

# LH-TC·Clamping Technology

*Precise Grabbing Safe Clamping*

**LH-TC**  
End-Of-Arm Tooling

*Committed to becoming the best robot end-effector supplier*



**KAY VYBIN CORPORATION**  
C-5 Raju Industrial Estate, Mira  
Road, Dahisar Check Naka,  
Mumbai, Maharashtra, 401107  
Email: sales@kayvybin.com

**ZHENGZHOU LINGHANG ROBOT CO.,LTD**  
Website: [www.ltautotools.com](http://www.ltautotools.com)  
Address: No.11 Building, Zhengtuo Technology Innovation Park, Duqin  
Road, Mazhai industrial zone, Erqi District, Zhengzhou, China 450000

ZHENGZHOU LINGHANG ROBOT  
CO.,LTD

# CONTENTS

# LH-TC

## End-Of-Arm Tooling

High-technology enterprise  
Listed in China stock exchange (Stock code 200649)



Handling



Grabbing



Assembly



Demonstration



Welding



Sorting



Palletizing



Deburring

## 01 About us P01-02

Company Profile.....	01
Honors.....	02

## 02 LH-TC•Clamping technology P03-51

LT-TG2-40series.....	05
LT-TG2-50series.....	07
LT-TG2-64series.....	09
LT-PG2-80series.....	11
LT-PG2-100series.....	13
LT-PG2-125series.....	15
LT-PG2-160series.....	17
LT-PG2-200series.....	19
LT-PG2-240series.....	21
LT-PG2-300series.....	23
LT-PG2-380series.....	25
LT-TG3-40series.....	27
LT-TG3-50series.....	29
LT-TG3-64series.....	31
LT-PG3-80series.....	33
LT-PG3-100series.....	35
LT-PG3-125series.....	37
LT-PG3-160series.....	39
LT-PG3-200series.....	41
LT-PG3-240series.....	43
LT-PG3-300series.....	45
LT-PG3-380series.....	47
How to make a quick selection.....	49
Selection notes.....	50
Optional components.....	51

## 03 LH-TC•Jaw quick change device P52-55

LT-JQC-50-P.....	53
LT-JQC-64-P.....	53
LT-JQC-80-P.....	53
LT-JQC-100-P.....	54
LT-JQC-125-P.....	54
LT-JQC-160-P.....	54
LT-JQC-200-P.....	55
LT-JQC-240-P.....	55
LT-JQC-300-P.....	55

## 04 LH-TC•Sales Network P56

# Company Profile





Zhengzhou Linghang Robot Co.,Ltd with trademark "LH-TC", mentioned as "Linghang" afterwards, was founded in year 2015, with registered capital RMB24.63millions, listed in Zhongyuan stock exchange Market(stock code 200649), is located in No.11 Building, Zhengtuo technology and Innovation park, Erqi industrial development zone, Zhengzhou city, Linghang owns a professional and independent R&D team and a modern intelligent production plant, is a national high-tech enterprise which integrated design, production, sales and service as a whole concept.

In China there are numbers of offices in South China, East China, Center China, Northeast China and Southwest China, and develops many agencies and dealers in Europe, North America, Southeast Asia, the products have been exported to more than 60 countries and regions.

Linghang has been awarded honorary titles of "National high-tech Enterprise", "Henan Province science and technology enterprises", "Henan Province Specialized and Special New Enterprise".

Linghang has gained ISO9001 quality system certification, CE and SIL safety certifications, with more than 70 patents and 5 copyrights.

The main products are robot tool changers, spot welding tool changers, utility couplers, floating deburring tools, pneumatic grippers and energy coupling devices, provide unlimited flexible tool switching for robot applications, improve production efficiency and safety of industrial robots and cobots. These products are widely used in industrial sites such as automatic spot welding, automatic handling, assembly, deburring, palletizing, etc.

-  Company Vision: Committed to becoming the world's best supplier of robot terminal equipment.
-  Company mission: Keep the original intention of craftsmen, help Chinese intelligence manufacturing to release human labor
-  Company spirit: Innovation, Excellence, Efficiency, Concentration
-  Team Concept: Treat with sincerity, perform with truth



R&D Operation Center

**60+** exported countries and regions

**70+** Patents

**5+** Copyrights

# Honor

Focus on R&D of robot end-of-arm tooling, improve production efficiency of manufacturing industry  
ISO9001 Quality certification, CE and SIL safety certification, more than 70 patents.



# Product

<p><b>Robot Tool Changer</b></p>  <ul style="list-style-type: none"> <li>•The special materials and process combine with the inclined structure perfectly, ensure safety locking</li> <li>•Innovated redundancy signal transmission technology, ensure the transmission of data and signals more stable</li> <li>•Excellent fluid connection technology, ensure no leakage during millions operations.</li> </ul>	<p><b>Pneumatic Gripper</b></p>  <ul style="list-style-type: none"> <li>•The perfect combination of multi-tooth guide rail and trapezoid structure, can bear larger moment and torque;</li> <li>•The unique coating process ensures the precision after ten millions operations;</li> <li>•Unique self-lubricating design, longer maintenance-free service time.</li> </ul>
<p><b>Floating Deburring Tools</b></p>  <ul style="list-style-type: none"> <li>•360-degree radial floating, suitable for deburring various workpieces;</li> <li>•1000-6000RPM electric spindle with replaceable cutter automatically, meet all kinds of process requirements;</li> <li>•Axial floating grinding tools: grind complex surfaces adaptively, adjust the work force precisely, compensate work force within <math>\pm 0.5N</math> in any direction actively.</li> </ul>	<p><b>Floating Position Compensate Device</b></p>  <ul style="list-style-type: none"> <li>•Support position compensation in X&amp;Y, Z, X&amp;Y&amp;Z directions, correct the error in position or angle during assembly and loading precisely.</li> <li>•Ensure the operation is exact by locking the center point and position storing function.</li> <li>•ISO9409 interface to simplify assembled process.</li> </ul>
<p><b>Energy Connectors</b></p>  <ul style="list-style-type: none"> <li>•Modular medium and multi-module interfaces make combination more flexible;</li> <li>•With floating in X, Y, Z direction, eliminate docking errors;</li> <li>•Optional visible LED lights of locked and unlocked status.</li> </ul>	<p><b>Energy Coupling Device</b></p>  <ul style="list-style-type: none"> <li>•Offer energy coupling between the main station and slave station, include power, data, I/O, pneumatic, liquid, ect.</li> <li>•Ultra-high plug life, high stability and reliability</li> <li>•With super current carrying capacity, can resist the strong impact of vibration.</li> </ul>

# LH-TC•CLAMPING TECHNOLOGY

Pneumatic gripper is one of end-effectors which takes compressed air as power to clamp or grab workpieces, can replace human hand, used to catch workpieces with different shapes, measurements, weights and materials, to combine grabbing force and grabbing stroke perfectly and then improve the stability of production process.



LH-TC technology  
high strength mechanism  
grippers



Strong structure, greater  
load bearing capacity



Multi-tooth cross-section  
design, guarantee reliable  
clamping



Multi-sensor sensing  
positions, detect closing  
and opening flexibly



Unique self-lubrication  
design, longer service life  
with maintenance-free



More than 400  
combinations of function  
expansion



## Technology highlights

### More stable

Multi-tooth guide rail combine with trapezoidal structure perfectly, carry greater moment and torque.

### More precise

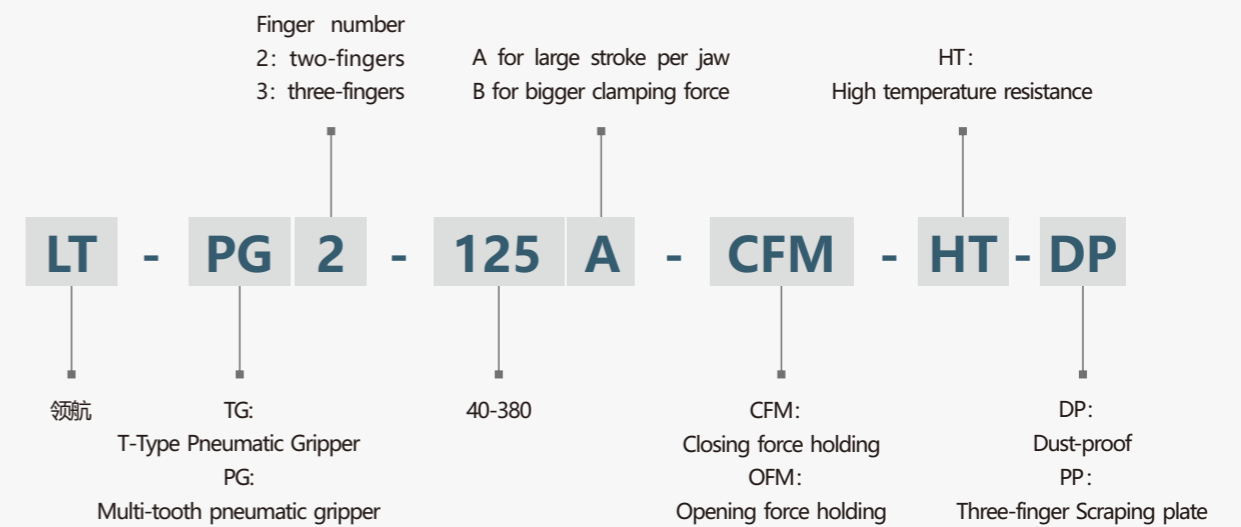
Unique coating process ensures that the precision is almost lossless after millions of grindings.

### Longer service life

Unique self-lubrication design, longer service life with maintenance-free.

## Model naming rules

For example: LT-PG2-125A-CFM-HT-DP LT-PG3-100B-OFM-HT-PP



Note: Three-finger gripper, DP and PP cannot be used at the same time.

# Model: LT-TG2-40series

- ▶ Stroke per jaw: 2.5mm
- ▶ Recommended grabbing weight: 0.76kg
- ▶ Gripper weight: 0.08-0.1kg
- ▶ Largest piston area design for maximum gripping force
- ▶ T-type guide rail design allows precise grasping of various workpieces



Model	LT-TG2-40A	LT-TG2-40A-CFM	LT-TG2-40A-OFM
Item No.	F11010001	F11010002	F11010003
Stroke per jaw (mm)	2.5	2.5	2.5
Closing force (in the position of 20mm)	153	210	/
Opening force (in the position of 20mm)	167	/	224
The Min. holding force (N)	/	57	57
Recommended workpiece weight (kg)	0.76	0.76	0.76
Product weight (kg)	0.08	0.1	0.1
The Min. Air pressure (Mpa)	0.4	0.4	0.4
The Max. Air pressure (Mpa)	0.8	0.65	0.65
Rated air pressure (Mpa)	0.6	0.6	0.6
Suitable temperature (°C)	5~90	5~90	5~90
IP grade (IP)	IP40	IP40	IP40
Open/close time (s)	0.02/0.02	0.03/0.02	0.02/0.03
Repeatability (mm)	0.01	0.01	0.01
Air consumption (cm <sup>3</sup> ) (Round trip)	2.5	4.5	5.5
The allowed longest fingers (mm)	58	54	54
The allowed heaviest single finger (kg)	0.1	0.1	0.1

The recommended workpiece weight is calculated under the conditions of friction coefficient 0.1 and safety factor 2 (not including robot acceleration) for matched gripping. If mechanical locking gripping is used, the grippable workpiece weight will be larger. The product comes with 4 finger location pins and 2 gripper location pins;

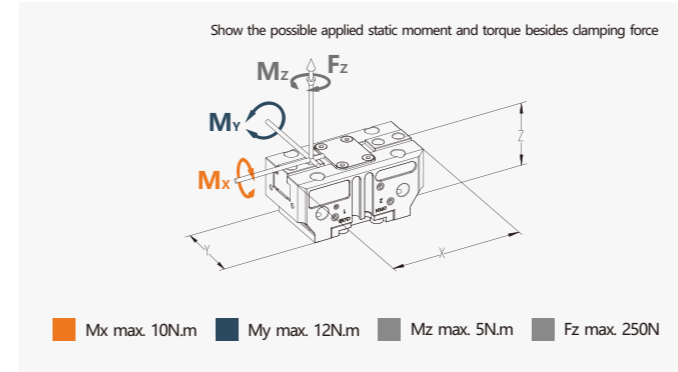
## Extended Function - Dustproof type

Product Model	LT-TG2-40A-DP	LT-TG2-40A-CFM-DP	LT-TG2-40A-OFM-DP
Item No.	F11010005	F11010006	F11010007
IP grade (IP)	IP64	IP64	IP64
Purge air pressure (Mpa)	0.05~0.1	0.05~0.1	0.05~0.1
Product weight (kg)	0.11	0.13	0.13

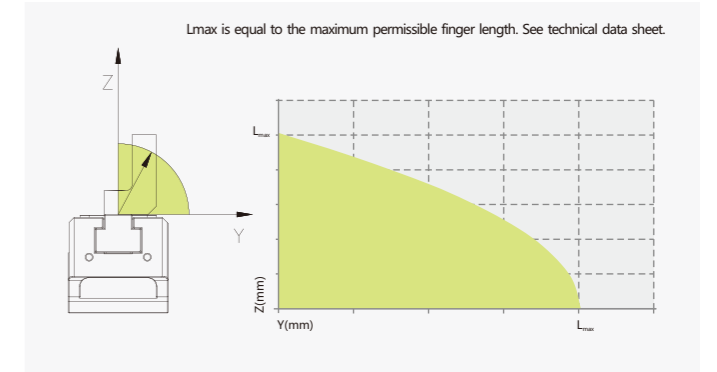
## Extended Function - High temperature type

Product Model	LT-TG2-40A-HT	LT-TG2-40A-CFM-HT	LT-TG2-40A-OFM-HT
Item No.	F11010008	F11010009	F11010010
Suitable temperature (°C)	5~130	5~130	5~130
Product weight (kg)	0.08	0.1	0.1

