

2-JAW PARALLEL GRIPPERS WITH LONG STROKE SERIES OVERVIEW

1

2-Jaw-Parallel Grippers with long stroke / electrical / Grippers



2-JAW PARALLEL GRIPPERS WITH LONG STROKE ELECTRICAL

▶ FURTHER INFORMATION on page 274

Series GEH6000 

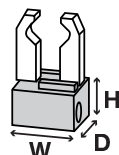
WORKING CONDITIONS: clean dirty

FUNCTIONALITY: - +

PRICE: + ++

„The powerful“

- ▶ 60% more powerful than comparative products
- ▶ Servo drive
- ▶ capable of Multibus



▶ Technical Data

Installation size	Stroke per Jaw [mm]		Holding force max. [N]		Weight [kg]	
	from	to	from	to	from	to
GEH6030	0	30	1000	1000	0,7	0,7
GEH6060	0	60	1000	1000	0,9	0,9
GEH6140	0	40	2000	2000	1,8	1,8
GEH6180	0	80	2000	2000	2,6	2,6

▶ Dimension

Installation size	Width [mm]	Height [mm]	Depth [mm]
GEH6030	70	46	62
GEH6060	130	46	62
GEH6140	110	73	90
GEH6180	190	73	90

▶ FURTHER INFORMATION on page 282

Series GEH8000 

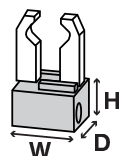
WORKING CONDITIONS: clean dirty

FUNCTIONALITY: - +

PRICE: + ++

„The strong“

- ▶ High gripping force
- ▶ Servo drive
- ▶ capable of Multibus



▶ Technical Data

Installation size	Stroke per Jaw [mm]		Max. retention force (at 100 % opening usage) [N]		Weight [kg]	
	from	to	from	to	from	to
GEH8660	0	60	3200	3200	10	10

▶ Dimension

Installation size	Width [mm]	Height [mm]	Depth [mm]
GEH8660	234	110	130

2-JAW PARALLEL GRIPPERS

SERIES GEH6000

▶ PRODUCT ADVANTAGES

SOMMER
automatic **S**



“The powerful”

- ▶ **60% more powerful than comparative products**
Optimisation of weight and force reduces your application costs since all components can have a smaller scale
- ▶ **Servo drive**
Position, speed and force control in combination with a self-locking mechanism guarantee the highest functionality
- ▶ **Multibus**
Be flexible: CANopen, DeviceNet or PROFIBUS - You decide what harmonises the best with your system

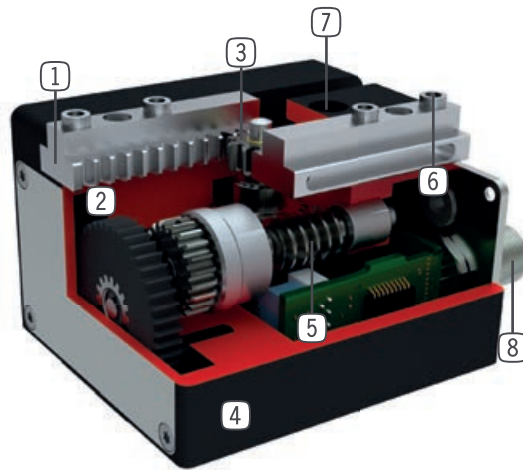
▶ THE BEST PRODUCT FOR YOUR APPLICATION



- ▶ **Our products love the challenge!**
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:
Find the best product for your specific use:
www.zimmer-group.de

► BENEFITS IN DETAIL

- ① **Precise T-Slot guide**
- high forces and moments capacity
- ② **Drive**
- DC-Motor with encoder
- ③ **Rack and pinion gear**
- synchronized the movement of the gripper jaws
- high force transfer
- ④ **Robust, lightweight housing**
- hard coated aluminium alloy
- ⑤ **Helical gear - worm gear**
- self locking in case of power drop
- ⑥ **Removable centering sleeves**
- quick and economical positioning of the gripper fingers
- ⑦ **Mounting and positioning**
- mounting possible from several sides for versatile positioning
- ⑧ **Energy supply**
- standardized connector



