

## Shoulder screws

Steel / Stainless Steel, with collar

### SPECIFICATION

#### Version in Steel

- Property class 12.9
- Blackened
- Fit dimension  $d_1$  ground

#### Version in Stainless Steel NI

- AISI 304 (A2)
- Adapter dimension  $d_1$  ground

### INFORMATION

Shoulder screws ISO 7379 are cost-saving construction elements for a wide variety of different uses.

The maximum tightening torque must not be defined by strength class 12.9, it is instead limited by the relatively small bearing points (shoulders) and by the recesses at the transition point from  $d_1$  to  $d_2$  and  $d_3$ .

The ISO standard sheet allows for screws with or without knurled head.

Standard deviation:

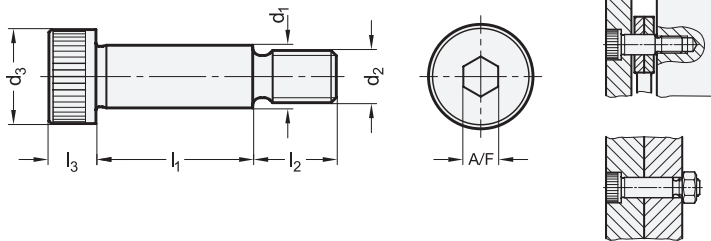
- no information about the concentricity 2 IT 13 and IT 10 2
- the official ISO standard sheet has the following dimensions for  $d_1$  -  $d_2$ : 6.5-M5 / 13-M10 / 25-M20
- the dimensions 4-M3 and M4-M5 are not included in the official ISO standard sheet

### TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)
- ISO-Fundamental Tolerances (see page A21)
- Strength Values of Screws (see page A20)



### Application examples

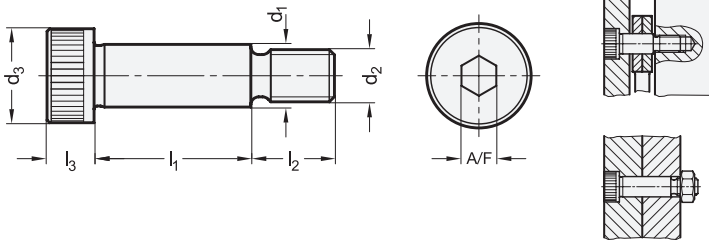






Machine elements 9

Application examples



ISO 7379-NI STAINLESS STEEL

Description	d1 f9	d2	l1 +0.25	d3	l2	l3	A/F	ΔΔ
ISO 7379-4-M3-4-NI	4 M3	4	7	7	3	2	1	
ISO 7379-4-M3-5-NI	4 M3	5	7	7	3	2	2	
ISO 7379-4-M3-6-NI	4 M3	6	7	7	3	2	2	
ISO 7379-4-M3-8-NI	4 M3	8	7	7	3	2	2	
ISO 7379-4-M3-10-NI	4 M3	10	7	7	3	2	2	
ISO 7379-4-M3-12-NI	4 M3	12	7	7	3	2	2	
ISO 7379-4-M3-16-NI	4 M3	16	7	7	3	2	3	
ISO 7379-5-M4-5-NI	5 M4	5	9	8	4	2.5	3	
ISO 7379-5-M4-6-NI	5 M4	6	9	8	4	2.5	3	
ISO 7379-5-M4-8-NI	5 M4	8	9	8	4	2.5	4	
ISO 7379-5-M4-10-NI	5 M4	10	9	8	4	2.5	4	
ISO 7379-5-M4-12-NI	5 M4	12	9	8	4	2.5	4	
ISO 7379-5-M4-16-NI	5 M4	16	9	8	4	2.5	5	
ISO 7379-5-M4-20-NI	5 M4	20	9	8	4	2.5	5	
ISO 7379-5-M4-25-NI	5 M4	25	9	8	4	2.5	6	
ISO 7379-5-M4-30-NI	5 M4	30	9	8	4	2.5	7	
ISO 7379-6-M5-10-NI	6 M5	10	10	9.5	4.5	3	6	
ISO 7379-6-M5-12-NI	6 M5	12	10	9.5	4.5	3	6	
ISO 7379-6-M5-16-NI	6 M5	16	10	9.5	4.5	3	7	
ISO 7379-6-M5-20-NI	6 M5	20	10	9.5	4.5	3	8	
ISO 7379-6-M5-25-NI	6 M5	25	10	9.5	4.5	3	10	
ISO 7379-6-M5-30-NI	6 M5	30	10	9.5	4.5	3	10	
ISO 7379-6-M5-40-NI	6 M5	40	10	9.5	4.5	3	12	
ISO 7379-6-M5-50-NI	6 M5	50	10	9.5	4.5	3	14	
ISO 7379-6-M5-60-NI	6 M5	60	10	9.5	4.5	3	14	
ISO 7379-8-M6-16-NI	8 M6	16	13	11	5.5	4	8	
ISO 7379-8-M6-20-NI	8 M6	20	13	11	5.5	4	12	
ISO 7379-8-M6-25-NI	8 M6	25	13	11	5.5	4	16	
ISO 7379-8-M6-30-NI	8 M6	30	13	11	5.5	4	18	
ISO 7379-8-M6-40-NI	8 M6	40	13	11	5.5	4	21	
ISO 7379-8-M6-50-NI	8 M6	50	13	11	5.5	4	26	
ISO 7379-8-M6-60-NI	8 M6	60	13	11	5.5	4	27	

