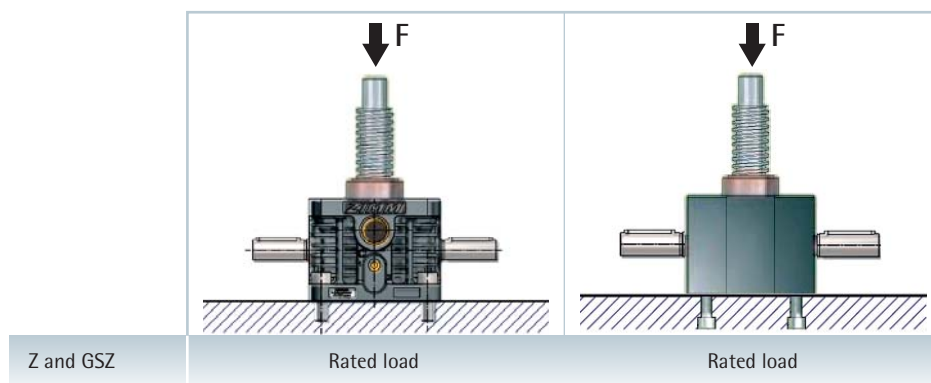


Permissible loads - fixed

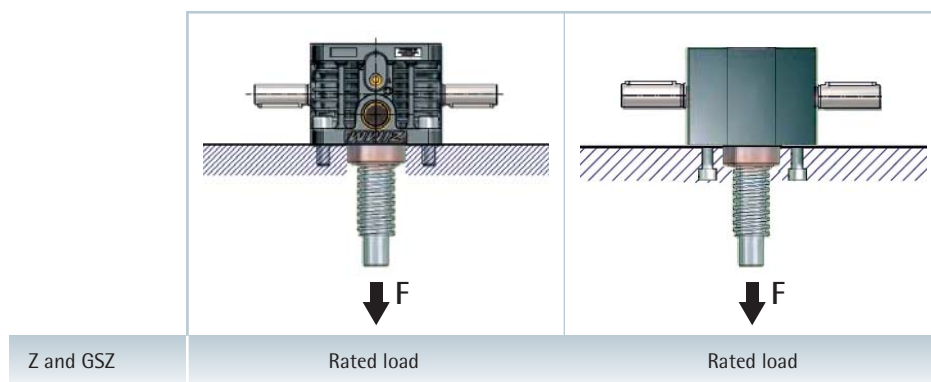
The screw jacks themselves are specified for full static nominal load under tension and compression. The permissible load depends on the type of fastening.

Compressive load



Full rated load
The gearbox can accept the full static rated load.

Mounting plate with tensile load

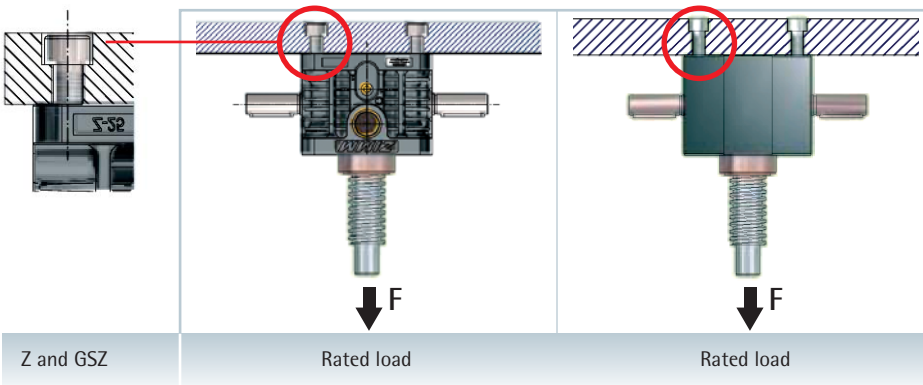


Full rated load
The gearbox can accept the full static rated load.



Permissible loads - fixed

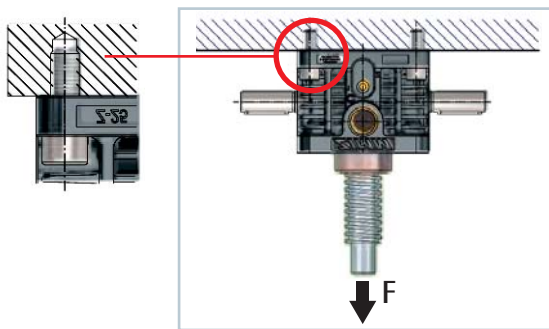
Tensile load on the fixing screws (blind tapped holes) - Z and GSZ



Full rated load
 Providing the screw-in depth is maintained and the screws are tightened to the full tightening torque, the full rated load is permissible.

