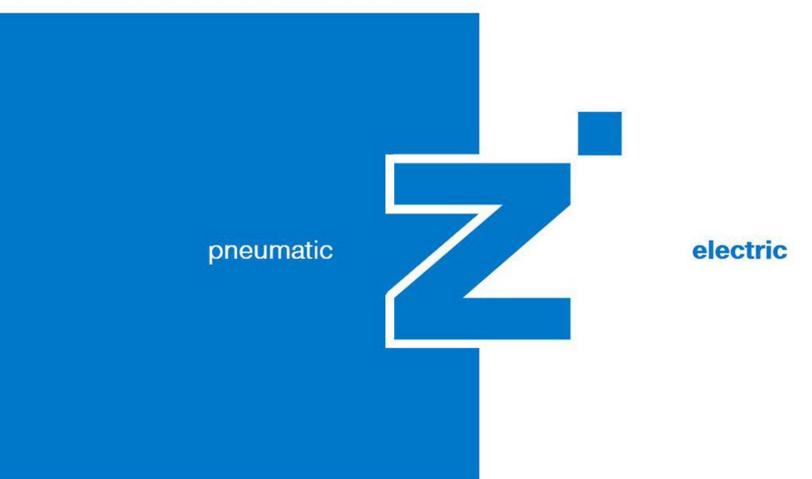


GRIPPERLINE 5000 PNEUMATIC. ELECTRICAL. THE GRIPPER.

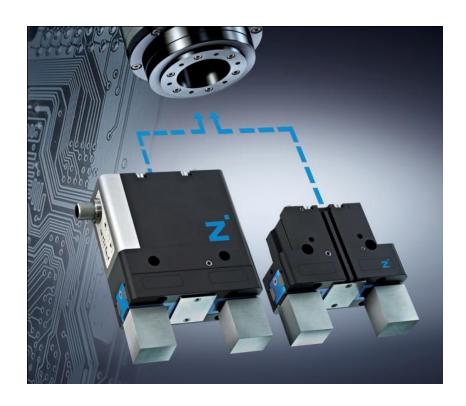


GRIPPER SERIES 5000





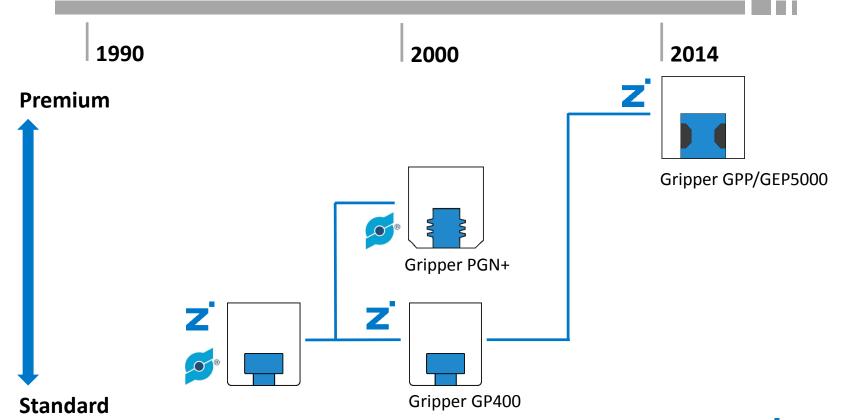
OUR GOAL - OUR MISSION



"A premium gripper must have more functionality than any others. This is our goal and our mission - for our customers"

