



**DRAWN SEMI-FINISHED RODS  
FOR FREE CUTTING AND MACHINING**

**Sizes and tolerance (UNI EN 12164)**



**Round rods**

Nominal diameter		Tolerance (mm)	
>	≤	class A*	class B
6	10	+0 ; -0,06	+0 ; -0,036
10	18	+0 ; -0,07	+0 ; -0,043
18	30	+0 ; -0,08	+0 ; -0,052
30	50	+0 ; -0,16	-
50	80	+0 ; -0,19	-
80	150	+0 ; -1,20	-

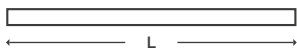
\* standard supply

Polygonal rods undergo thermal treatment for stress relieving



**Polygonal rods**

Size D (mm)		Tolerance (mm)
>	≤	
6	10	+0 ; -0,09
10	18	+0 ; -0,11
18	30	+0 ; -0,13
30	50	+0 ; -0,16
50	60	+0 ; -0,19
60	100	+0 ; -1,20



**Length**

Diameter, key (mm)		Length	
>	≤	L standard m	tol. ± (mm)
10	30	3	50
30	80	3	100
80	150	3	200



**Straightness**

Shape	Size D up to	max. deviation (mm)	
		on 400 mm	on L (L>1 m)
Round	50	0,4	1,0 x L
	150	6,0	9,0 x L
Polygonal	50	0,6	1,5 x L
	100	6,0	9,0 x L

**Finish and packaging**

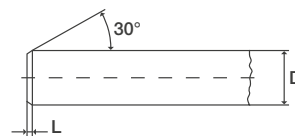
Rods ends:

Customers can choose the finish of both ends.

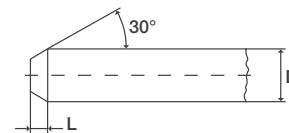
Round: D mm max 45

Polyg.: key mm max 42

End 1 chamfer



End 2 point



Chamfer					
Diameter D Key CH		End 1 chamfer		End 2 point	
		Length l		Length l	
>	≤	min.	max	min.	max
5	10	0,2	1,5	2	7
10	20	0,2	2	3	10
20	30	0,2	3	4	12

Surface finish: pickled

Packaging: 1000 kg bundles with metal straps and protective material between the straps and the rods

Identification through: label