



EGI – New size and communication interfaces

Sales Training | 2020-09-18 | Benjamin Schell

Superior Clamping and Gripping



Agenda

1. Product Introduction
2. Classification inside the mechatronic gripper portfolio
3. Pricing and discounts
4. Target Markets and Applications
5. Compare with WSG and competition
6. Scope of delivery and accessories
7. Availability
8. Maintenance and Commissioning
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1. Product Introduction

Gripper for small components

EGI



Servo-electric 2-finger parallel gripper with sensitive gripping force control and long stroke

The electric gripper with the easiest commissioning and most reliable maintenance of gripping force capability on the market

Over 90% of gripping force maintained in the event of a voltage drop

Intelligent. Sensitive. Reliable.

EGI



- + New gripper size EGI 40
- + Available interfaces: PROFINET, EtherNET/IP and EtherCAT
- + Long stroke and finely adjustable gripping force
- + Newly developed gripping force maintenance for size 80
- + Integrated web server for variants with PROFINET and EtherNET/IP

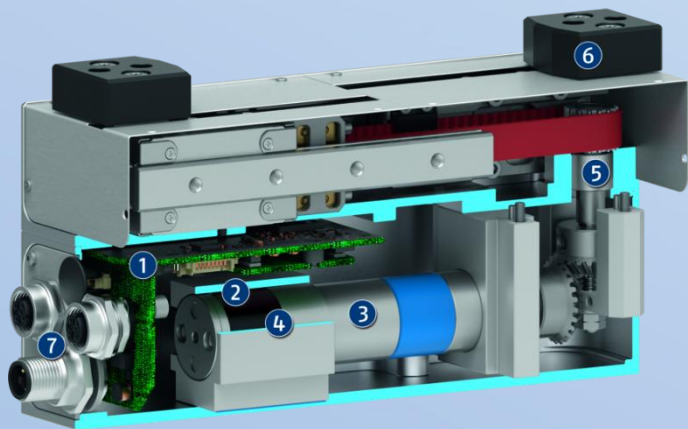
EtherNet/IP™

PROFI[®]
NET

EtherCAT[®]

Principle of function

EGI



Functional description

The brushless servomotor drives the toothed belt drive via the bevel gear. The base jaws mounted on the profiled rail guides are connected to the toothed belt. The rotary motion is transferred into a linear movement of the base jaws via the gear and the toothed belt. A brake installed in gripper size 80 ensures that the gripping force is maintained.

- ① Integrated electronics
- ② Encoder
- ③ Drive
- ④ Brake (only size 80)
- ⑤ Kinematics
- ⑥ Finger connection
- ⑦ Electrical connection

Advantages – Your benefits

EGI

- **Gripping force control** for the delicate gripping of sensitive workpieces
- **Long and freely programmable stroke** for flexible workpiece handling
- **Almost complete gripping force maintenance with minimal brake retardation** for a high process reliability for size 80
- **Browser-based integrated web server** For easy and intuitive commissioning, parameterization, and functional test of the gripper (applies to PROFINET and EtherNET/IP only)
- **Fully integrated control and power electronics** for creating a decentralized control system
- **Connectors in industrial standard** for easy electrical connection

