

Swing Bolts • DIN 444, form B  
EH 22980.

## Product Description

Swing bolts similar to DIN 444 however, steel design with higher quality 8.8. The stainless steel A2-50 design has a tensile strength of min. 500 N/mm<sup>2</sup>.

## Material

- Heat-treated steel, tempered, quality 8.8, black
- Stainless steel 1.4301

## More information

## Notes

Customized design on request.

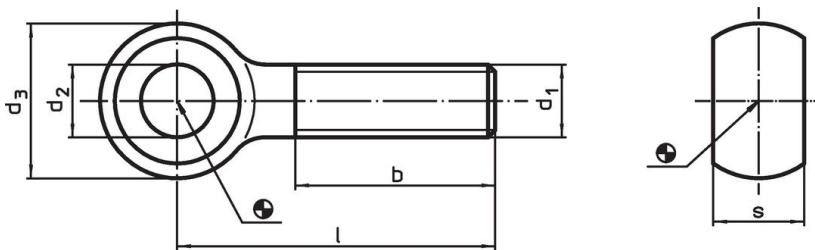
## References

For torques please refer to appendix - Technical Data -

## Further products


- Swing Bolts, DIN 444, form B, quality 8.8 high precision design

## Drawing



## Order information

d <sub>1</sub>	l	Dimensions				s	[g]	Art. No.
		d <sub>2</sub> H9 [mm]	d <sub>3</sub>	b				
<b>Heat-treated steel</b>								
M 5	25	5	12	16	6	5.6	<a href="#">22980.0202</a>	
M 5	30	5	12	16	6	6.4	<a href="#">22980.0203</a>	
M 5	35	5	12	16	6	7.1	<a href="#">22980.0204</a>	
M 5	40	5	12	16	6	7.9	<a href="#">22980.0205</a>	
M 6	30	6	14	18	7	9.5	<a href="#">22980.0212</a>	
M 6	40	6	14	18	7	11.0	<a href="#">22980.0214</a>	
M 6	50	6	14	18	7	14.0	<a href="#">22980.0216</a>	
M 6	60	6	14	18	7	16.0	<a href="#">22980.0218</a>	
M 6	80	6	14	18	7	20.0	<a href="#">22980.0222</a>	
M 8	40	8	18	22	9	22.0	<a href="#">22980.0232</a>	
M 8	50	8	18	22	9	26.0	<a href="#">22980.0234</a>	
M 8	60	8	18	22	9	30.0	<a href="#">22980.0236</a>	
M 8	80	8	18	22	9	37.0	<a href="#">22980.0240</a>	
M 8	100	8	18	22	9	44.0	<a href="#">22980.0244</a>	
M10	50	10	20	26	12	40.0	<a href="#">22980.0252</a>	
M10	60	10	20	26	12	43.0	<a href="#">22980.0254</a>	
M10	75	10	20	26	12	51.0	<a href="#">22980.0257</a>	
M10	100	10	20	26	12	67.0	<a href="#">22980.0262</a>	
M10	120	10	20	26	12	72.0	<a href="#">22980.0266</a>	
M12	50	12	25	30	14	59.0	<a href="#">22980.0272</a>	
M12	60	12	25	30	14	68.0	<a href="#">22980.0274</a>	
M12	80	12	25	30	14	85.0	<a href="#">22980.0278</a>	
M12	100	12	25	30	14	102.0	<a href="#">22980.0282</a>	
M12	120	12	25	30	14	119.0	<a href="#">22980.0286</a>	
M16	60	16	32	38	17	128.0	<a href="#">22980.0292</a>	
M16	80	16	32	38	17	159.0	<a href="#">22980.0294</a>	

