

# Stopper Rod Drive

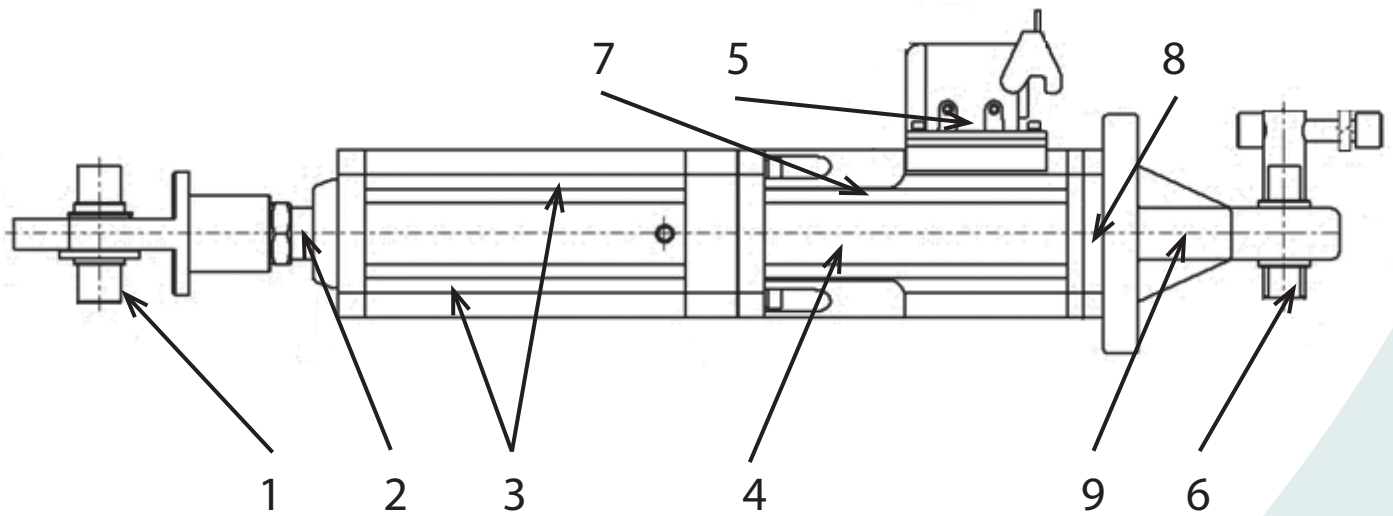
VÚHŽ a.s.  
739 51 Dobrá 240, Czech Republic  
phone: +420 558 601 281  
fax: +420 558 601 280  
e-mail: [level@vuhz.cz](mailto:level@vuhz.cz)  
[www.vuhz.com](http://www.vuhz.com)



## Features and Benefits

- ▶ Robust drive for heavy industries
- ▶ Only electrical connections
- ▶ Not self-locking
- ▶ Low weight
- ▶ Low force needed for movement in hand mode
- ▶ Flange and handle on customer's request
- ▶ Fast and easy connection to stopper
- ▶ Industrial Harting connector for connection to servodrive