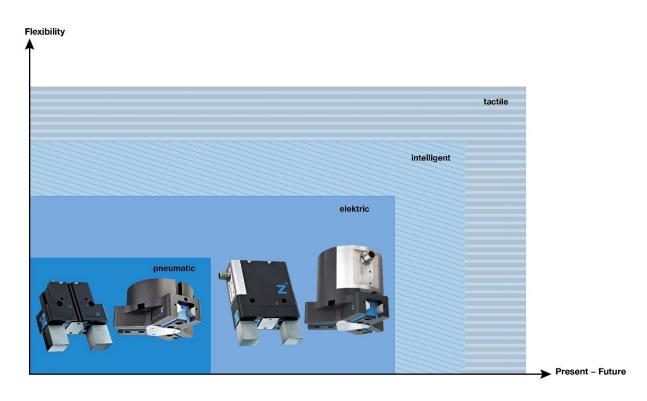


OUR GOAL - OUR MISSION





OUR INTEGRATED PRODUCT PNEUMATIC AND ELECTRICAL



2-JAW PARALLEL GRIPPERS PNEUMATIC SERIES GPP5000

+ PHYSICAL SIZE GPP5003 – GPP5030

3-JAW CENTERING GRIPPER PNEUMATIC SERIES GPD5000

+ PHYSICAL SIZE GPD5003 - GPD5025

2-JAW PARALLEL GRIPPERS ELECTRICAL SERIES GEP5000

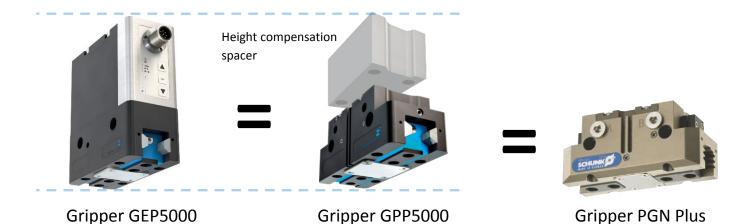
+ PHYSICAL SIZE GEP5006 – GEP5010

3-JAW CENTERING GRIPPER ELECTRICAL SERIES GED5000

+ PHYSICAL SIZE GED5006 – GED5010



COMPATIBILITY





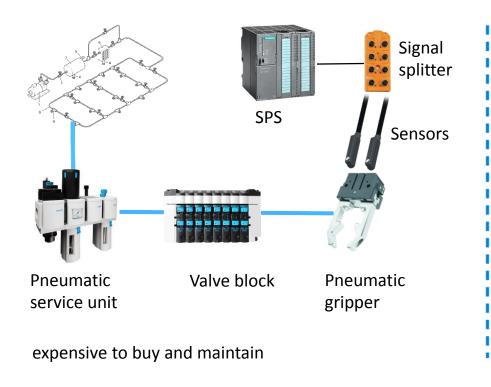


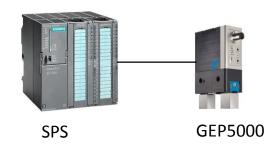


Gripper GP400



THE NEW GEP/GED 5000 ELECTRICAL GRIPPER SERIES EASY TO INTEGRATE, EASY TO USE

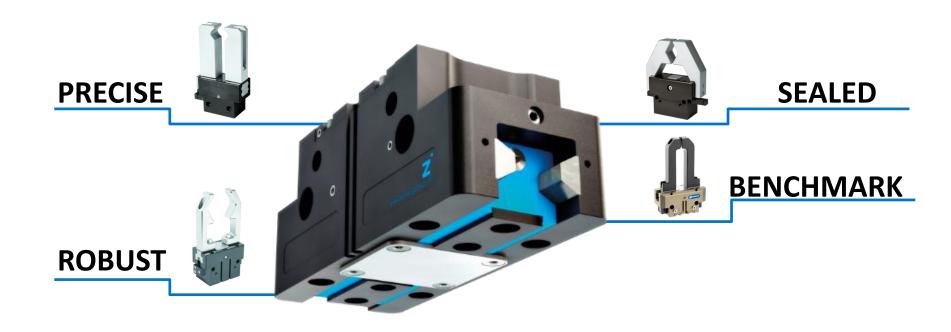




simple, reliable, low-maintenance



THE BEST, PAST AND FUTURE

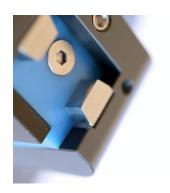




2-JAW PARALLEL GRIPPERS 3-JAW CENTERING GRIPPERS PNEUMATIC



2-JAW PARALLEL GRIPPERS AND 3-JAW CENTERING GRIPPERS PNEUMATIC







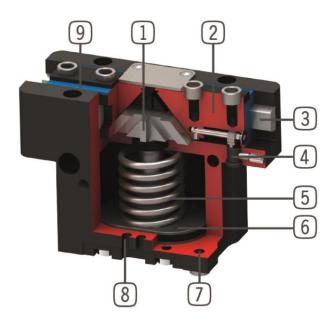


Unique selling points of the series

- Up to 30% more gripping force
- + 10% higher static forces and moments than the benchmark
- + Gripper jaws 10% longer than the benchmark
- + Jaw weight 15% higher than the benchmark
- Sealed guide IP64/Protector version IP67 (with purged air)
- Protected against corrosion
- Maintenance free up to 30 million cycles
- + Steel linear guide