Technical data

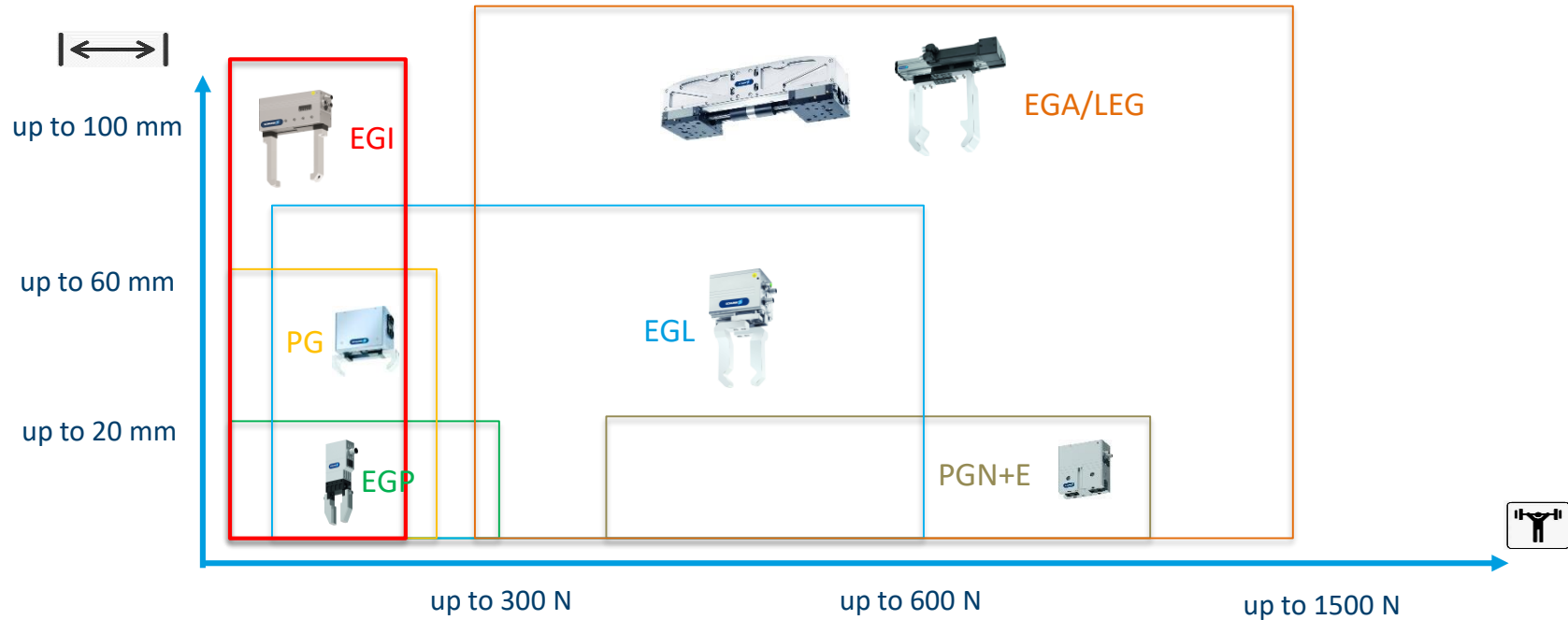
EGI

Technical data overview

Size	Stroke per jaw	Min. gripping force	Max. gripping force	Max. permissible finger length	Recommended workpiece weight	Weight	Nominal voltage
	[mm]	[N]	[N]	[mm]	[kg]	[kg]	[V]
40	40	25	70	150	0.35	1.02	24
80	57.5	25	100	200	0.5	1.55	24

2. Classification inside the mechatronic gripper portfolio

Classification inside the mechatronic gripper portfolio



3. Pricing and discounts

Pricing and discounts

Overview

ID	Description	List price (GER)
1328836	EGI 80-PN	3.300,00 €
1328837	EGI 80-EI	3.350,00 €
1328838	EGI 80-EC	3.350,00 €
1328833	EGI 40-PN	2.850,00 €
1328834	EGI 40-EI	2.850,00 €
1328835	EGI 40-EC	2.850,00 €

4. Target Markets and Applications

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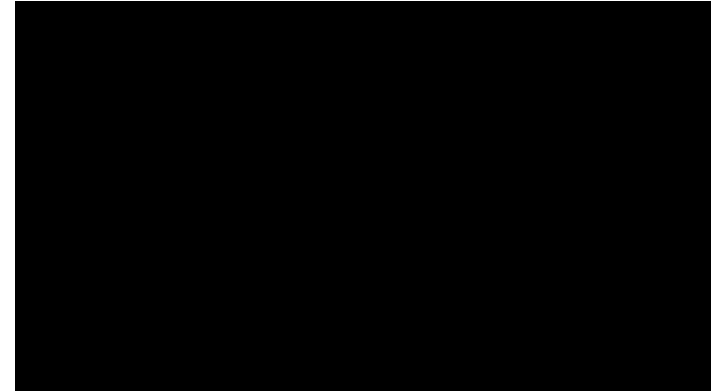
Target Markets and Applications