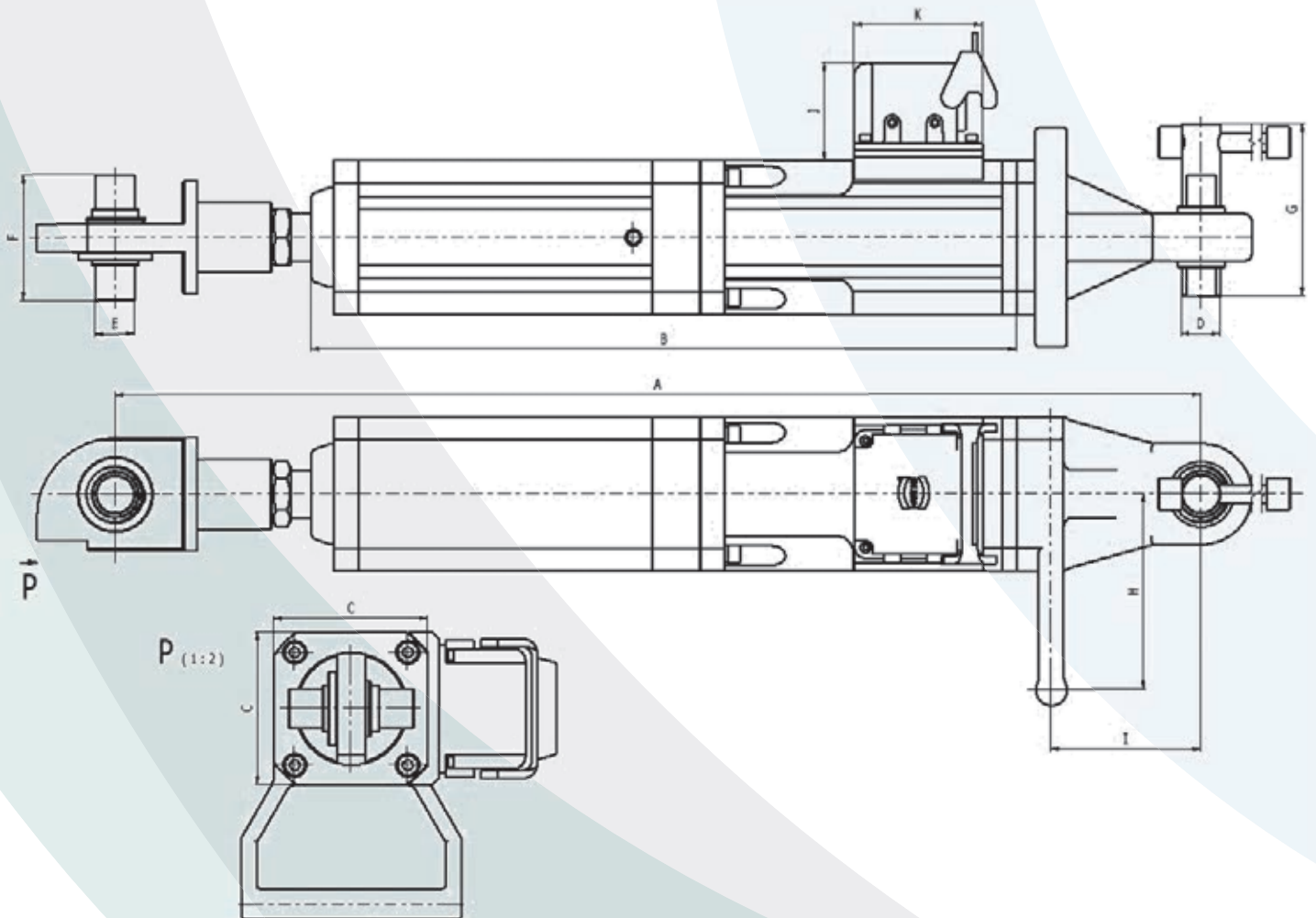
## Basic information



- 1 – Upper swinging bolt \*
- 2 – Rod
- 3 – Protection against rotation of the rod
- 4 – Ball screw
- 5 – Harting connector
- 6 – Lower swinging bolt \*
- 7 – Motor
- 8 – Resolver / absolute encoder
- 9 – Integrated flange with handle \*

\* this part can be modified depending on customer's request

## Basic composition



Dimension	mm	Dimension	mm
A	692,5	G	110
B	450	H	125
C	98	I	95,5
D	25	J	62
E	25	K	82
F	80		

# Dimensions

## Stopper rod drive parameters

Continuos Force Rating	$F_n$	3 756	N
Peak Force	$F_p$	10 000	N
Nominal speed	$v$	500	mm/s
Minimal force in hand mode *		130	N
Stroke		115	mm
Protection		IP 64	
Temperature range		min -20	°C
		max 70	°C
Weight		10,5	Kg