2-JAW PARALLEL GRIPPERS PNEUMATIC SERIES GPP5000



1 Positively driven wedge hook transmission

- Supports to absorb high forces and moments
- Synchronized gripper jaw movement

(2) Gripper jaw

- DLC coated to protect against corrosion
- Gripper fingers mounted using removable centring sleeves
- Lubricated for life via incorporated lubrication slots

3 Steel Linear Guide

- Steel in steel guide
- Enables use of extremely long gripper fingers

4 Mounting block

- mounting for inductive proximity switch

5 Integrated gripping force safety device

- Spring built into cylinder chamber as an energy store

6 Drive

- Double-acting pneumatic rotor cylinder

7 Mounting and positioning

- Alternatively, on several sides for customized mounting
- Pneumatic and electrical versions identical apart from height

8 Sensing slot

- mounting and positioning of magnetic field sensors

9 Dual lip seal

- IP64 and up to IP67 (with purged air) for Protector version
- Prevents grease from being squeezed out, increasing service life

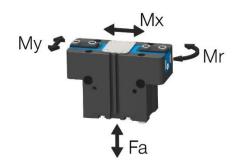


2-JAW PARALLEL GRIPPERS PNEUMATIC SERIES GPP5000

	► Technical data							
Size	Stroke [mm]	Gripping force [N]	Weight [kg]	IP class	Mr [Nm]	Mx [Nm]	My [Nm]	Fa [N]
GPP5003	2,5	140 - 205	0,08 - 0,12	IP64 / IP67*	7	14	13	550
GPP5004	2 - 4	200 - 630	0,16 - 0,3	IP64 / IP67*	14	29	23	750
GPP5006	3 - 6	330 - 1080	0,28 - 0,44	IP64 / IP67*	43	70	46	1250
GPP5008	4 - 8	520 - 1670	0,53 - 0,76	IP64 / IP67*	60	105	65	1900
GPP5010	5 - 10	885 - 2890	0,87 - 1,31	IP64 / IP67*	75	125	95	2700
GPP5013	6 - 13	1410 - 4400	1,5 - 2,26	IP64 / IP67*	110	150	130	3300
GPP5016	8 - 16	2090 - 6600	2,9 - 4,4	IP64 / IP67*	145	195	185	5200
GPP5025	14 - 25	3280 - 9130	6,1 - 8,75	IP64 / IP67*	180	205	225	7500
GPP5030	17 - 30	5000 - 13550	9,2 - 13,7	IP64 / IP67*	210	290	310	9500

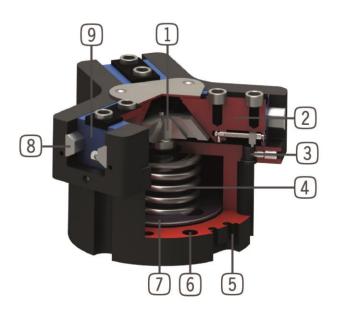
^{*} with purged air







3-JAW CENTERING GRIPPER PNEUMATIC SERIES GPD5000



1 Positively driven wedge hook transmission

- high forces and moments capacity
- Synchronized gripper jaw movement

(2) Gripper jaw

- DLC coated to protect against corrosion
- Gripper fingers mounted using removable centring sleeves
- Lubricated for life via incorporated lubrication slots

3 Mounting block

- mounting for inductive proximity switch

4 Integrated gripping force safety device

- Spring built into cylinder chamber as an energy store

(5) Sensing slot

- mounting and positioning of magnetic field sensors

6 Mounting and positioning

- Alternatively, on several sides for customized mounting
- Pneumatic and electrical versions identical apart from height

7 Drive

- Double-acting pneumatic rotor cylinder

8 Steel Linear Guide

- Steel in steel guide
- Enables use of extremely long gripper fingers

9 Dual lip seal

- IP64 and up to IP67 (with purged air) for Protector version
- Prevents grease from being squeezed out, increasing service life



