

# 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 Ø 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 |                            |                              |                            |                            |                            |                              |                              |                              |
|--------------------|------------------------|------------------|------------------|--------------------|-------------------------------------------------------------------------------------------|----------------------------|------------------------------|----------------------------|----------------------------|----------------------------|------------------------------|------------------------------|------------------------------|
| # Standard Length  | 1000                   | 1500             | 2000             | 3000               | 1200+<br>cd.300                                                                           | 2500+<br>cd.500            | 2750+<br>cd.250              | 2800+<br>cd.200            | 2900+<br>cd.100            | 5600+<br>cd.400            | 5650+<br>cd.350              | 5750+<br>cd.250              | 5800+<br>cd.200              |
| * TR 10x2x<br>CODE | 1000<br>MI10210R       | 1500<br>MI10215R | 2000<br>MI10220R | -                  | 1200+cd.300<br>MI10212+03R                                                                | 2500+cd.500<br>MI10225+05R | -                            | -                          | 2900+cd.100<br>MI10229+01R | -                          | -                            | -                            | -                            |
| TR 10x3x<br>CODE   | 1000<br>MI10310R       | 1500<br>MI10315R | 2000<br>MI10320R | -                  | 1200+cd.300<br>MI10312+03R                                                                | 2500+cd.500<br>MI10325+05R | -                            | -                          | 2900+cd.100<br>MI10329+01R | -                          | -                            | -                            | -                            |
| TR 12x3x<br>CODE   | 1000<br>MI12310R       | 1500<br>MI12315R | 2000<br>MI12320R | -                  | 1200+cd.300<br>MI12312+03R                                                                | 2500+cd.500<br>MI12325+05R | -                            | -                          | 2900+cd.100<br>MI12329+01R | -                          | -                            | -                            | -                            |
| * TR 14x3x<br>CODE | 1000<br>MI14310R       | 1500<br>MI14315R | 2000<br>MI14320R | -                  | 1200+cd.300<br>MI14312+03R                                                                | 2500+cd.500<br>MI14325+05R | -                            | -                          | 2900+cd.100<br>MI14329+01R | -                          | -                            | -                            | -                            |
| TR 14x4x<br>CODE   | 1000<br>MI14410R       | 1500<br>MI14415R | 2000<br>MI14420R | -                  | 1200+cd.300<br>MI14412+03R                                                                | 2500+cd.500<br>MI14425+05R | -                            | -                          | 2900+cd.100<br>MI14429+01R | -                          | -                            | -                            | -                            |
| TR 16x4x<br>CODE   | 1000<br>MI16410R       | 1500<br>MI16415R | 2000<br>MI16420R | -                  | 1200+cd.300<br>MI16412+03R                                                                | 2500+cd.500<br>MI16425+05R | -                            | 2800+cd.200<br>MI16428+02R | 2900+cd.100<br>MI16429+01R | -                          | -                            | -                            | -                            |
| TR 18x4x<br>CODE   | 1000<br>MI18410R       | 1500<br>MI18415R | 2000<br>MI18420R | -                  | 1200+cd.300<br>MI18412+03R                                                                | 2500+cd.500<br>MI18425+05R | -                            | 2800+cd.200<br>MI18428+02R | 2900+cd.100<br>MI18429+01R | -                          | -                            | -                            | -                            |
| TR 20x4x<br>CODE   | 1000<br>MI20410R       | 1500<br>MI20415R | 2000<br>MI20420R | 3000<br>MI20430R   | 1200+cd.300<br>MI20412+03R                                                                | 2500+cd.500<br>MI20425+05R | -                            | 2800+cd.200<br>MI20428+02R | -                          | -                          | -                            | -                            | -                            |
