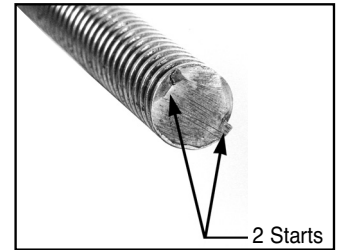
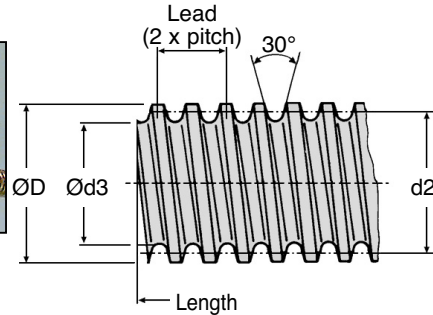
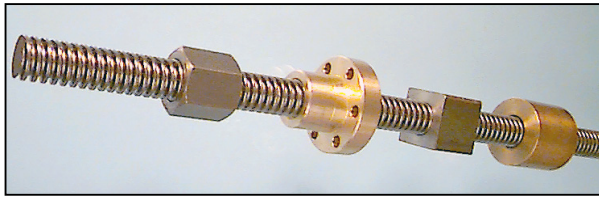


LINEAR MOTION

LFM

Trapezoidal Rolled Leadscrews

2 Start : DIN 103-7e, ISO 2902 : Tr10x4 - Tr40x14



Discounts per metre: 6+ -10% 20+ -14% 40+ -18% 60+ -22% 100+ -25%

Part Number Steel RH	ØD Nom.	ØD Min.	Lead	d2 Min.	d2 Max.	Helix Angle	Ød3 Screw Min.	Ød3 Screw Max.	Pitch Accuracy µm †	Weight Kg/m	Price Each per metre Steel RH
LFM104	10	9.82	4	8.72	8.93	8°12'	6.89	7.50	300	0.48	£12.45
LFM126	12	11.76	6	10.16	10.42	10°30'	7.69	8.50	300	0.65	£18.94
LFM146	14	13.76	6	12.16	12.42	8°49'	9.69	10.50	300	0.93	£27.03
LFM168	16	15.70	8	13.61	13.91	10°29'	10.47	11.50	100	1.15	£30.34
LFM188	18	17.70	8	15.61	15.91	9°20'	12.47	13.50	100	1.52	£36.28
LFM208	20	19.70	8	17.61	17.91	8° 9'	14.47	15.50	100	1.91	£41.73
LFM2210	22	21.67	10	19.08	19.39	9°23'	15.29	16.50	200	2.30	£51.54
LFM2410	24	23.67	10	21.06	21.39	8°31'	17.27	18.50	200	2.80	£55.71
LFM2810	28	27.67	10	25.06	25.39	7°12'	21.27	22.50	200	3.90	£75.36
LFM3012	30	29.63	12	26.51	26.88	8° 8'	21.56	23.00	200	4.33	£75.63
LFM3212	32	31.63	12	28.51	28.88	7°34'	23.56	25.00	200	5.00	£86.82
LFM3612	36	35.63	12	32.51	32.88	6°39'	27.56	29.00	200	6.55	£108.68
LFM4014	40	39.58	14	35.98	36.38	7° 1'	30.38	32.00	200	8.00	£195.79

Material

Medium Carbon Steel C35E (080 A35)

† over 300mm length

Performance

Guide - Torque to move nut: $Torque (Nm) = \frac{Load (N) \times Lead (mm)}{2000\pi \times efficiency}$

(Frictional & acceleration torque as well as frictional resistance of bearings of sub assemblies need to be taken into account).

Tensile Strength (R_m): <Ø16 (ØD): 520-700N/mm² >Ø16 (ØD): 600-950N/mm²

Yield Stress (R_e): <Ø16 (ØD): 320-380N/mm² >Ø16 (ØD): 430N/mm²

Other Info.

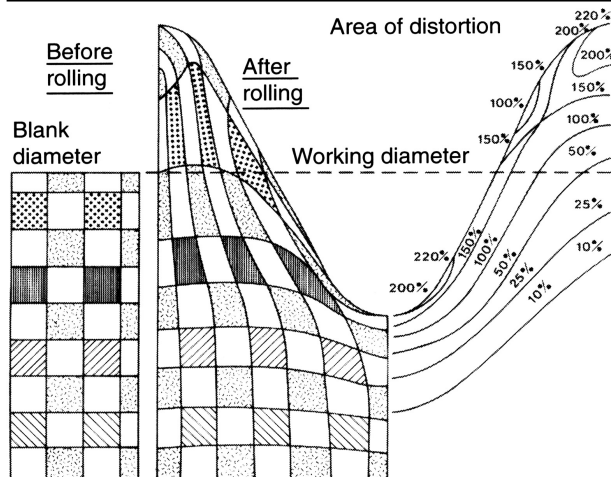
Lengths: 1000mm = Price Each, 2000mm = P.O.A, 3000mm = Price Each x 3

For power transmission and continuous use, always use bronze nuts, never steel. Nuts and screws should always be lubricated with grease or oil.

Steel nuts should be used with steel screws for hand motion only. Thread rolled Trapezoidals in steel toughened (still machinable).

To be used with our nuts **LRM, KSM & BFM**. Specials available on request. 2 Start Leadscrew for use with 2 Start nuts only.

eg. **Lead of LFM104** = 4mm (2 x 2mm pitch)



Improvement Of The Mechanical Properties: Gain reaching 30% on hardness and 12% on breaking strength, in fact the fibres of the material are formed but not cut as in the case of cutting.

The Process

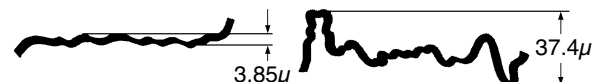
Cold-formed threading, more commonly called rolling, implies the cold forming of a metal bar by pressing during rotation with tools called dies, in order to obtain a thread or a knurling. Thanks to this performing process, we manufacture amongst others metric, trapezoidal threads and ball screws, using different materials such as current and special steels, stainless steel, brass and numerous alloys.

Economic Efficiency

The process of rolling allows a high production and an important saving in material as the diameter used is below nominal and unlike cutting it has no chips, thus no material loss.

Comparisons

The roller finishing on the surface considerably increases the life time of the screw or of the nut, improves fatigue strength and eliminates the starting points of the fracture.



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Product information updated 1st April 2011 and subject to change. Please contact Sales for the latest prices and availability.