► FURTHER INFORMATION IS AVAILABLE ONLINE



► Technical Information

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



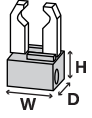
2-JAW PARALLEL GRIPPERS

SERIES GEH6000

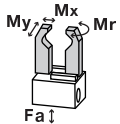
1

Series GEH6000 / 2-Jaw Parallel Grippers / electric / Grippers

Installation Size: GEH6030



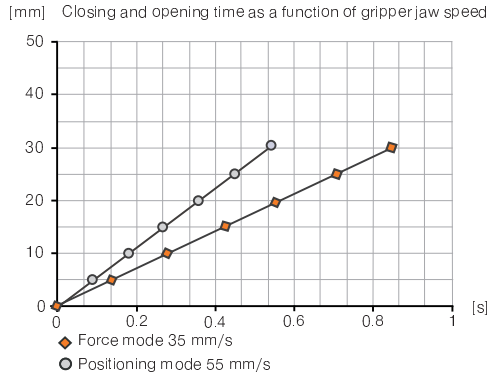
Dimension		
Width [mm]	Height [mm]	Depth [mm]
70	46	62



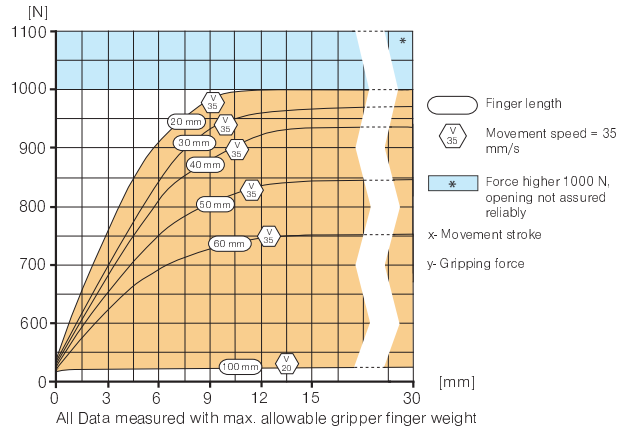
Force and moment			
Mr [Nm]	Mx [Nm]	My [Nm]	Fa [N]
25	25	25	500

Technical Data		Weight	drive
Stroke per jaw, adjustable			
Order no.	[mm]	[kg]	
GEH6030	30	0.7	DC-Motor m. Encoder

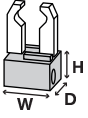
Speed - Time diagram



Gripping force diagram

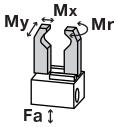


Installation Size: GEH6060



Dimension

Width [mm]	Height [mm]	Depth [mm]
130	46	62



Force and moment

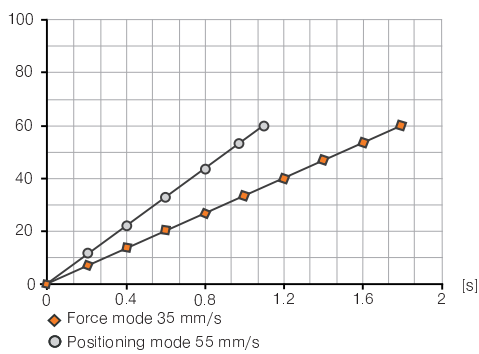
Mr [Nm]	Mx [Nm]	My [Nm]	Fa [N]
35	35	35	500

Technical Data

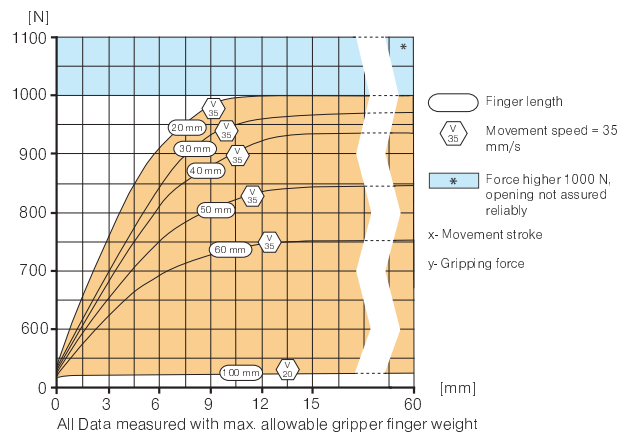
Order no.	Stroke per jaw, adjustable [mm]	Weight [kg]	drive
GEH6060	60	0.9	DC-Motor m. Encoder

