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Ball-Ended Thrust Screws • headless, with fine-pitch thread

EH 22720.



Product Description

Ball-ended thrust screws, headless with a fine-pitch thread, are used for positioning, clamping, tensioning and supporting components. They are particularly suitable for applications requiring precise adjustment of the screw position and fine adaptation to the installation situation.
Versions with a fully spherical or flat-faced ball are available depending on the required force transmission. Versions with a fully spherical ball provide point force transmission. Versions with a flat-faced ball distribute force over a larger surface area and compensate for non-parallel locating surfaces.
The headless design allows a variable screw penetration depth and space-saving integration into the assembly. Due to the smaller pitch of the fine-pitch thread, the axial adjustment travel per revolution is less than with a comparable standard thread. This allows the ball-ended thrust screw to be positioned in a precise and finely controlled manner.
The fully spherical ball provides targeted point force transmission. The movable, flat-faced ball adapts to non-parallel locating surfaces and distributes the force over a larger surface area of the component. The smooth bearing surface allows even and gentle force application.
This product group offers the following features and advantages:

- Fine-pitch thread for precise adjustment of the screw position
- Compact headless design
- Variable screw penetration depth to suit the installation situation
- Versions with a fully spherical ball for point force transmission
- Versions with a flat-faced ball for force transmission over a larger surface area
- Movable, flat-faced ball to compensate for non-parallel locating surfaces
- Smooth bearing surface for gentle force application
- Ball in hardened steel or hardened stainless steel
- Adjustment with a hexagon key
- Versions in steel or stainless steel

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.

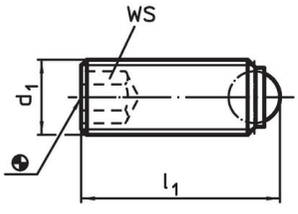
References

Thread lock on request.

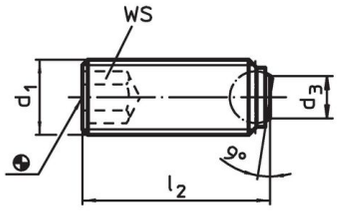
Further products

- Ball-Ended Thrust Screws, headless, ball protected against rotating
- Ball-Ended Thrust Screws, headless, round ball
- Ball-Ended Thrust Screws, headless, flat-faced ball

Drawing



picture 1



picture 2

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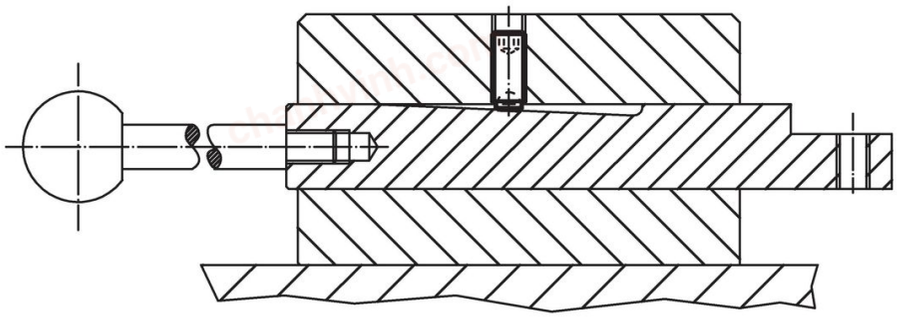
Order information