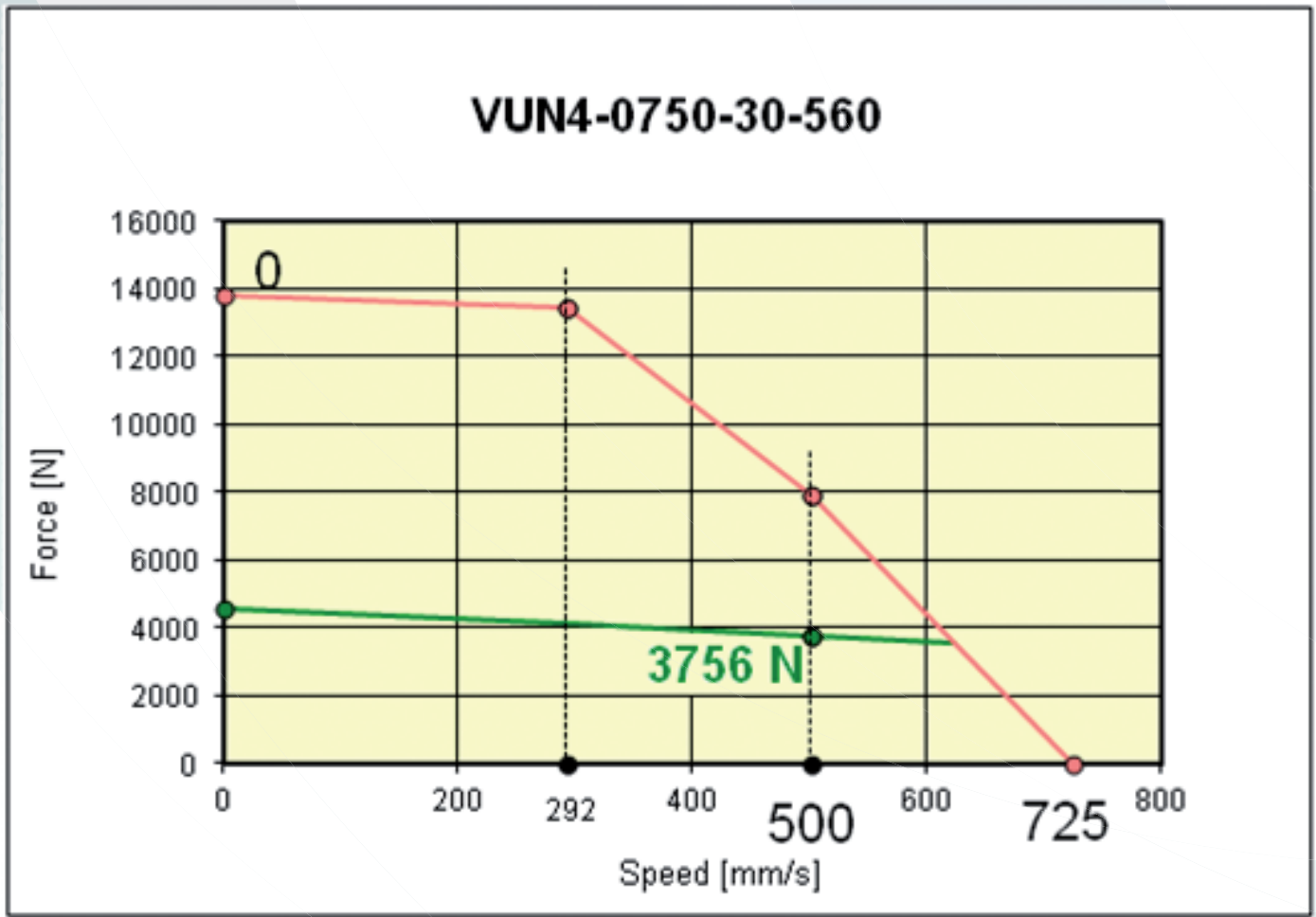
## Motor parameters


Name	Symbol	Value	Unit
Rated Speed	$n_n$	3000	min <sup>-1</sup>
DC Bus Voltage	$U_{dc}$	560	V
Nominal AC Voltage	$U_n$	380	V
Rated Motor Voltage	$U_m$	275	V
Rated Torque	$M_n$	6,1	Nm
Rated AC Current	$I_n$	5,14	A
Stall Torque	$M_o$	7,5	Nm
Stall AC Current	$I_o$	5,21	A
Peak Torque	$M_{max}$	22,5	Nm
Peak Current	$I_{max}$	22,35	A
No Load Speed	$n_o$	4350	min <sup>-1</sup>
Torque at $I_{max}/U_n$	$M_z$	22	Nm
Speed at $I_{max}/U_n$	$n_z$	1920	min <sup>-1</sup>
Max. Torque at $n_n$	$M_x$	13,6	Nm