Speed - Time diagram

[mm] Closing and opening time as a function of gripper jaw speed



Gripping force diagram

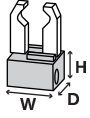


2-JAW PARALLEL GRIPPERS

SERIES GEH6000

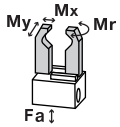
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Installation Size: GEH6140



Dimension

Width [mm]	Height [mm]	Depth [mm]
110	73	90



Force and moment

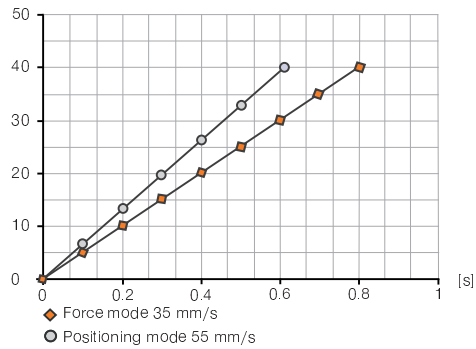
Mr [Nm]	Mx [Nm]	My [Nm]	Fa [N]
70	80	60	1500

Technical Data

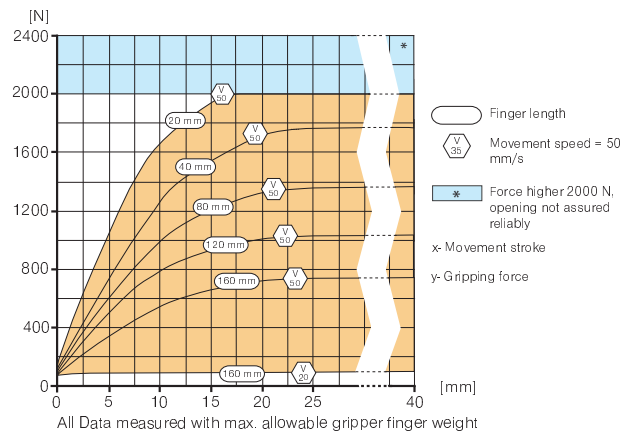
Order no.	Stroke per jaw, adjustable [mm]	Weight [kg]	drive
GEH6140	40	1.8	DC-Motor m. Encoder

Speed - Time diagram

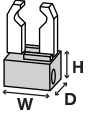
[mm] Closing and opening time as a function of gripper jaw speed



Gripping force diagram

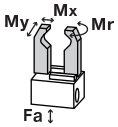


Installation Size: GEH6180



Dimension

Width [mm]	Height [mm]	Depth [mm]
190	73	90



Force and moment

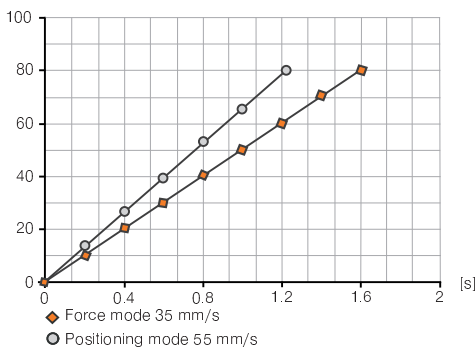
Mr [Nm]	Mx [Nm]	My [Nm]	Fa [N]
100	140	90	1500