Gearbox	Thread*	Screw-in depth [mm]	Tightening torque [Nm]
GSZ-2	M6	8 to 10	8
GSZ-5, Z-5	M8	10 to 11.5	19
GSZ-10, Z-10	M8	10 to 15	17
GSZ-25, Z-25	M10	12 to 15	27
GSZ-50	M12	12 to 17	38
GSZ-100	M16	16 to 20	82

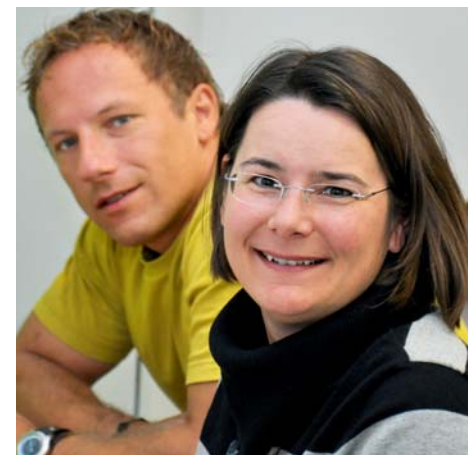
Tensile load on the fixing screws (through holes in the housing)



Reduced load
 If the fixing screws on the housing are loaded in tension, only reduced loads are permissible.

Gearbox	Permissible load	with fixing screws*
Z-5	2.5 kN	-
Z-10	3.5 kN	-
Z-25	10.0 kN	-
Z-35	29.8 kN	-
Z-50	27.5 kN	-
Z-100	27.0 kN	-
Z-150	56.5 kN	-
Z-250	70.0 kN	Rated load 250 kN
Z-350	180.0 kN	Rated load 350 kN
Z-500	110.0 kN	Rated load 500 kN
Z-750	210.0 kN	Rated load 750 kN
Z-1000	on request	Rated load 1000 kN

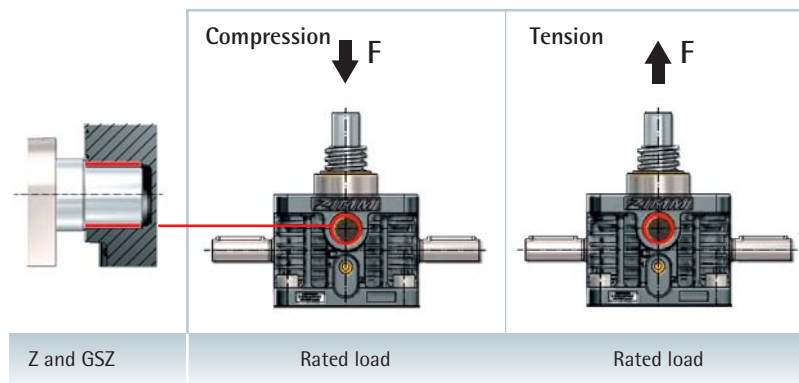
*Through holes and blind tapped holes, dimension sheet and screw-in depth on request.



Permissible loads - pivoting

When dimensioning, include all the parts you will use

Z-5 to Z-25 - Pivot bearing in the housing



Z-5 to Z-25 - Pivot mounts LB

	Compression ↓ F	Tension ↑ F	90° ← F → F	45° ↗ F ↘ F
Z-5 (Z-5/10-LB)	Rated load 5 kN	Rated load 5 kN	Rated load 5 kN	Rated load 5 kN
Z-10 (Z-5/10-LB)	Rated load 10 kN	Rated load 10 kN	7 kN	6.5 kN
Z-25 (Z-25-LB)	19.5 kN	17.5 kN	10 kN	9.5 kN

Z-5 to Z-25 - Pivot bearing plate KAR

	Compression ↓ F	Tension ↑ F	Compression ↓ F	Tension ↑ F
Z-5-KAR	Rated load 5 kN	2.5 kN	2.5 kN	Rated load 5 kN
Z-10-KAR	Rated load 10 kN	3.5 kN	3.5 kN	Rated load 10 kN
Z-25-KAR	Rated load 25 kN	10 kN	10 kN	Rated load 25 kN