Pharmaceutical Industry

- ✓ Labority automation, MedTec and Pharma
- ✓ Sensitive Gripping of and light and weak parts like trays, petri dishes, vials, syringes, carpoules and other types of containers
- ✓ Big stroke makes a high variation of workpieces possibles



YouTube: EGI – Pharmaceutical Industry



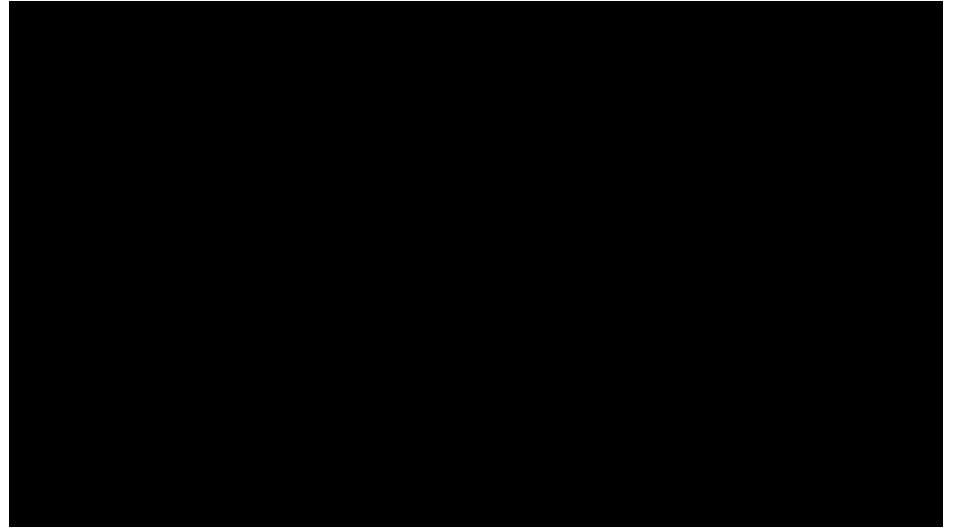
YouTube: EGI – Labority Automation

4. Target Markets and Applications

Target Markets and Applications

Electronics Industry

- ✓ Sensitive Gripping of and light and weak parts
- ✓ Big stroke allows panel, circuit board and electronic parts handling
- ✓ Free positioning – Dive in and grip



YouTube: EGI – Electronics Industry

4. Target Markets and Applications

Target Markets and Applications

Intralogistics and general production automation

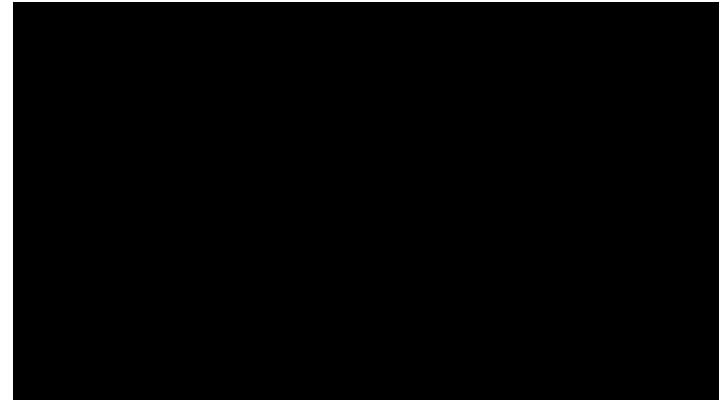
- ✓ Big stroke allows high workpiece variation (Picking of light workpieces with different sizes and shapes)
- ✓ Sensitive Gripping of and light and weak parts