3-JAW CENTERING GRIPPER PNEUMATIC SERIES GPD5000

	Technical data							
Size	Stroke [mm]	Gripping force [N]	Weight [kg]	IP class	Mr [Nm]	Mx [Nm]	My [Nm]	Fa [N]
GPD5003	2,5	310 - 465	0,18 - 0,22	IP64 / IP67*	7	14	13	550
GPD5004	2 - 4	460 - 1520	0,35 - 0,41	IP64 / IP67*	14	29	23	750
GPD5006	3 - 6	740 - 2370	0,61 - 0,71	IP64 / IP67*	43	70	46	1250
GPD5008	4 - 8	1260 - 3910	0,83 - 1,2	IP64 / IP67*	60	105	65	1900
GPD5010	5 - 10	2290 - 7160	1,45 - 2,23	IP64 / IP67*	75	125	95	2700
GPD5013	6 - 13	3770 - 11450	2,6 - 4,05	IP64 / IP67*	110	150	130	3300
GPD5016	8 - 16	6870 - 20330	5,7 - 8,6	IP64 / IP67*	145	195	185	5200
GPD5025	14 - 25	8430 - 22850	11,8 - 17,6	IP64 / IP67*	180	205	225	7500
GPD5030	17 - 30	12130 - 32400	21,0 - 30,5	IP64 / IP67*	210	290	310	9500

^{*} with purged air







2-JAW PARALLEL GRIPPERS 3-JAW CENTERING GRIPPERS ELECTRICAL



2-JAW PARALLEL GRIPPERS AND 3-JAW CENTERING GRIPPERS ELECTRICAL









Unique selling points of the series

- + Integrated position sensing
- Selectable closing time and gripping force
- Single-cable solution Plug and Play
- Integrated ACM (Advanced Control Module)
- Up to 30% more gripping force/at eye level with the pneumatic gripper
- + 10% higher static forces and moments than the benchmark
- + Gripper jaws 10% longer than the benchmark
- + Jaw weight 15% higher than the benchmark
- + Sealed guide IP64
- Protected against corrosion
- + Maintenance free up to 30 million cycles
- Steel Linear Guide



2-JAW PARALLEL GRIPPERS ELECTRICAL SERIES GEP5000



1 Positively driven wedge hook transmission

- Supports to absorb high forces and moments
- Synchronized gripper jaw movement

2 Gripper jaw

- DLC coated to protect against corrosion
- Gripper fingers mounted using removable centring sleeves
- Lubricated for life via incorporated lubrication slots

3 Dual lip seal

- Enables IP64
- Prevents grease from being squeezed out, increasing service life

4 Steel Linear Guide

- Steel in steel quide
- Enables use of extremely long gripper fingers

(5) Mounting and positioning

- Alternatively, on several sides for customized mounting
- Pneumatic and electrical versions identical apart from height

6 BLDC motor

- Wear-resistant brushless DC motor

7 Advanced control module

- Integrated control module with single-cable solution
- Gripping force, travel time and query programmable via the control panel on the housing

8 Drive train

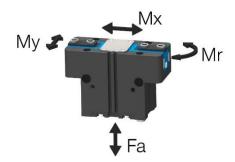
- Combination of trapezoidal spindle and planetary gear
- Durable and robust



2-JAW PARALLEL GRIPPERS ELECTRICAL SERIES GEP5000

	► Technical data									
Size	Stroke [mm]	Gripping force [N]	Weight [kg]	IP class	Max. current con- sumption per cycle [A]	Mr [Nm]	Mx [Nm]	My [Nm]	Fa [N]	
GEP5006	6	500 - 1000	0,79	IP64	5 A	43	70	46	1250	
GEP5008	8	750 - 1350	1,16	IP64	5 A	60	105	65	1900	
GEP5010	10	1000 - 1600	1,66	IP64	5 A	75	125	95	2700	







3-JAW CENTERING GRIPPERS ELECTRICAL SERIES GED5000



1 Positively driven wedge hook transmission

- high forces and moments capacity
- Synchronized gripper jaw movement

2 Gripper jaw

- DLC coated to protect against corrosion
- Gripper fingers mounted using removable centring sleeves
- Lubricated for life via incorporated lubrication slots

