

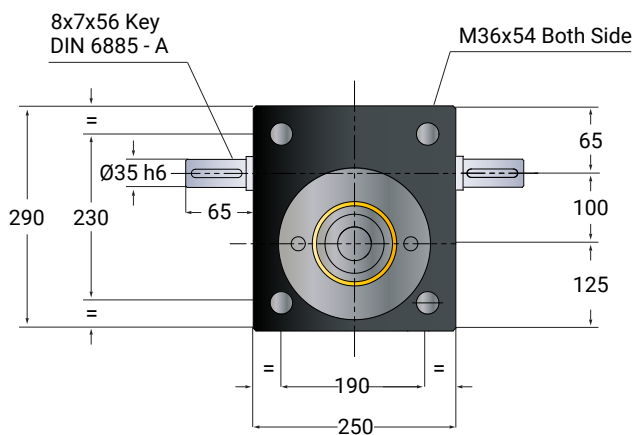


Diagram illustrating the components of a motor assembly, including:

- MOTOR** (Main motor unit)
- MFB** (Motor Frame Base)
- UF** (Universal Frame)
- UMB** (Universal Motor Base)
- UGMB** (Universal Gear Motor Base)
- MFA** (Motor Frame Assembly)
- MSW** (Motor Switch)
- ISW** (Interlocking Switch)
- KB** (Key Block)
- AMB** (Armature Base)
- AGMB** (Armature Gear Motor Base)
- KK** (Key Key)
- PHS** (Pin Head Screw)
- UM** (Universal Motor)

Type	Version	Speed	Standart screw	i	Stroke per drive shaft rotation
VK350-VH-A	Translating screw	Normal	Tr 100x10	10:1	1.00 mm
VK350-VH-B		Low speed		40:1	0.25 mm
VK350-SH-A	Rotating screw	Normal	Tr 100x10	10:1	1.00 mm
VK350-SH-B		Low speed		40:1	0.25 mm

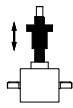
Max static load: 350 kN
 Max dynamic load: See duty cycle curves
 Nominal speed: 1500 rpm
 Max speed: 1800 rpm (depending force and duty cycle)
 Screw size: Tr 100x10
 Operation temperature: -10/60C
 Screw lubrication: Grease lubrication
 Input torque: Max 257 Nm (A) max 100 Nm (B)
 Drive-through torque: Max 1600 Nm

Graph showing the relationship between Torque (kN) and % duty cycle / 10 min at 20°C for Trapezoidal Screw Tr 100x16. The graph includes curves for 500 rpm, 1000 rpm, and 1200 rpm. The torque decreases as the duty cycle increases, with higher RPM values resulting in lower torque for a given duty cycle.

% duty cycle / 10 min	Torque (kN) at 500 rpm	Torque (kN) at 1000 rpm	Torque (kN) at 1200 rpm
10	~350	~300	~250
20	~250	~200	~150
30	~180	~140	~100
40	~140	~100	~70
50	~110	~80	~50
60	~90	~65	~40
70	~75	~55	~35
80	~65	~48	~30
90	~58	~42	~25
100	~50	~35	~20

These curves above represents the thermally safe operating time of the product in percent. These values are valid for the normal operating conditions of the system (lubrication, ambient temperature, environmental conditions, etc.). Otherwise, please contact Mecmot Engineering department.

