



## STANDARD THREADED BARS/R80

### STEEL "R80" TRAPEZOIDAL THREADED BARS

(36SMnPb14 W.NR: 1.0765) TR10/100 RIGHT AND LEFT (7e class 100 machined out)

> **art.BFA/R80** ..... (Dx)(Sx) - Code "MI ..... (R)(L)" Qualified for mechanical transmissions with medium and heavy loads.

> **IF series** = Entirely threaded standard lengths - **FC series** = Standard length with cylindrical shank "cd." of the same nominal  $\varnothing$  of the TR bar.

art.BFA/R80	IF = ENTIRELY THREADED				FC = THREAD + "cd." CYLINDRICAL SHANK WITH THE SAME DIAMETER OF THE BAR WITH TOLERANCE h9									
	1000	1500	2000	3000	1200+ cd.300	2500+ cd.500	2750+ cd.250	2800+ cd.200	2900+ cd.100	5600+ cd.400	5650+ cd.350	5750+ cd.250	5800+ cd.200	
* TR 10x2x CODE	1000 MI10210R	1500 MI10215R	2000 MI10220R	-	1200+cd.300 MI10212+03R	2500+cd.500 MI10225+05R	-	-	2900+cd.100 MI10229+01R	-	-	-	-	
TR 10x3x CODE	1000 MI10310R	1500 MI10315R	2000 MI10320R	-	1200+cd.300 MI10312+03R	2500+cd.500 MI10325+05R	-	-	2900+cd.100 MI10329+01R	-	-	-	-	
TR 12x3x CODE	1000 MI12310R	1500 MI12315R	2000 MI12320R	-	1200+cd.300 MI12312+03R	2500+cd.500 MI12325+05R	-	-	2900+cd.100 MI12329+01R	-	-	-	-	
* TR 14x3x CODE	1000 MI14310R	1500 MI14315R	2000 MI14320R	-	1200+cd.300 MI14312+03R	2500+cd.500 MI14325+05R	-	-	2900+cd.100 MI14329+01R	-	-	-	-	
TR 14x4x CODE	1000 MI14410R	1500 MI14415R	2000 MI14420R	-	1200+cd.300 MI14412+03R	2500+cd.500 MI14425+05R	-	-	2900+cd.100 MI14429+01R	-	-	-	-	
TR 16x4x CODE	1000 MI16410R	1500 MI16415R	2000 MI16420R	-	1200+cd.300 MI16412+03R	2500+cd.500 MI16425+05R	-	2800+cd.200 MI16428+02R	2900+cd.100 MI16429+01R	-	-	-	-	
TR 18x4x CODE	1000 MI18410R	1500 MI18415R	2000 MI18420R	-	1200+cd.300 MI18412+03R	2500+cd.500 MI18425+05R	-	2800+cd.200 MI18428+02R	2900+cd.100 MI18429+01R	-	-	-	-	
TR 20x4x CODE	1000 MI20410R	1500 MI20415R	2000 MI20420R	3000 MI20430R	1200+cd.300 MI20412+03R	2500+cd.500 MI20425+05R	-	2800+cd.200 MI20428+02R	-	-	-	-	-	
* TR 22x5x CODE	1000 MI22510R	1500 MI22515R	2000 MI22520R	-	1200+cd.300 MI22512+03R	2500+cd.500 MI22525+05R	-	2800+cd.200 MI22528+02R	2900+cd.100 MI22529+01R	-	-	-	-	
* TR 24x5x CODE	1000 MI24510R	1500 MI24515R	2000 MI24520R	-	1200+cd.300 MI24512+03R	2500+cd.500 MI24525+05R	2750+cd.250 MI245275+025R	-	2900+cd.100 MI24529+01R	-	-	-	-	
TR 25x5x CODE	1000 MI25510R	1500 MI25515R	2000 MI25520R	3000 MI25530R	1200+cd.300 MI25512+03R	2500+cd.500 MI25525+05R	2750+cd.250 MI255275+025R	-	-	-	-	5750+cd.250 MI255575+025R	-	
