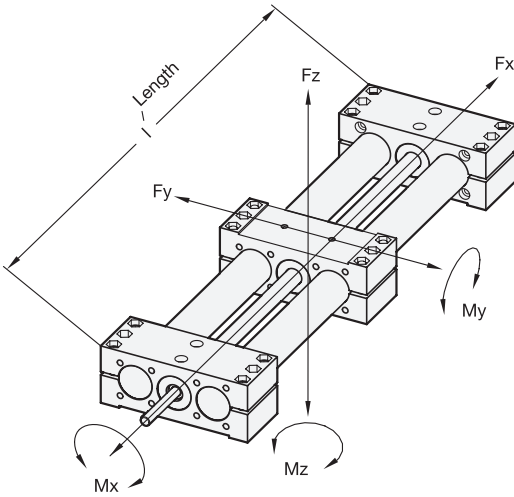


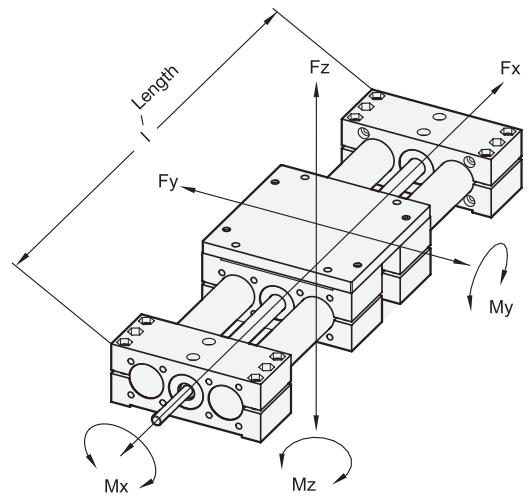
# Double tube linear actuators

## Technical description

GN 491



GN 492



d	Fx	Fy in N for length l =			Fz in N for length l =			Mx	My	Mz
GN 491	in N	500	1000	1500	500	1000	1500	in Nm	in Nm	in Nm
18	425	215	110	-	105	80	-	22	35	40
30	850	1100	900	550	600	350	150	100	100	100
40	1100	3700	2800	1400	2100	600	130	150	140	170
50	1900	3850	2400	2100	3100	700	200	180	220	290
60	2700	6900	2700	5100	6300	2800	360	320	350	500

d	Fx	Fy in N for length l =			Fz in N for length l =			Mx	My	Mz
GN 492	in N	500	1000	1500	500	1000	1500	in Nm	in Nm	in Nm
18	425	290	180	-	140	105	-	42	50	75
30	850	1550	1300	800	700	550	250	150	150	200
40	1100	6400	3400	1900	2400	750	230	180	210	260
50	1900	7500	5100	2700	3400	850	340	250	350	530
60	2700	11500	9500	8200	7500	3100	610	550	650	980

The specified forces  $F_y$  and  $F_z$  cause a flexure of the guide tube of approx. 0.5 mm.

### DESCRIPTION

The slider is moved via a bearing-type trapezoidal thread spindle and a guide nut. The slider is guided through two parallel chrome-plated tubes, resulting in a high load capacity and allowing high bending moments to be compensated by the linear actuator.

For type GN 492 (see page 1952), a second slider and an adapter plate extend the options for applications.

These double tube linear actuators have been designed for manual operation (handwheel). With the appropriate lubrication, they can also absorb rotary spindle speeds of as much as 250 rpm.

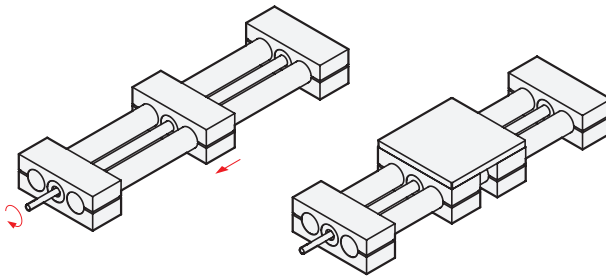
The positioning accuracy is 0.2 mm / 300 mm travel, the maximum reverse play is 0.1 mm.

To measure the adjustment or the positioning, digital position indicators DD52R (see page 721) / DD51 (see page 718) / DD52R-E (see page 726) / DD51-E (see page 722) may be attached. The required extension of the shaft journal is enabled by installation kits GN 491.1 (see page 1955).

Further information see on the standard pages of GN 491 (see page 1948) / GN 492 (see page 1952).

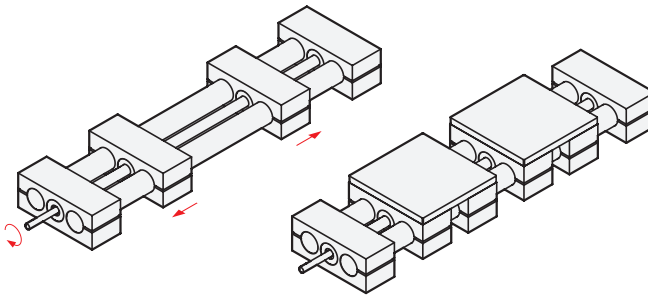
# Double tube linear actuators

## Technical description



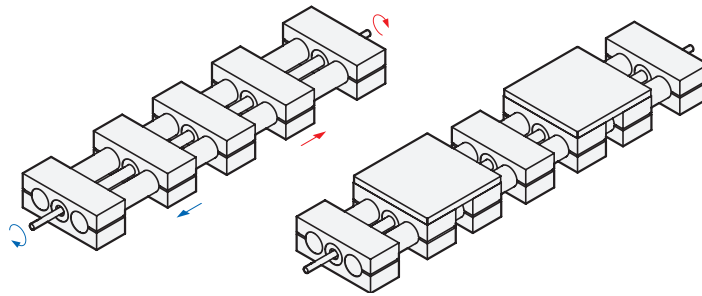
GN 491

GN 492



GN 493

GN 494



GN 495

GN 496

### DESCRIPTION

Double tube linear actuators

**GN 491 / GN 492**

(see page 1948 / see page 1952)  
with right or left hand thread,  
single shaft end or two shaft ends.

### DESCRIPTION

Double tube linear actuators

**GN 493 / GN 494**

with right and left hand thread,  
single shaft end or two shaft ends,  
both sliders move symmetrically.

On request:  
Double tube linear actuators

**GN 493 / GN 494**

### DESCRIPTION

Double tube linear actuators

**GN 495 / GN 496**

with two separate spindles,  
each with right or left hand thread, both  
sliders move independently of each  
other.

On request:  
Double tube linear actuators

**GN 495 / GN 496.**

