

Bevel gear with spindle unit 3010/3011



Description

Universally applicable lifting unit with bevel gear head for linear drive solutions. Possible applications are height adjustable tables, various adjustment functions for furniture items as well as all manner of linear adjustment in residential and office fields. Simple screw fastenings enable a simple system structure and an uncomplicated assembly.

Special features

- Maintenance-free
- Ratio in direction of spindle 1.3:1
- Drive torque on gear head for application with several spindle units: max. 3 Nm
- Housing made of glass fiber reinforced plastic
- Hardened steel bevel wheels with robust, reinforced toothing
- Designed for the manual operation
- Variable number of bevel gears for deflection of movement and freely selectable drive position
- Upon request other spindle types can be supplied

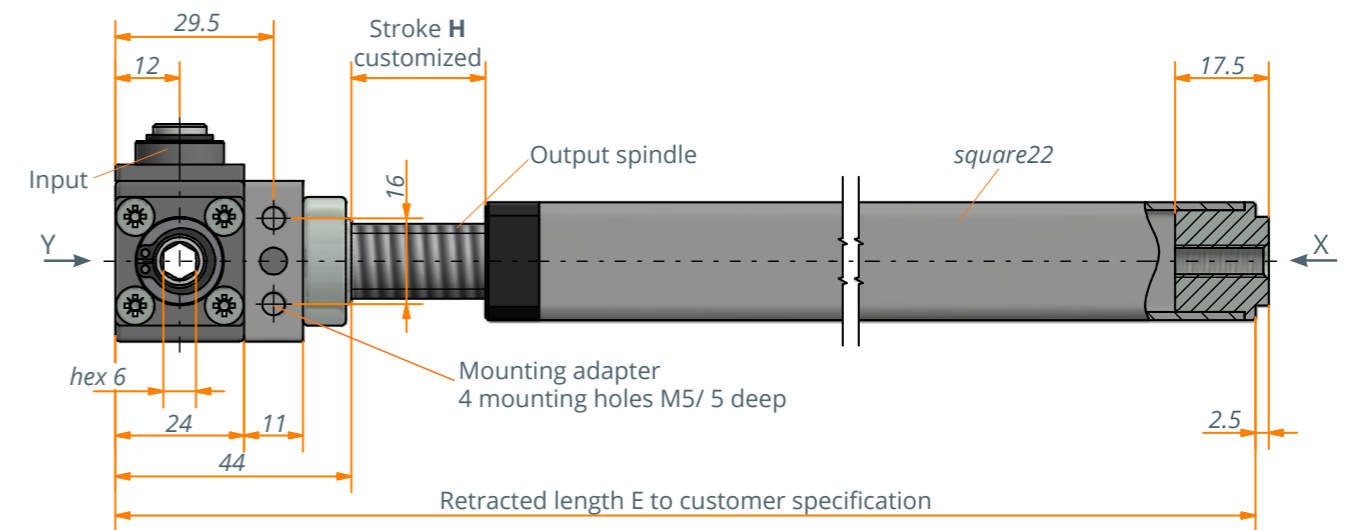
Variant key

- 3010: variants with right rotating spindles
- 3011: variants with left rotating spindles

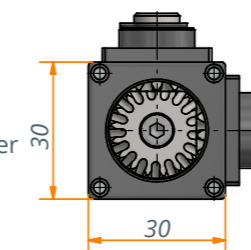
Technical data

Model	3010	3011
Ratio in direction of spindle	1.3:1	1.3:1
Ratio in direction of deflection	1:1	1:1
Input	hex 6 mm	hex 6 mm
Number of bevel wheels	max. 5	max. 5
Type of spindle	TR14x3 RH	TR14x3 LH
Travel path	2.3 mm/rotation	2.3 mm/rotation
Max. Stroke	retracted length -99 mm	retracted length -99 mm
Max. lifting force	1200 N	1200 N
Required drive torque	1.7 Nm	1.7 Nm
Max. drive torque gear head for several spindle units*	3 Nm	3 Nm

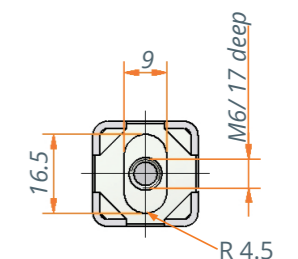
* See technical notes



View Y



View X (Rotation stop)



Number of bevel gears for deflection of movement and the drive position are customer specific

Technical notes

- The lifting units must be protected against lateral forces by a separate guide system.
- Attention: The spindle systems with a spindle pitch ≥ 3 mm may not be self-locking. Check the self-locking effect in the application.
- The lifting unit is only pressure loadable.
- If several lifting units are being used simultaneously in the application, note the max. drive torque on gear head of 3 Nm!
- Incorrect dimensioning of the guide system can damage the lifting unit: Please note the design and safety instructions for spindle drives. You will find them at: <https://www.ketterer.de/en/downloads/instructions>

Application example