* TR 26x5x CODE	1000 MI26510R	1500 MI26515R	2000 MI26520R	-	1200+cd.300 MI26512+03R	2500+cd.500 MI26525+05R	2750+cd.250 MI265275+025R	-	2900+cd.100 MI26529+01R	-	-	-	-	
* TR 28x5x CODE	1000 MI28510R	1500 MI28515R	2000 MI28520R	-	1200+cd.300 MI28512+03R	2500+cd.500 MI28525+05R	2750+cd.250 MI285275+025R	-	2900+cd.100 MI28529+01R	-	-	-	-	
TR 30x6x CODE	1000 MI30610R	1500 MI30615R	2000 MI30620R	3000 MI30630R	1200+cd.300 MI30612+03R	2500+cd.500 MI30625+05R	2750+cd.250 MI306275+025R	-	-	-	-	5750+cd.250 MI306575+025R	-	
* TR 32x6x CODE	1000 MI32610R	1500 MI32615R	2000 MI32620R	-	1200+cd.300 MI32612+03R	2500+cd.500 MI32625+05R	2750+cd.250 MI326275+025R	-	2900+cd.100 MI32629+01R	-	-	-	-	
TR 35x6x CODE	1000 MI35610R	1500 MI35615R	2000 MI35620R	3000 MI35630R	1200+cd.300 MI35612+03R	2500+cd.500 MI35625+05R	-	-	-	-	5650+cd.350 MI356565+035R	-	5800+cd.200 MI35658+02R	
TR 36x6x CODE	1000 MI36610R	1500 MI36615R	2000 MI36620R	3000 MI36630R	1200+cd.300 MI36612+03R	2500+cd.500 MI36625+05R	-	-	-	-	5650+cd.350 MI366565+035R	-	5800+cd.200 MI36658+02R	
TR 40x7x CODE	1000 MI40710R	1500 MI40715R	2000 MI40720R	3000 MI40730R	1200+cd.300 MI40712+03R	2500+cd.500 MI40725+05R	-	-	-	-	5650+cd.350 MI407565+035R	-	5800+cd.200 MI40758+02R	
TR 45x8x CODE	1000 MI45810R	1500 MI45815R	2000 MI45820R	3000 MI45830R	1200+cd.300 MI45812+03R	2500+cd.500 MI45825+05R	-	-	-	5600+cd.400 MI45856+04R	-	-	5800+cd.200 MI45858+02R	
* TR 46x8x CODE	1000 MI46810R	1500 MI46815R	2000 MI46820R	-	1200+cd.300 MI46812+03R	2500+cd.500 MI46825+05R	-	2800+cd.200 MI46828+02R	-	-	-	-	-	
TR 50x8x CODE	1000 MI50810R	1500 MI50815R	2000 MI50820R	3000 MI50830R	1200+cd.300 MI50812+03R	2500+cd.500 MI50825+05R	-	-	-	5600+cd.400 MI50856+04R	-	-	5800+cd.200 MI50858+02R	
TR 55x9x CODE	1000 MI55910R	1500 MI55915R	2000 MI55920R	3000 MI55930R	1200+cd.300 MI55912+03R	2500+cd.500 MI55925+05R	-	-	-	5600+cd.400 MI55956+04R	-	-	5800+cd.200 MI55958+02R	
TR 60x9x CODE	1000 MI60910R	1500 MI60915R	2000 MI60920R	3000 MI60930R	1200+cd.300 MI60912+03R	2500+cd.500 MI60925+05R	-	-	-	5600+cd.400 MI60956+04R	-	-	5800+cd.200 MI60958+02R	
TR 70x10x CODE	-	-	-	3000 MI701030R	-	-	-	-	-	-	-	-	5800+cd.200 MI701058+02R	
TR 80x10x CODE	-	-	-	3000 MI801030R	-	-	-	-	-	-	-	-	5800+cd.200 MI801058+02R	
TR 90x12x CODE	-	-	-	3000 MI901230R	-	-	-	-	-	-	-	-	5800+cd.200 MI901258+02R	
TR 100x12x CODE	-	-	-	3000 MI1001230R	-	-	-	-	-	-	-	-	5800+cd.200 MI1001258+02R	