Technical Data

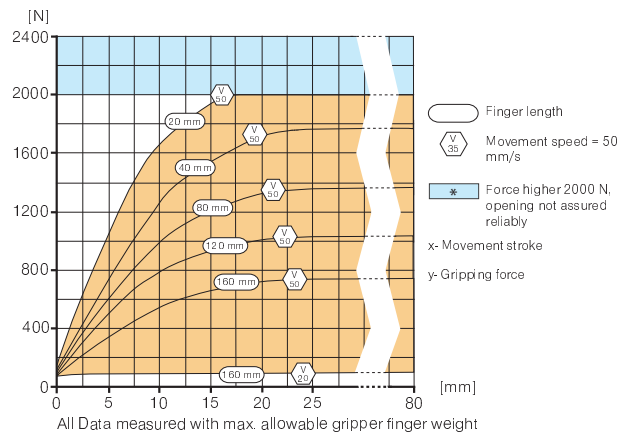
Order no.	Stroke per jaw, adjustable [mm]	Weight [kg]	drive
GEH6180	80	2.6	DC-Motor m. Encoder

Speed - Time diagram

[mm] Closing and opening time as a function of gripper jaw speed



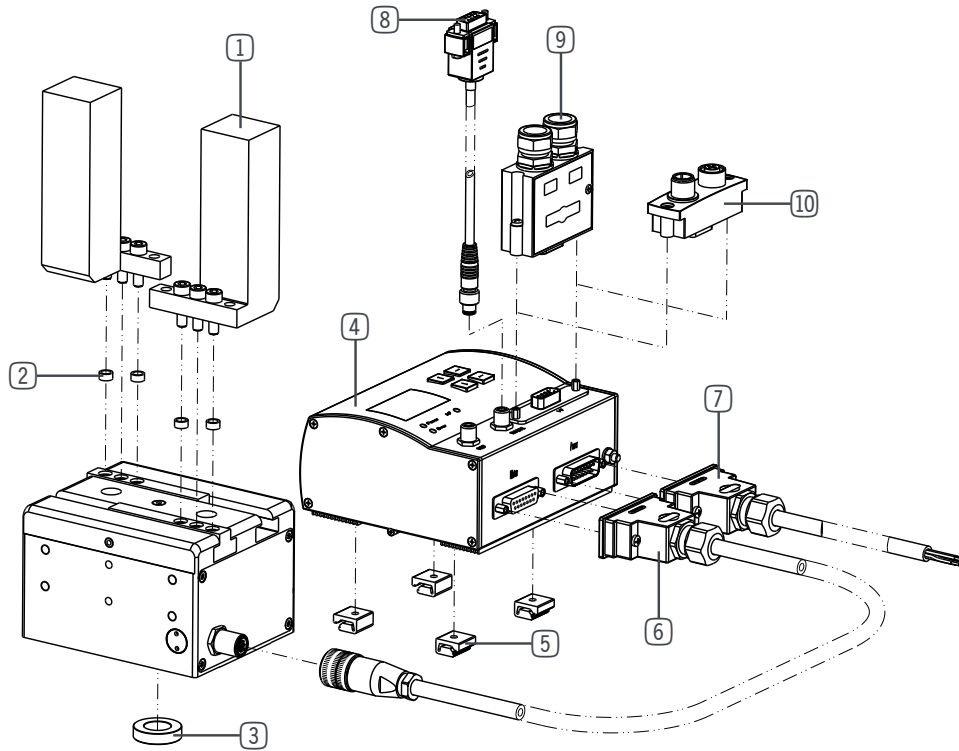
Gripping force diagram



2-JAW PARALLEL GRIPPERS

SERIES GEH6000

▶ ACCESSORIES



▶ Installation Size: **GEH6030**

Pos.	Accessories	Order no.
①	Universal Jaw Aluminium	UB6000-B
③	Centering Disc	ZE12H7X4
④	Motor Controller PROFIBUS	CREG00018
④	Motor Controller CANopen	CREG00019
④	Motor Controller DeviceNet	CREG00020
⑤	Middle bracket	CLTG00121
⑥	Motor Cable 5m	CLTG00060
⑥	Motor Cable 2,5m	CLTG00119
⑥	Motor Cable 10m	CLTG00120
⑦	Feeder 5m	CLTG00057
⑦	Feeder 2,5m	CLTG00117
⑦	Feeder 10m	CLTG00118
⑧	Programming Cable 2,5m	CLTG00065
⑨	Bus Terminal Resistor Customizable PROFIBUS	CSTE00033
⑨	Bus Terminal Resistor Customized CANopen, DeviceNet	CSTE00292
⑩	Bus Terminal Resistor Plug-in PROFIBUS	CSTE00044
⑩	Bus Terminal Resistor Plug-in CANopen, DeviceNet	CSTE00293
	Delivery contents	Order no.
②	Centering Disc	BDST40400

