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Ball-Ended Thrust Screws • headed, flat-faced ball

EH 22710.



Product Description

Ball-ended thrust screws, headed, flat-faced ball are used for positioning, clamping, securing and supporting components. They are particularly suitable for applications where force must be applied over a larger contact area or where a non-parallel contact surface needs to be compensated for.
The head acts as a stop that limits the screw penetration depth. This helps ensure a defined and reproducible installation position of the ball-ended thrust screw.
The movable, flat-faced ball can tilt by up to 9°. This allows the bearing surface to adapt to inclined or non-parallel locating surfaces and distribute force over a larger surface area.
The smooth bearing surface allows even and gentle force application to the component. The ribbed bearing surface provides increased grip and helps prevent lateral movement of the component.
This product group offers the following features and advantages:

- Head acts as a stop to limit the screw penetration depth
- Defined and repeatable installation position
- Movable, flat-faced ball
- Ball tilt of up to 9°
- Compensates for inclined or non-parallel locating surfaces
- Force transmission over a larger surface area
- Smooth bearing surface for gentle force application
- Ribbed bearing surface for increased grip
- Adjustment with a hexagon key
- Versions in steel or stainless steelomponent

Material

Ball

- Ball-bearing steel, hardened
- Stainless steel, hardened

Screw

- Heat-treated steel, 1200 ±100 N/mm^2
- Stainless steel 1.4305

More information

Notes

Ball not secured against rotating.
Customized design on request.

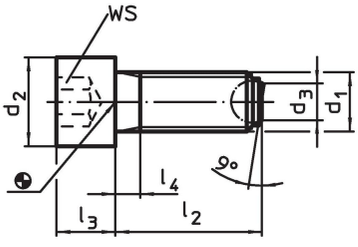
References

Thread lock on request.

Further products

- Ball-Ended Thrust Screws, headed, ball protected against rotating

Drawing



Order information

d_1	l_2 ~	d_2	d_3	l_3	l_4	Ball diameter	WS	Load capacity for static load[1] max.		Art. No.
			[mm]				[mm]	[kN]	[g]	
bearing surface plain , Heat-treated steel										
M 6	**20**	10	3.2	6	3.0	4.0	5	9	6.0	22710.0562
M 6	**30**	10	3.2	6	3.0	4.0	5	9	7.7	22710.0564
M 6	**40**	10	3.2	6	16.0	4.0	5	9	10.0	22710.0566
M 8	**20**	13	4.5	8	3.5	5.5	6	15	13.0	22710.0582
M 8	**35**	13	4.5	8	3.5	5.5	6	15	17.0	22710.0584
M 8	**50**	13	4.5	8	22.0	5.5	6	15	23.0	22710.0586
M10	**25**	16	6.0	10	4.5	7.0	8	20	24.0	22710.0602
M10	**40**	16	6.0	10	4.5	7.0	8	20	31.0	22710.0604

[1] Statements on load capacity are not valid for the stainless steel type.

