# NEEDLE GRIPPER SERIES ST

### PRODUCT ADVANTAGES



#### Smooth stroke configuration

Customise the stroke for your application with infinitely variable adjustment using an adjusting dial

#### Workpiece drain function

This function guarantees the quick and reliable deposit of the workpiece and prevents disruptions to the process sequence

#### Query about magnetic field sensor technology

Detecting the end position allows you to have shorter cycle times and an integrated control system

# SERIES CHARACTERISTICS

Installation size				
STXX				
5 million maintenance-free cycles (max.)	•			
Magnetic field sensor	•			
IP 30 IP30	•			

# BENEFITS IN DETAIL



### TECHNICAL DATA

	Needle stroke adjustable	Needle diameter	Weight	IP class
Installation size	[mm]	[mm]	[kg]	
ST36	0 - 1,5	0.7	0.21	IP30
ST40	0 - 2	0.7	0.49	IP30

# ► FURTHER INFORMATION IS AVAILABLE ONLINE



All information just a click away at: www.zimmer-group.com. Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product. Quick, clear and always up-to-date.

# **NEEDLE GRIPPER INSTALLATION SIZE ST40**

# PRODUCT SPECIFICATIONS

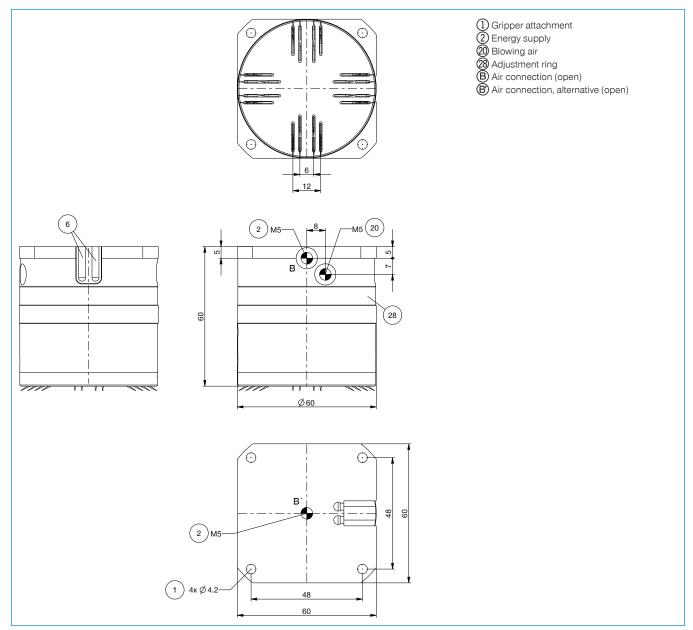


# RECOMMENDED ACCESSORIES

connector

	RGY SUPPLY		CON	NECTIONS / OTHER
	GVM5 Straight Fittings - Quick Connect Style	•		<b>S8-G-3</b> Plug-in connector customizable Straight - Connector <b>6</b> tor M8
SEN	SORS			S12-G-3 Plug-in connector customizable Straight - Connec- tor M12
	<b>MFS01-K-KHC-P1-PNP</b> Magnetic field sensor angled, cable 5 m			·
	<b>MFS01-S-KHC-P1-PNP</b> Magnetic field sensor angled, cable 0.3 m - M8	•••		

	Technical data
Order no.	ST40-B
Needle stroke adjustable min. [mm]	0
Needle stroke adjustable max. [mm]	2
Number of needles [piece]	40
Needle diameter [mm]	0.7
Retract time / Extend time [s]	0.03
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	4
Operating pressure max. [bar]	8
Nominal operating pressure [bar]	6
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm <sup>3</sup> ]	3
Weight [kg]	0.49

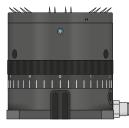


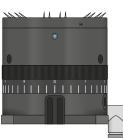
# **NEEDLE GRIPPERS** SERIES ST FUNCTIONAL DESCRIPTION









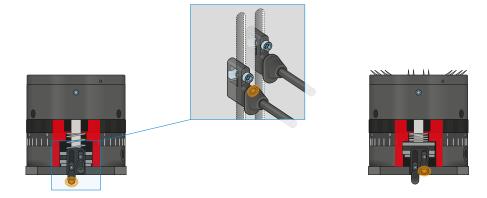


#### Pneumatic threaded connections

Available in straight and angled design. Can be chosen freely depending on the space conditions or installation situation.



MFS01



#### 1-point magnetic field sensors - MFS

For non-contact sensing of the piston position

The sensor is clamped in the C-groove of the gripper and detects the magnet attached to the gripper jaws. The MFS01 is available in versions with 5 m cables with exposed leads and 0,3 m cable with connector.





#### **Plug-in connectors**

For extending and fabricating the connection lines for the sensors

Cables with a length of 5 m with exposed leads are available. Depending on the specific needs, the cables can be shortened or fabricated with connectors in sizes M8 and M12.