**ORDERING LEFT THREADED BARS** TABLE WITH ARTICLES AND CODES FOR RIGHT THREADED BARS, TO ORDER LEFT THREADED BARS SPECIFY "Sx" AT THE END OF THE ARTICLE AND "L" AT THE END OF THE CODE (INSTEAD OF "R"); IF NOT SPECIFIED THEN RIGHT THREAD IS INTENDED.

- \* The articles with an asterisk are less used and we suggest checking availability with our offices. - We can supply "Castolin EC 4080" electrodes for welding accessories to the threaded bars.
- # The standard lengths of the bars are normally exceeded except in rare cases where, for raw materials reasons, we cut slightly short up to a maximum of 0,5% (for example: standard bar L 1.000 = minimum acceptable length L 995 mm).
- > ON REQUEST: "IF" series fully threaded bars with different lengths to those listed above, adapted from stock by our warehouse cutting department (see BFC price list for cutting and bevelling).
- > ON REQUEST: "FC" series with cylindrical shank bars with threads and shanks of different lengths to those listed above (see BFC price list for cutting and bevelling).
- > ON REQUEST: "FC" series with cylindrical shank bars with threads and shanks of different lengths to those listed above (see BFC price list for cutting and bevelling).
- > ON REQUEST: Bars with a different pitch to those listed above. > ON REQUEST: Threaded bars with nitriding treatment.



**STEEL "R80" TRAPEZOIDAL THREADED BARS** (36SMnPb14 W.NR: 1.0765) TR10/100 RIGHT AND LEFT (7e class 100 machined out)

- > **art.BFA/R80** ..... (Dx/Sx) - Code "MI" ..... (R/L)" Qualified for mechanical transmissions with medium and heavy loads.
- > **BID series** = Standard length with Right/Left thread in a single piece.

art.BFA/R80			NORM ISO 2901/2/3/4 - DIN 103						
BID = WITH Dx(R) /Sx(L) THREAD IN SINGLE PIECE			TECHNICAL DATA REGARDING ALL BARS IF - FC - BID						
# Standard Length	1500 Dx + cd.20 + 1500 Sx (Lt.3020)	3000 Dx + cd.20 + 3000 Sx (Lt.6020) ON REQUEST	TR/cd. De in Ø EXTERNAL	dn Ø CORE mm	d <sub>m</sub> Ø AVERAGE (max) mm	d <sub>m</sub> Ø AVERAGE (min.) mm	Kg/mt. THREAD	Kg/mt. SHANK	TURNS & LOADS max
* TR 10x2x	1500 Dx + cd.20 + 1500 Sx (Lt.3020) MI10230R/L	-	10	7	8,92	8,73	0,500	0,617	SEE GENERAL PRODUCT GUIDE WITH BASIC THEORETICAL TABLE ON PAGES 14/17
TR 10x3x	1500 Dx + cd.20 + 1500 Sx (Lt.3020) MI10330R/L	-	10	6	8,41	8,19	0,450	0,617	
TR 12x3x	1500 Dx + cd.20 + 1500 Sx (Lt.3020) MI12330R/L	-	12	8	10,41	10,18	0,680	0,888	
* TR 14x3x	1500 Dx + cd.20 + 1500 Sx (Lt.3020) MI14330R/L	-	14	10	12,41	12,19	0,960	1,208	
TR 14x4x	1500 Dx + cd.20 + 1500 Sx (Lt.3020) MI14430R/L	-	14	9	11,90	11,64	0,890	1,208	
TR 16x4x	1500 Dx + cd.20 + 1500 Sx (Lt.3020) MI16430R/L	-	16	11	13,90	13,64	1,200	1,578	
TR 18x4x	1500 Dx + cd.20 + 1500 Sx (Lt.3020) MI18430R/L	-	18	13	15,90	15,64	1,580	1,998	
TR 20x4x	1500 Dx + cd.20 + 1500 Sx (Lt.3020) MI20430R/L	-	20	15	17,89	17,62	1,950	2,466	
* TR 22x5x	1500 Dx + cd.20 + 1500 Sx (Lt.3020) MI22530R/L	-	22	16	19,39	19,11	2,340	2,984	
* TR 24x5x	1500 Dx + cd.20 + 1500 Sx (Lt.3020) MI24530R/L	-	24	18	21,39	21,09	2,900	3,551	
TR 25x5x	1500 Dx + cd.20 + 1500 Sx (Lt.3020) MI25530R/L	3000 Dx + cd.20 + 3000 Sx (Lt.6020) MI25560R/L	25	19	22,39	22,09	3,080	3,853	
* TR 26x5x	1500 Dx + cd.20 + 1500 Sx (Lt.3020) MI26530R/L	-	26	20	23,39	23,09	3,370	4,168	