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Dimensions							WS	Load capacity for static load[1] max.		Art. No.
d_1	l_2 ~	d_2	d_3	l_3	l_4	Ball diameter				
[mm]							[mm]	[kN]	[g]	
M10	**60**	16	6.0	10	28.0	7.0	8	20	44.0	22710.0606
M12	**30**	18	7.2	12	5.0	8.5	10	30	38.0	22710.0622
M12	**50**	18	7.2	12	5.0	8.5	10	30	52.0	22710.0624
M12	**80**	18	7.2	12	44.0	8.5	10	30	79.0	22710.0626
M16	**40**	24	10.7	16	6.0	12.0	14	60	94.0	22710.0662
M16	**60**	24	10.7	16	6.0	12.0	14	60	120.0	22710.0664
M16	**80**	24	10.7	16	36.0	12.0	14	60	155.0	22710.0666
M20	**50**	30	13.5	20	7.5	15.0	17	90	183.0	22710.0702
M20	**80**	30	13.5	20	28.0	15.0	17	90	253.0	22710.0704
M20	**100**	30	13.5	20	48.0	15.0	17	90	303.0	22710.0706
M24	**60**	36	15.8	24	9.0	18.0	19	120	320.0	22710.0742
M24	**90**	36	15.8	24	30.0	18.0	19	120	421.0	22710.0744
M24	**120**	36	15.8	24	60.0	18.0	19	120	529.0	22710.0746
bearing surface plain , Stainless steel										
M 6	**20**	10	3.2	6	3.0	4.0	5	9	6.0	22710.0832
M 6	**30**	10	3.2	6	3.0	4.0	5	9	7.8	22710.0834
M 6	**40**	10	3.2	6	16.0	4.0	5	9	10.0	22710.0836
M 8	**20**	13	4.5	8	3.5	5.5	6	15	13.0	22710.0842
M 8	**35**	13	4.5	8	3.5	5.5	6	15	17.0	22710.0844
M 8	**50**	13	4.5	8	22.0	5.5	6	15	23.0	22710.0846
M10	**25**	16	6.0	10	4.5	7.0	8	20	24.0	22710.0852
M10	**40**	16	6.0	10	4.5	7.0	8	20	31.0	22710.0854
M10	**60**	16	6.0	10	28.0	7.0	8	20	44.0	22710.0856
M12	**30**	18	7.2	12	5.0	8.5	10	30	39.0	22710.0862
M12	**50**	18	7.2	12	5.0	8.5	10	30	53.0	22710.0864
M12	**80**	18	7.2	12	44.0	8.5	10	30	81.0	22710.0866
M16	**40**	24	10.7	16	6.0	12.0	14	60	93.0	22710.0872
M16	**60**	24	10.7	16	6.0	12.0	14	60	122.0	22710.0874
M16	**80**	24	10.7	16	36.0	12.0	14	60	155.0	22710.0876
bearing surface ribbed, Heat-treated steel										
M 8	**20**	13	4.5	8	3.5	5.5	6	15	12.0	22710.0892
M 8	**35**	13	4.5	8	3.5	5.5	6	15	17.0	22710.0894
M 8	**50**	13	4.5	8	22.0	5.5	6	15	23.0	22710.0896
M10	**25**	16	6.0	10	4.5	7.0	8	20	24.0	22710.0902
M10	**40**	16	6.0	10	4.5	7.0	8	20	31.0	22710.0904
M10	**60**	16	6.0	10	28.0	7.0	8	20	44.0	22710.0906
M12	**30**	18	7.2	12	5.0	8.5	10	30	38.0	22710.0922
M12	**50**	18	7.2	12	5.0	8.5	10	30	52.0	22710.0924
M12	**80**	18	7.2	12	44.0	8.5	10	30	79.0	22710.0926
M16	**40**	24	10.7	16	6.0	12.0	14	60	94.0	22710.0962
M16	**60**	24	10.7	16	6.0	12.0	14	60	120.0	22710.0964
M16	**80**	24	10.7	16	36.0	12.0	14	60	155.0	22710.0966
M20	**50**	30	13.5	20	7.5	15.0	17	90	183.0	22710.0972
M20	**80**	30	13.5	20	28.0	15.0	17	90	253.0	22710.0974
M20	**100**	30	13.5	20	48.0	15.0	17	90	302.0	22710.0976
M24	**60**	36	15.8	24	9.0	18.0	19	120	324.0	22710.0982
M24	**90**	36	15.8	24	30.0	18.0	19	120	423.0	22710.0984
M24	**120**	36	15.8	24	60.0	18.0	19	120	528.0	22710.0986

[1] Statements on load capacity are not valid for the stainless steel type.

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Compliance

RoHS-compliant
Compliant with Directive 2011/65/EU [RoHS].

Does not contain SVHC substances
No SVHC substances with more than 0.1% w/w contained - SVHC list [REACH] as of 04.02.2026.

SCIP-code
N/A

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.

POP-compliant
Contains no persistent organic pollutants – Stockholm Convention [POP] as of September 2025.

PFAS-compliant
Contains no per- and polyfluoroalkyl substances (PFAS).

TSCA-compliant
Agent concentration in this product does not exceed the specified threshold.