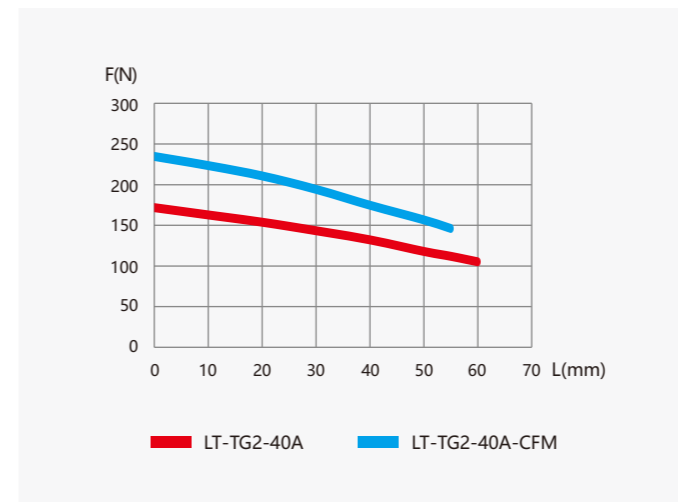
## Dimensions and Maximum Loads



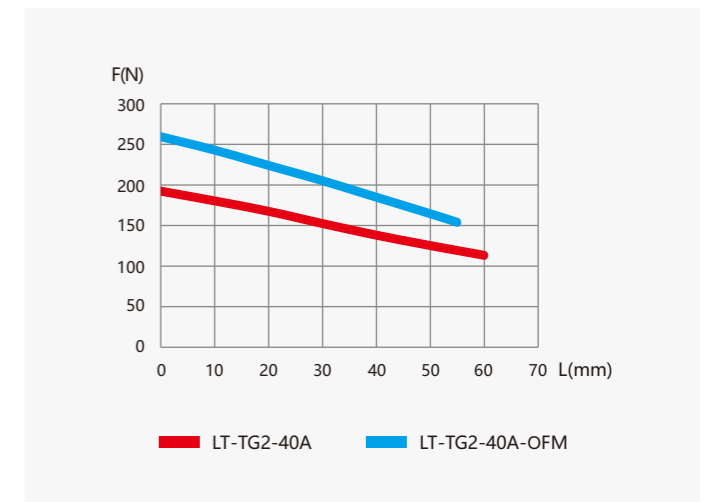
## Maximum Permitted Finger Projection



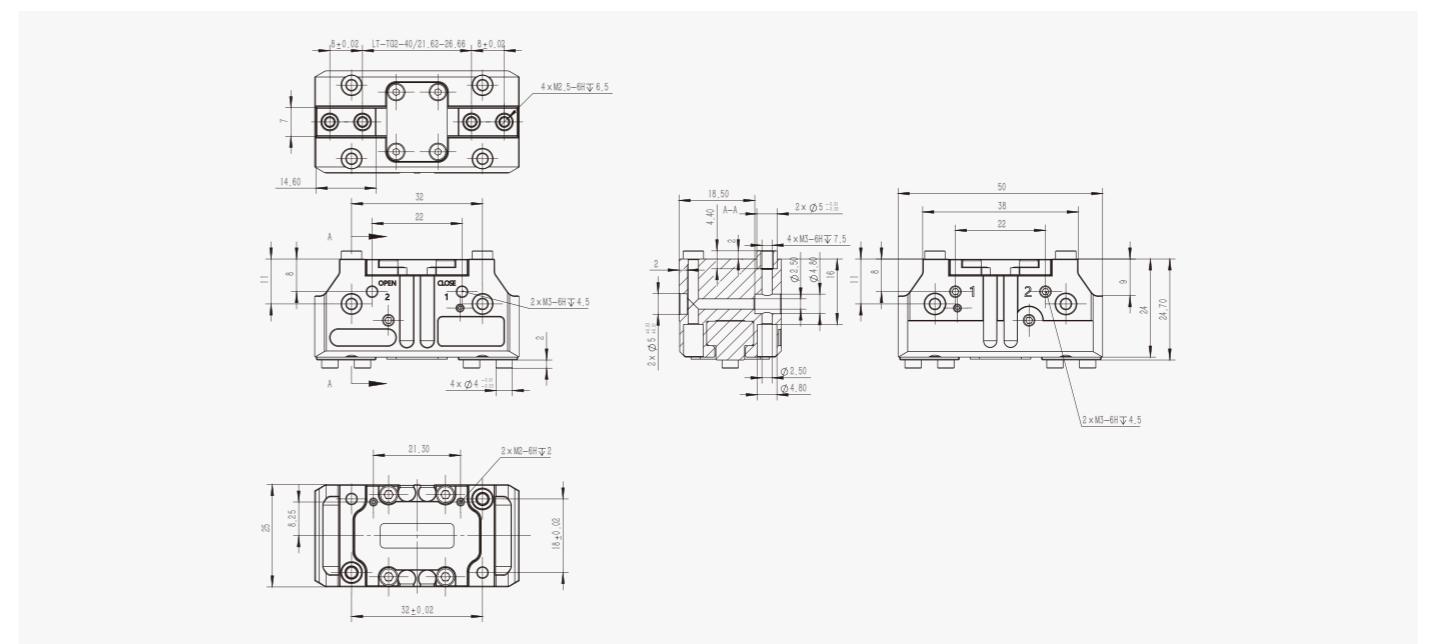
## Closing Force Diagram



## Opening Force Diagram



## Dimensions



# Model: LT-TG2-50series

- ▶ Stroke per jaw: 4mm/2mm
- ▶ Recommended grabbing weight: 0.95-1.9kg
- ▶ Gripper weight: 0.17-0.2kg
- ▶ Largest piston area design for maximum gripping force
- ▶ T-type guide rail design allows precise grasping of various workpieces



Model	LT-TG2-50A	LT-TG2-50A-CFM	LT-TG2-50A-OFM	LT-TG2-50B	LT-TG2-50B-CFM	LT-TG2-50B-OFM
Item No.	F11020001	F11020002	F11020003	F11020006	F11020007	F11020008
Stroke per jaw (mm)	4	4	4	2	2	2
Closing force(in the position of 20mm)	192	262	/	388	533	/
Opening force(in the position of 20mm)	215	/	285	430	/	575
The Min. holding force (N)	/	70	70	/	145	145
Recommended workpiece weight(kg)	0.95	0.95	0.95	1.9	1.9	1.9
Product weight (kg)	0.17	0.2	0.2	0.17	0.2	0.2
The Min. Air pressure (Mpa)	0.4	0.4	0.4	0.4	0.4	0.4
The Max. Air pressure (Mpa)	0.8	0.65	0.65	0.8	0.65	0.65
Rated air pressure (Mpa)	0.6	0.6	0.6	0.6	0.6	0.6
Suitable temperature (°C)	5~90	5~90	5~90	5~90	5~90	5~90
IP grade (IP)	IP40	IP40	IP40	IP40	IP40	IP40
Open/Close time (s)	0.02/0.02	0.03/0.02	0.02/0.03	0.02/0.02	0.03/0.02	0.02/0.03
Repeatability (mm)	0.01	0.01	0.01	0.01	0.01	0.01
Air consumption (cm <sup>3</sup> ) (Round trip)	5	8.5	11	5	8.5	11
The allowed longest fingers (mm)	72	68	68	68	64	64
The allowed heaviest single finger (kg)	0.18	0.18	0.18	0.18	0.18	0.18

The recommended workpiece weight is calculated under the conditions of friction coefficient 0.1 and safety factor 2 (not including robot acceleration) for matched gripping. If mechanical locking gripping is used, the grippable workpiece weight will be larger. The product comes with 4 finger location pins and 2 gripper location pins;

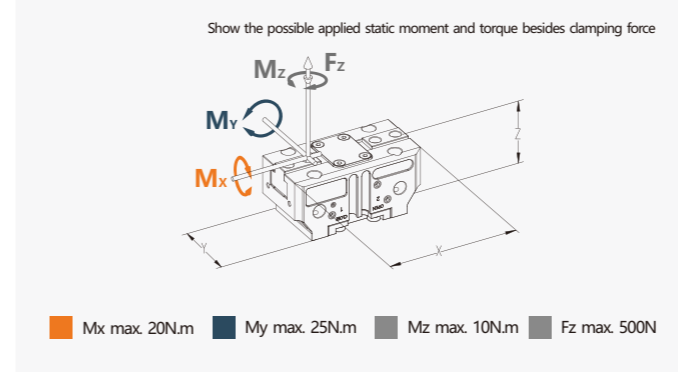
## Extended Function - Dustproof type

Product Model	LT-TG2-50A-DP	LT-TG2-50A-CFM-DP	LT-TG2-50A-OFM-DP	LT-TG2-50B-DP	LT-TG2-50B-CFM-DP	LT-TG2-50B-OFM-DP
Item No.	F11020005	F11020010	F11020011	F11020009	F11020012	F11020013
IP grade (IP)	IP64	IP64	IP64	IP64	IP64	IP64
Purge air pressure (Mpa)	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1
Product weight (kg)	0.22	0.25	0.25	0.22	0.25	0.25

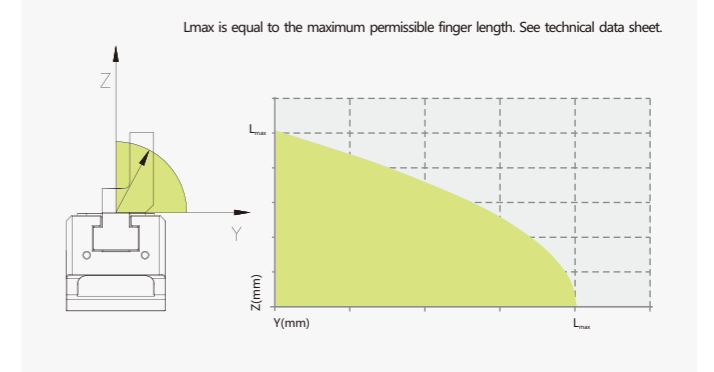
## Extended Function - High temperature type

Product Model	LT-TG2-50A-HT	LT-TG2-50A-CFM-HT	LT-TG2-50A-OFM-HT	LT-TG2-50B-HT	LT-TG2-50B-CFM-HT	LT-TG2-50B-OFM-HT
Item No.	F11020014	F11020015	F11020016	F11020017	F11020018	F11020019
Suitable temperature (°C)	5~130	5~130	5~130	5~130	5~130	5~130
Product weight (kg)	0.17	0.2	0.2	0.17	0.2	0.2

