

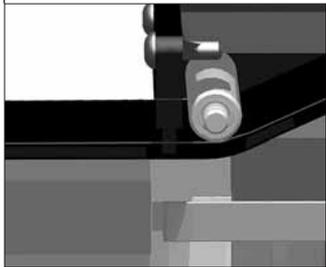
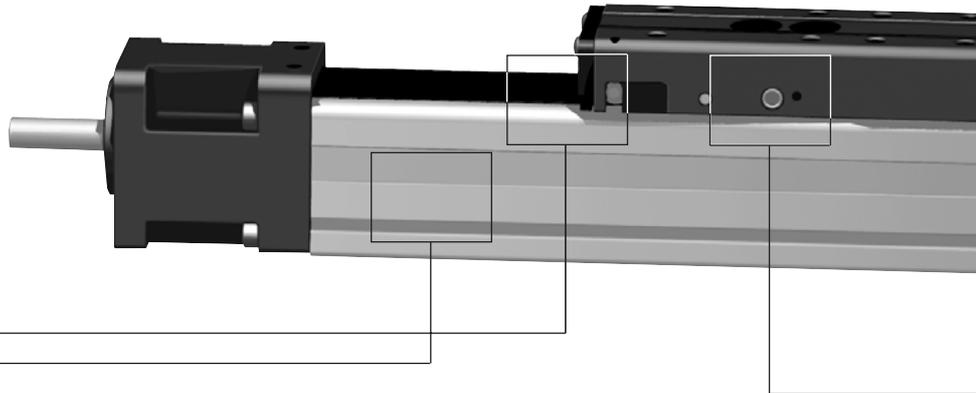
# WIESEL *POWERLine*<sup>®</sup>, WIESEL *DYNALine*<sup>®</sup> with ball screw drive

Innovative solutions, down to the very last detail

## WIESEL *POWERLine*<sup>®</sup>

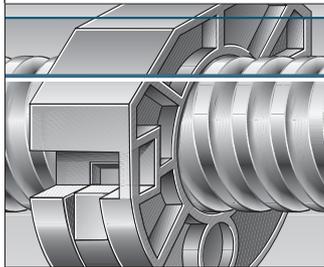
### WM40

The linear drive unit for miniaturized applications. High performance with extremely small dimensions. The NEFF ball screw drive in combination with the high precision linear guide allows precise positioning.



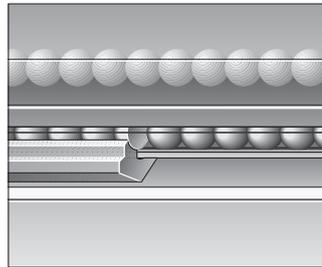
#### Patented sealing strip

The patented sealing strip protects the mechanism effectively from dirt. The friction for the deviation of the sealing strip is reduced to a minimum.



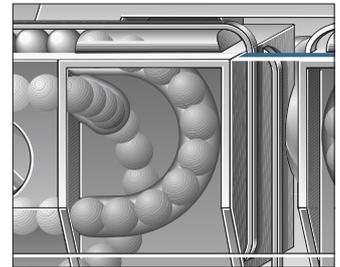
#### Screw support

The patented screw support system permits high speeds (max. input speed) at long strokes.



#### Well proven and patented guide system\*

The high-performance linear ball-recirculating guide with hardened steel running tracks has been integrated into the aluminium profile. Optimum introduction of forces permits maximum force and torque, as well as optimizing the tensile stresses.

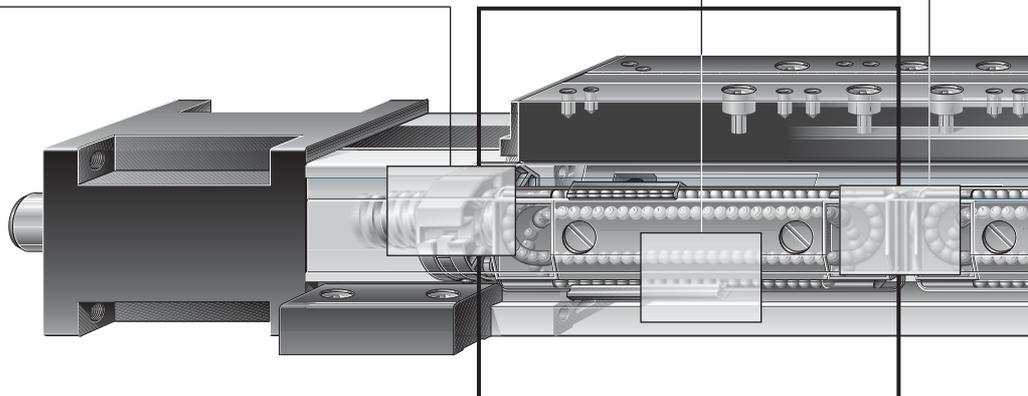


#### Ball cage\*

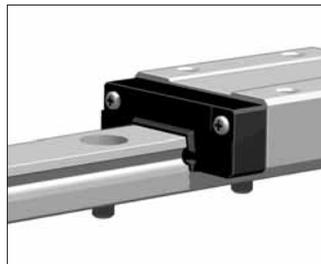
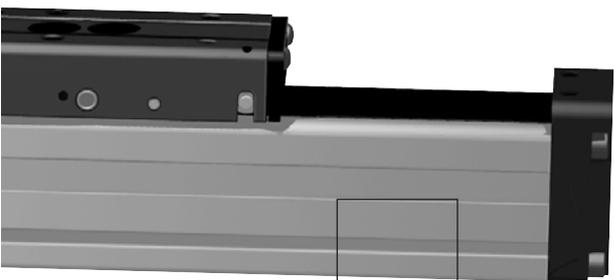
The balls of the linear guides are protected by a ball cage. They can be replaced quickly and safely.