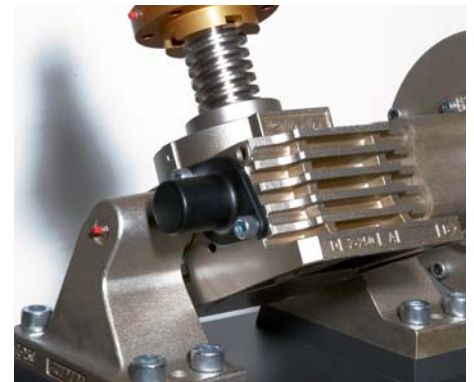
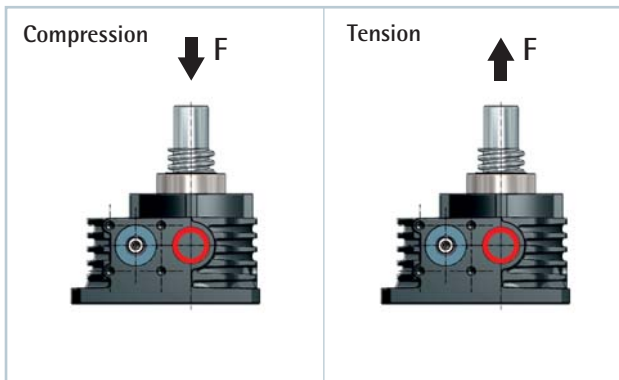
Direction of loading

The direction of loading should be selected so that the gearbox is pressed against the pivot bearing plate. When the load is in the opposite direction, reduced load values apply.

Permissible loads - pivoting

The gearbox housing is relevant to the specification.
The pivot mounts Z-35 to Z-1000 are specified for the full rated load in both directions.

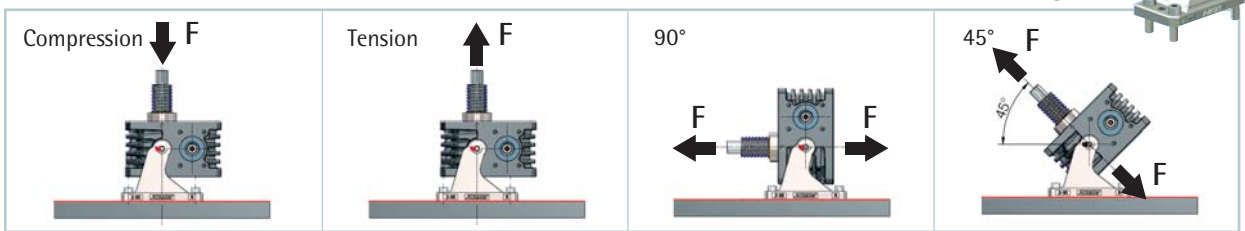
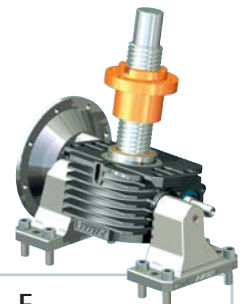
Z-35 to Z-1000 – Pivot bearing in the housing



Z-35	Rated load	35 kN	Rated load	35 kN
Z-50	Rated load	50 kN	Rated load	50 kN
Z-100	Rated load	100 kN	Rated load	100 kN
Z-150	Rated load	150 kN	Rated load	150 kN
Z-250		177 kN	Rated load	250 kN
Z-350		250 kN		260 kN
Z-500		280 kN		310 kN
Z-750		on request		on request
Z-1000		on request		on request

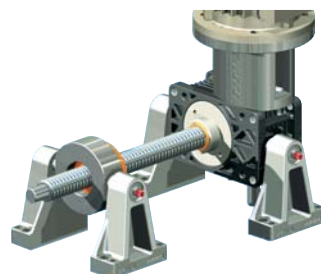
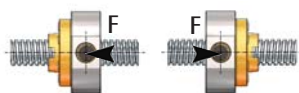
Z-35 to Z-1000 – Pivot mount LB

From Z-500 the gearbox is mounted the opposite way round, since the footplate is broader than the rest of the housing:



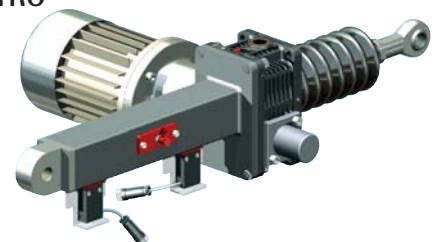
Z-35 to Z-1000	Rated load	Rated load	Rated load	Rated load
----------------	------------	------------	------------	------------

Duplex nut adapter DMA



Main direction of loading
Select the main direction of loading so that tensile loads on the nut are avoided.

Support tube STRO



In compression the full rated load permissible. In tension the support tube should be subjected only to limited loads.