▶ Installation Size: **GEH6060**

Pos.	Accessories	Order no.
①	Universal Jaw Aluminium	UB6000-B
③	Centering Disc	ZE12H7X4
④	Motor Controller PROFIBUS	CREG00018
④	Motor Controller CANopen	CREG00019
④	Motor Controller DeviceNet	CREG00020
⑤	Middle bracket	CLTG00121
⑥	Motor Cable 5m	CLTG00060
⑥	Motor Cable 2,5m	CLTG00119
⑥	Motor Cable 10m	CLTG00120
⑦	Feeder 5m	CLTG00057
⑦	Feeder 2,5m	CLTG00117
⑦	Feeder 10m	CLTG00118
⑧	Programming Cable 2,5m	CLTG00065
⑨	Bus Terminal Resistor Customizable PROFIBUS	CSTE00033
⑨	Bus Terminal Resistor Customized CANopen, DeviceNet	CSTE00292
⑩	Bus Terminal Resistor Plug-in PROFIBUS	CSTE00044
⑩	Bus Terminal Resistor Plug-in CANopen, DeviceNet	CSTE00293
	Delivery contents	Order no.
②	Centering Disc	BDST40400

► Installation Size: **GEH6140**

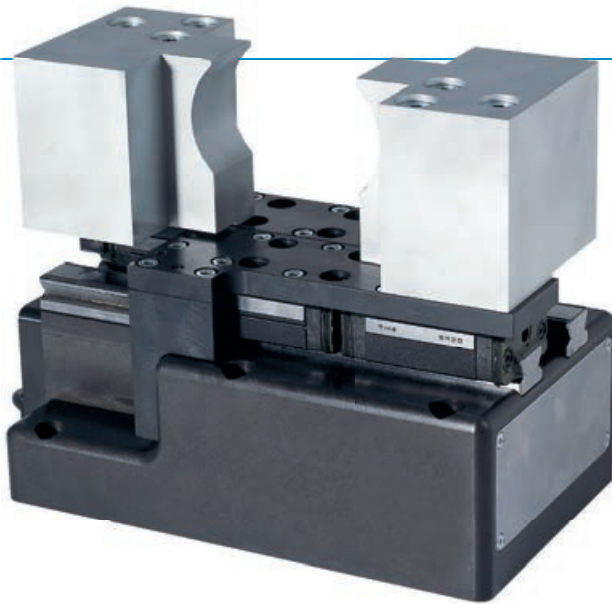
Pos.	Accessories	Order no.
①	Universal Jaw Aluminium	UB6100-B
③	Centering Disc	ZE25H7X6
④	Motor Controller PROFIBUS	CREG00018
④	Motor Controller CANopen	CREG00019
④	Motor Controller DeviceNet	CREG00020
⑤	Middle bracket	CLTG00121
⑥	Motor Cable 5m	CLTG00060
⑥	Motor Cable 2,5m	CLTG00119
⑥	Motor Cable 10m	CLTG00120
⑦	Feeder 5m	CLTG00057
⑦	Feeder 2,5m	CLTG00117
⑦	Feeder 10m	CLTG00118
⑧	Programming Cable 2,5m	CLTG00065
⑨	Bus Terminal Resistor Customizable PROFIBUS	CSTE00033
⑨	Bus Terminal Resistor Customized CANopen, DeviceNet	CSTE00292
⑩	Bus Terminal Resistor Plug-in PROFIBUS	CSTE00044
⑩	Bus Terminal Resistor Plug-in CANopen, DeviceNet	CSTE00293
	Delivery contents	Order no.
②	Centering Disc	BDST70000