| * TR 22x5x<br>CODE | 1000<br>MI22510R       | 1500<br>MI22515R | 2000<br>MI22520R | -                  | 1200+cd.300<br>MI22512+03R                                                                | 2500+cd.500<br>MI22525+05R | -                            | 2800+cd.200<br>MI22528+02R | 2900+cd.100<br>MI22529+01R | -                          | -                            | -                            | -                            |
| * TR 24x5x<br>CODE | 1000<br>MI24510R       | 1500<br>MI24515R | 2000<br>MI24520R | -                  | 1200+cd.300<br>MI24512+03R                                                                | 2500+cd.500<br>MI24525+05R | 2750+cd.250<br>MI245275+025R | -                          | 2900+cd.100<br>MI24529+01R | -                          | -                            | -                            | -                            |
| TR 25x5x<br>CODE   | 1000<br>MI25510R       | 1500<br>MI25515R | 2000<br>MI25520R | 3000<br>MI25530R   | 1200+cd.300<br>MI25512+03R                                                                | 2500+cd.500<br>MI25525+05R | 2750+cd.250<br>MI255275+025R | -                          | -                          | -                          | -                            | 5750+cd.250<br>MI255575+025R | -                            |
| * TR 26x5x<br>CODE | 1000<br>MI26510R       | 1500<br>MI26515R | 2000<br>MI26520R | -                  | 1200+cd.300<br>MI26512+03R                                                                | 2500+cd.500<br>MI26525+05R | 2750+cd.250<br>MI265275+025R | -                          | 2900+cd.100<br>MI26529+01R | -                          | -                            | -                            | -                            |
| * TR 28x5x<br>CODE | 1000<br>MI28510R       | 1500<br>MI28515R | 2000<br>MI28520R | -                  | 1200+cd.300<br>MI28512+03R                                                                | 2500+cd.500<br>MI28525+05R | 2750+cd.250<br>MI285275+025R | -                          | 2900+cd.100<br>MI28529+01R | -                          | -                            | -                            | -                            |
| TR 30x6x<br>CODE   | 1000<br>MI30610R       | 1500<br>MI30615R | 2000<br>MI30620R | 3000<br>MI30630R   | 1200+cd.300<br>MI30612+03R                                                                | 2500+cd.500<br>MI30625+05R | 2750+cd.250<br>MI306275+025R | -                          | -                          | -                          | -                            | 5750+cd.250<br>MI306575+025R | -                            |
| * TR 32x6x<br>CODE | 1000<br>MI32610R       | 1500<br>MI32615R | 2000<br>MI32620R | -                  | 1200+cd.300<br>MI32612+03R                                                                | 2500+cd.500<br>MI32625+05R | 2750+cd.250<br>MI326275+025R | -                          | 2900+cd.100<br>MI32629+01R | -                          | -                            | -                            | -                            |
| TR 35x6x<br>CODE   | 1000<br>MI35610R       | 1500<br>MI35615R | 2000<br>MI35620R | 3000<br>MI35630R   | 1200+cd.300<br>MI35612+03R                                                                | 2500+cd.500<br>MI35625+05R | -                            | -                          | -                          | -                          | 5650+cd.350<br>MI356565+035R | -                            | 5800+cd.200<br>MI35658+02R   |
| TR 36x6x<br>CODE   | 1000<br>MI36610R       | 1500<br>MI36615R | 2000<br>MI36620R | 3000<br>MI36630R   | 1200+cd.300<br>MI36612+03R                                                                | 2500+cd.500<br>MI36625+05R | -                            | -                          | -                          | -                          | 5650+cd.350<br>MI366565+035R | -                            | 5800+cd.200<br>MI36658+02R   |
| TR 40x7x<br>CODE   | 1000<br>MI40710R       | 1500<br>MI40715R | 2000<br>MI40720R | 3000<br>MI40730R   | 1200+cd.300<br>MI40712+03R                                                                | 2500+cd.500<br>MI40725+05R | -                            | -                          | -                          | -                          | 5650+cd.350<br>MI407565+035R | -                            | 5800+cd.200<br>MI40758+02R   |
