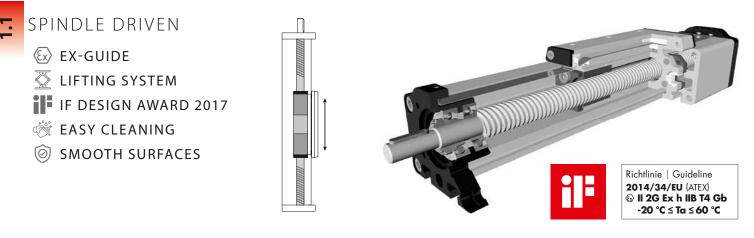
Linear system **GGK 90** 🐼



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 cover band. This cover band prevents dust and dirt from getting inside, it also offers a high level of safety and protects against hand injuries.

The products can be used as follows, according to the marking:

a) In Zone 2 (Gas, Category 3G, EPL Gc) in explosion groups IIA and IIB b) In Zone 1 (Gas, Category 2G, EPL Gb) in explosion groups IIA and IIB The qualification with regard to the surface temperature is T4; for all gases, vapours and mists with an ignition temperature > 125 °C the product is not an ignition source.

Fitting position:	As required. Max. length 1.500 mm
Carriage mounting:	By tapped holes in the carriage.
Unit mounting:	By T-slots or tapped holes in the bearing block and mounting sets.

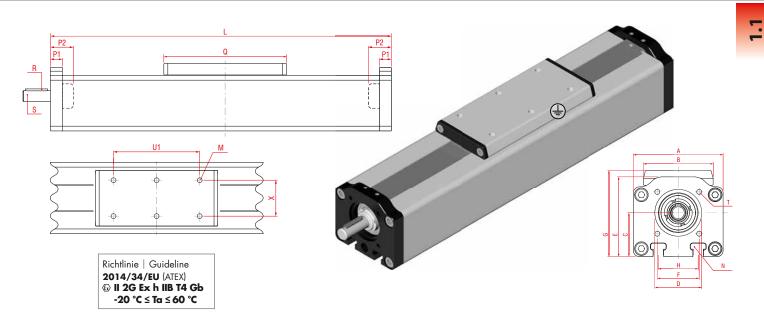
Forces and torques	Size		90			
	Forces / Torques	static	dynamic			
Fz∱	F _x (N)	1000	1500			
, Mz	F _v (N)	1000	900			
	F _z (N)	1125	1000 62 165			
Mx Fx	M _x (Nm)	67				
	M _v (Nm)	180				
Fy My	M, (Nm)	135	124			
	existing values $\frac{Fy}{Fy_{dyn}}$ + $\frac{Fz}{Fz_{dyn}}$ + $\frac{Mx}{Mx_{dyn}}$ +	− $\frac{My}{My_{dyn}}$ + $\frac{Mz}{Mz_{dyn}}$ ≤1				
	No-load torque					
	Ballscrew	2	25x10			
	(Nm)	0	0,60			
	Geometrical moments of inertia of aluminium profile	2				
	l _x mm ⁴	11,0	05x10⁵			
	l _y mm⁴	23,6	23,60x10 ⁵			
	Elastic-modulus N/mm ²	70	70000			

$P_{a} = \frac{N_{a}}{9550}$ $M_{n} = \text{no-load torque} (Nm)$ $n = \text{rpm of screw} (min^{-1})$ $M_{a} = \text{driving torque} (Nm)$ $\mu = \text{screw efficiency}$ $P_{a} = \text{motor power} (KW)$ $F = \text{load} (N)$ $L = \text{free length} (mm)$ $E = \text{elastic modulus 70000} (N/mm^{2})$ $I = \text{second moment of area} (mm^{4})$	Driving torque: $M_{a} = \frac{F * P * S_{i}}{2000 * \pi * \mu} + M_{n}$ $P_{a} = \frac{M_{a} * n}{9550}$	n = rpm of screw $M_{\mu} = driving torque$ $\mu = screw efficiency$	(min ⁻¹) (Nm)	Efficiency of lead screws: All ballscrew 0,900	E = elastic modulus 70000 (N/mm2)
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*For slide nuts refer to chapter 2.2 page 2

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

Size	Basic						-									Shaft	_			Daria	
	length L	A	В	c	D -0,0		F	G	н	^	M for	P1	P2	Q	R key	S Ø h6 x length	T for	U1	х	Basic weight	Weight per 100 mn
GGKex 90	242	90	78	44	47	7 80	42	87	40	Ν	/18 M8	15	36	170	5x5x28	14x35	M6	120	50	4,5 kg	1,134 kg
	ipindle: K) Ballscrev] s (1	Selection of screw: (1) right hand (Standard) (2) left hand (by inquiry)									• • • • • • • • • • • • • • • • • • •	Safety-related limits:• max. input speed1500 min-1• min. input torque4 Nm• max. starting torque12.5 Nm• max. starting torque12.5 Nm• max. static lifting power1000 N• max. dynamic lifting power1500 N• Operating modesS1• up to 120 full strokes per hour, evenly distributed• stroke length250 mm1500 mm• Velocity0.005 ms-1 0.5 ms-1• ambient temperature range-20 °C < Ta < 60 °C								
					_		CKOW	oitch	accu	ra	cy:				Γ	Preset dispe	nsing	time		Activa	tion time
					0	Balls	ciew														
					0		,05 mm		0 mm	١					-	1 mo	nth			1	day
					0				0 mm	١					-	1 mo 3 moi	-		-		day
					0) (0) 0		n / 30							-		nths			5	

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GGKex 90, ballscrew right hand, standard body profile, carriage version 0, drive version 0, spindle Kg 25x10, 1258 mm stroke

Modultechnik

