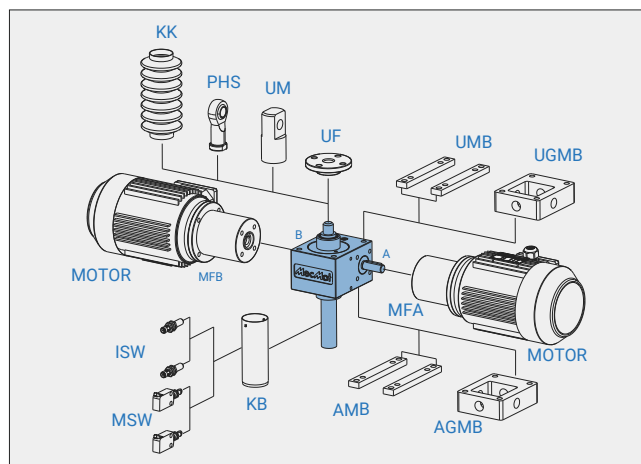
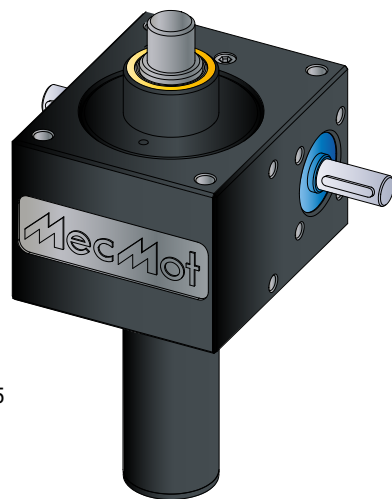


100 kN



Type	Version	Speed	Standart screw	i	Stroke per drive shaft rotation
VK100-VH-A	Translating screw	Normal	Tr 55x9	9:1	1.00 mm
VK100-VH-B		Low speed		36:1	0.25 mm
VK100-SH-A	Rotating screw	Normal	Tr 55x9	9:1	1.00 mm
VK100-SH-B		Low speed		36:1	0.25 mm

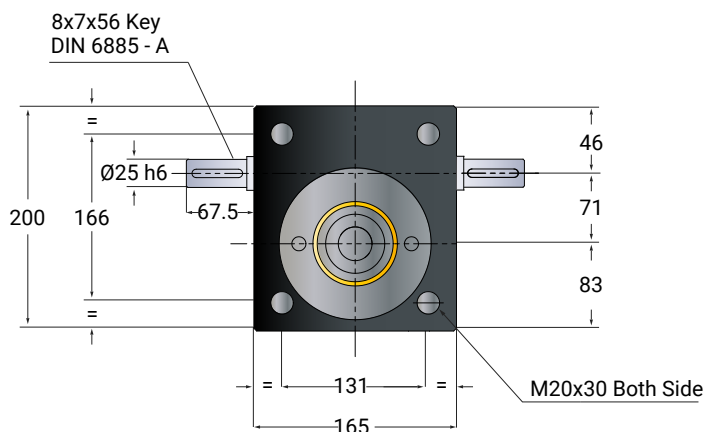
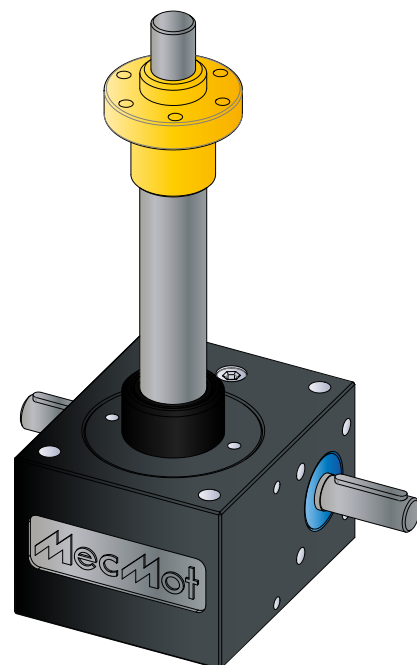
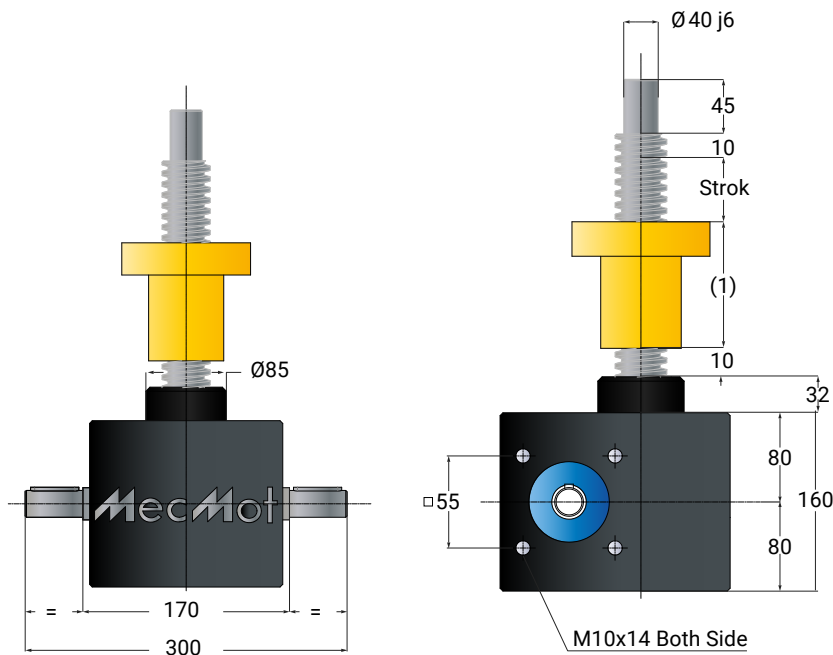
Max static load: 100 kN
Max dynamic load: See duty cycle curves
Nominal speed: 1500 rpm
Max speed: 1800 rpm (depending force and duty cycle)
Screw size: Tr 55x9
Operation temperature: -10/60C
Screw lubrication: Grease lubrication
Input torque: Max 52 Nm (A) max 14 Nm (B)
Drive-through torque: Max 540 Nm

