

T130

Ball Screw Drive, Slide Guide

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General Specifications

Parameter	T130
Profile size (w × h) [mm]	130 × 130
Type of screw	ball screw with single nut
Protection class	IP65
Lubrication	One point lubrication of ballscrew
Included accessories	–

Performance Specifications

Parameter		T130
Stroke length (S max), maximum	[mm]	2000
Linear speed, maximum	[m/s]	2,0
Acceleration, maximum	[m/s ²]	8
Repeatability	[± mm]	0,05
Input speed, maximum	[rpm]	
screw lead 10 mm		2500
screw lead 20, 40 mm		3000
Operation temperature limits	[°C]	- 20 – 70
Dynamic load (F _x), maximum	[N]	
screw lead 10 mm		40000
screw lead 20 mm		35000
screw lead 40 mm		15000
Dynamic load (F _y), maximum	[N]	800 ¹
Dynamic load (F _z), maximum	[N]	800 ¹
Dynamic load torque (M _y , M _z), maximum	[Nm]	300 ¹
Drive shaft force (F _{rd}), maximum	[N]	3000
Drive shaft torque (M _{ta}), maximum	[Nm]	140
Ball screw diameter (p)	[mm]	40
Ball screw leads (d ₀)	[mm]	10, 20, 40
Weight	[kg]	
of unit with zero stroke		18,50
of every 100 mm of stroke		3,00
of the rod with zero stroke		1,25
of every 100 mm of rod		0,77

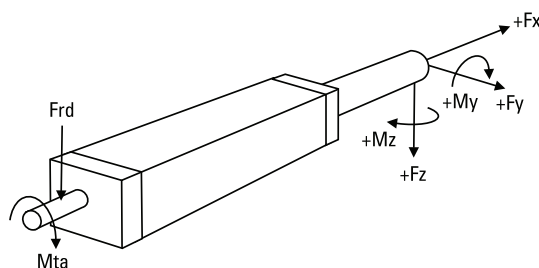
¹ Value for the complete unit

Rod Idle Torque (M_{idle}) [Nm]

Input speed [rpm]	Screw lead [mm]		
	p = 10	p = 20	p = 40
500	4,5	4,5	5,5

M_{idle} = the input torque needed to move the rod with no load on it.

Definition of Forces



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