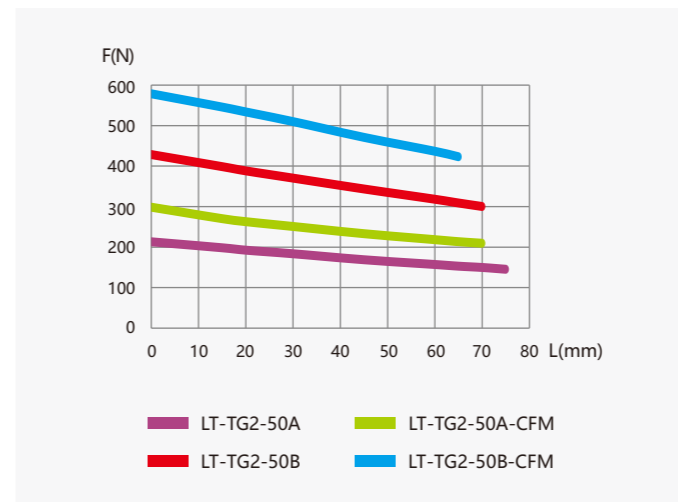
## Dimensions and Maximum Loads



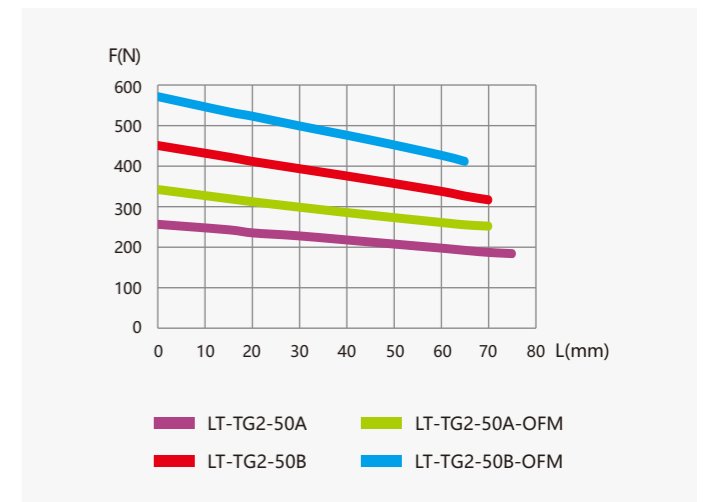
## Maximum Permitted Finger Projection



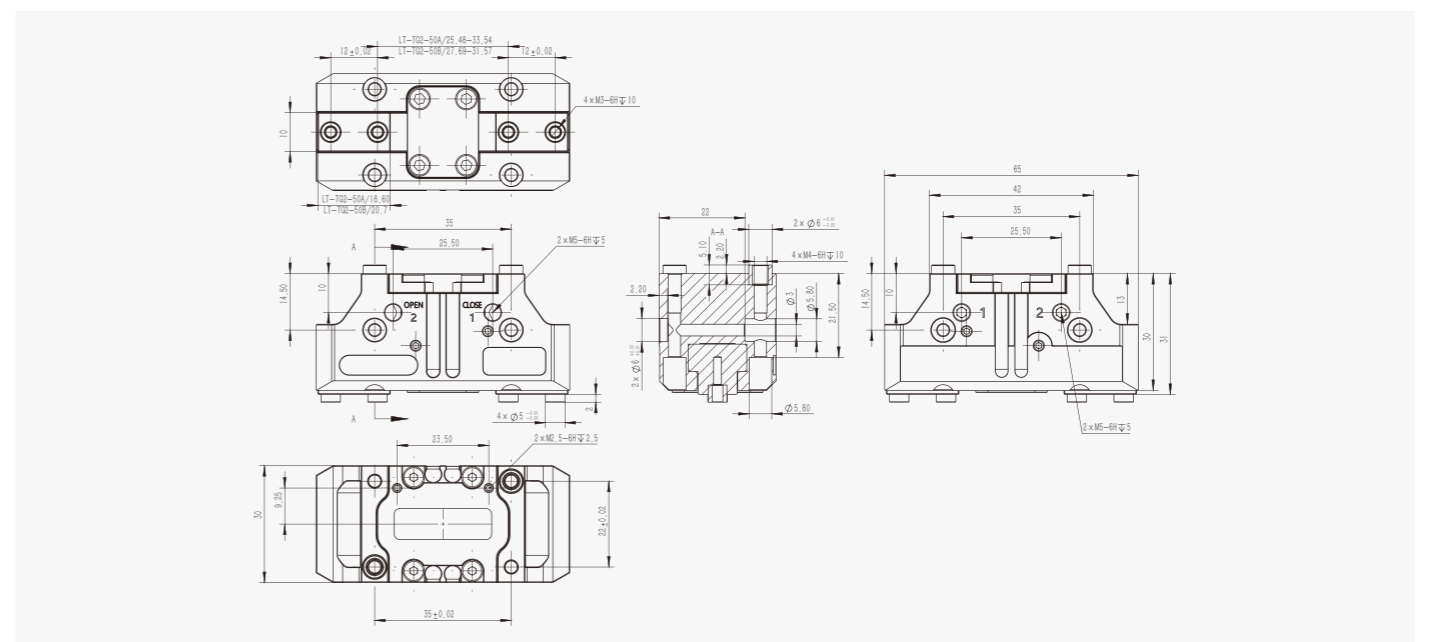
## Closing Force Diagram



## Opening Force Diagram



## Dimensions



# Model: LT-TG2-64series



- ▶ Stroke per jaw: 6mm/3mm
- ▶ Recommended grabbing weight: 1.45-2.95kg
- ▶ Gripper weight: 0.27-0.34kg
- ▶ Largest piston area design for maximum gripping force
- ▶ T-type guide rail design allows precise grasping of various workpieces

Model	LT-TG2-64A	LT-TG2-64A-CFM	LT-TG2-64A-OFM	LT-TG2-64B	LT-TG2-64B-CFM	LT-TG2-64B-OFM
Item No.	F11030001	F11030002	F11030003	F11030004	F11030005	F11030006
Stroke per jaw (mm)	6	6	6	3	3	3
Closing force(in the position of 20mm)	295	382	/	590	770	/
Opening force(in the position of 20mm)	327	/	414	655	/	835
The Min. holding force (N)	/	87	87	/	180	180
Recommended workpiece weight(kg)	1.45	1.45	1.45	2.95	2.95	2.95
Product weight (kg)	0.27	0.34	0.33	0.27	0.34	0.33
The Min. Air pressure (Mpa)	0.4	0.4	0.4	0.4	0.4	0.4
The Max. Air pressure (Mpa)	0.8	0.65	0.65	0.8	0.65	0.65
Rated air pressure (Mpa)	0.6	0.6	0.6	0.6	0.6	0.6
Suitable temperature (°C)	5~90	5~90	5~90	5~90	5~90	5~90
IP grade (IP)	IP40	IP40	IP40	IP40	IP40	IP40
Open/Close time (s)	0.03/0.03	0.04/0.02	0.02/0.04	0.03/0.03	0.04/0.02	0.02/0.04
Repeatability (mm)	0.01	0.01	0.01	0.01	0.01	0.01
Air consumption (cm <sup>3</sup> ) (Round trip)	10	17	21	10	17	21
The allowed longest fingers (mm)	90	85	85	85	80	80
The allowed heaviest single finger (kg)	0.35	0.35	0.35	0.35	0.35	0.35

The recommended workpiece weight is calculated under the conditions of friction coefficient 0.1 and safety factor 2 (not including robot acceleration) for matched gripping. If mechanical locking gripping is used, the grippable workpiece weight will be larger. The product comes with 4 finger location pins and 2 gripper location pins;

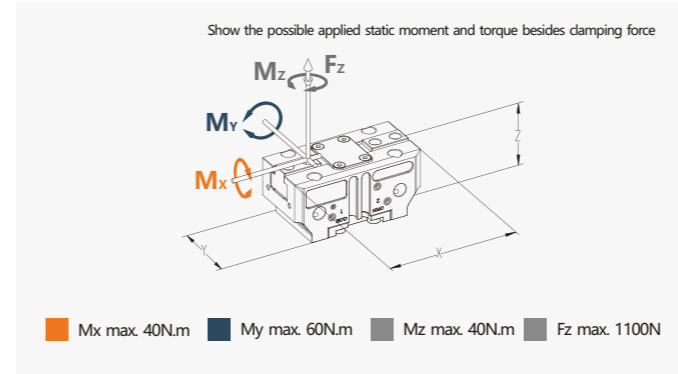
## Extended Function - Dustproof type

Product Model	LT-TG2-64A-DP	LT-TG2-64A-CFM-DP	LT-TG2-64A-OFM-DP	LT-TG2-64B-DP	LT-TG2-64B-CFM-DP	LT-TG2-64B-OFM-DP
Item No.	F11030007	F11030008	F11030009	F11030010	F11030011	F11030012
IP grade (IP)	IP64	IP64	IP64	IP64	IP64	IP64
Purge air pressure (Mpa)	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1
Product weight (kg)	0.36	0.43	0.42	0.36	0.43	0.36

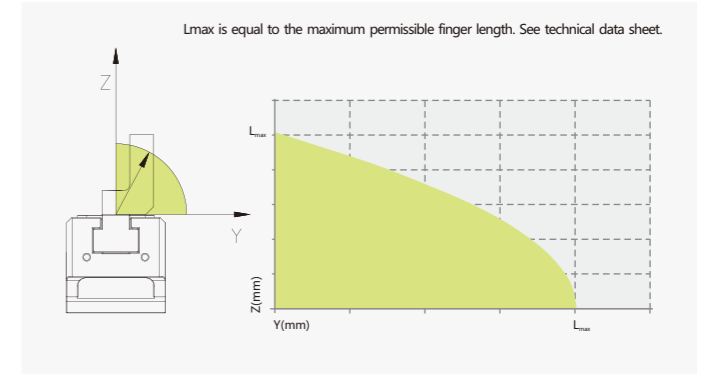
## Extended Function - High temperature type

Product Model	LT-TG2-64A-HT	LT-TG2-64A-CFM-HT	LT-TG2-64A-OFM-HT	LT-TG2-64B-HT	LT-TG2-64B-CFM-HT	LT-TG2-64B-OFM-HT
Item No.	F11030014	F11030015	F11030016	F11030017	F11030018	F11030019
Suitable temperature (°C)	5~130	5~130	5~130	5~130	5~130	5~130
Product weight (kg)	0.27	0.34	0.33	0.27	0.34	0.33

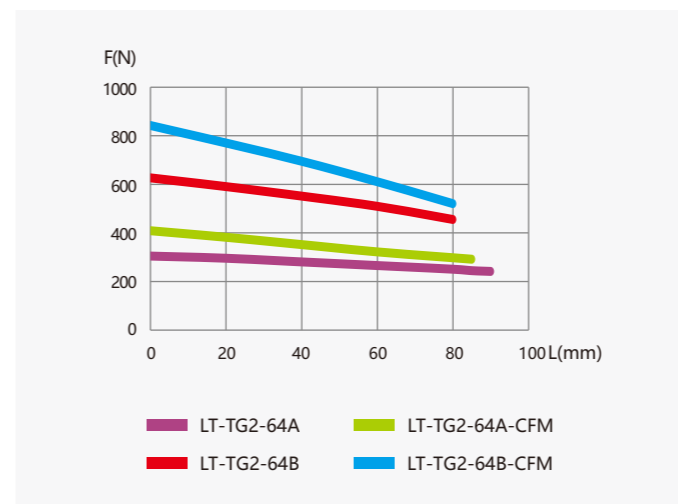
## Dimensions and Maximum Loads



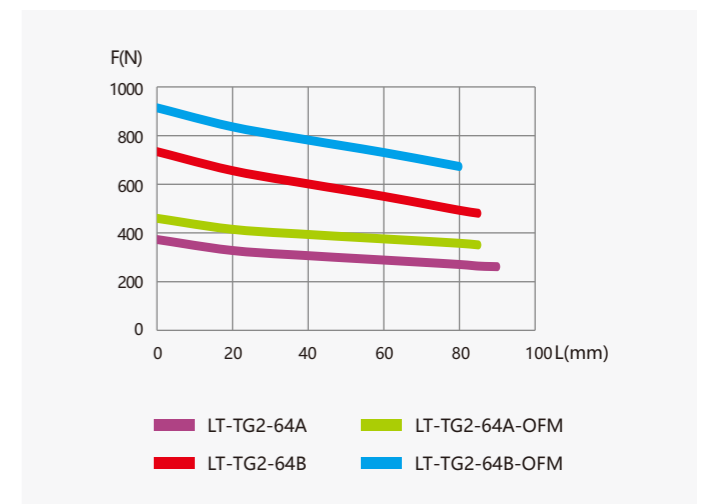
## Maximum Permitted Finger Projection



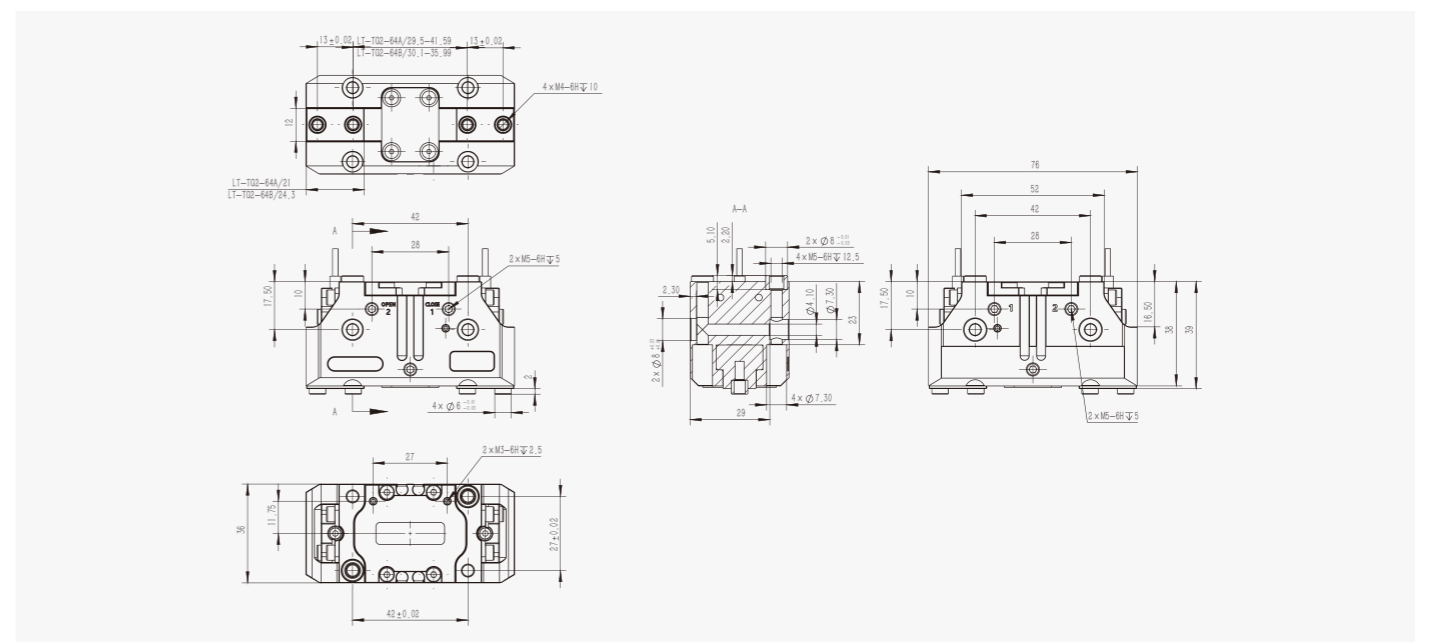
## Closing Force Diagram



## Opening Force Diagram



## Dimensions



# Model: LT-PG2-80series

- ▶ Stroke per jaw: 8mm/4mm
- ▶ Recommended grabbing weight: 2.2kg-4.3kg
- ▶ Small scale, long stroke, light weight grippers
- ▶ Sensitive sensor's sensing block, more flexibility
- ▶ Self-lubrication design, ensure safety of clamping
- ▶ Suitable for clamping small and medium components



Model	LT-PG2-80A	LT-PG2-80A-CFM	LT-PG2-80A-OFM	LT-PG2-80B	LT-PG2-80B-CFM	LT-PG2-80B-OFM
Item No.	F11040001	F11040002	F11040003	F11040005	F11040008	F11040009
Stroke per jaw (mm)	8	8	8	4	4	4
Closing force(in the position of 25mm)	440	595	/	865	1180	/
Opening force(in the position of 25mm)	500	/	655	980	/	1295
The Min. holding force (N)	/	155	155	/	315	315
Recommended workpiece weight(kg)	2.2	2.2	2.2	4.3	4.3	4.3
Product weight (kg)	0.5	0.61	0.59	0.52	0.63	0.61
The Min. Air pressure (Mpa)	0.4	0.4	0.4	0.4	0.4	0.4
The Max. Air pressure (Mpa)	0.8	0.65	0.65	0.8	0.65	0.65
Rated air pressure (Mpa)	0.6	0.6	0.6	0.6	0.6	0.6
Suitable temperature (°C)	5~90	5~90	5~90	5~90	5~90	5~90
IP grade (IP)	IP40	IP40	IP40	IP40	IP40	IP40
Open/Close time (s)	0.04/0.04	0.05/0.03	0.03/0.05	0.04/0.04	0.05/0.03	0.03/0.05
Repeatability (mm)	0.01	0.01	0.01	0.01	0.01	0.01
Air consumption (cm <sup>3</sup> ) (Round trip)	22	35	40	22	35	40
The allowed longest fingers (mm)	110	105	105	105	100	100
The allowed heaviest single finger (kg)	0.6	0.6	0.6	0.6	0.6	0.6