VK350-SH

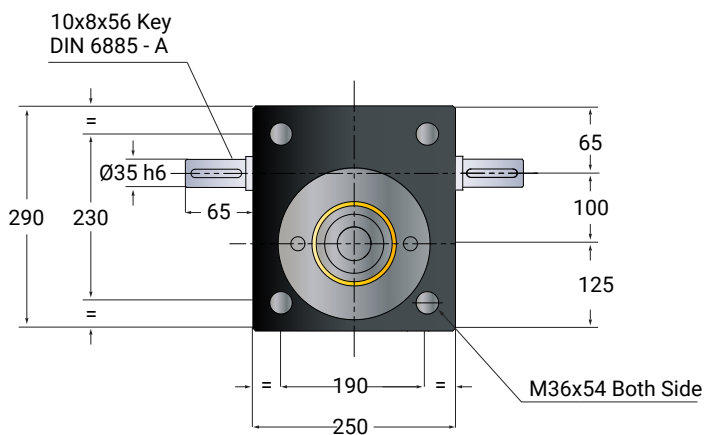
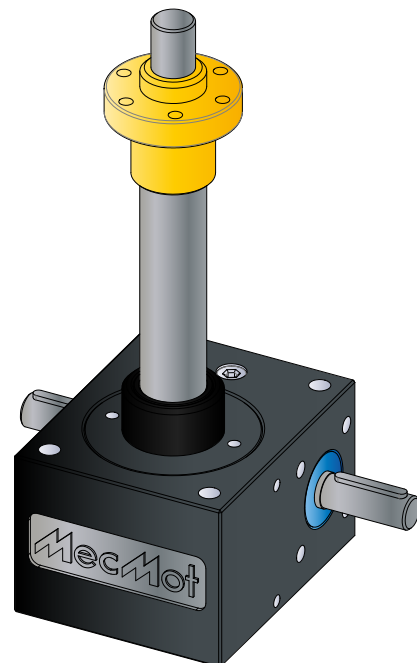
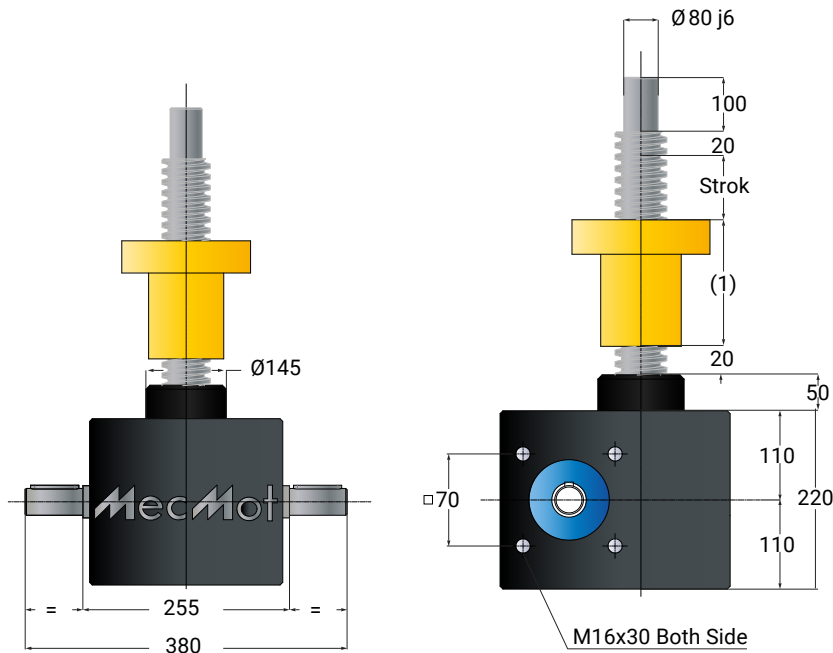


Max

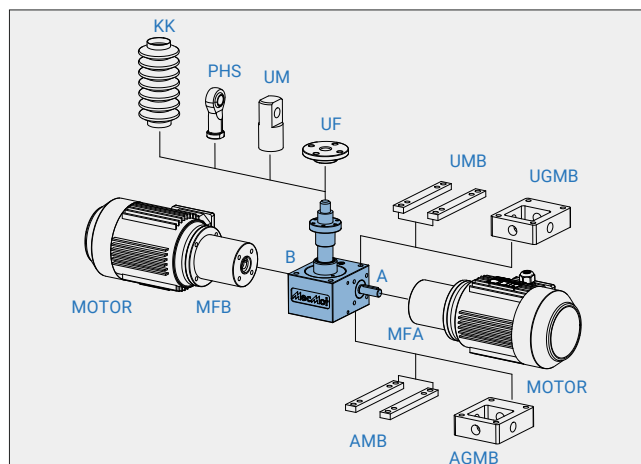
350 kN



Trapezoidal Screw



SH ACCESSORIES



Euler's law (safety factor = 2 dynamic compression load)

Limit load 1 (red) - 2 (blue) - 3 (green)

F = Load [kN]

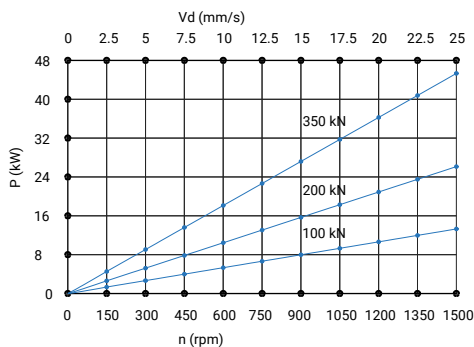
L = Overall trapezoidal screw lenght [mm]

Power Curves (Reduction A Version)

P = Requested input power [kW]

n = Worm rotational speed [rpm]

Vd = Spindle translation speed [mm/s]



Power Curves (Reduction B Version)

P = Requested input power [kW]

n = Worm rotational speed [rpm]

Vd = Spindle translation speed [mm/s]