Dimensions d_1	l_1	l_2	d_3	Ball diameter [mm]	WS [mm]	Load capacity for static load[1] max. [kN]	max. [°C]	[g]	Art. No.
round ball – picture 1, Heat-treated steel									
M4 x 0,35	**6.0**	–	–	2.5	2.0	3.5	250	0.4	22720.5030
M4 x 0,35	**10.0**	–	–	2.5	2.0	3.5	250	0.6	22720.5032
M4 x 0,5	**6.0**	–	–	2.5	2.0	3.5	250	0.3	22720.5040
M4 x 0,5	**10.0**	–	–	2.5	2.0	3.5	250	0.6	22720.5042
M5 x 0,5	**8.0**	–	–	3.0	2.5	4.5	250	0.7	22720.5050
M5 x 0,5	**12.0**	–	–	3.0	2.5	4.5	250	1.2	22720.5052
M6 x 0,5	**10.8**	–	–	4.0	3.0	9.0	250	1.5	22720.5060
M6 x 0,5	**12.8**	–	–	4.0	3.0	9.0	250	1.9	22720.5061
M6 x 0,5	**16.8**	–	–	4.0	3.0	9.0	250	2.7	22720.5062
M6 x 0,5	**20.8**	–	–	4.0	3.0	9.0	250	3.4	22720.5063
M6 x 0,5	**25.8**	–	–	4.0	3.0	9.0	250	4.4	22720.5064
M8 x 1	**11.2**	–	–	5.5	4.0	15.0	250	2.5	22720.5070
M8 x 1	**21.2**	–	–	5.5	4.0	15.0	250	5.6	22720.5073
round ball – picture 1, Stainless steel									
M4 x 0,35	**6.0**	–	–	2.5	2.0	3.5	250	0.4	22720.6030
M4 x 0,35	**10.0**	–	–	2.5	2.0	3.5	250	0.7	22720.6032
M4 x 0,5	**6.0**	–	–	2.5	2.0	3.5	250	0.3	22720.6040
M4 x 0,5	**10.0**	–	–	2.5	2.0	3.5	250	0.6	22720.6042
M5 x 0,5	**8.0**	–	–	3.0	2.5	4.5	250	0.7	22720.6050
M5 x 0,5	**12.0**	–	–	3.0	2.5	4.5	250	1.2	22720.6052
M6 x 0,5	**10.8**	–	–	4.0	3.0	9.0	250	1.6	22720.6060
M6 x 0,5	**12.8**	–	–	4.0	3.0	9.0	250	1.9	22720.6061
M6 x 0,5	**16.8**	–	–	4.0	3.0	9.0	250	2.7	22720.6062
M6 x 0,5	**20.8**	–	–	4.0	3.0	9.0	250	3.5	22720.6063
M6 x 0,5	**25.8**	–	–	4.0	3.0	9.0	250	4.4	22720.6064
M8 x 1	**11.2**	–	–	5.5	4.0	15.0	250	2.6	22720.6070
M8 x 1	**21.2**	–	–	5.5	4.0	15.0	250	5.4	22720.6073
flat-faced ball, bearing surface plain – picture 2, Heat-treated steel									
M4 x 0,35	–	**5.6**	1.3	2.5	2.0	3.5	250	0.4	22720.5230
M4 x 0,35	–	**9.6**	1.3	2.5	2.0	3.5	250	0.7	22720.5232
M4 x 0,5	–	**5.6**	1.3	2.5	2.0	3.5	250	0.3	22720.5240
M4 x 0,5	–	**9.6**	1.3	2.5	2.0	3.5	250	0.6	22720.5242
M5 x 0,5	–	**7.5**	2.2	3.0	2.5	4.5	250	0.7	22720.5250
M5 x 0,5	–	**11.5**	2.2	3.0	2.5	4.5	250	1.2	22720.5252
M6 x 0,5	–	**10.0**	3.2	4.0	3.0	9.0	250	1.5	22720.5260
M6 x 0,5	–	**12.0**	3.2	4.0	3.0	9.0	250	1.9	22720.5261
M6 x 0,5	–	**16.0**	3.2	4.0	3.0	9.0	250	2.6	22720.5262
M6 x 0,5	–	**20.0**	3.2	4.0	3.0	9.0	250	3.4	22720.5263
M6 x 0,5	–	**25.0**	3.2	4.0	3.0	9.0	250	4.3	22720.5264
M8 x 1	–	**10.0**	4.5	5.5	4.0	15.0	250	2.5	22720.5270
M8 x 1	–	**20.0**	4.5	5.5	4.0	15.0	250	5.5	22720.5273
flat-faced ball, bearing surface plain – picture 2, Stainless steel									
M4 x 0,35	–	**5.6**	1.3	2.5	2.0	3.5	250	0.3	22720.6230
M4 x 0,35	–	**9.6**	1.3	2.5	2.0	3.5	250	0.7	22720.6232
M4 x 0,5	–	**5.6**	1.3	2.5	2.0	3.5	250	0.3	22720.6240
M4 x 0,5	–	**9.6**	1.3	2.5	2.0	3.5	250	0.6	22720.6242
M5 x 0,5	–	**7.5**	2.2	3.0	2.5	4.5	250	0.7	22720.6250
M5 x 0,5	–	**11.5**	2.2	3.0	2.5	4.5	250	1.2	22720.6252
M6 x 0,5	–	**10.0**	3.2	4.0	3.0	9.0	250	1.5	22720.6260
M6 x 0,5	–	**12.0**	3.2	4.0	3.0	9.0	250	1.9	22720.6261
M6 x 0,5	–	**16.0**	3.2	4.0	3.0	9.0	250	2.7	22720.6262
M6 x 0,5	–	**20.0**	3.2	4.0	3.0	9.0	250	3.5	22720.6263
M6 x 0,5	–	**25.0**	3.2	4.0	3.0	9.0	250	4.4	22720.6264
M8 x 1	–	**10.0**	4.5	5.5	4.0	15.0	250	2.5	22720.6270
M8 x 1	–	**20.0**	4.5	5.5	4.0	15.0	250	5.4	22720.6273

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

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Application example



Compliance

For detailed compliance information please select the desired article number.

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