

## Metric ISO-Trapezoidal-Threaded Spindles DIN 103, Single-Thread, Right Hand and Left Hand

Material: C15

Tolerance zone 7e, version rolled.

Nuts with trapezoidal thread made from plastic, steel, stainless steel, grey cast iron and red brass page 451.

Ordering Details: e.g.: Product No. 640 010 00, Spindle Tr.10x3 Right Hand, 1000 mm



Product No. Single Thread Right Hand	Product No. Single Thread Left Hand	Trapez. Thread Outside Ø x Lead mm	Length mm	Flanks Ø min. mm	Flanks Ø max. mm	Core Ø min. mm	Weight kg
640 010 00	640 410 00	Tr. 10 x 3*	1000	8,191	8,415	5,84	0,6
640 110 00	640 510 00		1500				0,9
640 210 00	640 610 00		2000				1,2
640 310 00	640 810 00		3000				1,8
640 012 00	640 412 00	Tr. 12 x 3	1000	10,191	10,415	7,84	0,8
640 112 00	640 512 00		1500				1,2
640 212 00	640 612 00		2000				1,6
640 312 00	640 812 00		3000				2,4
640 014 00	640 414 00	Tr. 14 x 4*	1000	11,640	12,415	8,80	0,9
640 114 00	640 514 00		1500				1,35
640 214 00	640 614 00		2000				1,8
640 314 00	640 814 00		3000				2,7
640 016 00	640 416 00	Tr. 16 x 4	1000	13,640	13,905	10,80	1,4
640 116 00	640 516 00		1500				2,1
640 216 00	640 616 00		2000				2,8
640 316 00	640 816 00		3000				4,2
640 018 00	640 418 00	Tr. 18 x 4	1000	15,640	15,905	12,80	1,6
640 118 00	640 518 00		1500				2,4
640 218 00	640 618 00		2000				3,2
640 318 00	640 818 00		3000				4,8
640 020 00	640 420 00	Tr. 20 x 4	1000	17,640	17,905	14,80	2,1
640 120 00	640 520 00		1500				3,15
640 220 00	640 620 00		2000				4,2
640 320 00	640 820 00		3000				6,3
640 024 00	640 424 00	Tr. 24 x 5	1000	21,094	21,394	17,50	2,9
640 124 00	640 524 00		1500				4,35
640 224 00	640 624 00		2000				5,8
640 324 00	640 824 00		3000				8,7
640 028 00	640 428 00	Tr. 28 x 5	1000	25,049	25,390	21,50	3,9
640 128 00	640 528 00		1500				5,85
640 228 00	640 628 00		2000				7,8
640 328 00	640 828 00		3000				11,7
640 030 00	640 430 00	Tr. 30 x 6	1000	26,547	26,882	21,90	4,7
640 130 00	640 530 00		1500				7,05
640 230 00	640 630 00		2000				9,4
640 330 00	640 830 00		3000				14,1
640 032 00	640 432 00	Tr. 32 x 6	1000	28,547	28,882	23,90	5,1
640 132 00	640 532 00		1500				7,65
640 232 00	640 632 00		2000				10,2
640 332 00	640 832 00		3000				15,3
640 036 00	640 436 00	Tr. 36 x 6	1000	32,547	32,882	27,90	6,7
640 136 00	640 536 00		1500				10,05
640 236 00	640 636 00		2000				13,4
640 336 00	640 836 00		3000				20,1
640 040 00	640 440 00	Tr. 40 x 7	1000	36,020	36,375	30,50	9,4
640 140 00	640 540 00		1500				14,1
640 240 00	640 640 00		2000				18,8
640 340 00	640 840 00		3000				28,2
640 044 00	640 444 00	Tr. 44 x 7	1000	40,020	40,375	34,50	9,7
640 144 00	640 544 00		1500				14,55
640 244 00	640 644 00		2000				19,40
640 344 00	640 844 00		3000				29,1
640 048 00	640 448 00	Tr. 48 x 8	1000	43,468	43,868	37,80	11,7
640 148 00	640 548 00		1500				17,55
640 248 00	640 648 00		2000				23,4
640 348 00	640 848 00		3000				35,1
640 050 00	640 450 00	Tr. 50 x 8	1000	45,468	45,868	39,30	12,6
640 150 00	640 550 00		1500				18,9
640 250 00	640 650 00		2000				25,2
640 350 00	640 850 00		3000				37,8
640 052 00	640 452 00	Tr. 52 x 8	1000	47,468	47,868	41,17	14,4
640 152 00	640 552 00		1500				21,6
640 252 00	640 652 00		2000				28,8
640 352 00	640 852 00		3000				43,2
640 060 00	640 460 00	Tr. 60 x 9	1000	54,935	55,3000	48,15	18,9
640 160 00	640 560 00		1500				28,35
640 260 00	640 660 00		2000				37,8
640 360 00	640 860 00		3000				56,7
640 070 00	640 470 00	Tr. 70 x 10	1000	64,425	64,850	57,00	25,7
640 170 00	640 570 00		1500				38,55
640 270 00	640 670 00		2000				51,4
640 370 00	640 870 00		3000				77,1

### Rolled Spindles

High grade raw material C15, heat treated by the manufacturer and without exception delivered by German smelting works, and a complex machine and tool technology lead to our excellent quality in the spindle production.

The strong densification causes frictional heat which has to be dissipated using a re-cooling or filtering system. If the compressed oil is changed continuously, press-polished flanks without any leaf-shaped marks can be achieved.

To master the rolling process, in order to achieve exact leads and profiles up to  $\pm 0.03$  mm/300 mm (standard  $\pm 0.15/300$ , material 1.4305  $\pm 0.3/300$ ) and high surface quality, has only become possible by means of complex measuring and controlling systems in combination with a new generation of machines with swiveling toolholders.

#### Straightness:

Trapezoid 10 - 24 mm max. 0.8 mm/m,

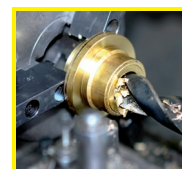
Trapezoid 28 - 70 mm max. 1.2 mm/m

#### Straightness on request:

Up to size Tr. 16: 0.10 mm/m.

From size Tr. 20: 0.05 mm/m.

\* Lead angle is not in accordance with DIN 103.



**Reworking within  
24h-service possible.  
Custom made parts  
on request.**