| TR 45x8x<br>CODE   | 1000<br>MI45810R       | 1500<br>MI45815R | 2000<br>MI45820R | 3000<br>MI45830R   | 1200+cd.300<br>MI45812+03R                                                                | 2500+cd.500<br>MI45825+05R | -                            | -                          | -                          | 5600+cd.400<br>MI45856+04R | -                            | -                            | 5800+cd.200<br>MI45858+02R   |
| * TR 46x8x<br>CODE | 1000<br>MI46810R       | 1500<br>MI46815R | 2000<br>MI46820R | -                  | 1200+cd.300<br>MI46812+03R                                                                | 2500+cd.500<br>MI46825+05R | -                            | 2800+cd.200<br>MI46828+02R | -                          | -                          | -                            | -                            | -                            |
| TR 50x8x<br>CODE   | 1000<br>MI50810R       | 1500<br>MI50815R | 2000<br>MI50820R | 3000<br>MI50830R   | 1200+cd.300<br>MI50812+03R                                                                | 2500+cd.500<br>MI50825+05R | -                            | -                          | -                          | 5600+cd.400<br>MI50856+04R | -                            | -                            | 5800+cd.200<br>MI50858+02R   |
| TR 55x9x<br>CODE   | 1000<br>MI55910R       | 1500<br>MI55915R | 2000<br>MI55920R | 3000<br>MI55930R   | 1200+cd.300<br>MI55912+03R                                                                | 2500+cd.500<br>MI55925+05R | -                            | -                          | -                          | 5600+cd.400<br>MI55956+04R | -                            | -                            | 5800+cd.200<br>MI55958+02R   |
| TR 60x9x<br>CODE   | 1000<br>MI60910R       | 1500<br>MI60915R | 2000<br>MI60920R | 3000<br>MI60930R   | 1200+cd.300<br>MI60912+03R                                                                | 2500+cd.500<br>MI60925+05R | -                            | -                          | -                          | 5600+cd.400<br>MI60956+04R | -                            | -                            | 5800+cd.200<br>MI60958+02R   |
| TR 70x10x<br>CODE  | -                      | -                | -                | 3000<br>MI701030R  | -                                                                                         | -                          | -                            | -                          | -                          | -                          | -                            | -                            | 5800+cd.200<br>MI701058+02R  |
| TR 80x10x<br>CODE  | -                      | -                | -                | 3000<br>MI801030R  | -                                                                                         | -                          | -                            | -                          | -                          | -                          | -                            | -                            | 5800+cd.200<br>MI801058+02R  |
| TR 90x12x<br>CODE  | -                      | -                | -                | 3000<br>MI901230R  | -                                                                                         | -                          | -                            | -                          | -                          | -                          | -                            | -                            | 5800+cd.200<br>MI901258+02R  |
| TR 100x12x<br>CODE | -                      | -                | -                | 3000<br>MI1001230R | -                                                                                         | -                          | -                            | -                          | -                          | -                          | -                            | -                            | 5800+cd.200<br>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        | BID = WITH Dx(R) /Sx(L) THREAD IN SINGLE PIECE                 |                                                     | NORM ISO 2901/2/3/4 - DIN 103 |              |                       |                        |               |              |                                                                       |
|--------------------|----------------------------------------------------------------|-----------------------------------------------------|-------------------------------|--------------|-----------------------|------------------------|---------------|--------------|-----------------------------------------------------------------------|