\*Force necessary for overcoming of friction in the drive

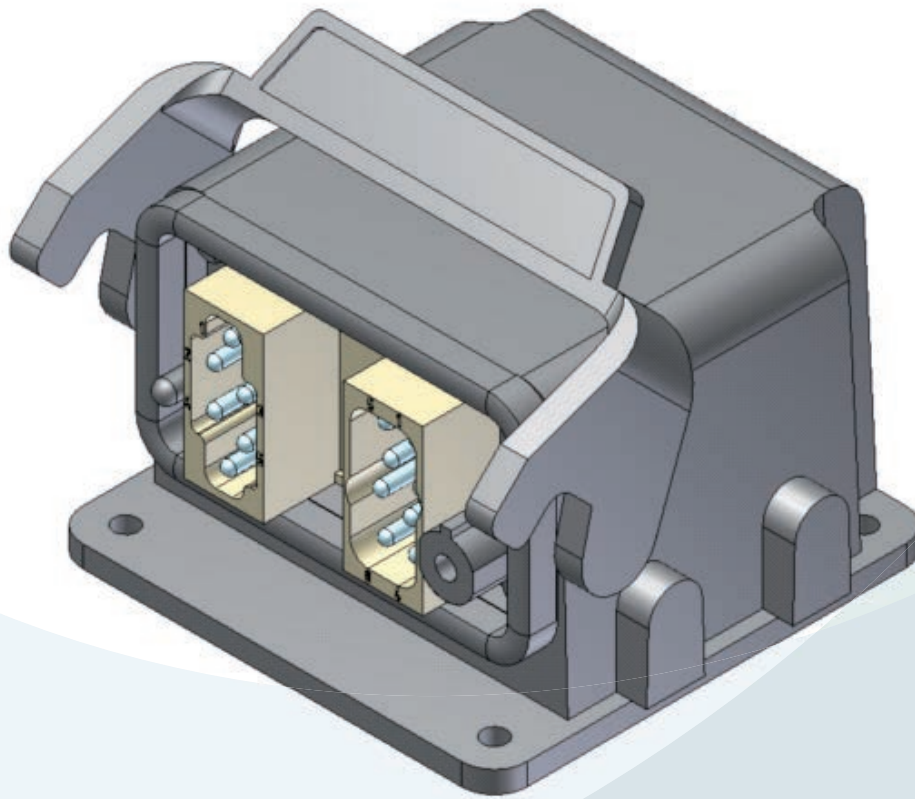
# Rated data

## Force / speed characteristics



-  Rated data
-  Peak data

## Rated data



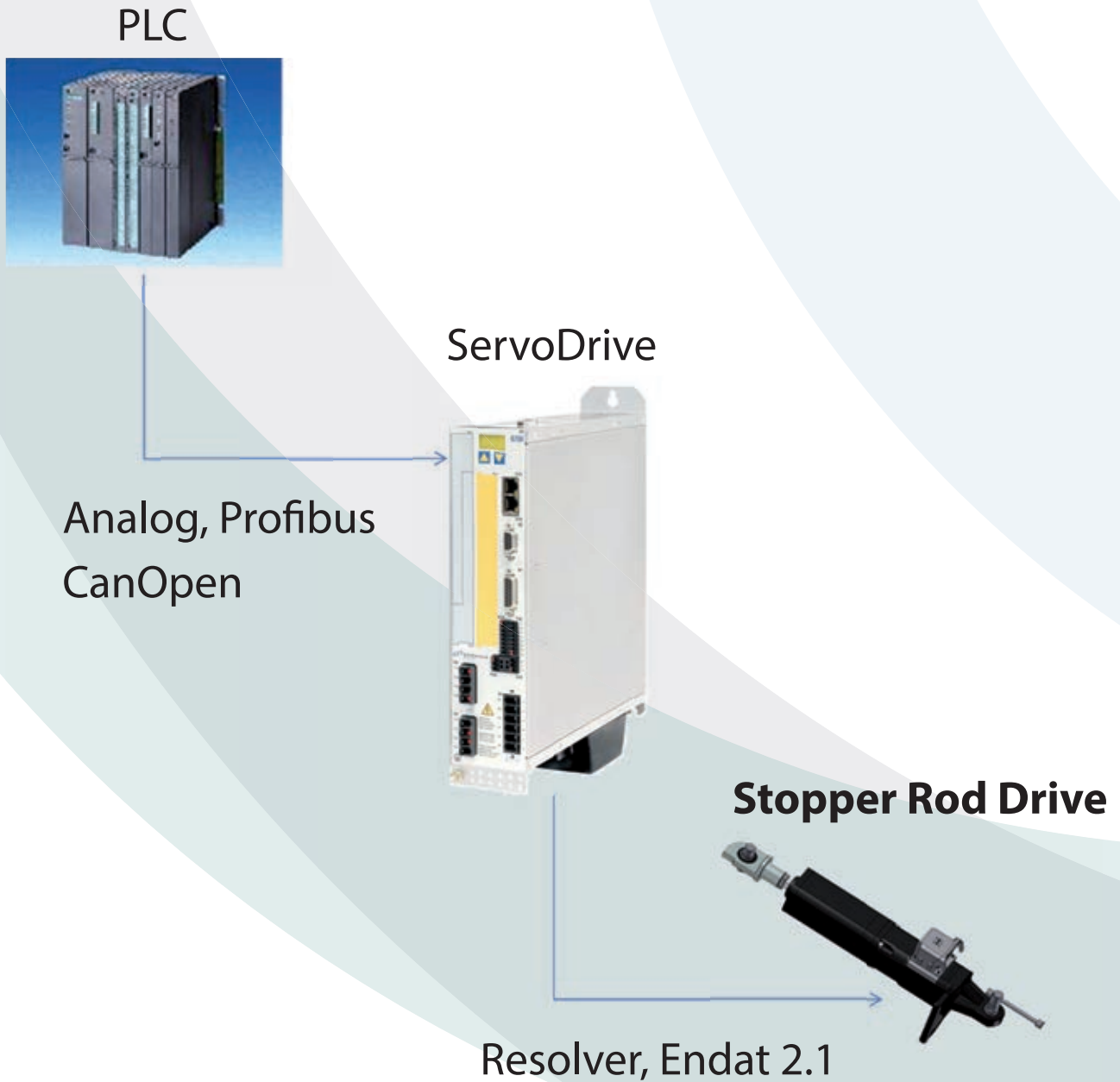
**The stopper rod drive is available in two variants of feedback:**

Resolver (relative encoder) – cheap, robust and easy to set.

Endat 2.1 – absolute position, no need calibrate after disconnection from servodrive.

# Feedback

## Example of connection with S700 Danaher Servodrive



# Connection example