The recommended workpiece weight is calculated under the conditions of friction coefficient 0.1 and safety factor 2 (not including robot acceleration) for matched gripping. If mechanical locking gripping is used, the grippable workpiece weight will be larger. The product comes with 4 finger location pins and 2 gripper location pins;

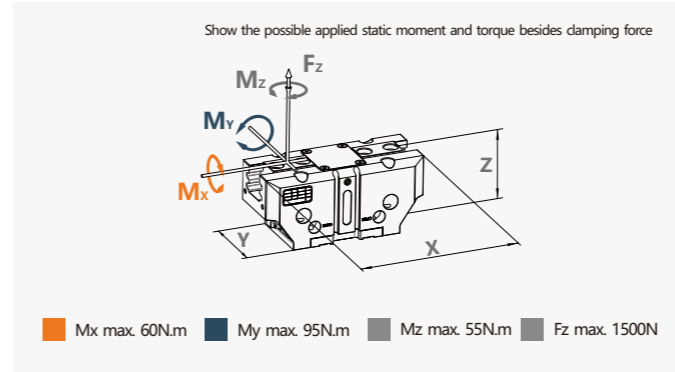
## Extended Function - Dustproof type

Product Model	LT-PG2-80A-DP	LT-PG2-80A-CFM-DP	LT-PG2-80A-OFM-DP	LT-PG2-80B-DP	LT-PG2-80B-CFM-DP	LT-PG2-80B-OFM-DP
Item No.	F11040004	F11040010	F11040011	F11040007	F11040013	F11040012
IP grade (IP)	IP64	IP64	IP64	IP64	IP64	IP64
Purge air pressure (Mpa)	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1
Product weight (kg)	0.61	0.72	0.7	0.63	0.74	0.72

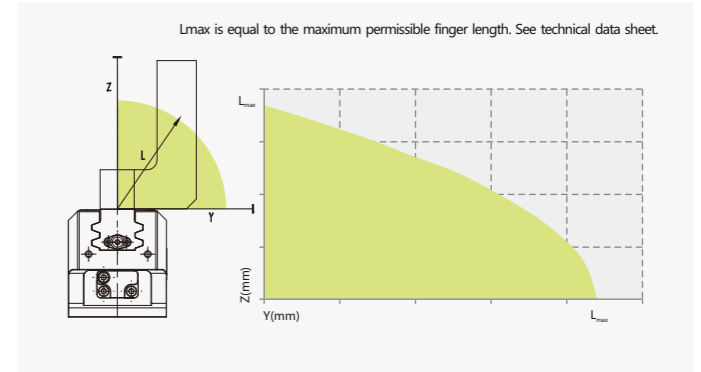
## Extended Function - High temperature type

Product Model	LT-PG2-80A-HT	LT-PG2-80A-CFM-HT	LT-PG2-80A-OFM-HT	LT-PG2-80B-HT	LT-PG2-80B-CFM-HT	LT-PG2-80B-OFM-HT
Item No.	F11040014	F11040015	F11040016	F11040017	F11040018	F11040019
Suitable temperature (°C)	5~130	5~130	5~130	5~130	5~130	5~130
Product weight (kg)	0.5	0.61	0.59	0.52	0.63	0.61

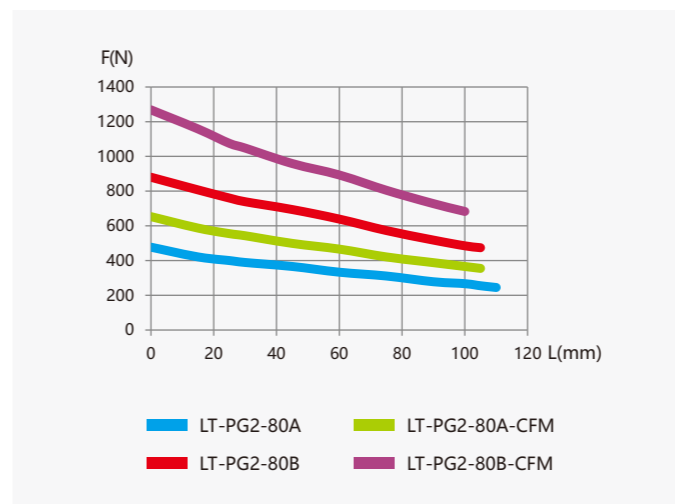
## Dimensions and Maximum Loads



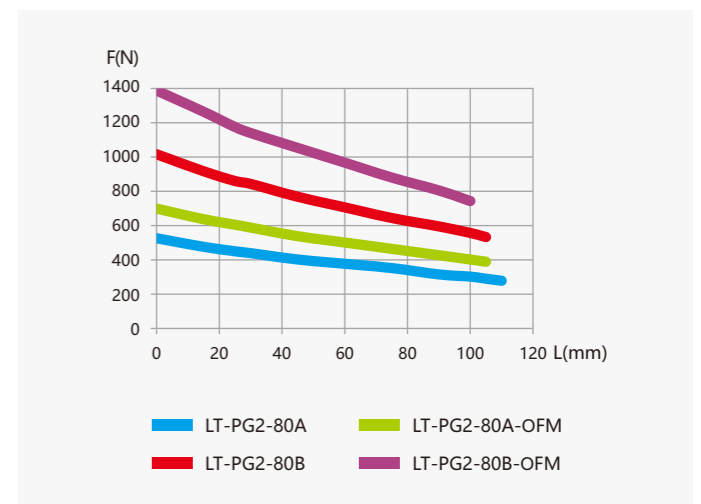
## Maximum Permitted Finger Projection



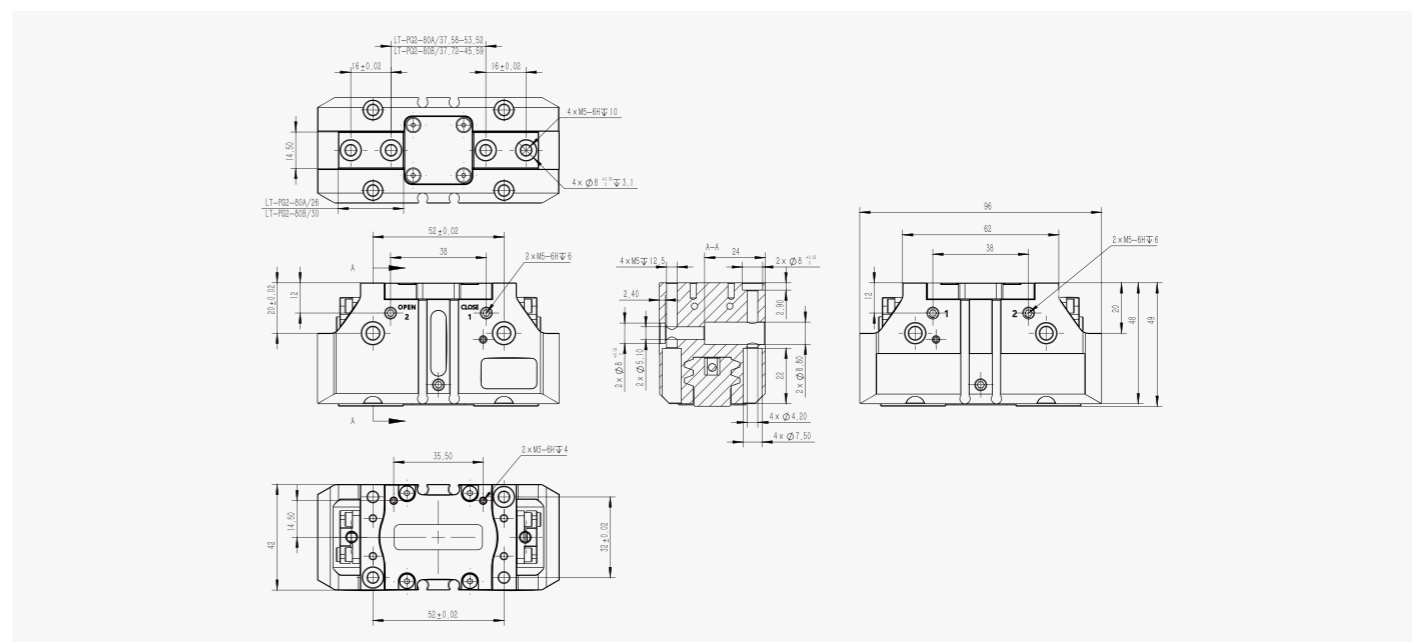
## Closing Force Diagram



## Opening Force Diagram



## Dimensions



# Model: LT-PG2-100series

- ▶ Stroke per jaw: 10mm/5mm
- ▶ Recommended grabbing weight: 3.5kg-7.1kg
- ▶ Universal two-finger gripper
- ▶ Self-lubrication design,ensure safety of clamping
- ▶ Standard solutions for multiple application areas
- ▶ Universal used in clean environments in machine building, assembly and handling, and the automotive industry



Model	LT-PG2-100A	LT-PG2-100A-CFM	LT-PG2-100A-OFM	LT-PG2-100B	LT-PG2-100B-CFM	LT-PG2-100B-OFM
Item No.	F11050001	F11050002	F11050003	F11050005	F11050009	F11050010
Stroke per jaw (mm)	10	10	10	5	5	5
Closing force(in the position of 30mm)	710	950	/	1420	1920	/
Opening force(in the position of 30mm)	780	/	1020	1570	/	2070
The Min. holding force (N)	/	240	240	/	500	500
Recommended workpiece weight(kg)	3.5	3.5	3.5	7.1	7.1	7.1
Product weight (kg)	0.83	0.98	0.93	0.83	0.98	0.93
The Min. Air pressure (Mpa)	0.4	0.4	0.4	0.4	0.4	0.4
The Max. Air pressure (Mpa)	0.8	0.65	0.65	0.8	0.65	0.65
Rated air pressure (Mpa)	0.6	0.6	0.6	0.6	0.6	0.6
Suitable temperature (°C)	5~90	5~90	5~90	5~90	5~90	5~90
IP grade (IP)	IP40	IP40	IP40	IP40	IP40	IP40
Open/Close time (s)	0.07/0.07	0.09/0.05	0.05/0.09	0.07/0.07	0.09/0.05	0.05/0.09
Repeatability (mm)	0.01	0.01	0.01	0.01	0.01	0.01
Air consumption (cm <sup>3</sup> ) (Round trip)	45	80	90	45	80	90
The allowed longest fingers (mm)	145	135	135	135	125	125
The allowed heaviest single finger (kg)	1.1	1.1	1.1	1.1	1.1	1.1

The recommended workpiece weight is calculated under the conditions of friction coefficient 0.1 and safety factor 2 (not including robot acceleration) for matched gripping. If mechanical locking gripping is used, the grippable workpiece weight will be larger. The product comes with 4 finger location pins and 2 gripper location pins;

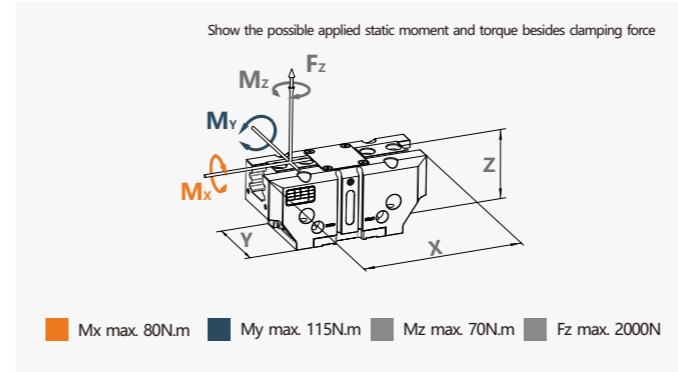
## Extended Function - Dustproof type

Product Model	LT-PG2-100A-DP	LT-PG2-100A-CFM-DP	LT-PG2-100A-OFM-DP	LT-PG2-100B-DP	LT-PG2-100B-CFM-DP	LT-PG2-100B-OFM-DP
Item No.	F11050004	F11050013	F11050008	F11050007	F11050012	F11050011
IP grade (IP)	IP64	IP64	IP64	IP64	IP64	IP64
Purge air pressure (Mpa)	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1
Product weight (kg)	1	1.15	1.1	1	1.15	1.1

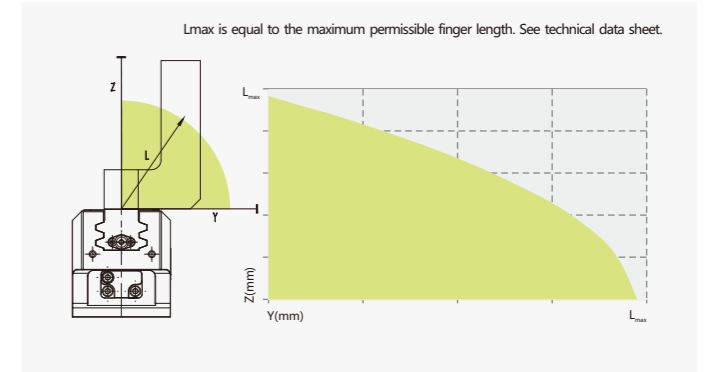
## Extended Function - High temperature type

