	250	0.1
6410038	6202109EN	6410038DC	6990109	3/8	3/4	7/16	7/8	5/8	1/8	250	0.1
6410044	6202110EN	6410044DC	6990110	7/16	7/8	1/2	1	3/4	3/16	390	0.1
6410050	6202112EN	6410050DC	6990112	1/2	7/8	1/2	1	3/4	3/16	390	0.1
6410056	6202114EN	6410056DC	6990114	9/16	1	5/8	1 1/8	7/8	3/16	585	0.1
6410063	6202115EN	6410063DC	6990115	5/8	1	5/8	1 1/8	7/8	3/16	585	0.1

Trantorque Mini – Metric

Part Number				d (mm)	D (mm)	L (mm)	L ₁ (mm)	Wrench Size		M _a †	Shipping Weight (kg)
Steel	Electroless Nickel Plated Steel	Thin Dense Chrome Coated Steel	Stainless Steel					A (mm)	B (mm)		
TTQM0316	TTQM0316EN	TTQM0316DC	TTQM0316SS	3	16	10	19	13	3	14	0.02
TTQM0416	TTQM0416EN	TTQM0416DC	TTQM0416SS	4	16	10	19	13	3	14	0.02
TTQM0516	TTQM0516EN	TTQM0516DC	TTQM0516SS	5	16	10	19	13	3	14	0.02
TTQM0616	TTQM0616EN	TTQM0616DC	TTQM0616SS	6	16	10	19	13	3	14	0.02
TTQM0720	TTQM0720EN	TTQM0720DC	TTQM0720SS	7	20	11	22	16	3	28	0.03
TTQM0820	TTQM0820EN	TTQM0820DC	TTQM0820SS	8	20	11	22	16	3	28	0.03
TTQM0920	TTQM0920EN	TTQM0920DC	TTQM0920SS	9	20	11	22	16	3	28	0.03
TTQM1023	TTQM1023EN	TTQM1023DC	TTQM1023SS	10	23	13	26	19	5	44	0.05
TTQM1123	TTQM1123EN	TTQM1123DC	TTQM1123SS	11	23	13	26	19	5	44	0.05
TTQM1223	TTQM1223EN	TTQM1223DC	TTQM1223SS	12	23	13	26	19	5	44	0.05
TTQM1426	TTQM1426EN	TTQM1426DC	TTQM1426SS	14	26	16	29	22	5	66	0.06
TTQM1526	TTQM1526EN	TTQM1526DC	TTQM1526SS	15	26	16	29	22	5	66	0.06
TTQM1626	TTQM1626EN	TTQM1626DC	TTQM1626SS	16	26	16	29	22	5	66	0.06

Performance Data Tables

d (inch)	M _t †	Th	Ph*
	Maximum Transmitted		Hub Pressure (psi)
	Torque (in lb)	Thrust (lbs)	
1/8	100	1608	18193
3/16	151	1608	18193
1/4	201	1608	18193
5/16	404	2584	20890
3/8	485	2584	20890
7/16	737	3368	20421
1/2	842	3368	20421
9/16	1223	4349	18459
5/8	1359	4349	18459

d (mm)	M _t †	Th	Ph*
	Maximum Transmitted		Hub Pressure (N/mm ²)
	Torque (Nm)	Thrust (kN)	
3	11	7	123
4	14	7	123
5	18	7	123
6	21	7	123
7	40	11	136
8	46	11	136
9	51	11	136
10	75	15	136
11	82	15	136
12	90	15	136
14	135	19	124
15	145	19	124
16	155	19	124

MULTIPLIERS

Steel	1.0
Electroless Nickel Plated Steel	0.8
Thin Dense Chrome Coated Steel	1.0
Stainless Steel	0.35

(continued on page 17)

Please note not all catalog items shown are stock. Some products are make-to-order (MTO) based on annual demand. Please verify with your customer service representative for current availability of the item desired.

Trantorque Mini Performance Data (continued from page 16)

The data in the Performance Data Table is for a steel unit. To obtain data for other materials, use the multiplier provided.

For example, you require a 1/4" (d) Electroless Nickel Plated Trantorque Mini.

Find 1/4" (d) in Performance Data Table and use the multiplier of 0.8 for Electroless Nickel Plated Steel.

$M_t : 201 \times 0.8 = 161$

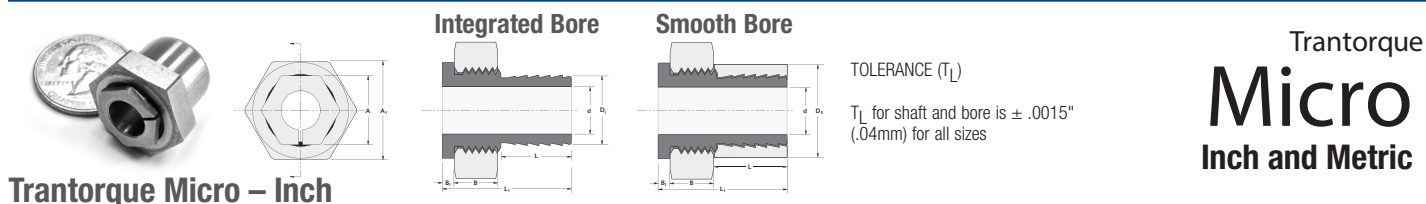
$T_h : 1608 \times 0.8 = 1286$

* $P_h : 18193 \times 0.8 = 14554$

*** IMPORTANT:**

After hub pressure (P_h) is determined, record D, L and P_h and refer to page 9 and 10 to calculate the minimum hub diameter.