## WIESEL *POWERLine*<sup>®</sup> WM60, WM80, WM120

The WIESEL *POWERLine*<sup>®</sup> is an extremely powerful linear drive unit with ball screw drive and integrated ball-recirculating guide. It allows high feed forces and load moments in all directions.

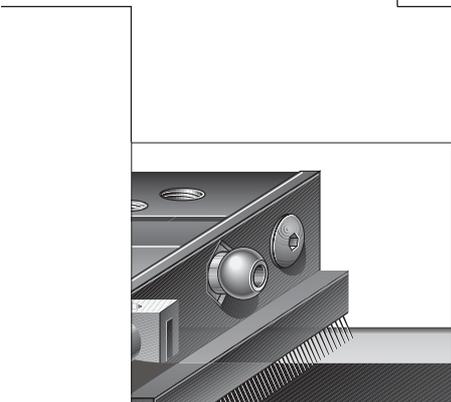


WIESEL *POWERLine*<sup>®</sup> detail



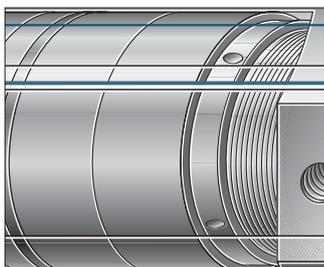
### Linear guides

Precise positioning is made possible by a polished linear guide with a high degree of guide accuracy. A small motor can be added thanks to the low coefficient of friction. Rubber wipers protect the mechanism from dirt, thus increasing service life.



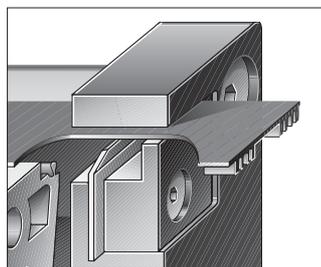
### Central lubrication – a standard feature.

The drive and guide systems are conveniently relubricated from a central point on the power bridge. Whether by hand or automatically, maintenance is now a simple matter.



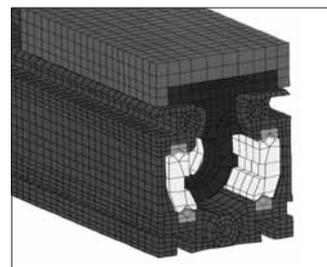
### Optimized ball screw drive

The pre-tensioning of the nut unit can be adjusted by the NEFF service. This increases the lifetime of the axis.



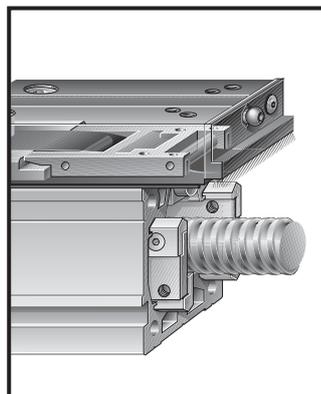
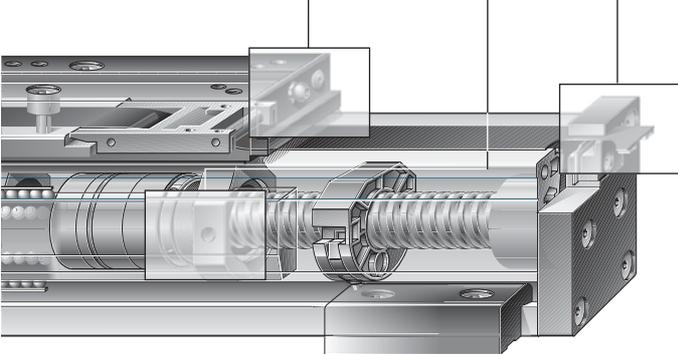
### Self-adjusting third-generation cover strip

The patented cover strip reliably protects the mechanical parts against excessive dirt and is retensioned automatically. Result: the maintenance effort is reduced to virtually zero.



### FEA-optimized design

Both the profile and the entire linear drive unit have been modeled and optimized by finite element analysis (FEA). Result: maximum performance density and reliability.



### WIESEL DYNA<sup>Line</sup> WV60, WV80, WV120

WIESEL DYNA<sup>Line</sup> permits high feed forces, even in combination with long stroke lengths and high speeds. The supported, covered ball screw must be used in combination with external linear guides.

\*only applies to **POWERLine**