Product Model	LT-PG2-100A-HT	LT-PG2-100A-CFM-HT	LT-PG2-100A-OFM-HT	LT-PG2-100B-HT	LT-PG2-100B-CFM-HT	LT-PG2-100B-OFM-HT
Item No.	F11050014	F11050015	F11050016	F11050017	F11050018	F11050019
Suitable temperature (°C)	5~130	5~130	5~130	5~130	5~130	5~130
Product weight (kg)	0.83	0.98	0.93	0.83	0.98	0.93

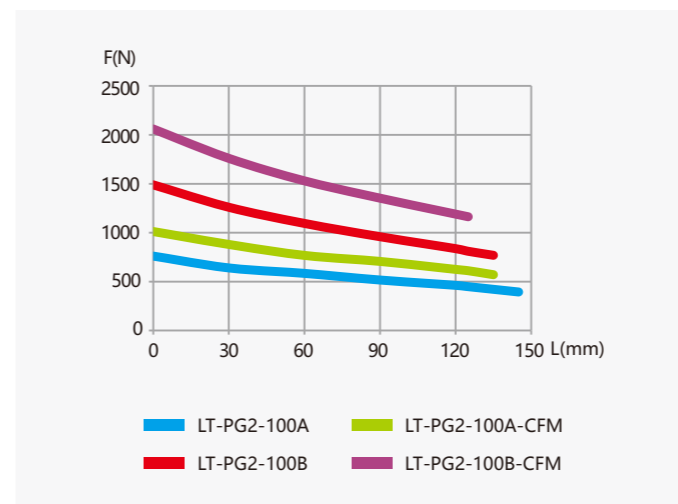
## Dimensions and Maximum Loads



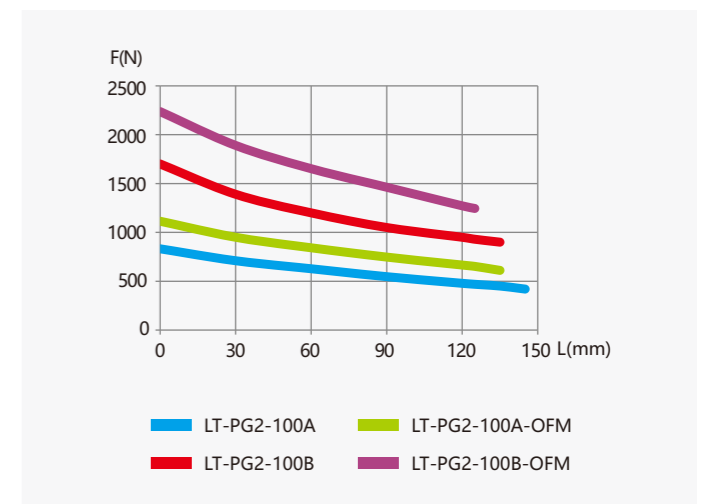
## Maximum Permitted Finger Projection



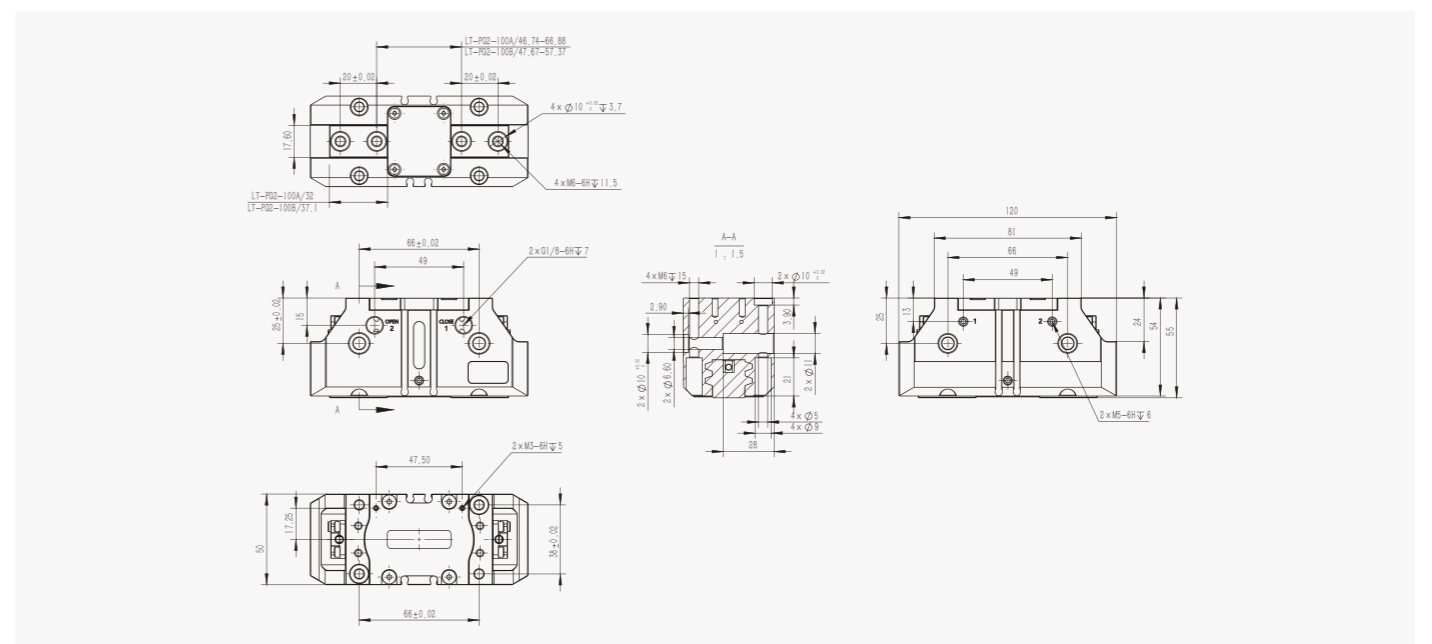
## Closing Force Diagram



## Opening Force Diagram



## Dimensions



# Model: LT-PG2-125series

- ▶ Stroke per jaw: 13mm/6.5mm
- ▶ Recommended grabbing weight: 5.8kg~11.7kg
- ▶ Universal two-finger gripper Longer gripping stroke
- ▶ Toothed slide rail design allows precise grasping of all types of workpieces
- ▶ Self-lubricating design, extended maintenance intervals
- ▶ Pneumatic general purpose gripper for handling workpieces in general applications



Model	LT-PG2-125A	LT-PG2-125A-CFM	LT-PG2-125A-OFM	LT-PG2-125B	LT-PG2-125B-CFM	LT-PG2-125B-OFM
Item No.	F11060001	F11060002	F11060004	F11060003	F11060008	F11060009
Stroke per jaw (mm)	13	13	13	6.5	6.5	6.5
Closing force(in the position of 30mm)	1160	1560	/	2340	3170	/
Opening force(in the position of 30mm)	1260	/	1660	2540	/	3370
The Min. holding force (N)	/	400	400	/	830	830
Recommended workpiece weight(kg)	5.8	5.8	5.8	11.7	11.7	11.7
Product weight (kg)	1.38	1.76	1.8	1.42	1.8	1.84
The Min. Air pressure (Mpa)	0.4	0.4	0.4	0.4	0.4	0.4
The Max. Air pressure (Mpa)	0.8	0.65	0.65	0.8	0.65	0.65
Rated air pressure (Mpa)	0.6	0.6	0.6	0.6	0.6	0.6
Suitable temperature (°C)	5~90	5~90	5~90	5~90	5~90	5~90
IP grade (IP)	IP40	IP40	IP40	IP40	IP40	IP40
Open/Close time (s)	0.1/0.1	0.12/0.08	0.08/0.12	0.1/0.1	0.12/0.08	0.08/0.12
Repeatability (mm)	0.01	0.01	0.01	0.01	0.01	0.01
Air consumption (cm <sup>3</sup> ) (Round trip)	87	120	165	87	120	165
The allowed longest fingers (mm)	180	170	170	170	160	160
The allowed heaviest single finger (kg)	2.1	2.1	2.1	2.1	2.1	2.1

The recommended workpiece weight is calculated under the conditions of friction coefficient 0.1 and safety factor 2 (not including robot acceleration) for matched gripping. If mechanical locking gripping is used, the grippable workpiece weight will be larger. The product comes with 4 finger location pins and 2 gripper location pins;

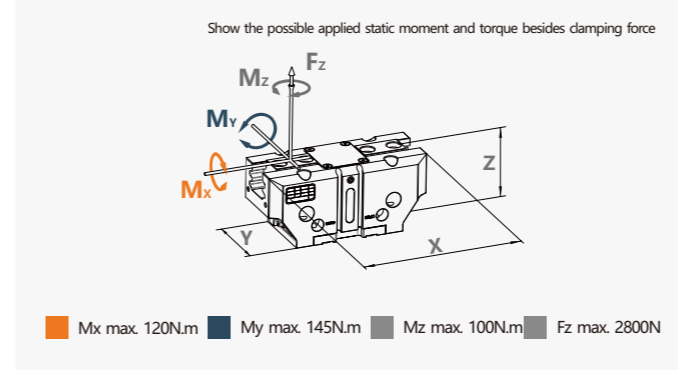
## Extended Function - Dustproof type

Product Model	LT-PG2-125A-DP	LT-PG2-125A-CFM-DP	LT-PG2-125A-OFM-DP	LT-PG2-125B-DP	LT-PG2-125B-CFM-DP	LT-PG2-125B-OFM-DP
Item No.	F11060007	F11060010	F11060011	F11060006	F11060013	F11060014
IP grade (IP)	IP64	IP64	IP64	IP64	IP64	IP64
Purge air pressure (Mpa)	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1
Product weight (kg)	1.61	1.99	2.03	1.65	2.03	2.07

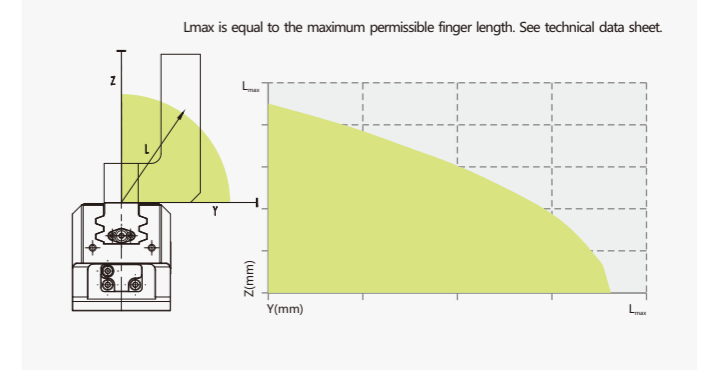
## Extended Function - High temperature type

Product Model	LT-PG2-125A-HT	LT-PG2-125A-CFM-HT	LT-PG2-125A-OFM-HT	LT-PG2-125B-HT	LT-PG2-125B-CFM-HT	LT-PG2-125B-OFM-HT
Item No.	F11060015	F11060012	F11060016	F11060017	F11060018	F11060019
Suitable temperature (°C)	5~130	5~130	5~130	5~130	5~130	5~130
Product weight (kg)	1.38	1.76	1.8	1.42	1.8	1.84