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3-JAW CENTERING GRIPPERS ELECTRICAL SERIES GED5000

	► Technical data								
Size	Stroke [mm]	Gripping force [N]	Weight [kg]	IP class	Max. current consumption per cycle [A]	Mr [Nm]	Mx [Nm]	My [Nm]	Fa [N]
GED5006	6	500 - 1000	1,09	IP64	5 A	43	70	46	1250
GED5008	8	750 - 1350	1,66	IP64	5 A	60	105	65	1900
GED5010	10	1000 - 1600	2,33	IP64	5 A	75	125	95	2700







GRIPPER SERIES 5000







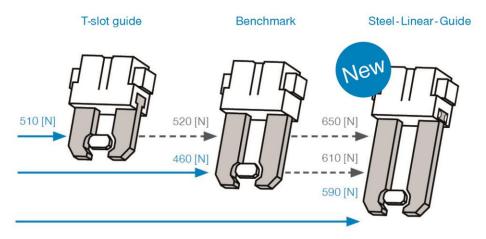


Do you want to use one gripper for any task?

- Reduce the number of articles to manage
- Cut your design and stock-keeping costs to a minimum
- The gripper guarantees you process reliability, no matter what the environmental conditions
- + Protected against corrosion
- Select either a pneumatic or electric drive to give you maximum flexibility when creating your design



GRIPPER SERIES 5000



Is installing the most powerful components important to you?

- + Increase the safety of your machine by installing a gripper from this series
- + It offers you up to 30% higher gripping force and up to 10% higher static forces and moments
- Using it means you can install gripper fingers that are up to 10% longer than the best-known models in the market
- + And you can be sure that these grippers give you the same performance as electrically driven grippers.





Are details important to you?

- The transverse sensor grooves mean you can change the piston position sensing quickly and easily, wherever the gripper is installed
- Only one interference contour check required, because a spacer compensates for the height difference between the electrical and pneumatic gripper
- With additional pin holes underneath the cover plate for customer-specific attachments
- With integrated lubrication reservoir









Universal jaw steel

Changeable jaw, loosepart-set

Changeable jaw, fix-part



2-Position-Sensor Cable 0,3 m - Connector M8



Plug-in connector Angled Cable 5m - Socket M8 (female)



ble 5m - Socket M8 (female)



Angled Fittings - Quick Connect Style



Straight Fittings - Quick Connect Style



Quick Exhaust Valve

Do you want a wide range of accessories, perfectly tailored to your gripper?

- Our product range has quick-release jaws that fit every Series 5000 gripper, so you can reduce setup times to a minimum
- 2-position sensors that enable you to space saving position sensing
- + Our multitude of tools and accessories means you get everything you need for your gripper from one source

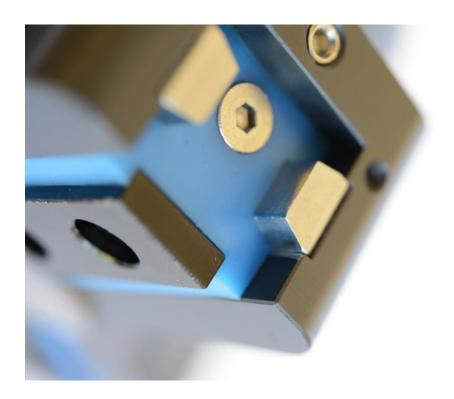




Any concerns about using an electrical gripper?

- Our electrical grippers don't need an additional control unit or any extra sensors like the others
- You can use the Advanced Control Module, the first ever developed for this purpose, with its intuitive menu-driven user interface, to individually adjust the gripping force, travel time and 3 positioning signals
- + To save space, the power supply and I/O control share a cable





Do you want state-of-the art technology in your machine?

- The gripper's Steel Linear Guide combines proven linear guide principles with the very latest sealing and DLC coating technology
- + You benefit from one of the most robust and long-lasting grippers currently available on the market, with a maintenance-free working life of up to 30 million cycles



FUTURE BENEFITS



- Logical and easy to set up and use
- Technical parameters and information can be set and modified easily
- + Intelligent components can be integrated in a higher-level control system with ease
- Non-platform-specific: easy to integrate in modern control systems (HTML5 and OPC)
- The Zimmer Group HMI is non-platform-specific and appenabled, for quick updates and upgrades.
- Modern, intelligent components need a transparent, userfriendly HMI
- The Zimmer HMI enables users to display and run each one of a component's functions, during commissioning, whilst the system is running and for servicing
- + Intelligent components networked via IO link





THANK YOU FOR YOUR ATTENTION

