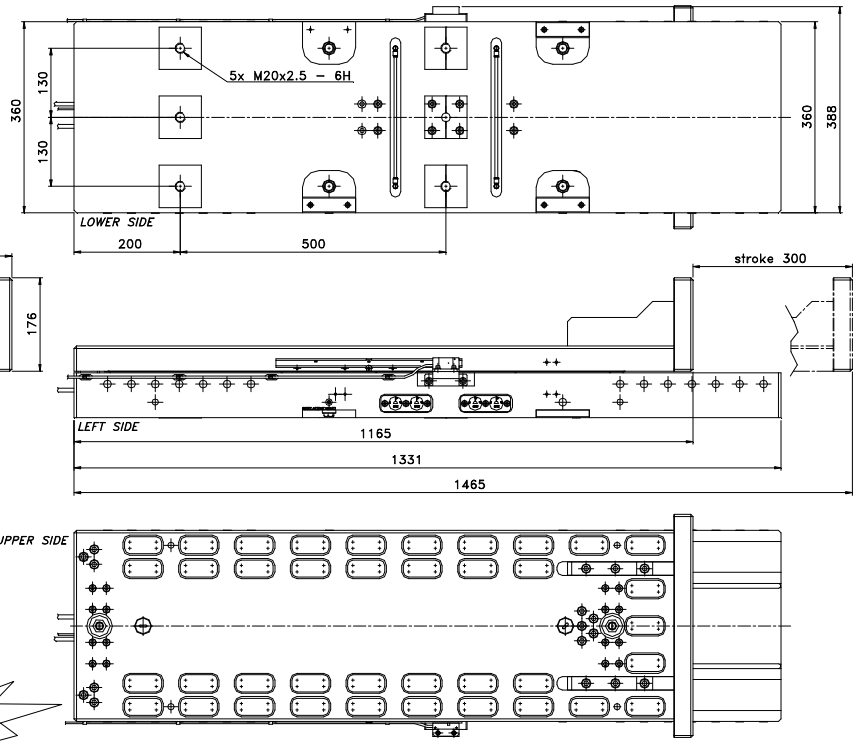
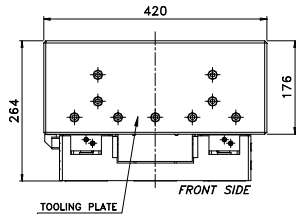
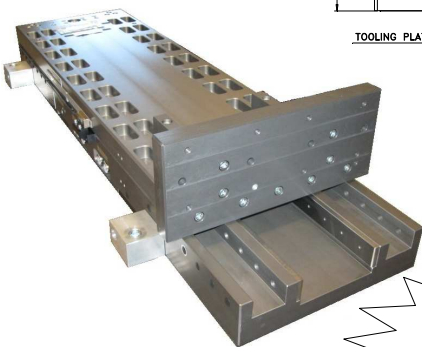


HIGH DYNAMIC LINEAR ACTUATOR LHD-398.300-SH

DATA SHEET

MAGER's High Dynamic Linear Actuators are suitable to the movement of masses and tools with short strokes, high frequency and with very high positioning accuracy. The actuator performances can be also defined giving priority to the control of the developed force instead of the positioning control.



NO MOVING CABLES

2D (dxf, dwg) or 3D (step) drawings available by request

MAIN SPECIFICATIONS	MU	LHD-398.030-SH
standard code	-	F0210-000030
chassis	-	anodized aluminium
load bearings tecnology	-	pneumostatic
pneumostatic nominal air supply pressure	bar	5
air consumption (@ n.a.s.p.)	NI/min	107
side bearing tecnology	-	rolling
environment temperature	-	-10°C ÷ +35°C
environment humidity	-	20% ÷ 70%
Length (max) × Width × Heigth	mm	L1465 × W420 × H264
total mass / moving mass	kg	181 / 60
cooling		free / forced air / water

MOTOR SPECIFICATIONS ⁽⁴⁾	MU	LHD-398.030-SH
motor tecnology	-	linear ironcore
nominal input voltage U	VDC	600
force constant K _i	N/Arms	212
back EMF constant K _v ⁽⁵⁾	V/(m/s)	124
electrical resistance R ₂₀ ⁽⁵⁾	Ω	4.44
inductance L ₁ ⁽⁵⁾	mH	133
peak current I _p	Arms	34.3
continous current I _c ⁽²⁾	Arms	4.89 (13.1)
stall current I _s ⁽²⁾	Arms	3.7 (9.9)
max continous power dissipation P _c ⁽²⁾	W	228 (1630)

PERFORMANCES	MU	LHD-398.030-SH
peak force F _p ⁽¹⁾	N	3980
continous force F _c / stall force F _s ⁽¹⁾⁽²⁾	N	1000 (2420) / 758 (1940)
maximum stroke T _r	mm	300
position accuracy / repeteabilty ⁽¹⁾	µm	±40 / ±10
maximum payload M	kg	20.0
maximum speed V _{mx} ⁽¹⁾	m/s	5.0 ⁽²⁾
maximum acceleration a _{mx} ⁽¹⁾⁽³⁾	m/s ²	60

LINEAR ENCODER SPECIFICATIONS ⁽⁶⁾	MU	LHD-398.030-SH
tecnology	-	optical
type	-	incremental with zero
period	µm	200
accuracy	µm	±30
supply	V	5 ±5%
signal	Vpp	1

Notes: ⁽¹⁾ depending on the drive - shown values refer to shown encoder and use of ETEL's drives (error mapping of position available)
⁽²⁾ values between brackets referring to water cooling ⁽³⁾ higher values will bring irreversible damages
⁽⁴⁾ electric and force tolerances +/- 10% (where not specified) ⁽⁵⁾ terminal to terminal values ⁽⁶⁾ different linear encoders available by request

NOTES