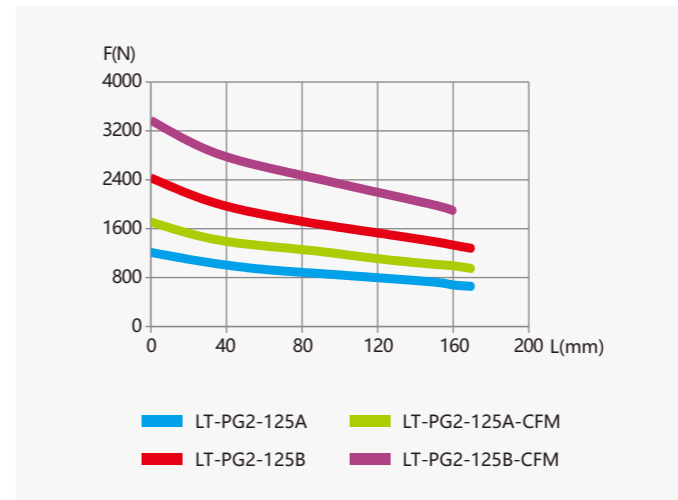
## Dimensions and Maximum Loads



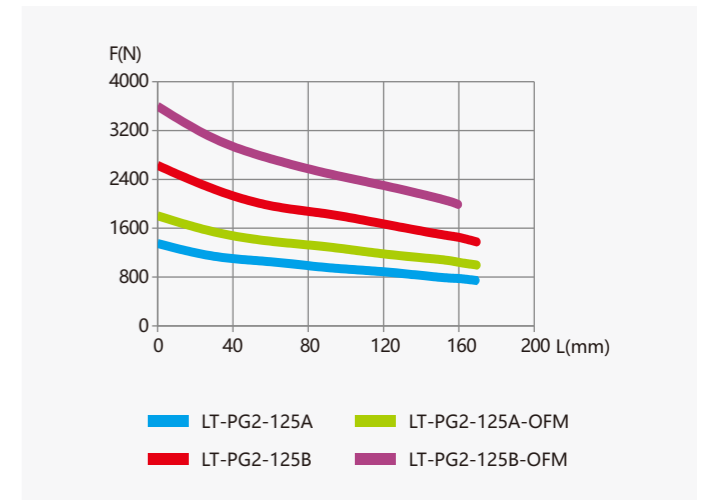
## Maximum Permitted Finger Projection



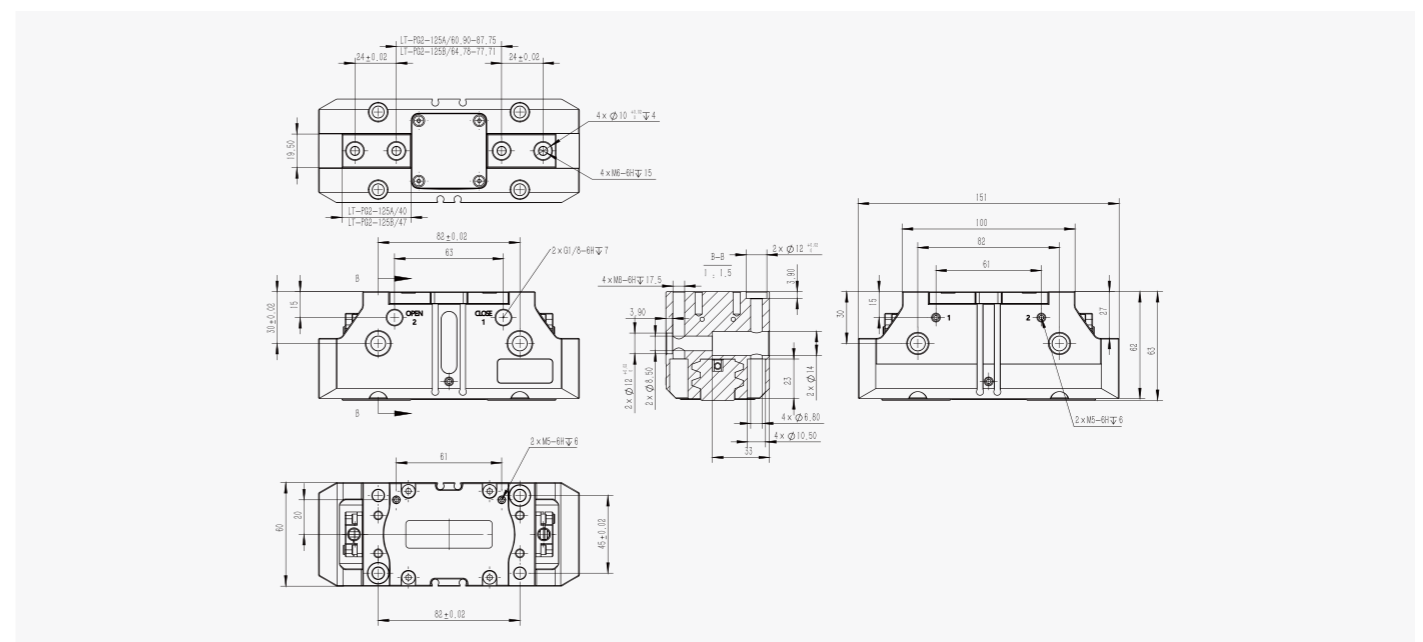
## Closing Force Diagram



## Opening Force Diagram



## Dimensions



# Model: LT-PG2-160series

- ▶ Stroke per jaw: 16mm/8mm
- ▶ Recommended grabbing weight: 8.5kg-17kg
- ▶ Long-range two-finger gripper with wider gripping space
- ▶ Unique toothed slide rail design ensures reliable clamping
- ▶ Tens of millions of opening and closing non-destructive fatigue tests
- ▶ Self-lubricating design, extended maintenance intervals, standard solution for multiple applications



Model	LT-PG2-160A	LT-PG2-160A-CFM	LT-PG2-160A-OFM	LT-PG2-160B	LT-PG2-160B-CFM	LT-PG2-160B-OFM
Item No.	F11070001	F11070002	F11070003	F11070005	F11070008	F11070009
Stroke per jaw (mm)	16	16	16	8	8	8
Closing force(in the position of 35mm)	1785	2325	/	3430	4500	/
Opening force(in the position of 35mm)	1940	/	2480	3730	/	4800
The Min. holding force (N)	/	540	540	/	1070	1070
Recommended workpiece weight(kg)	8.5	8.5	8.5	17	17	17
Product weight (kg)	2.7	3.3	3.24	2.8	3.4	3.33
The Min. Air pressure (Mpa)	0.4	0.4	0.4	0.4	0.4	0.4
The Max. Air pressure (Mpa)	0.8	0.65	0.65	0.8	0.65	0.65
Rated air pressure (Mpa)	0.6	0.6	0.6	0.6	0.6	0.6
Suitable temperature (°C)	5~90	5~90	5~90	5~90	5~90	5~90
IP grade (IP)	IP40	IP40	IP40	IP40	IP40	IP40
Open/Close time (s)	0.15/0.15	0.25/0.12	0.12/0.25	0.15/0.15	0.25/0.12	0.12/0.25
Repeatability (mm)	0.01	0.01	0.01	0.01	0.01	0.01
Air consumption (cm <sup>3</sup> ) (Round trip)	165	210	265	165	210	265
The allowed longest fingers (mm)	220	210	210	210	200	200
The allowed heaviest single finger (kg)	3.5	3.5	3.5	3.5	3.5	3.5

The recommended workpiece weight is calculated under the conditions of friction coefficient 0.1 and safety factor 2 (not including robot acceleration) for matched gripping. If mechanical locking gripping is used, the grippable workpiece weight will be larger. The product comes with 4 finger location pins and 2 gripper location pins;

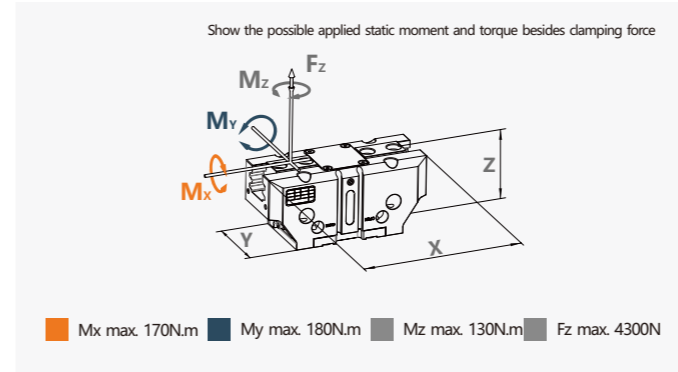
## Extended Function - Dustproof type

Product Model	LT-PG2-160A-DP	LT-PG2-160A-CFM-DP	LT-PG2-160A-OFM-DP	LT-PG2-160B-DP	LT-PG2-160B-CFM-DP	LT-PG2-160B-OFM-DP
Item No.	F11070004	F11070011	F11070012	F11070007	F11070013	F11070014
IP grade (IP)	IP64	IP64	IP64	IP64	IP64	IP64
Purge air pressure (Mpa)	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1
Product weight (kg)	3.1	3.7	3.6	3.2	3.8	3.7

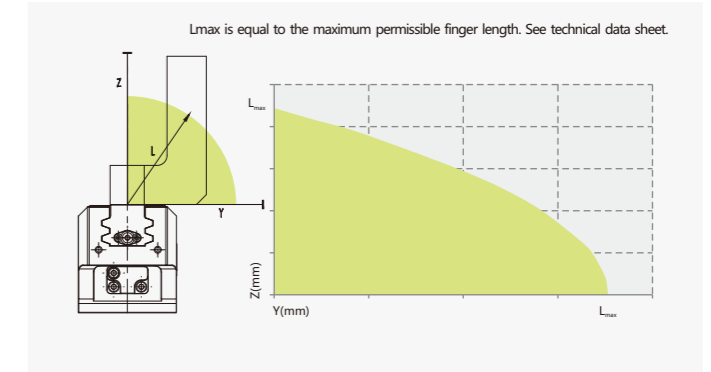
## Extended Function - High temperature type

Product Model	LT-PG2-160A-HT	LT-PG2-160A-CFM-HT	LT-PG2-160A-OFM-HT	LT-PG2-160B-HT	LT-PG2-160B-CFM-HT	LT-PG2-160B-OFM-HT
Item No.	F11070015	F11070010	F11070016	F11070017	F11070018	F11070019
Suitable temperature (°C)	5~130	5~130	5~130	5~130	5~130	5~130
Product weight (kg)	2.7	3.3	3.24	2.8	3.4	3.33

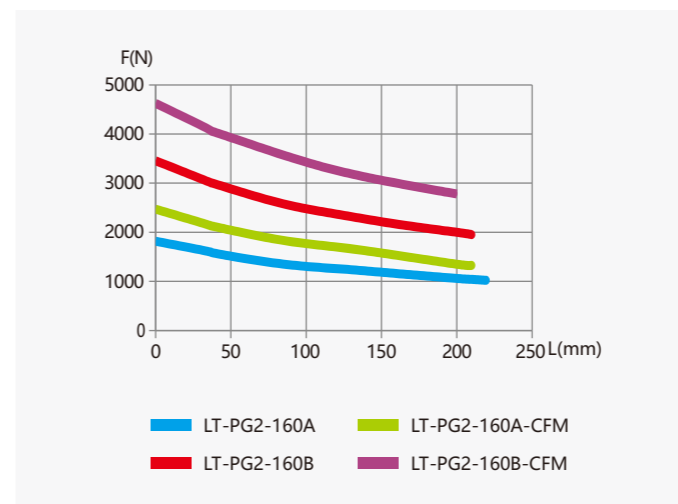
## Dimensions and Maximum Loads



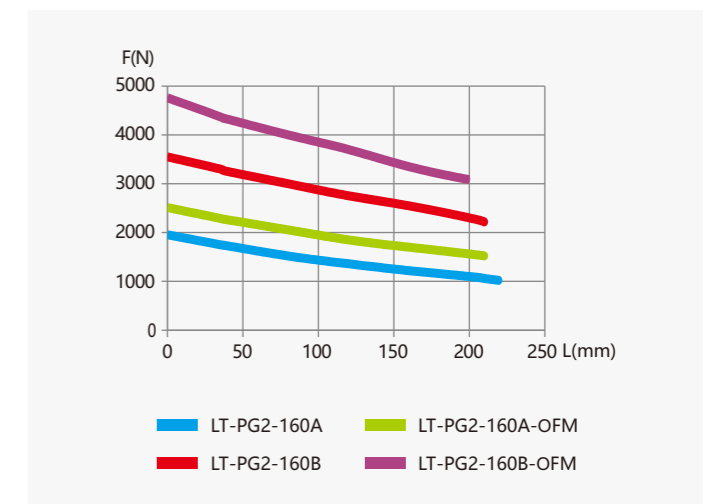
## Maximum Permitted Finger Projection



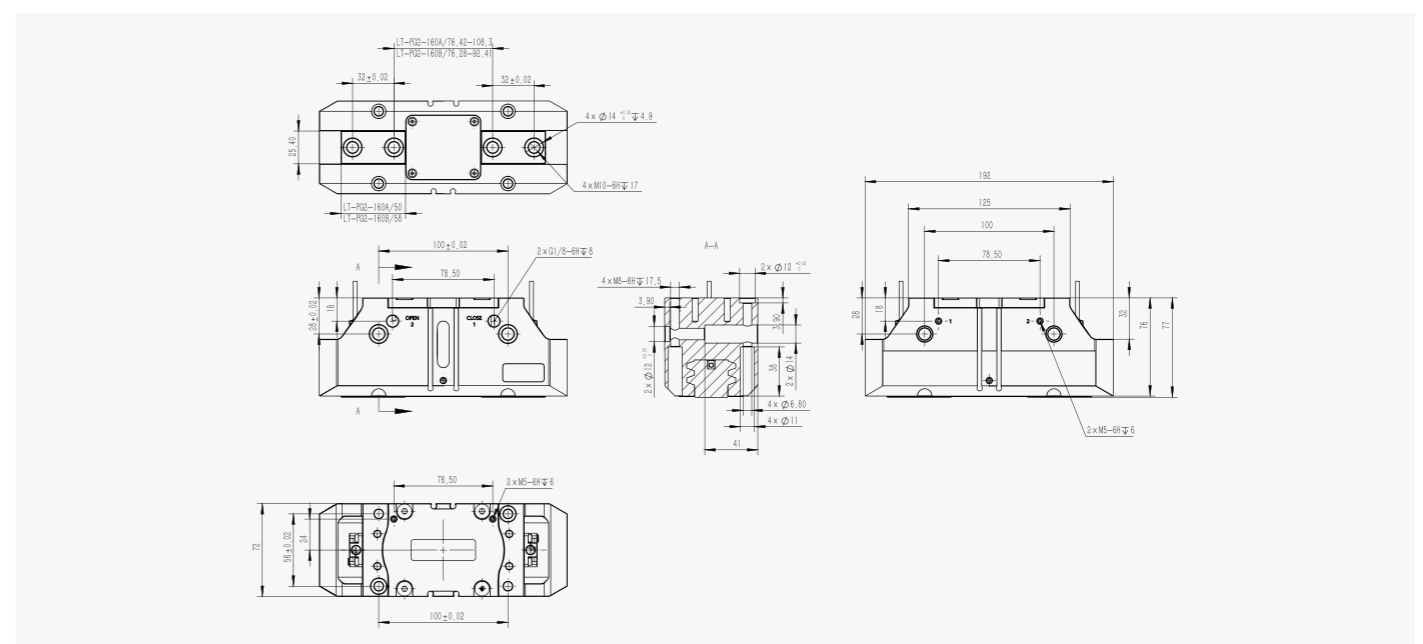
## Closing Force Diagram



## Opening Force Diagram



## Dimensions



# Model: LT-PG2-200series

- ▶ Stroke per jaw: 25mm/14mm
- ▶ Recommended grabbing weight: 14.5kg-25kg
- ▶ Universal two-finger gripper
- ▶ Toothed slide rail design allows precise grasping of all types of workpieces
- ▶ Self-lubricating design, extended maintenance intervals
- ▶ Standard solutions for multiple application areas



