

Linear Motion System Description Key

$F_{(x,y,z)_{max}}$	[N]	maximum rated external static load
$F_{(x,y,z)}$	[N]	actual external static load
F_R	[N]	maximum rated load / roller - radial (1500 N)
F_A	[N]	maximum rated load / roller - axial (750 N)
$M_{(x,y,z)_{max}}$	[Nm]	maximum rated static torque load
a_{max}	[m/s ²]	maximum rated acceleration
X	[m]	distance between rollers in direction of motion
Y	[m]	distance between rollers perpendicular to direction of motion
A	[m]	extrusion width between rollers
g	[m/s ²]	gravitational acceleration (approx. 9.81 m/s ²)
m_1	[kg]	mass of carriage and lever
m_2	[kg]	mass of mounted parts
F_{req}	[N]	required drive power
$M_{d_{hor req}}$	[Nm]	required drive torque in horizontal direction
$M_{d_{ver req}}$	[Nm]	required drive torque in vertical direction
L_1	[m]	distance of center of gravity of carriage plate and lever
L_1	[m]	distance of center of gravity of mounted parts and/or distance of forces F (x,y,z)

	LIN 1501	LIN 2001
Y	0.1	0.15