d <sub>1</sub>	l	Dimensions				s		Art. No.
		d <sub>2</sub> H9 [mm]	d <sub>3</sub>	b	[g]			
M16	100	16	32	38	17	190.0	<a href="#">22980.0298</a>	
M16	120	16	32	38	17	220.0	<a href="#">22980.0302</a>	
M16	150	16	32	44	17	265.0	<a href="#">22980.0308</a>	
M20	100	18	40	46	22	323.0	<a href="#">22980.0312</a>	
M20	120	18	40	46	22	373.0	<a href="#">22980.0316</a>	
M20	160	18	40	52	22	466.0	<a href="#">22980.0324</a>	
M20	200	18	40	52	22	562.0	<a href="#">22980.0332</a>	
M24	100	22	45	54	25	443.0	<a href="#">22980.0342</a>	
M24	120	22	45	54	25	512.0	<a href="#">22980.0346</a>	
M24	160	22	45	60	25	649.0	<a href="#">22980.0354</a>	
M24	200	22	45	60	25	787.0	<a href="#">22980.0362</a>	
<b>Stainless steel</b>								
M 5	25	5	12	16	6	5.6	<a href="#">22980.0402</a>	
M 5	30	5	12	16	6	6.4	<a href="#">22980.0403</a>	
M 5	35	5	12	16	6	7.1	<a href="#">22980.0404</a>	
M 5	40	5	12	16	6	7.9	<a href="#">22980.0405</a>	
M 6	30	6	14	18	7	9.5	<a href="#">22980.0412</a>	
M 6	40	6	14	18	7	11.0	<a href="#">22980.0414</a>	
M 6	50	6	14	18	7	14.0	<a href="#">22980.0416</a>	
M 6	60	6	14	18	7	16.0	<a href="#">22980.0418</a>	
M 6	80	6	14	18	7	20.0	<a href="#">22980.0422</a>	
M 8	40	8	18	22	9	22.0	<a href="#">22980.0432</a>	
M 8	50	8	18	22	9	26.0	<a href="#">22980.0434</a>	
M 8	60	8	18	22	9	30.0	<a href="#">22980.0436</a>	
M 8	80	8	18	22	9	37.0	<a href="#">22980.0440</a>	
M 8	100	8	18	22	9	44.0	<a href="#">22980.0444</a>	
M10	50	10	20	26	12	40.0	<a href="#">22980.0452</a>	
M10	60	10	20	26	12	43.0	<a href="#">22980.0454</a>	
M10	75	10	20	26	12	51.0	<a href="#">22980.0457</a>	
M10	100	10	20	26	12	67.0	<a href="#">22980.0462</a>	
M10	120	10	20	26	12	72.0	<a href="#">22980.0466</a>	
M12	50	12	25	30	14	59.0	<a href="#">22980.0472</a>	
M12	60	12	25	30	14	68.0	<a href="#">22980.0474</a>	
M12	80	12	25	30	14	85.0	<a href="#">22980.0478</a>	
M12	100	12	25	30	14	102.0	<a href="#">22980.0482</a>	
M12	120	12	25	30	14	119.0	<a href="#">22980.0486</a>	
M16	60	16	32	38	17	128.0	<a href="#">22980.0492</a>	
M16	80	16	32	38	17	159.0	<a href="#">22980.0494</a>	
M16	100	16	32	38	17	190.0	<a href="#">22980.0498</a>	
M16	120	16	32	38	17	220.0	<a href="#">22980.0502</a>	
M16	150	16	32	44	17	265.0	<a href="#">22980.0508</a>	
M20	100	18	40	46	22	323.0	<a href="#">22980.0512</a>	
M20	120	18	40	46	22	373.0	<a href="#">22980.0516</a>	
M20	160	18	40	52	22	466.0	<a href="#">22980.0524</a>	
M20	200	18	40	52	22	562.0	<a href="#">22980.0532</a>	
M24	100	22	45	54	25	443.0	<a href="#">22980.0542</a>	
M24	120	22	45	54	25	512.0	<a href="#">22980.0546</a>	
M24	160	22	45	60	25	649.0	<a href="#">22980.0554</a>	
M24	200	22	45	60	25	787.0	<a href="#">22980.0562</a>	

## Compliance

### RoHS compliant

Compliant according to Directive 2011/65/EU and Directive 2015/863.

### Does not contain SVHC substances

No SVHC substances with more than 0.1% w/w contained - SVHC list [REACH] as of 27.06.2024.

### Does not contain Proposition 65 substances

No Proposition 65 substances included.

<https://www.P65Warnings.ca.gov/>

### Free from Conflict Minerals

This product does not contain any substances designated as "conflict minerals" such as tantalum, tin, gold or tungsten from the Democratic Republic of Congo or adjacent countries.