Model	LT-PG2-200A	LT-PG2-200A-CFM	LT-PG2-200A-OFM	LT-PG2-200B	LT-PG2-200B-CFM	LT-PG2-200B-OFM
Item No.	F11080003	F11080004	F11080005	F11080008	F11080009	F11080010
Stroke per jaw (mm)	25	25	25	14	14	14
Closing force(in the position of 50mm)	2960	3860	/	5090	6640	/
Opening force(in the position of 50mm)	3110	/	4010	5350	/	6900
The Min. holding force (N)	/	900	900	/	1550	1550
Recommended workpiece weight(kg)	14.5	14.5	14.5	25	25	25
Product weight (kg)	5.1	6.4	6.3	5.3	6.6	6.5
The Min. Air pressure (Mpa)	0.4	0.4	0.4	0.4	0.4	0.4
The Max. Air pressure (Mpa)	0.8	0.65	0.65	0.8	0.65	0.65
Rated air pressure (Mpa)	0.6	0.6	0.6	0.6	0.6	0.6
Suitable temperature (°C)	5~90	5~90	5~90	5~90	5~90	5~90
IP grade (IP)	IP40	IP40	IP40	IP40	IP40	IP40
Open/Close time (s)	0.35/0.35	0.6/0.3	0.3/0.6	0.35/0.35	0.6/0.3	0.3/0.6
Repeatability (mm)	0.02	0.02	0.02	0.02	0.02	0.02
Air consumption (cm <sup>3</sup> ) (Round trip)	385	500	620	385	500	620
The allowed longest fingers (mm)	280	240	240	240	200	200
The allowed heaviest single finger (kg)	6.5	6.5	6.5	6.5	6.5	6.5

The recommended workpiece weight is calculated under the conditions of friction coefficient 0.1 and safety factor 2 (not including robot acceleration) for matched gripping. If mechanical locking gripping is used, the grippable workpiece weight will be larger. The product comes with 4 finger location pins and 2 gripper location pins;

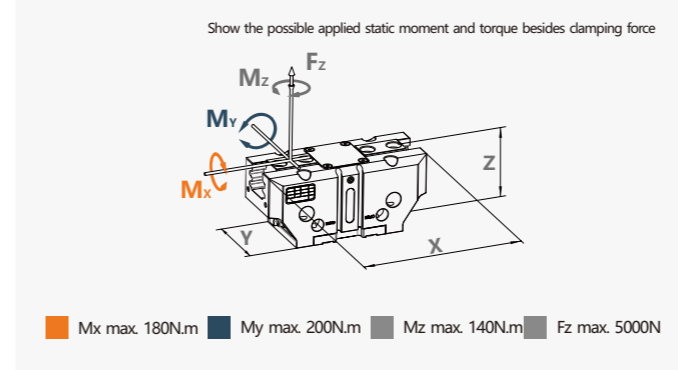
## Extended Function - Dustproof type

Product Model	LT-PG2-200A-DP	LT-PG2-200A-CFM-DP	LT-PG2-200A-OFM-DP	LT-PG2-200B-DP	LT-PG2-200B-CFM-DP	LT-PG2-200B-OFM-DP
Item No.	F11080007	F11080011	F11080012	F11080002	F11080013	F11080014
IP grade (IP)	IP64	IP64	IP64	IP64	IP64	IP64
Purge air pressure (Mpa)	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1
Product weight (kg)	5.6	6.9	6.8	5.8	7.1	7

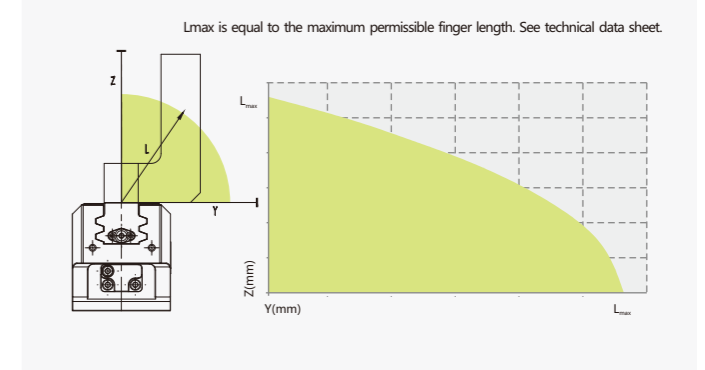
## Extended Function - High temperature type

Product Model	LT-PG2-200A-HT	LT-PG2-200A-CFM-HT	LT-PG2-200A-OFM-HT	LT-PG2-200B-HT	LT-PG2-200B-CFM-HT	LT-PG2-200B-OFM-HT
Item No.	F11080015	F11080016	F11080017	F11080018	F11080019	F11080020
Suitable temperature (°C)	5~130	5~130	5~130	5~130	5~130	5~130
Product weight (kg)	5.1	6.4	6.3	5.3	6.6	6.5

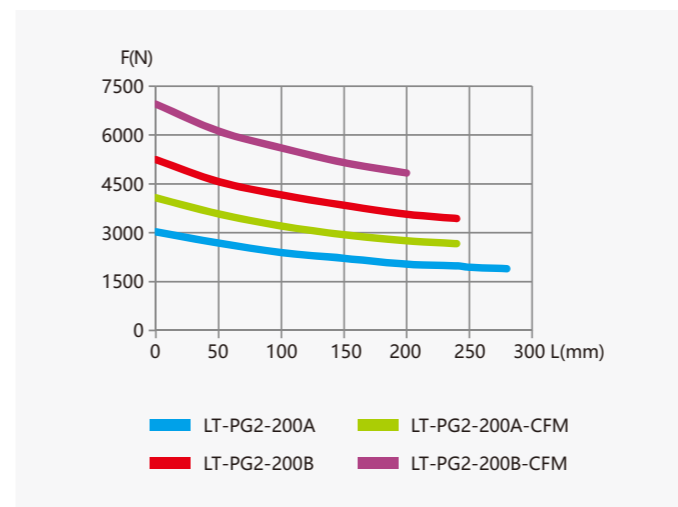
## Dimensions and Maximum Loads



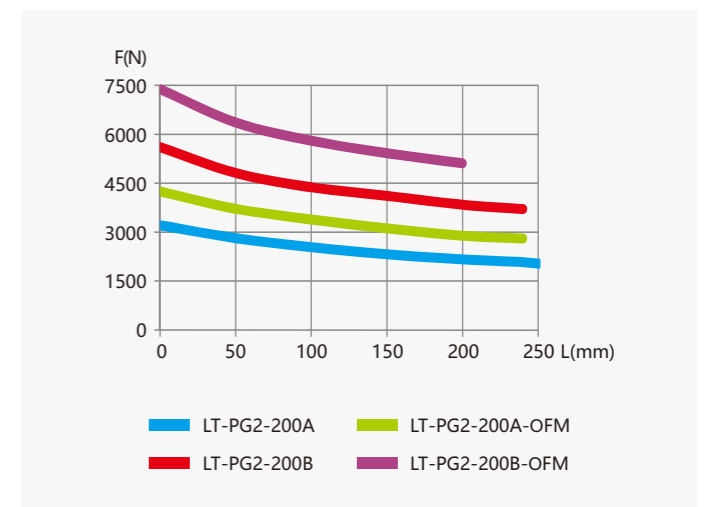
## Maximum Permitted Finger Projection



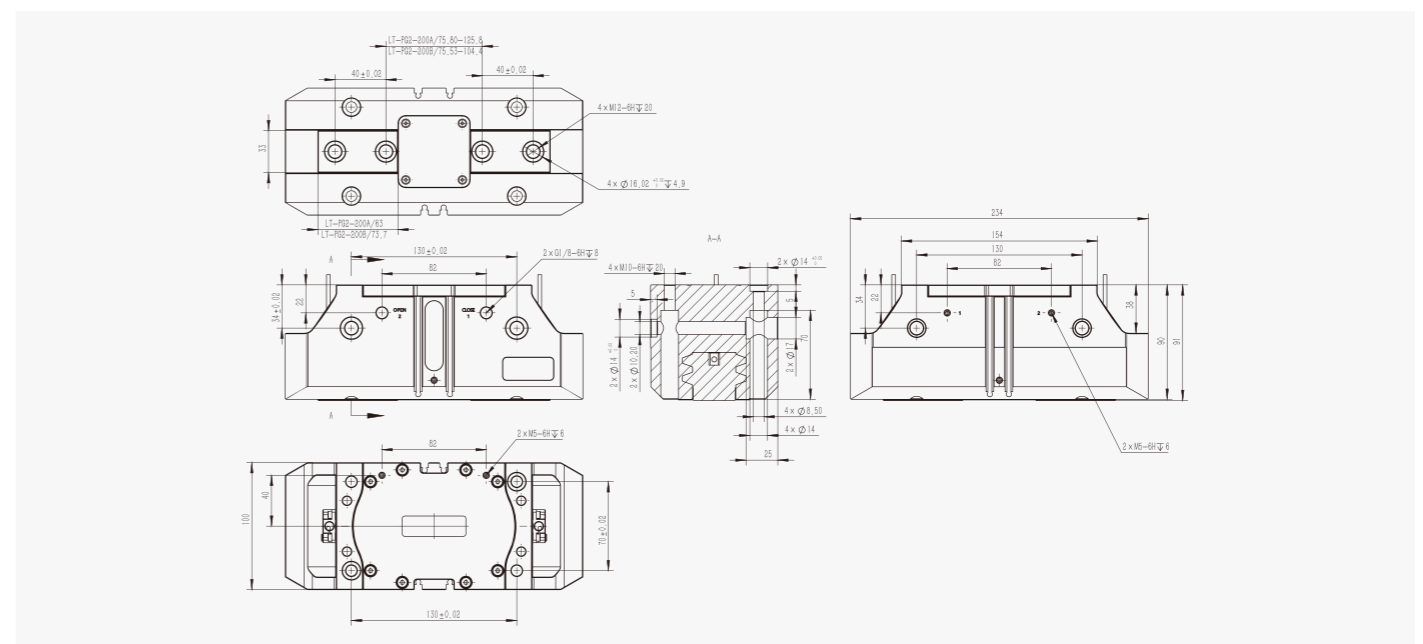
## Closing Force Diagram



## Opening Force Diagram



## Dimensions



# Model: LT-PG2-240series

- ▶ Stroke per jaw: 30mm/17mm
- ▶ Recommended grabbing weight: 21.5kg-37kg
- ▶ Two-finger gripper Longer gripping stroke
- ▶ Self-lubricating design, extended maintenance intervals
- ▶ Unique toothed slide rail design ensures reliable clamping
- ▶ Suitable for handling and clamping in various industries



Model	LT-PG2-240A	LT-PG2-240A-CFM	LT-PG2-240A-OFM	LT-PG2-240B	LT-PG2-240B-CFM	LT-PG2-240B-OFM
Item No.	F11090002	F11090003	F11090004	F11090006	F11090007	F11090008
Stroke per jaw (mm)	30	30	30	17	17	17
Closing force(in the position of 40mm)	4300	5400	/	7390	9290	/
Opening force(in the position of 40mm)	4520	/	5620	7770	/	9670
The Min. holding force (N)	/	1100	1100	/	1900	1900
Recommended workpiece weight(kg)	21.5	21.5	21.5	37	37	37
Product weight (kg)	7.9	10	9.7	8.2	10.3	10
The Min. Air pressure (Mpa)	0.4	0.4	0.4	0.4	0.4	0.4
The Max. Air pressure (Mpa)	0.8	0.65	0.65	0.8	0.65	0.65
Rated air pressure (Mpa)	0.6	0.6	0.6	0.6	0.6	0.6
Suitable temperature (°C)	5~90	5~90	5~90	5~90	5~90	5~90
IP grade (IP)	IP40	IP40	IP40	IP40	IP40	IP40
Open/Close time (s)	0.45/0.45	0.65/0.35	0.35/0.65	0.45/0.45	0.65/0.35	0.35/0.65
Repeatability (mm)	0.04	0.04	0.04	0.04	0.04	0.04
Air consumption (cm³) (Round trip)	650	800	1000	650	800	1000
The allowed longest fingers (mm)	320	280	280	280	240	240
The allowed heaviest single finger (kg)	8.5	8.5	8.5	8.5	8.5	8.5

The recommended workpiece weight is calculated under the conditions of friction coefficient 0.1 and safety factor 2 (not including robot acceleration) for matched gripping. If mechanical locking gripping is used, the grippable workpiece weight will be larger. The product comes with 4 finger location pins and 2 gripper location pins;

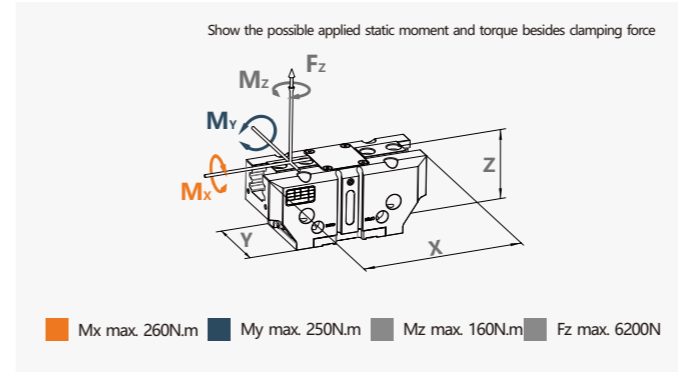
## Extended Function - Dustproof type

Product Model	LT-PG2-240A-DP	LT-PG2-240A-CFM-DP	LT-PG2-240A-OFM-DP	LT-PG2-240B-DP	LT-PG2-240B-CFM-DP	LT-PG2-240B-OFM-DP
Item No.	F11090005	F11090010	F11090011	F11090009	F11090012	F11090013
IP grade (IP)	IP64	IP64	IP64	IP64	IP64	IP64
Purge air pressure (Mpa)	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1
Product weight (kg)	8.6	10.7	10.4	8.9	11	10.7