► Installation Size: **GEH6180**

Pos.	Accessories	Order no.
①	Universal Jaw Aluminium	UB6100-B
③	Centering Disc	ZE25H7X6
④	Motor Controller PROFIBUS	CREG00018
④	Motor Controller CANopen	CREG00019
④	Motor Controller DeviceNet	CREG00020
⑤	Middle bracket	CLTG00121
⑥	Motor Cable 5m	CLTG00060
⑥	Motor Cable 2,5m	CLTG00119
⑥	Motor Cable 10m	CLTG00120
⑦	Feeder 5m	CLTG00057
⑦	Feeder 2,5m	CLTG00117
⑦	Feeder 10m	CLTG00118
⑧	Programming Cable 2,5m	CLTG00065
⑨	Bus Terminal Resistor Customizable PROFIBUS	CSTE00033
⑨	Bus Terminal Resistor Customized CANopen, DeviceNet	CSTE00292
⑩	Bus Terminal Resistor Plug-in PROFIBUS	CSTE00044
⑩	Bus Terminal Resistor Plug-in CANopen, DeviceNet	CSTE00293
	Delivery contents	Order no.
②	Centering Disc	BDST70000

2-JAW PARALLEL GRIPPERS WITH LONG STROKE SERIES GEH8000

▶ PRODUCT ADVANTAGES



“The sturdy”

- ▶ **High gripping force**
Using the high gripping force, you can safely handle even the heaviest workpieces
- ▶ **Servo drive**
Position, speed and force control in combination with a mechanical self-locking mechanism guarantee the highest functionality
- ▶ **Multibus**
How you stay flexible: PROFIBUS, SERCOS III, PROFINET IO, EtherNet/IP or EtherCat - You decide what harmonises best with your system

▶ THE BEST PRODUCT FOR YOUR APPLICATION



- ▶ **Our products love the challenge!**
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:
Find the best product for your specific use:
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► BENEFITS IN DETAIL

① Energy supply

- motor cable, female
- encoder cable, male

② Removable centering sleeves

- quick and economical positioning of the gripper fingers

③ Drive

- AC servo motor

④ Gripper jaw

- hardened steel
- individual gripper finger mounting

⑤ Precise linear guide

- high forces and moments capacity
- guide wagon with wiper for harsh environments

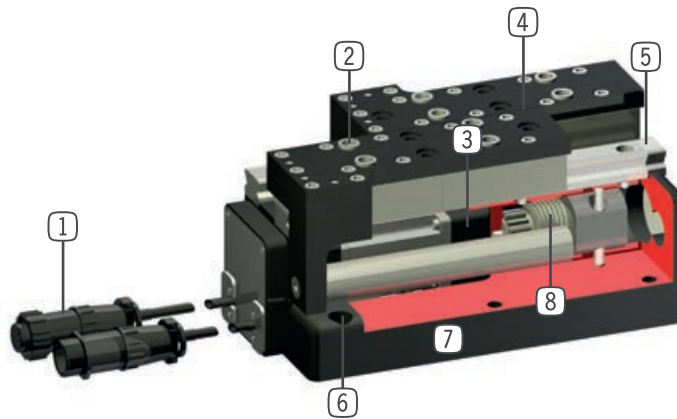
⑥ Mounting and positioning

⑦ Robust, lightweight housing

- hard coated aluminium alloy

⑧ Synchronization

- via rack and pinion



► FURTHER INFORMATION IS AVAILABLE ONLINE



► Technical Information

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Find data, illustrations, 3D models and Installation instructions for your installation size using the order number for your desired product.

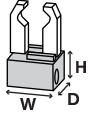
Quick, clear and always current.



2-JAW PARALLEL GRIPPERS WITH LONG STROKE SERIES GEH8000

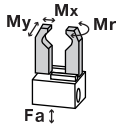
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Installation Size: GEH8660