|                    | 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 | dm Ø AVERAGE (max) mm | dm Ø AVERAGE (min.) mm | Kg/mt. THREAD | Kg/mt. SHANK | TURNS & LOADS max                                                     |
| * TR 10x2x<br>CODE | 1500 Dx + cd.20 + 1500 Sx (Lt.3020)<br>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<br>CODE   | 1500 Dx + cd.20 + 1500 Sx (Lt.3020)<br>MI10330R/L              | -                                                   | 10                            | 6            | 8,41                  | 8,19                   | 0,450         | 0,617        |                                                                       |
| TR 12x3x<br>CODE   | 1500 Dx + cd.20 + 1500 Sx (Lt.3020)<br>MI12330R/L              | -                                                   | 12                            | 8            | 10,41                 | 10,18                  | 0,680         | 0,888        |                                                                       |
| * TR 14x3x<br>CODE | 1500 Dx + cd.20 + 1500 Sx (Lt.3020)<br>MI14330R/L              | -                                                   | 14                            | 10           | 12,41                 | 12,19                  | 0,960         | 1,208        |                                                                       |
| TR 14x4x<br>CODE   | 1500 Dx + cd.20 + 1500 Sx (Lt.3020)<br>MI14430R/L              | -                                                   | 14                            | 9            | 11,90                 | 11,64                  | 0,890         | 1,208        |                                                                       |
| TR 16x4x<br>CODE   | 1500 Dx + cd.20 + 1500 Sx (Lt.3020)<br>MI16430R/L              | -                                                   | 16                            | 11           | 13,90                 | 13,64                  | 1,200         | 1,578        |                                                                       |
| TR 18x4x<br>CODE   | 1500 Dx + cd.20 + 1500 Sx (Lt.3020)<br>MI18430R/L              | -                                                   | 18                            | 13           | 15,90                 | 15,64                  | 1,580         | 1,998        |                                                                       |
| TR 20x4x<br>CODE   | 1500 Dx + cd.20 + 1500 Sx (Lt.3020)<br>MI20430R/L              | -                                                   | 20                            | 15           | 17,89                 | 17,62                  | 1,950         | 2,466        |                                                                       |
| * TR 22x5x<br>CODE | 1500 Dx + cd.20 + 1500 Sx (Lt.3020)<br>MI22530R/L              | -                                                   | 22                            | 16           | 19,39                 | 19,11                  | 2,340         | 2,984        |                                                                       |
| * TR 24x5x<br>CODE | 1500 Dx + cd.20 + 1500 Sx (Lt.3020)<br>MI24530R/L              | -                                                   | 24                            | 18           | 21,39                 | 21,09                  | 2,900         | 3,551        |                                                                       |
| TR 25x5x<br>CODE   | 1500 Dx + cd.20 + 1500 Sx (Lt.3020)<br>MI25530R/L              | 3000 Dx + cd.20 + 3000 Sx (Lt.6020)<br>MI25560R/L   | 25                            | 19           | 22,39                 | 22,09                  | 3,080         | 3,853        |                                                                       |
| * TR 26x5x<br>CODE | 1500 Dx + cd.20 + 1500 Sx (Lt.3020)<br>MI26530R/L              | -                                                   | 26                            | 20           | 23,39                 | 23,09                  | 3,370         | 4,168        |                                                                       |
| * TR 28x5x<br>CODE | 1500 Dx + cd.20 + 1500 Sx (Lt.3020)<br>MI28530R/L              | -                                                   | 28                            | 22           | 25,39                 | 25,09                  | 3,960         | 4,834        |                                                                       |
