

Electrohydraulic Power Rod

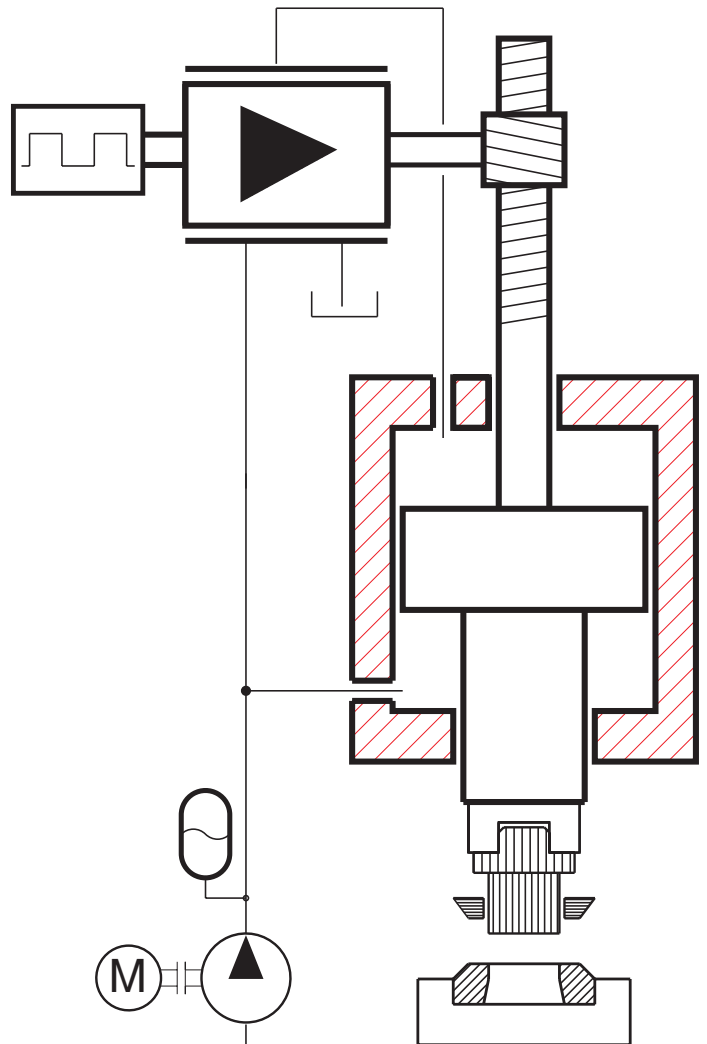
Design and Function:

The H+L Electrohydraulic Power Rod is an optimised linear drive for cutting, punching and forming processes which require enhanced tool feed drive capabilities.

The electronic control circuit converts the input parameters like speed, position and tool movement profile into signals which drive a low-power stepper motor. This movement is amplified highly dynamically by the hydromechanical closed loop of hydraulic amplifier.

The hydromechanical closed loop operates without measuring systems or additional electronic control devices. This straightforward design concept ensures the ruggedness and reliability typical of our compact units.

Cylinder design, surface dimensions and mounting characteristics have been adapted specially to suit the area of application.



Advantages:

- Programmable speed, positions and tool feed profiles
- Hydromechanical closed loop, highly dynamic drive characteristics
- Direction-sensing overload display
- Smooth rod movement; size II drives include integrated damping elements
- No measuring systems are required

Areas of Application:

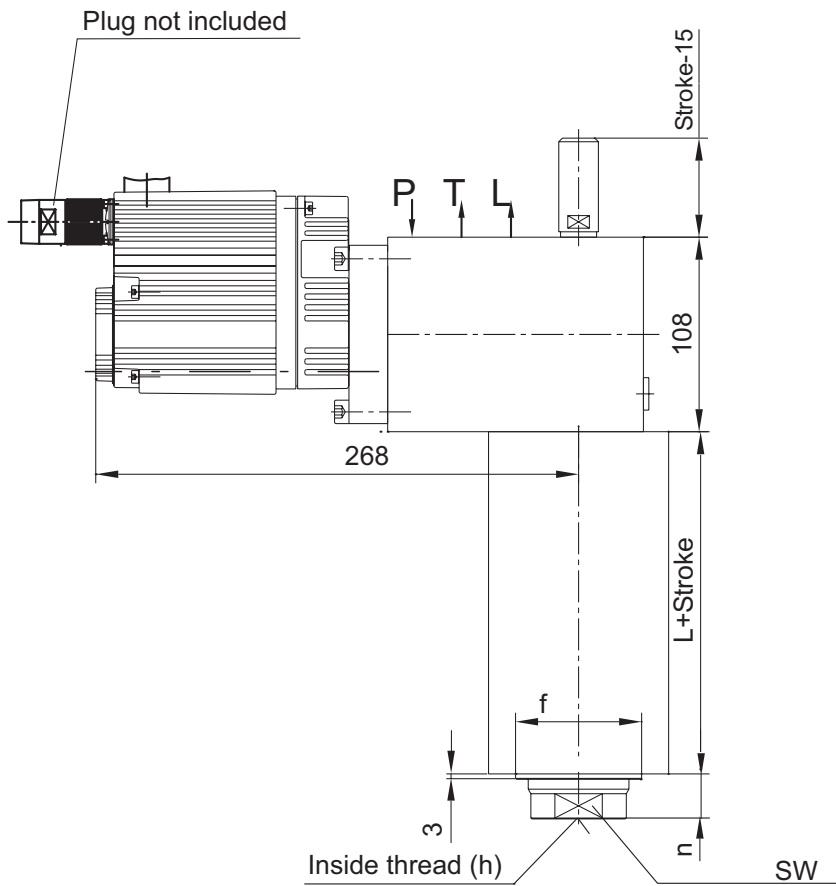
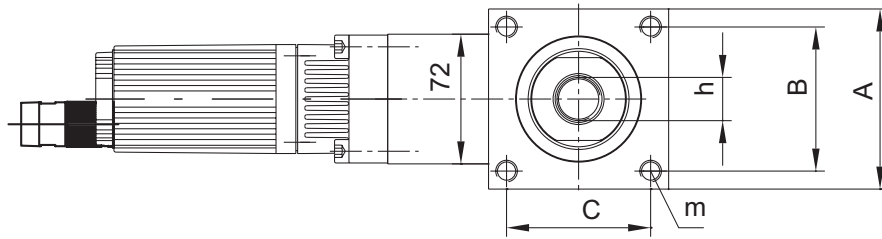
- Bending
- Cutting
- Stamping
- Shearing
- Blanking

