Linear system GGT/K 90



SPINDLE DRIVEN

DC SLIDE UNIT

LIFTING SYSTEM

IF DESIGN AWARD 2017

EASY CLEANING

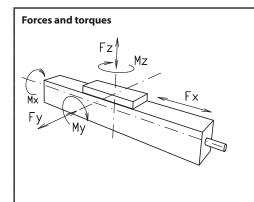


Function:

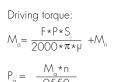
Optimized spindle axis for wheelchair lifting systems, lifting platforms and other lifting applications. The guide body consists of an aluminium square profile with an integrated sliding guide. The plastic slide bushes integrated in the carriage ensure a very low friction resistance on anodized aluminium. The carriage is moved by means of a rotating thread spindle with an assigned follower nut. The opening in the guide body is closed by a plastic cover band. This plastic cover band is abrasion-free and is pressed into the profile by means of ball bearings.

Fitting position: As required. Max. length 3.000 mm **Carriage mounting:** By tapped holes in the carriage.

Unit mounting: By T-slots or tapped holes in the bearing block and mounting sets.



	Size	GGT/K 90			
	Forces / Torques	static	dynamic		
	F _x (N)	4200	3500		
	F _v (N)	1000	900		
	$F_z(N)$	1125	1000		
	M _x (Nm)	82	75		
	M _v (Nm)	220	200		
	M _z (Nm)	165	150		
All forces and toro	ques relate to the following:				
existing values table values	$\frac{Fy}{Fy_{dyn}} + \frac{Fz}{Fz_{dyn}} + \frac{Mx}{Mx_{dyn}} + \frac{My}{My_{dyn}}$	+			
No-load torque					
	Trapezoidal thread	24x5	24x10		
·	(Nm)	0,50	0,80		
	Ballscrew	25x5	25x10		
	(Nm)	0,40	0,60		

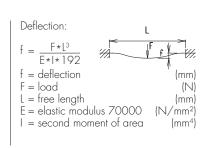


Efficiency of lead screws:
All ballscrew 0,900
Tr 24x5 0,384
Tr 24x10 0,550

Geometrical moments of inertia of aluminium profile

l_x mm²

l_y mm⁴ Elastic-modulus N/mm²



11,05x10⁵

23,60x10⁵

70000

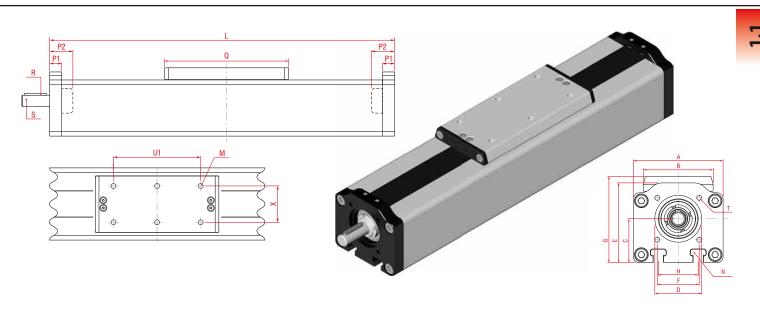
For the diagram for critical speeds of lead screws refer to chapter 4.2











*For slide nuts refer to chapter 2.2 page 2

Increasing the carriage length will increase the basic length by the same amount.

	Basic						_					\Box			9	_			Doois	Wainba	
Size	length L	A	В	С	-0,05	E	G	G	H	М	N for	P1	P2	2 Q	R key	S Ø h6 x length	for	U1	Х	Basic weight	Weight per 100 mm
GGT/K 90	242	90	78	44	47	80	42	87	40	M8	M8	15	36	170	5x5x28	14x35	M6	120	50	4,5 kg	1,134 kg



(T) Trapezoidal thread (K) Ballscrew

1 Selection of screw:

(1) right hand (Standard) (2) left hand (Ballscrew by inquiry)

O Choice of guide body profile:

(0) Standard (1) corrosion-protected screws

(4) expanded corrosion-protected version (depending on the availability of components)

O Choice of carriages:

(0)

O Drive version:

(0) right (locating bearing side) (1) left (non-locating bearing side) (2) shaft on both sides

O Selection of screw:

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	Size	Standard	Multistart screw	Standard	Multistart screw					
					Tr = trapezoidal thread / Kg = ballscrew					
	90	(0) Tr 24x5	(1) Tr 24x10	(0) Kg 25x5	(1) Kg 25x10 (2) Kg 20x20					

Ballscrew pitch accuracy: (only ballscrew)

(0) 0,05 mm / 300 mm **(2)** 0,025 mm / 300 mm

6 End play of ball nut: (only ballscrew)

(0) 0,04 mm (Standard), **(1)** < 0,02 mm, **(2)** 2% apply prestress

GG T 90 1 0 0 0 0 1 500 Basic length + stroke = total length

Sample ordering code:

GGT 90, trapezoidal thread right hand thread, standard body profile, carriage version 0, drive version 0, spindle Tr 24x5, 1258 mm stroke









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