Smart Factory

- ✓ Measuring applications (rough)
- ✓ General data collection/monitoring



YouTube: EGI – Production Automation

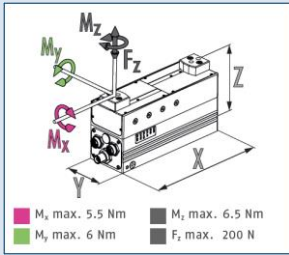
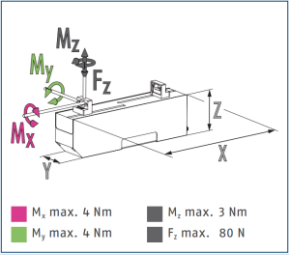


YouTube: EGI – Smart Factory

5. Compare with WSG and competition

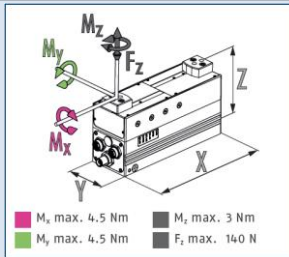
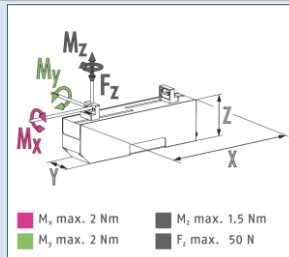
EGI 80 vs. WSG 50



Force	25 to 100 N	5 to 80 N
Stroke	57.5 mm per jaw	55 mm per jaw
Max. finger length and mass	200 mm, 0.3 kg	170 mm, 0.3 kg
Finger loads	 ■ M_x max. 5.5 Nm ■ M_z max. 6.5 Nm ■ M_y max. 6 Nm ■ F_z max. 200 N	 ■ M_x max. 4 Nm ■ M_z max. 3 Nm ■ M_y max. 4 Nm ■ F_z max. 80 N
Standardization	PROFINET, EtherNet/IP, EtherCAT communication SCHUNK PGN+ bolt pattern M12/M8 standard connectors	PROFINET, EtherNet, Profibus (without any certification)
Extras	Grip Force Maintenance > 90%	TCP / IP Communication, Force measuring jaws
Size and weight	175 x 60 x 97.5 mm, 1.55 kg	146 x 50 x 72.5 mm, 1.2 kg

EGI 40 vs. WSG 32



Force	25 to 70 N	5 to 50 N
Stroke	40 mm per jaw	34 mm per jaw
Max. finger length and mass	150 mm, 0.2 kg	120 mm, 0.1 kg
Finger loads		
Standardization	PROFINET, EtherNet/IP, EtherCAT communication, SCHUNK PGN+ bolt pattern M8 standard connectors	PROFINET, EtherNet (without any certification)
Extras		TCP/IP Communication, Force measuring jaws
Size and weight	135 x 52 x 84.5 mm / 1.02 kg	118 x 32 x 60.5 mm / 0.55 kg

6. Scope of delivery and accessories

Scope of delivery

- ✓ Gripper
- ✓ Centering sleeves
- ✓ Manual
- ✓ Mechatronic-DVD with software manual, GSD-Files

Accessories

- ✓ **Cables for Power (M12 for EGI 80, M8 for EGI 40)**
 - ✓ M12 cable for EGI 80 is only track chain compatible
 - ✓ M8 cable for EGI 40 is track chain and torsion compatible
- ✓ **Cables for Communication (M12 for EGI 80, M8 for EGI 40)**
 - ✓ Track chain and torsion compatible
- ✓ **BSWS-System**
- ✓ **Finger blanks in aluminium and steel**