ISO 7379-NI STAINLESS STEEL

Description	d1 f9	d2	l1 +0.25	d3	l2	l3	A/F	ΔΔ
ISO 7379-10-M8-16-NI	10 M8	16	16	13	7	5	23	
ISO 7379-10-M8-20-NI	10 M8	20	16	13	7	5	25	
ISO 7379-10-M8-25-NI	10 M8	25	16	13	7	5	29	
ISO 7379-10-M8-30-NI	10 M8	30	16	13	7	5	32	
ISO 7379-10-M8-40-NI	10 M8	40	16	13	7	5	41	
ISO 7379-10-M8-50-NI	10 M8	50	16	13	7	5	45	
ISO 7379-10-M8-60-NI	10 M8	60	16	13	7	5	50	
ISO 7379-10-M8-70-NI	10 M8	70	16	13	7	5	56	
ISO 7379-10-M8-80-NI	10 M8	80	16	13	7	5	62	
ISO 7379-10-M8-90-NI	10 M8	90	16	13	7	5	68	
ISO 7379-10-M8-100-NI	10 M8	100	16	13	7	5	75	
ISO 7379-12-M10-16-NI	12 M10	16	18	16	9	6	35	
ISO 7379-12-M10-20-NI	12 M10	20	18	16	9	6	39	
ISO 7379-12-M10-25-NI	12 M10	25	18	16	9	6	43	
ISO 7379-12-M10-30-NI	12 M10	30	18	16	9	6	47	
ISO 7379-12-M10-40-NI	12 M10	40	18	16	9	6	56	
ISO 7379-12-M10-50-NI	12 M10	50	18	16	9	6	65	
ISO 7379-12-M10-60-NI	12 M10	60	18	16	9	6	76	
ISO 7379-12-M10-70-NI	12 M10	70	18	16	9	6	86	
ISO 7379-12-M10-80-NI	12 M10	80	18	16	9	6	91	
ISO 7379-12-M10-90-NI	12 M10	90	18	16	9	6	96	
ISO 7379-12-M10-100-NI	12 M10	100	18	16	9	6	100	
ISO 7379-16-M12-30-NI	16 M12	30	24	18	11	8	93	
ISO 7379-16-M12-40-NI	16 M12	40	24	18	11	8	110	
ISO 7379-16-M12-50-NI	16 M12	50	24	18	11	8	123	
ISO 7379-16-M12-60-NI	16 M12	60	24	18	11	8	136	
ISO 7379-16-M12-70-NI	16 M12	70	24	18	11	8	155	
ISO 7379-16-M12-80-NI	16 M12	80	24	18	11	8	170	
ISO 7379-16-M12-90-NI	16 M12	90	24	18	11	8	186	
ISO 7379-16-M12-100-NI	16 M12	100	24	18	11	8	200	