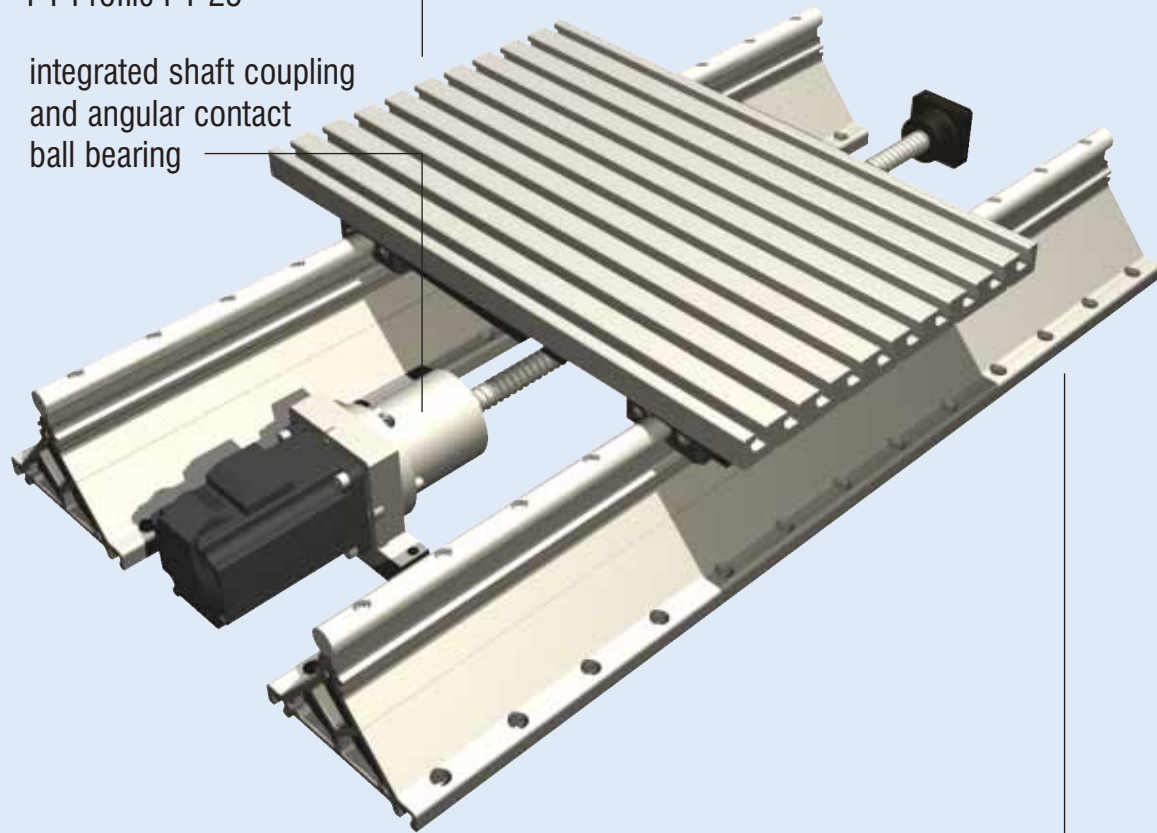


APPLICATION SAMPLE: direct driven ballscrew spindle

PT-Profile PT 25

integrated shaft coupling  
and angular contact  
ball bearing



Linear Guide ILF 3 with Steel Shaft Ø 16 mm // Steel Slide Block ILS 1

*From the Component to the System.*

MECHANICS

ELECTRONICS

SOFTWARE

MECHA-TRONICS

SOFT-TRONICS

SYSTEMS-APPLICATIONS

product info: +46 (0) 40 / 536600 // email: [solectro@solectro.se](mailto:solectro@solectro.se) // [www.solectro.se](http://www.solectro.se)

