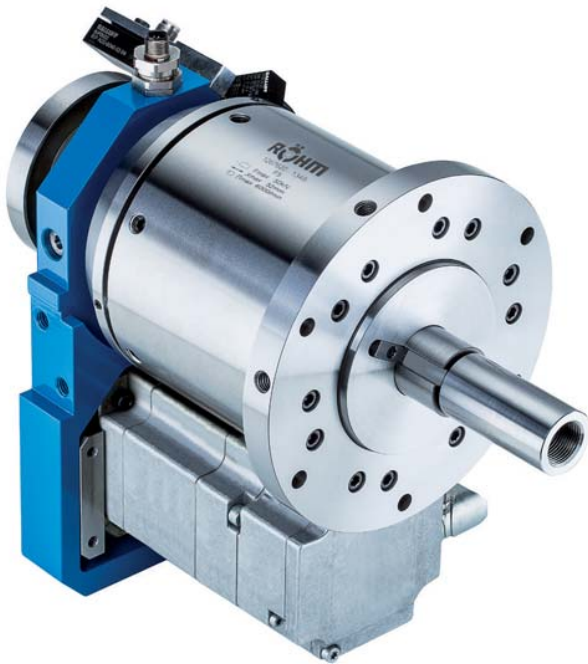


# EVS



### APPLICATION

Electrical actuation of power chucks without through-hole.

### TYPE

Clamping cylinder with feed-through Ø 11 mm for coolant or other media.

### CUSTOMER BENEFITS

- ③ Energy-efficient, since energy is only required during the clamping and unclamping operation
- ③ Flexible use thanks to optimal stroke and force control option (force change, even during rotation)
- ③ High precision thanks to low thermal influences
- ③ Low-maintenance and environmentally friendly thanks to omission of hydraulic components
- ③ Increase in operational safety and quality thanks to constant monitoring of the clamping status

### TECHNICAL FEATURES

- Standard spindle mounting from the rear (other spindle flange on request)
- Motor mount must be fastened to the machine
- Possible attachment of rotary feed-throughs

### Scope of delivery:

Mechanical electric clamping cylinder, incl. stroke and force sensor, stationary motor mount, incl. connection components of the toothed belt drive

### Note:

Servo motor, control unit, servo amplifier, set of cables and electronic accessories must be ordered separately.

## Sample calculation for energy savings with an electrical cylinder:

### Energy consumption of an oil-operated clamping cylinder

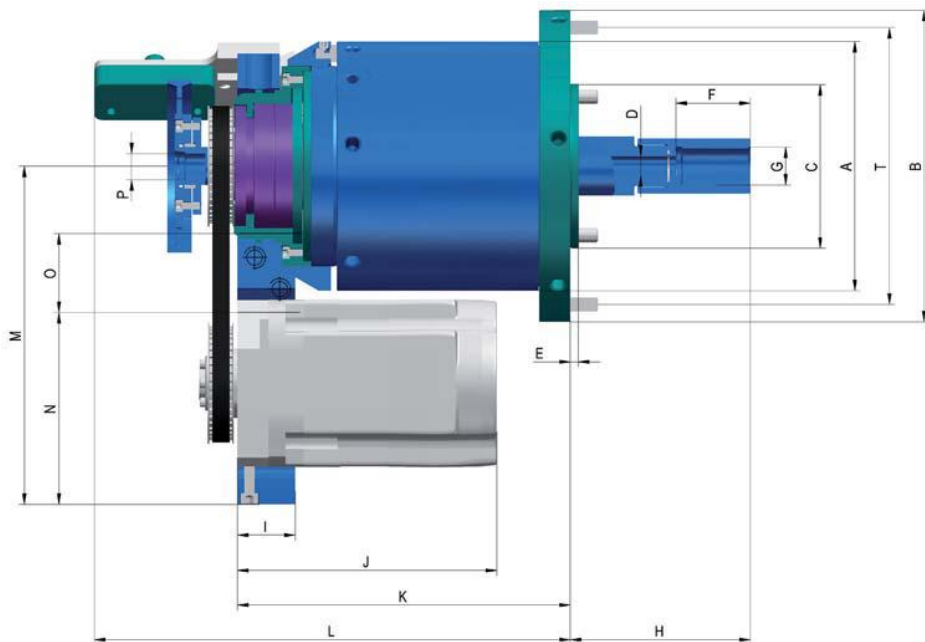
Output of hydraulic unit	1,5 kW
Power dissipation from cylinders:	0,9 kW
Total output of an oil-operated clamping cylinder:	2,4 kW
<b>Energy consumption per year:</b>	<b>14.400 kWh</b>

### Energy consumption of an electrical cylinder:

Total output of the EVS:	0,1 kW
<b>Energy consumption per year:</b>	<b>600 kWh</b>
<b>Energy saving potential per year:</b>	<b>13.800 kWh</b>

Electrical cylinder without through-hole

The above assumptions have been based on a standard manufacturing process in three-shift operation and may vary depending on the application involved. Where greater efficiency is achieved in the processing (e.g. by getting the best possible match between the cylinder and the process, or through shorter lift times), even more energy can be saved by indirect means.



C 15  
 Electrical cylinder without through-hole EVS with feed-through  $\varnothing 11$  mm for coolant or other media

Item no.	1267620 ▲
Pull force area kN	5-50
Total stroke mm	32
External $\varnothing$ A mm	144
$\varnothing$ B mm	180
C h 6 mm	95
Through-hole D mm	11
Pitch circle spindle connection T	160 (M8 6x60°)
E mm	5
F mm	43
G	M22x1,5
Stroke min/max	72/104
I mm	33,5
J mm	150
K mm	192,5
L mm	275
M mm	195,5
N mm	110,5
O mm	55
P	5/8-18 UNF
Speed max. min <sup>-1</sup>	6000
Rotating mass kg	22,8
Weight approx. kg	34,8
Moment of inertia kg/m <sup>2</sup>	0,059