

Technical Data Bulletin

## SCREW THREAD

### Comparison of ISO metric threads and MJ – threads with different tolerances and their advantages

screw thread	pitch-diameter [mm]		core-diameter [mm]		stressed cross section [mm <sup>2</sup> ]	root of thread radius [mm]
	max.	min.	max.	min.		
M4x0,7 - 6g	3,523	3,433	3,119	3,002	8,658	0,101 – 0,088
M4x0,7 - 4h	3,545	3,489	3,141	3,058	8,773	
MJ4x0,7 - 4h6h	3,545	3,489	3,192	3,094	8,907	0,126 – 0,105
M6x1 - 6g	5,324	5,212	4,747	4,596	19,905	0,144 – 0,125
M6x1 - 4h	5,350	5,279	4,773	4,663	20,111	
MJ6x1 - 4h6h	5,350	5,279	4,845	4,713	20,398	0,180 – 0,150
M10x1,5 - 6g	8,994	8,862	8,128	7,938	57,533	0,216 – 0,188
M10x1,5 - 4h	9,026	8,936	8,160	8,017	57,964	
MJ10x1,5 - 4h6h	9,026	8,936	8,268	8,087	58,695	0,271 – 0,255

.. **larger core diameter**

⇒ larger stressed cross section

.. **larger root of thread radius**

⇒ lower stress concentration / notch effect

resulting characteristics:

⇒ **increased tensile strength but**

⇒ **mainly improved tension fatigue strength**