Options:

- Integrated stepper motor driver
- Top/bottom position unit to reduce cycle times
- Electronic control of stepper motor for improved performance
- Design modifications to comply with special safety requirements

The specifications given herein are subject to alteration

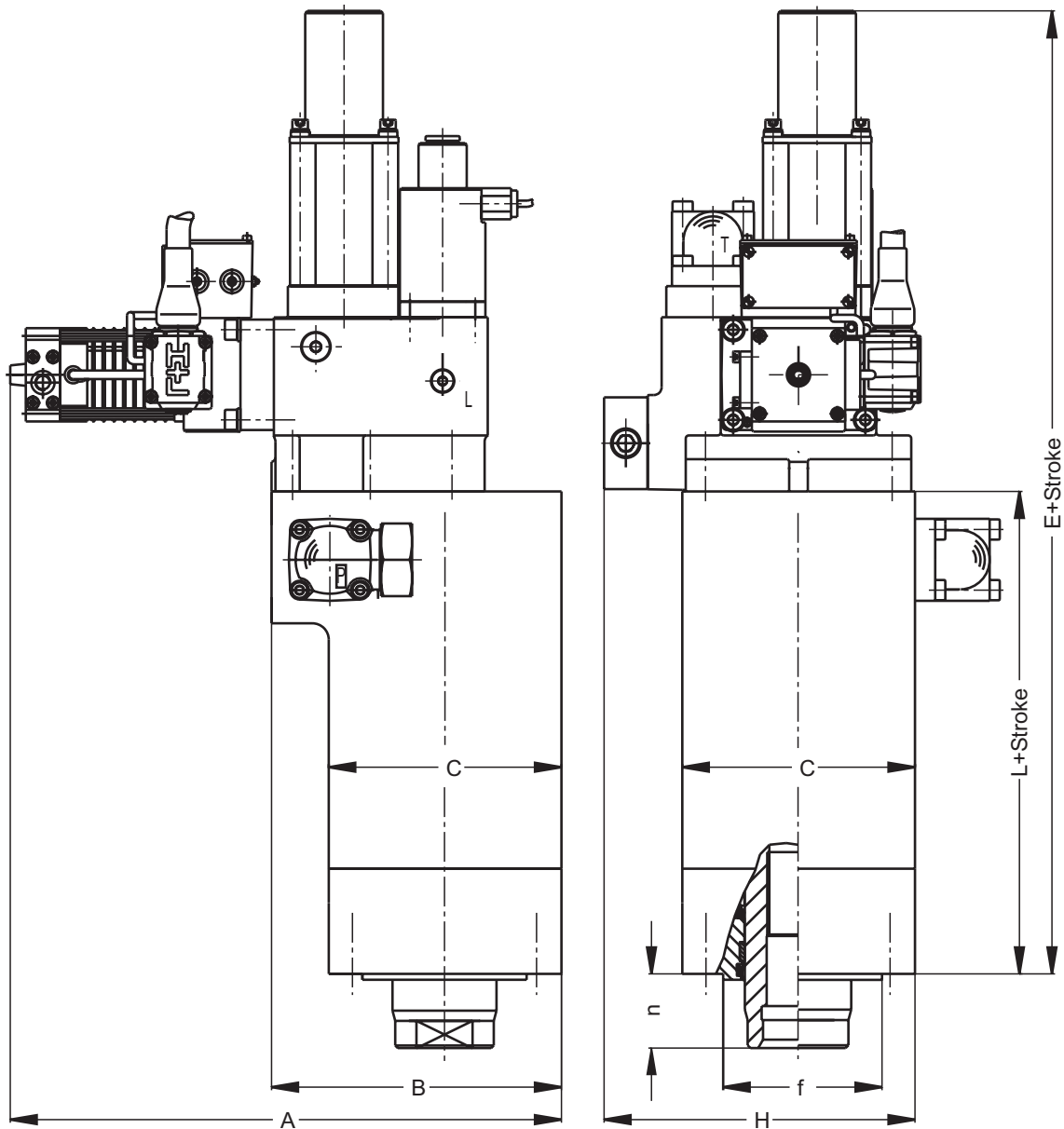
Basic Dimension Drawing Power Rod, Size I