* TR 28x5x	1500 Dx + cd.20 + 1500 Sx (Lt.3020) MI28530R/L	-	28	22	25,39	25,09	3,960	4,834	
TR 30x6x	1500 Dx + cd.20 + 1500 Sx (Lt.3020) MI30630R/L	3000 Dx + cd.20 + 3000 Sx (Lt.6020) MI30660R/L	30	22	26,87	26,54	4,400	5,549	
* TR 32x6x	1500 Dx + cd.20 + 1500 Sx (Lt.3020) MI32630R/L	-	32	24	28,88	28,54	5,070	6,313	
TR 35x6x	1500 Dx + cd.20 + 1500 Sx (Lt.3020) MI35630R/L	3000 Dx + cd.20 + 3000 Sx (Lt.6020) MI35660R/L	35	27	31,88	31,54	6,270	7,552	
TR 36x6x	1500 Dx + cd.20 + 1500 Sx (Lt.3020) MI36630R/L	3000 Dx + cd.20 + 3000 Sx (Lt.6020) MI36660R/L	36	28	32,88	32,54	6,620	7,990	
TR 40x7x	1500 Dx + cd.20 + 1500 Sx (Lt.3020) MI40730R/L	3000 Dx + cd.20 + 3000 Sx (Lt.6020) MI40760R/L	40	31	36,37	36,02	8,070	9,864	
TR 45x8x	1500 Dx + cd.20 + 1500 Sx (Lt.3020) MI45830R/L	3000 Dx + cd.20 + 3000 Sx (Lt.6020) MI45860R/L	45	35	40,86	40,49	10,300	12,480	
* TR 46x8x	1500 Dx + cd.20 + 1500 Sx (Lt.3020) MI46830R/L	-	46	36	41,86	41,46	10,750	13,050	
TR 50x8x	1500 Dx + cd.20 + 1500 Sx (Lt.3020) MI50830R/L	3000 Dx + cd.20 + 3000 Sx (Lt.6020) MI50860R/L	50	40	45,86	45,46	12,920	15,410	
TR 55x9x	1500 Dx + cd.20 + 1500 Sx (Lt.3020) MI55930R/L	3000 Dx + cd.20 + 3000 Sx (Lt.6020) MI55960R/L	55	44	50,36	49,93	15,830	18,650	
TR 60x9x	1500 Dx + cd.20 + 1500 Sx (Lt.3020) MI60930R/L	3000 Dx + cd.20 + 3000 Sx (Lt.6020) MI60960R/L	60	49	55,36	54,93	18,850	22,200	
TR 70x10x	1500 Dx + cd.20 + 1500 Sx (Lt.3020) MI701030R/L ON REQUEST	3000 Dx + cd.20 + 3000 Sx (Lt.6020) MI701060R/L	70	58	64,85	64,42	26,000	30,210	
TR 80x10x	1500 Dx + cd.20 + 1500 Sx (Lt.3020) MI801030R/L ON REQUEST	3000 Dx + cd.20 + 3000 Sx (Lt.6020) MI801060R/L	80	68	74,85	74,42	34,500	39,460	
TR 90x12x	1500 Dx + cd.20 + 1500 Sx (Lt.3020) MI901230R/L ON REQUEST	3000 Dx + cd.20 + 3000 Sx (Lt.6020) MI901260R/L	90	76	83,83	83,35	44,000	49,940	
TR 100x12x	1500 Dx + Cd.20 + 1500 Sx (Lt.3020) MI1001230R/L ON REQUEST	3000 Dx + cd.20 + 3000 Sx (Lt.6020) MI1001260R/L	100	86	93,83	93,33	55,200	61,650	

- \* The articles with an asterisk are less used and we suggest checking availability with our offices. - We can supply "Castolin EC 4080" electrodes for welding accessories to the threaded bars.
- # The standard lengths of the bars are normally exceeded except in rare cases where, for raw materials reasons, we cut slightly short up to a maximum of 0,5% (For example: bi-directional bar TR 1500 Dx + Cd.20 + 1500 Sx (Lt.3020) = minimum acceptable length mm L.3005)
- > As an alternative to the above bi-directional bars with "Cd.20" shanks, we usually have in stock bars with a longer central shank that will require anti-flexing support. When the need arises we suggest asking what we have available in our warehouse.
- > ON REQUEST: "BID" series bi-directional threaded bars with different lengths to those listed above, adapted from stock by our warehouse cutting department (see BFC price list for cutting and bevelling).
- > ON REQUEST: "BID" series bi-directional threaded bars with threads and central shanks different lengths to those listed above (see BFC price list for cutting and bevelling).
- > ON REQUEST: Bars with a different pitch to those listed above. > ON REQUEST: Threaded bars with nitriding treatment. > ON REQUEST: Threaded bars TR65x10 and TR75x10.

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