

# NEEDLE GRIPPER

## SERIES GEN9100

### ▶ PRODUCT ADVANTAGES



#### ▶ **Plug and play**

Reduce programming and assembly costs to a minimum with the integrated control system and the 2 position query





#### ▶ **Saving energy with pulse control**

You only have to supply current briefly when retracting and extending the needle; no energy is required when transporting the workpiece

#### ▶ **Smooth stroke configuration**

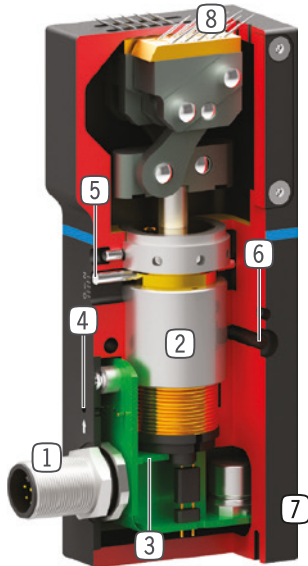
The needle stroke is displayed via a scale. You can smoothly adjust the needle stroke to fit your application

### ▶ SERIES CHARACTERISTICS

Installation size	
GEN9102	
 <b>Digital I/O</b>	●
 <b>5 million maintenance-free cycles (max.)</b>	●
 <b>Integrated sensing</b>	●
 <b>IP50</b>	●



## ► BENEFITS IN DETAIL



- ① **Energy supply**
  - standardized interface M12 round connector
- ② **Drive**
  - via Pot magnet and coil bobbin according to the coil system principle
  - energy consumption only at impulse <25 ms
- ③ **Position sensing**
  - integrated Hallsensor
  - 2 positions monitorable
- ④ **Status control**
  - optical LED position display
  - Needles retracted, needles extended
- ⑤ **Stroke adjustment**
  - infinitely variable
  - Can be read off the scale
- ⑥ **Mounting and positioning**
  - mounting possible from several sides for versatile positioning
- ⑦ **Robust, lightweight housing**
  - Hard-coated aluminum alloy
- ⑧ **Extending needles**
  - gripping by penetration

## ► TECHNICAL DATA

	Needle stroke adjustable	Pulse time	Weight	IP class
Installation size	[mm]	[ms]	[kg]	
GEN9102	0 - 2	20 - 25	0.33	IP50

## ► FURTHER INFORMATION IS AVAILABLE ONLINE



All information just a click away at: [www.zimmer-group.com](http://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 GEN9102

### ▶ PRODUCT SPECIFICATIONS



### ▶ RECOMMENDED ACCESSORIES



#### CONNECTIONS / OTHER



**KAG1000B8**  
Plug-in Connector Straight Cable 10 m - Female  
M12



#### CONNECTIONS / OTHER



**KAW1000B8**  
Plug-in Connector Angled Cable 10 m - Female  
M12



Order no.	► Technical data
	<b>GEN9102</b>
Needle stroke adjustable min. [mm]	0
Needle stroke adjustable max. [mm]	2
Permanent operation cycle count max. [cycle/min]	120
Cycle count max. [cycle/min]	150
Operating time [ms]	<28
Pulse time in retract [ms]	20
Pulse time in extend [ms]	25
Debounce time [ms]	10
Noise level [db(A)]	<70
Repetition accuracy +/- [mm]	0.1
Current consumption in a stand-by mode [A]	0.02
Current consumption per pulse max. [A]	5
Operating temperature min. [°C]	10
Operating temperature max. [°C]	+50
Protection to IEC 60529	IP50
Weight [kg]	0.33