**SOLECTRO AB** // Mechanics  
Tenngatan 6 - 8 // SE-234 35 Lomma // Sweden

MECHANICS

ELECTRONICS

SOFTWARE

SYSTEMS

4

## Linear Drives

1

Aluminium Profiles

2

Machine Frames

3

Linear Guides

Linear Drives

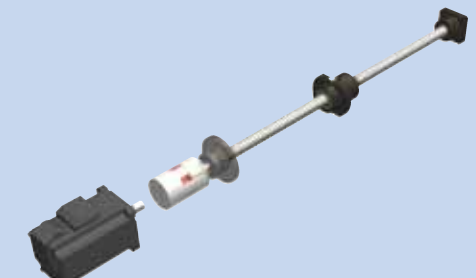
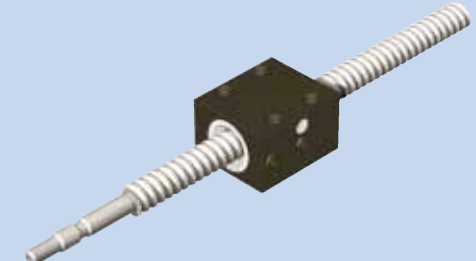
4

Linear Units

5

Rotary Units

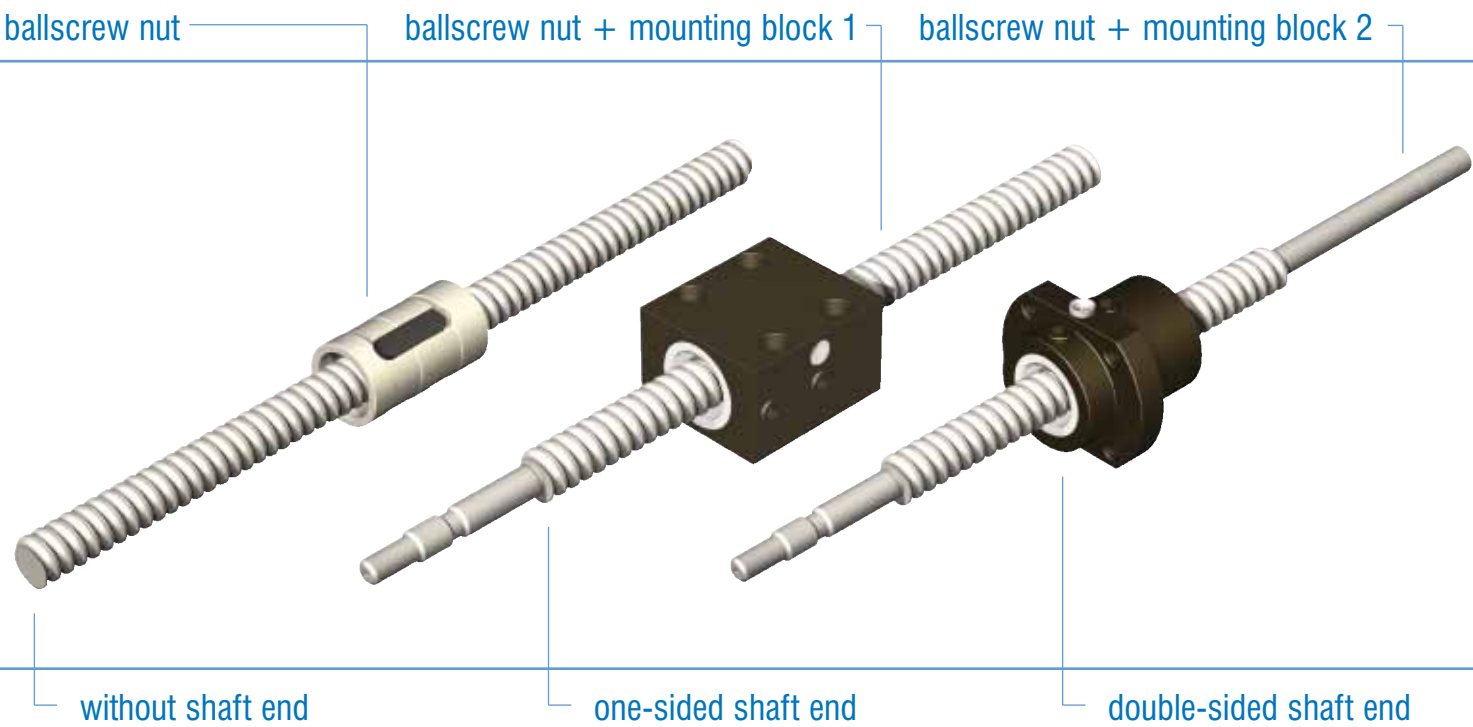
6



# Product Overview Linear Drives (available in lengths up to 3050 mm)

## Ballscrews

**Ø 16 mm**, rolled, hardened, polished // pitch: 2,5 / 4 / 5 / 10 or 20 mm  
**Ø 25 mm**, rolled, hardened, polished // pitch: 5 / 10 or 20 mm



## Information

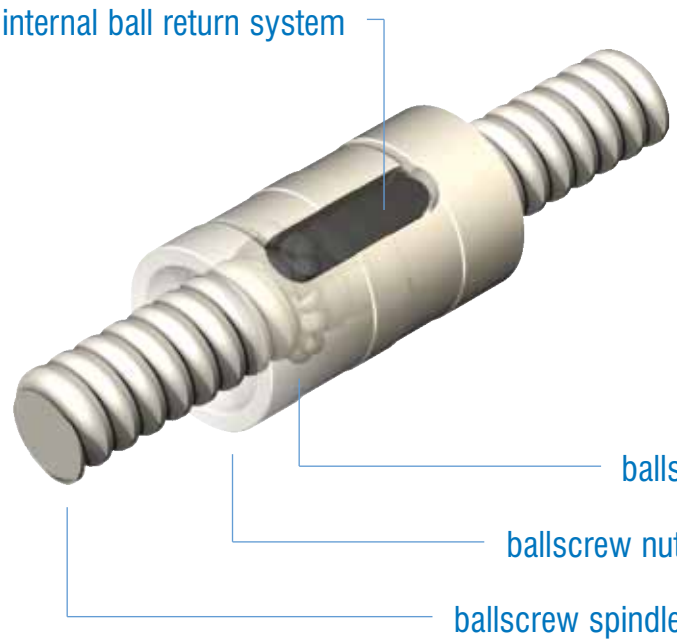
ballscrew nut, ballscrew spindle, mounting block, clearance-free adjustment, repeatability, lubrication, production ..

Our ballscrew nuts are of high quality, precise and wear resistant (hardened and grinded). Together with our ballscrew spindles they turn a rotation into a longitudinal motion or reversed.

After the ballscrew nut is inserted in the mounting block it is positioned and fastened with a stud screw. The ballscrew nuts have several ball tracks with an internal ball return system. The adjusting screw in the mounting block allows a clearance-free adjustment between nut and spindle. The repeatability amounts less than 0,01 mm on a length of 300 mm. For the lubrication of the linear drive there is a central lubrication option mounted on the mounting block.