Ø Piston	Ø Rod	L+Stroke	A	B/C	Øf	h	m	n
40	28 / 36	107	76	56	50	M16x1,5	M10	18
50	36 / 45	107	76	56	65	M20x1,5	M12	20
63	45 / 56	120	100	80	70	M24x1,5	M12	25
80	56 / 70	125	130	100	90	M30x1,5	M16	25
100	79 / 90	140	160	120	110	M42x1,5	M20	30
110	80 / 100	140	170	130	120	M42x1,5	M20	35
120	85 / 105	145	180	140	140	M48x1,5	M24	35
140	100 / 125	165	200	140	140	M48x1,5	M24	40
160	120 / 140	170	240	190	170	M64x1,5	M30	40

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Basic Dimension Drawing Power Rod, Size II



Ø Piston	Ø Rod	A	B	C	L	E	n	f	H	P	T	L
90 mm	85 mm	355	185	150	350	665	31,5	115f8	200	BFW25	BFW35	3/8"
100 mm	95 mm	355	185	150	350	665	31,5	115f8	200	BFW25	BFW35	3/8"
127 mm	120 mm	405	235	200	400	715	40	150f8	325	BFW30	BFW35	3/8"

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General information:

H+L Electrohydraulic Power Rods are built in two sizes, which can be combined with different cylinder dimensions. Both sizes are available as "light" and "heavy" types. This variety of designs allows optimised system configurations for all requirements up to ram forces of 310 kN.

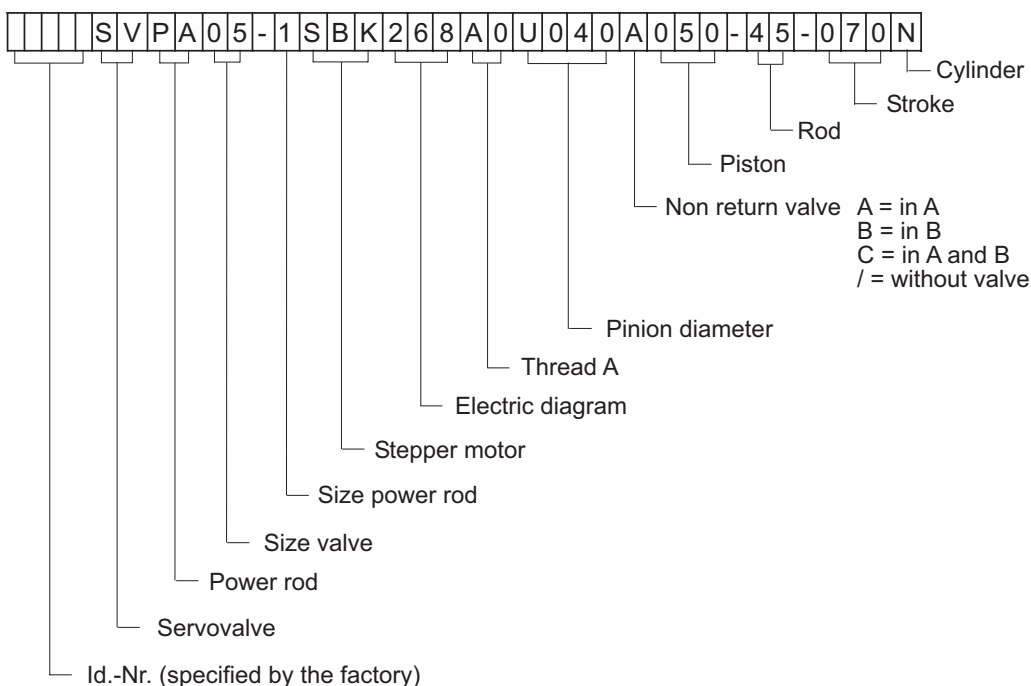
The technical specifications are standard values and may vary with different configurations.

As special service, we analyse your application situation and provide you with an informative calculation protocol based on your specific application data.

General Technical Specifications:

Max. operating pressure (light type):	250 bar
Ram return force (standard value):	10% - 20%
Travel of the piston (standard values):	70 mm / 150 mm
Programmable step size (half-step mode):	0,1 - 0,004 mm
Max. ram speed:	500 mm/s
Control:	2-phase stepper motor driver

Type Code:



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