Graph showing the relationship between torque (kN) and % duty cycle for Trapezoidal Screw Tr 55x9 at 20°C. The graph includes curves for 500 rpm, 1000 rpm, 1500 rpm, and 1800 rpm. The torque decreases as the duty cycle increases and as the rpm increases.

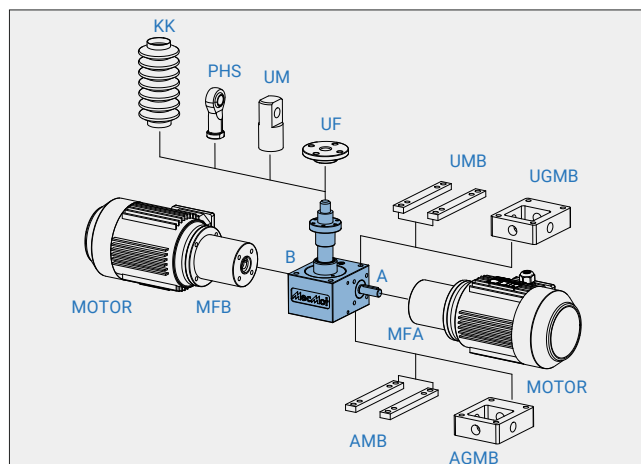
% duty cycle / 10 min at 20°C	500 rpm (kN)	1000 rpm (kN)	1500 rpm (kN)	1800 rpm (kN)
10	100	100	100	100
20	85	75	65	55
30	75	65	55	45
40	68	58	48	40
50	62	52	42	35
60	58	48	38	32
70	54	45	35	30
80	51	42	33	28
90	48	40	31	27
100	45	38	30	26

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.

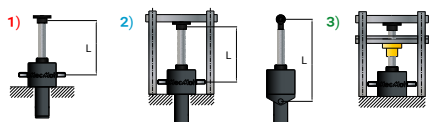
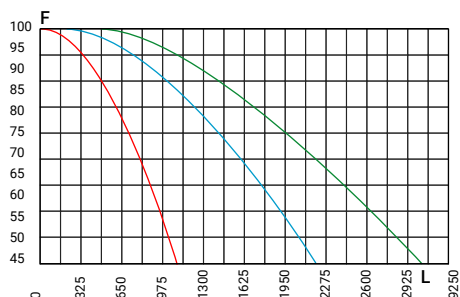
VK100-SH Max 100 kN



SH ACCESSORIES

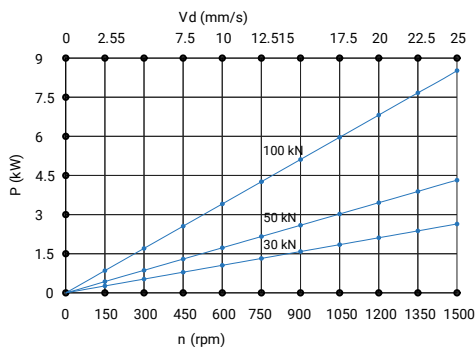


Euler's law (safety factor = 2 dynamic compression load)
Limit load 1 (red) - 2 (blue) - 3 (green)
 F = Load [kN]
 L = Overall trapezoidal screw length [mm]



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]