Dimension

Width [mm]	Height [mm]	Depth [mm]
234	110	130



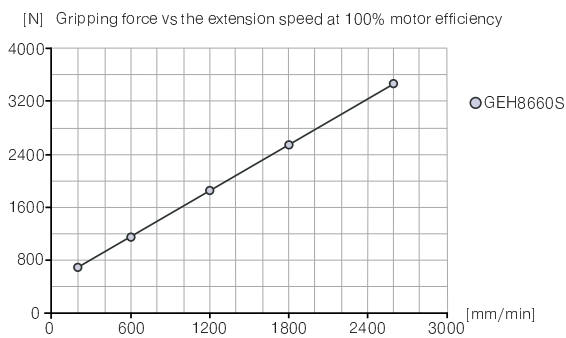
Force and moment

Mr [Nm]	Mx [Nm]	My [Nm]	Fa [N]
220	220	950	5000

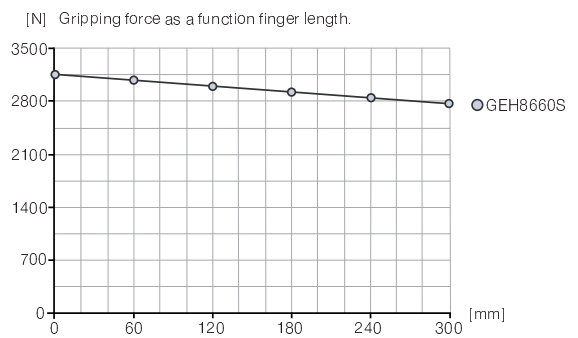
Technical Data

Order no.	Stroke per jaw [mm]	Weight [kg]	Holding force [N]	
			min.	max.
GEH8660	60	10	100	3200

Gripping force diagram

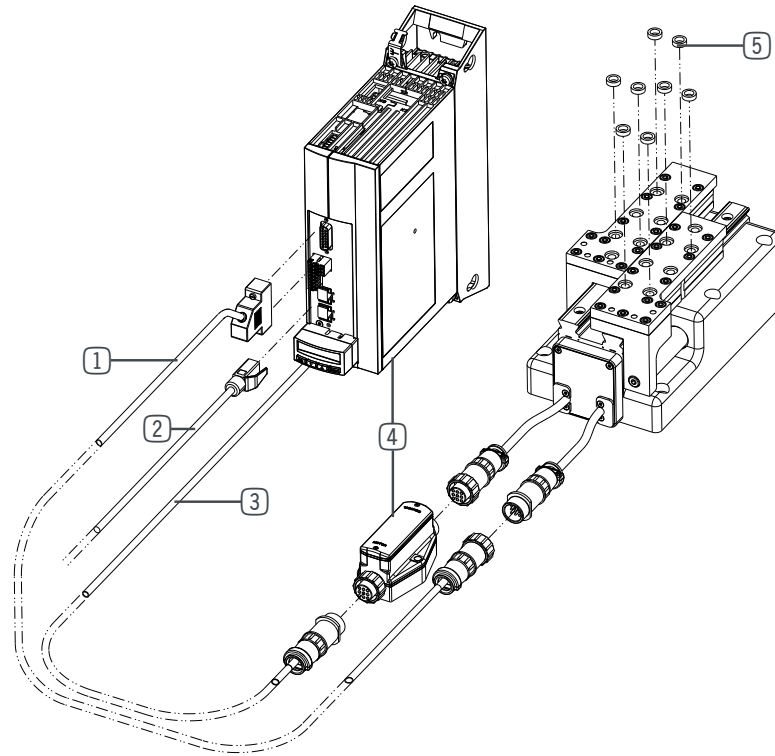


Gripping force diagram



2-JAW PARALLEL GRIPPERS WITH LONG STROKE SERIES GEH8000

▶ ACCESSORIES



▶ Installation Size: GEH8660

Pos.	Accessories	Order no.
①	Programming cable	ZUBHCSKAP01
②	Power cable 5 m	ZUBHCSKAL05
②	Power cable 10 m	ZUBHCSKAL10
②	Power cable 25 m	ZUBHCSKAL25
③	Encoder cable 5 m	ZUBHCSKAG05
③	Encoder cable 10 m	ZUBHCSKAG10
③	Encoder cable 25 m	ZUBHCSKAG25
④	Drive controller (STO)	ZUBHCS
	Indra Works Drive Start Up CD	ZUBHCSS
Delivery contents		Order no.
⑤	Centering Disc	BDST41600
	Software CD	CD0004