7. Availability

Availability

ID	Description	Availability (checked on 2020-09-18)	
1328836	EGI 80-PN	3 pcs on stock, more 3 pcs at 2020-10-02	
1328837	EGI 80-EI	5 pcs on stock	
1328838	EGI 80-EC	5 pcs on 2020-10-05, more 4 pcs. on 2020-10-09	
1328833	EGI 40-PN	10 pcs on stock	
1328834	EGI 40-EI	5 pcs on stock	
1328835	EGI 40-EC	5 pcs on 2020-10-05, more 3 pcs. on 2020-10-07	

LK01	TIME TO MARKET 1 WD
LK02	TIME TO MARKET 5 WD
LK03	TIME TO MARKET 20 WD
LK04	TIME TO MARKET 40 WD
LK05	TIME TO MARKET XXX WD
LK06	

LK01 for EGI and LK02 for accessories (cables)

8. Maintenance and Commissioning

Maintenance

8 Maintenance

8.1 Maintenance intervals

Interval (million cycles)	Maintenance work
2 / as required	Clean the product dry with a lint-free cloth. Blow all coarse dirt and chips out of the cavities in the product with compressed air.
	Inspect the product for damage. Replace the product if necessary. Have all repair work on the product carried out only by SCHUNK.
	Update firmware.

Source: EGI operating manual

Commissioning

- ✓ PROFINET (Siemens): Gerätebeschreibungsdatei (GSDML)



- ✓ EtherNET/IP (Allen Bradley): Electronic Data Sheet (EDS)

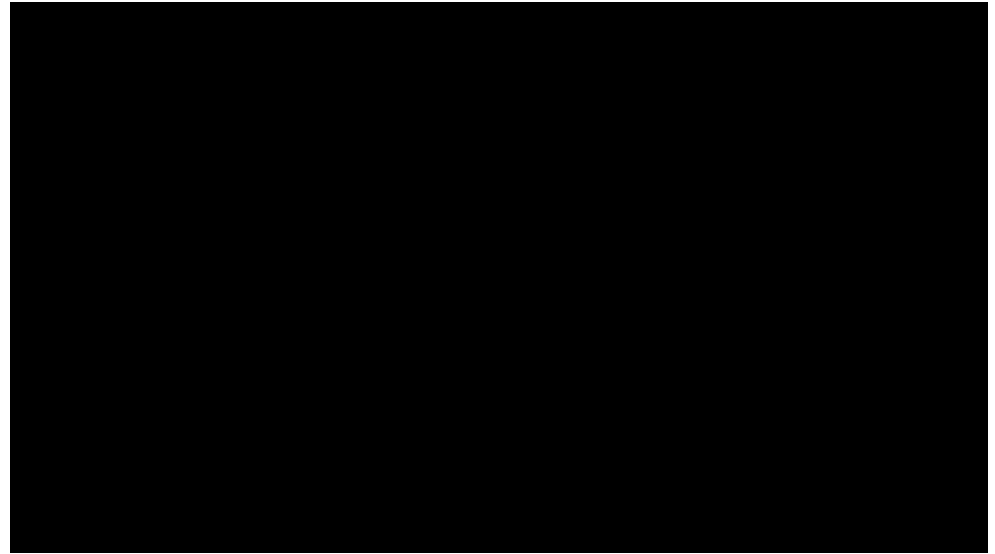


- ✓ EtherCAT (Beckhoff) EtherCat Slave Information (ESI)



Commissioning

- ✓ Parametrierung bei PROFINET und EtherNET/IP über Webserver



YouTube: EGI – Commissioning

9. Next steps

Next steps

- ✓ **Sales release on 7th of October**
 - ✓ General content available (catalogues, manual, 3d data, ..)

- ✓ **Communication start on 14th of October**
 - ✓ Updated Flyer (2 pages)
 - ✓ Press information
 - ✓ Slider on website
 - ✓ Updated landing page
 - ✓ Social media postings
 - ✓ Newsroom website

Superior Clamping and Gripping



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für sicheres, präzises Greifen und Halten.
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