| TR 30x6x<br>CODE   | 1500 Dx + cd.20 + 1500 Sx (Lt.3020)<br>MI30630R/L              | 3000 Dx + cd.20 + 3000 Sx (Lt.6020)<br>MI30660R/L   | 30                            | 22           | 26,87                 | 26,54                  | 4,400         | 5,549        |                                                                       |
| * TR 32x6x<br>CODE | 1500 Dx + cd.20 + 1500 Sx (Lt.3020)<br>MI32630R/L              | -                                                   | 32                            | 24           | 28,88                 | 28,54                  | 5,070         | 6,313        |                                                                       |
| TR 35x6x<br>CODE   | 1500 Dx + cd.20 + 1500 Sx (Lt.3020)<br>MI35630R/L              | 3000 Dx + cd.20 + 3000 Sx (Lt.6020)<br>MI35660R/L   | 35                            | 27           | 31,88                 | 31,54                  | 6,270         | 7,552        |                                                                       |
| TR 36x6x<br>CODE   | 1500 Dx + cd.20 + 1500 Sx (Lt.3020)<br>MI36630R/L              | 3000 Dx + cd.20 + 3000 Sx (Lt.6020)<br>MI36660R/L   | 36                            | 28           | 32,88                 | 32,54                  | 6,620         | 7,990        |                                                                       |
| TR 40x7x<br>CODE   | 1500 Dx + cd.20 + 1500 Sx (Lt.3020)<br>MI40730R/L              | 3000 Dx + cd.20 + 3000 Sx (Lt.6020)<br>MI40760R/L   | 40                            | 31           | 36,37                 | 36,02                  | 8,070         | 9,864        |                                                                       |
| TR 45x8x<br>CODE   | 1500 Dx + cd.20 + 1500 Sx (Lt.3020)<br>MI45830R/L              | 3000 Dx + cd.20 + 3000 Sx (Lt.6020)<br>MI45860R/L   | 45                            | 35           | 40,86                 | 40,49                  | 10,300        | 12,480       |                                                                       |
| * TR 46x8x<br>CODE | 1500 Dx + cd.20 + 1500 Sx (Lt.3020)<br>MI46830R/L              | -                                                   | 46                            | 36           | 41,86                 | 41,46                  | 10,750        | 13,050       |                                                                       |
| TR 50x8x<br>CODE   | 1500 Dx + cd.20 + 1500 Sx (Lt.3020)<br>MI50830R/L              | 3000 Dx + cd.20 + 3000 Sx (Lt.6020)<br>MI50860R/L   | 50                            | 40           | 45,86                 | 45,46                  | 12,920        | 15,410       |                                                                       |
| TR 55x9x<br>CODE   | 1500 Dx + cd.20 + 1500 Sx (Lt.3020)<br>MI55930R/L              | 3000 Dx + cd.20 + 3000 Sx (Lt.6020)<br>MI55960R/L   | 55                            | 44           | 50,36                 | 49,93                  | 15,830        | 18,650       |                                                                       |
| TR 60x9x<br>CODE   | 1500 Dx + cd.20 + 1500 Sx (Lt.3020)<br>MI60930R/L              | 3000 Dx + cd.20 + 3000 Sx (Lt.6020)<br>MI60960R/L   | 60                            | 49           | 55,36                 | 54,93                  | 18,850        | 22,200       |                                                                       |
| TR 70x10x<br>CODE  | 1500 Dx + cd.20 + 1500 Sx (Lt.3020)<br>MI701030R/L ON REQUEST  | 3000 Dx + cd.20 + 3000 Sx (Lt.6020)<br>MI701060R/L  | 70                            | 58           | 64,85                 | 64,42                  | 26,000        | 30,210       |                                                                       |
| TR 80x10x<br>CODE  | 1500 Dx + cd.20 + 1500 Sx (Lt.3020)<br>MI801030R/L ON REQUEST  | 3000 Dx + cd.20 + 3000 Sx (Lt.6020)<br>MI801060R/L  | 80                            | 68           | 74,85                 | 74,42                  | 34,500        | 39,460       |                                                                       |
| TR 90x12x<br>CODE  | 1500 Dx + cd.20 + 1500 Sx (Lt.3020)<br>MI901230R/L ON REQUEST  | 3000 Dx + cd.20 + 3000 Sx (Lt.6020)<br>MI901260R/L  | 90                            | 76           | 83,83                 | 83,35                  | 44,000        | 49,940       |                                                                       |
| TR 100x12x<br>CODE | 1500 Dx + Cd.20 + 1500 Sx (Lt.3020)<br>MI1001230R/L ON REQUEST | 3000 Dx + cd.20 + 3000 Sx (Lt.6020)<br>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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