† When installing Trantorque Mini with an open-ended wrench, a reduction in installation torque by 50% is recommended. This will result in a Transmitted Torque (M_t) reduced by 50%.



Size (in)	d (in)	Integrated Bore Di (in)	Smooth Bore Ds (in)	L (in)	L1 (in)	Wrench Size		B (in)	B1 (in)	Ma Install Torque (in-lb)	Shipping Weight (lb)	Maximum Transmitted		Smooth Bore Hub Pressure (psi)	A	A1
						A (in)	A1 (in)					Torque (in-lb)	Thrust (lb)			
1/8	0.125	0.369	0.563	0.38	0.67	7/16	11/16	0.06	0.22	125	0.050	46	738	9275	0.4375	0.6875
3/16	0.188	0.369	0.613	0.38	0.67	7/16	11/16	0.06	0.22	150	0.052	83	885	10221	0.4375	0.6875
1/4	0.250	0.369	0.613	0.38	0.67	7/16	11/16	0.06	0.22	150	0.048	111	885	10221	0.4375	0.6875
5/16	0.313	0.431	0.625	0.44	0.76	1/2	3/4	0.06	0.25	150	0.057	120	771	7478	0.5	0.75
3/8	0.375	0.550	0.750	0.44	0.83	5/8	15/16	0.06	0.31	150	0.099	116	620	5008	0.625	0.9375
7/16	0.438	0.550	0.750	0.50	0.92	5/8	15/16	0.09	0.31	150	0.096	136	620	4387	0.625	0.9375
1/2	0.500	0.666	0.875	0.63	1.11	3/4	1 1/8	0.09	0.38	225	0.167	194	777	3767	0.75	1.125
9/16	0.563	0.666	0.875	0.75	1.25	3/4	1 1/8	0.11	0.38	225	0.164	218	777	3139	0.75	1.125
5/8	0.625	0.791	1.000	0.94	1.52	7/8	1 5/16	0.13	0.44	300	0.276	280	895	2533	0.875	1.3125

Trantorque Micro – Metric

16Size (mm)	d (mm)	Integrated Bore Di (mm)	Smooth Bore Ds (mm)	L (mm)	L1 (mm)	Wrench Size		B (mm)	B1 (mm)	Ma Install Torque (Nm)	Shipping Weight (kg)	Maximum Transmitted		Smooth Bore Hub Pressure (N/mm ²)	A	A1
						A (mm)	A1 (mm)					Torque (Nm)	Thrust (kN)			
3	3	9.37	14.29	9.5	17.0	12.0	17.0	1.5	5.6	14	0.023	5	3.3	64	0.4375	0.6875
4	4	9.37	14.29	9.5	17.0	12.0	17.0	1.5	5.6	17	0.022	8	3.9	77	0.4375	0.6875
5	5	9.37	15.56	9.5	17.0	12.0	17.0	1.5	5.6	17	0.023	10	3.9	70	0.4375	0.6875
6	6	9.37	15.56	9.5	17.0	12.0	17.0	1.5	5.6	17	0.022	12	3.9	70	0.4375	0.6875
7	7	10.95	15.56	9.5	17.8	13.0	19.0	1.5	6.4	17	0.025	12	3.4	61	0.5	0.75
8	8	10.95	15.88	11.1	19.4	13.0	19.0	1.5	6.4	17	0.026	14	3.4	52	0.5	0.75
9	9	13.97	19.05	11.1	21.0	16.0	23.0	1.5	7.9	17	0.046	12	2.8	35	0.625	0.9375
10	10	13.97	19.05	12.7	23.4	16.0	23.0	2.4	7.9	17	0.047	14	2.8	30	0.625	0.9375
11	11	13.97	19.05	12.7	23.4	16.0	23.0	2.4	7.9	17	0.044	15	2.8	30	0.625	0.9375
12	12	13.97	19.05	12.7	23.4	16.0	23.0	2.4	7.9	17	0.041	17	3.6	40	0.625	0.9375
13	13	16.92	22.23	15.9	28.2	20.0	28.0	2.4	9.5	25	0.074	22	3.5	26	0.75	1.125
14	14	16.92	22.23	19.1	31.8	20.0	28.0	2.8	9.5	25	0.076	24	3.5	22	0.75	1.125
15	15	16.92	22.23	19.1	31.8	20.0	28.0	2.8	9.5	25	0.071	26	3.5	22	0.75	1.125
16	16	20.09	25.40	23.8	38.5	23.0	33.0	3.2	11.1	34	0.124	32	4.0	17	0.875	1.3125

* All Trantorque Micro orders are subject to a 25 piece minimum.

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