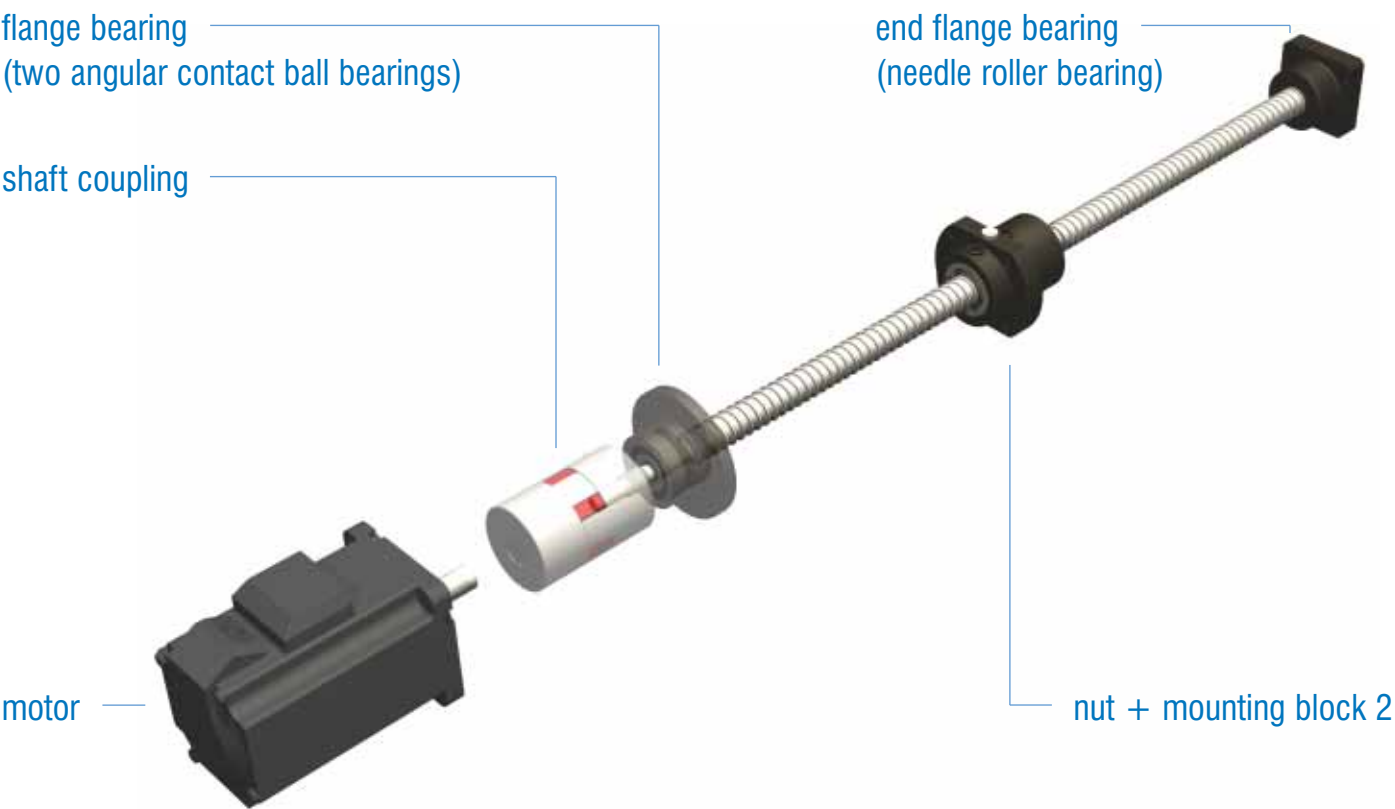
Our ballscrew spindles are produced on modern machines in rolled version, hardened and polished afterwards.

Our linear drives are technically mature and have been well-established for over 20 years.



## Linear Drives

When linear drives are used most of the time the ballscrew spindle is either driven directly or over a serrated belt ..



## Attachments

**shaft coupling**: compensation of mismatching shaft ends ..  
**flange bearing**: linear drive bearing ..

| shaft coupling                                                                                                                                                                                                                          | toothed rim                                                                           | flange bearing                                                                        | end flange bearing                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                                                                                                                    |  |  |  |
| Set consisting of two aluminium coupling-parts, three toothed rims (86°, 92°, 98° Shore) and corresponding clamping screws.<br><b>WK 30/40</b> for shaft-diameter from 6 to 13 mm<br><b>WK 40/60</b> for shaft-diameter from 8 to 18 mm |                                                                                       | Bearing bush with two angular contact ball bearings in an “O” arrangement ..          | Bearing bush with needle roller bearing ..                                            |