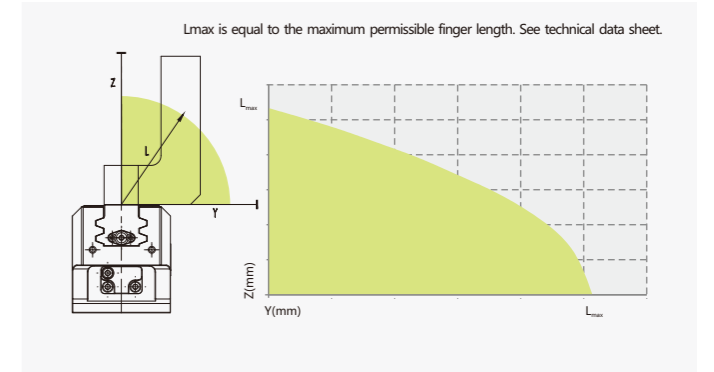
## Extended Function - High temperature type

Product Model	LT-PG2-240A-HT	LT-PG2-240A-CFM-HT	LT-PG2-240A-OFM-HT	LT-PG2-240B-HT	LT-PG2-240B-CFM-HT	LT-PG2-240B-OFM-HT
Item No.	F11090014	F11090015	F11090016	F11090017	F11090018	F11090019
Suitable temperature (°C)	5~130	5~130	5~130	5~130	5~130	5~130
Product weight (kg)	7.9	10	9.7	8.2	10.3	10

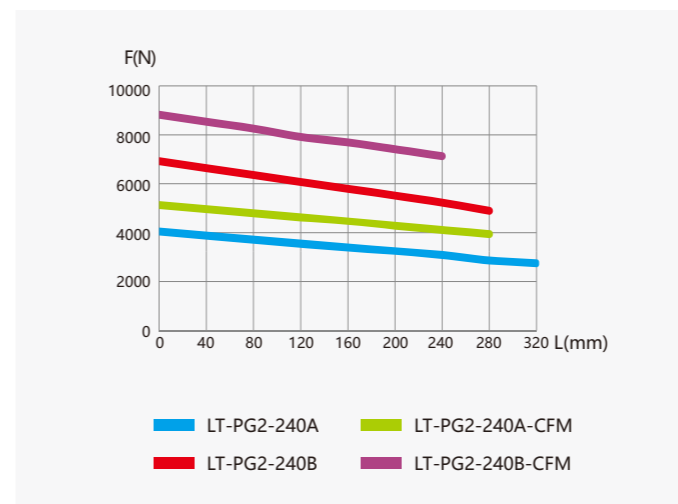
## Dimensions and Maximum Loads



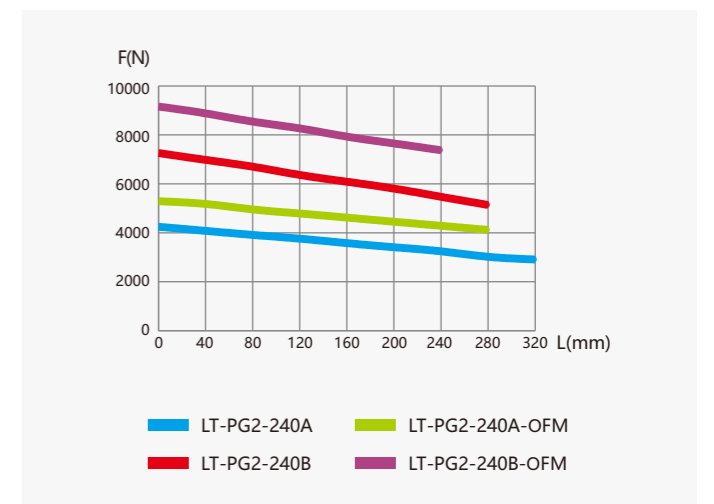
## Maximum Permitted Finger Projection



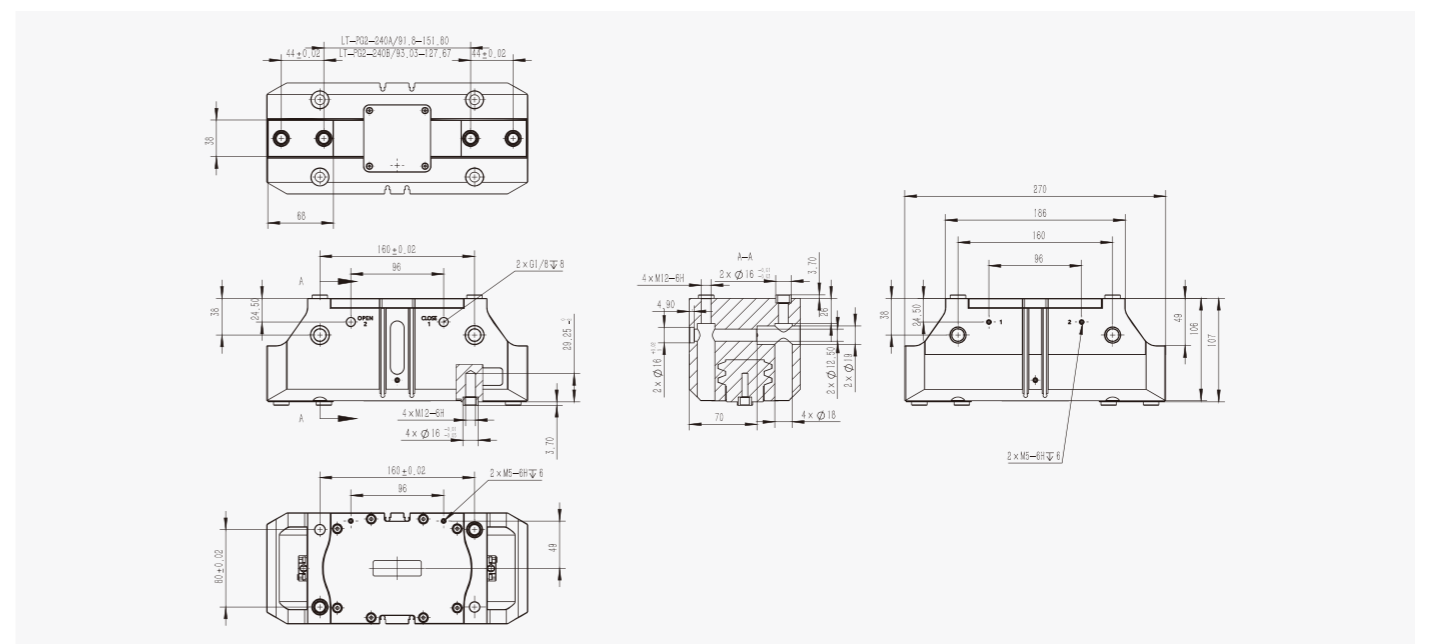
## Closing Force Diagram



## Opening Force Diagram



## Dimensions



# Model: LT-PG2-300series

- ▶ Stroke per jaw: 35mm/20mm
- ▶ Recommended grabbing weight: 29kg-49.5kg
- ▶ Two-finger gripper Longer gripping stroke
- ▶ Self-lubricating design, extended maintenance intervals
- ▶ Unique toothed slide rail design ensures reliable clamping
- ▶ Suitable for handling and clamping in various industries



Model	LT-PG2-300A	LT-PG2-300A-CFM	LT-PG2-300A-OFM	LT-PG2-300B	LT-PG2-300B-CFM	LT-PG2-300B-OFM
Item No.	F11100001	F11100002	F11100003	F11100005	F11100006	F11100007
Stroke per jaw (mm)	35	35	35	20	20	20
Closing force(in the position of 50mm)	5780	7180	/	9930	12330	/
Opening force(in the position of 50mm)	6030	/	7430	10360	/	12760
The Min. holding force (N)	/	1400	1400	/	2400	2400
Recommended workpiece weight(kg)	29	29	29	49.5	49.5	49.5
Product weight (kg)	13.2	15.6	15.3	13.7	16.1	15.8
The Min. Air pressure (Mpa)	0.4	0.4	0.4	0.4	0.4	0.4
The Max. Air pressure (Mpa)	0.8	0.65	0.65	0.8	0.65	0.65
Rated air pressure (Mpa)	0.6	0.6	0.6	0.6	0.6	0.6
Suitable temperature (°C)	5~90	5~90	5~90	5~90	5~90	5~90
IP grade (IP)	IP40	IP40	IP40	IP40	IP40	IP40
Open/Close time (s)	0.5/0.5	0.7/0.4	0.4/0.7	0.5/0.5	0.7/0.4	0.4/0.7
Repeatability (mm)	0.05	0.05	0.05	0.05	0.05	0.05
Air consumption (cm <sup>3</sup> ) (Round trip)	1040	1300	1560	1040	1300	1560
The allowed longest fingers (mm)	350	300	300	300	250	250
The allowed heaviest single finger (kg)	11.5	11.5	11.5	11.5	11.5	11.5

The recommended workpiece weight is calculated under the conditions of friction coefficient 0.1 and safety factor 2 (not including robot acceleration) for matched gripping. If mechanical locking gripping is used, the grippable workpiece weight will be larger. The product comes with 4 finger location pins and 2 gripper location pins;

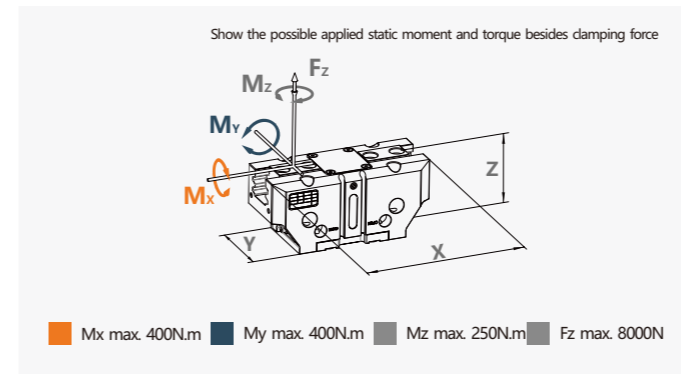
## Extended Function - Dustproof type

Product Model	LT-PG2-300A-DP	LT-PG2-300A-CFM-DP	LT-PG2-300A-OFM-DP	LT-PG2-300B-DP	LT-PG2-300B-CFM-DP	LT-PG2-300B-OFM-DP
Item No.	F11100004	F11100010	F11100011	F11100008	F11100012	F11100013
IP grade (IP)	IP64	IP64	IP64	IP64	IP64	IP64
Purge air pressure (Mpa)	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1
Product weight (kg)	14.2	16.6	16.3	14.7	17.1	17.7

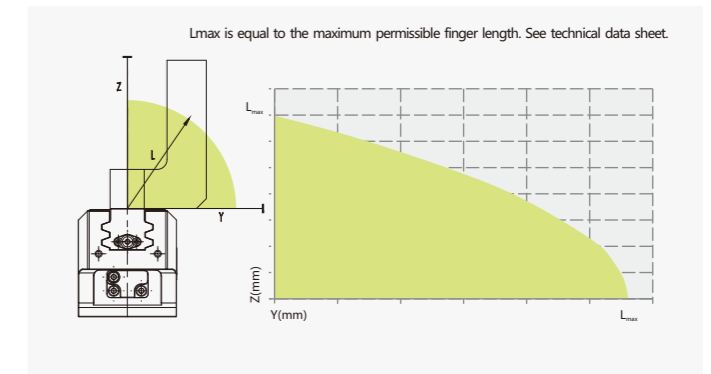
## Extended Function - High temperature type

Product Model	LT-PG2-300A-HT	LT-PG2-300A-CFM-HT	LT-PG2-300A-OFM-HT	LT-PG2-300B-HT	LT-PG2-300B-CFM-HT	LT-PG2-300B-OFM-HT
Item No.	F13100021	F11100014	F11100015	F11100016	F11100017	F11100018
Suitable temperature (°C)	5~130	5~130	5~130	5~130	5~130	5~130
Product weight (kg)	13.2	15.6	15.3	13.7	16.1	15.8

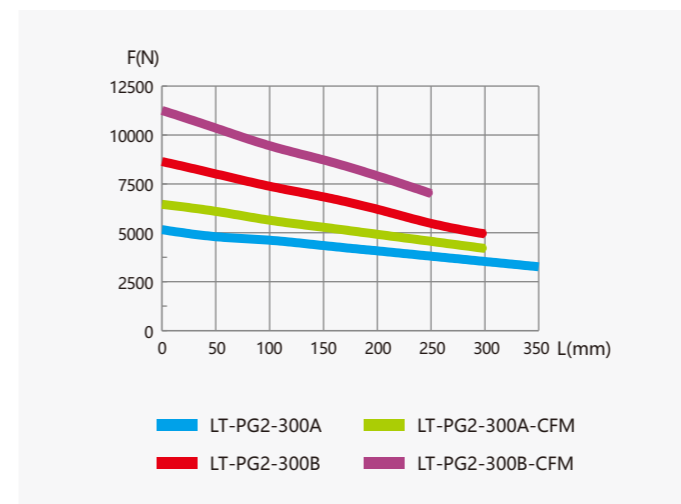
## Dimensions and Maximum Loads



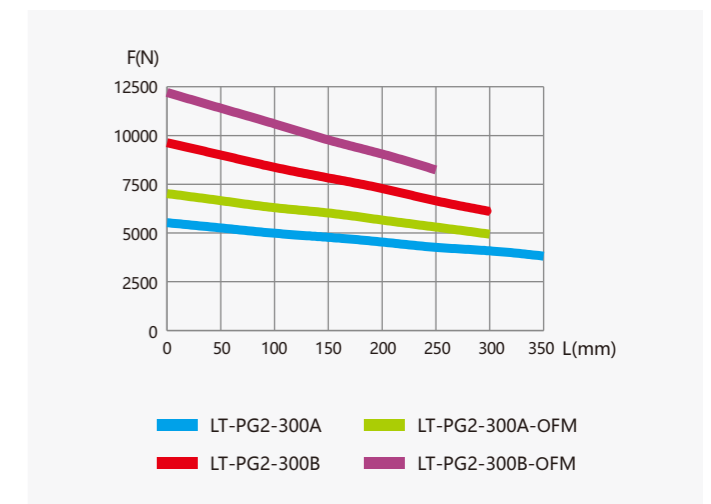
## Maximum Permitted Finger Projection



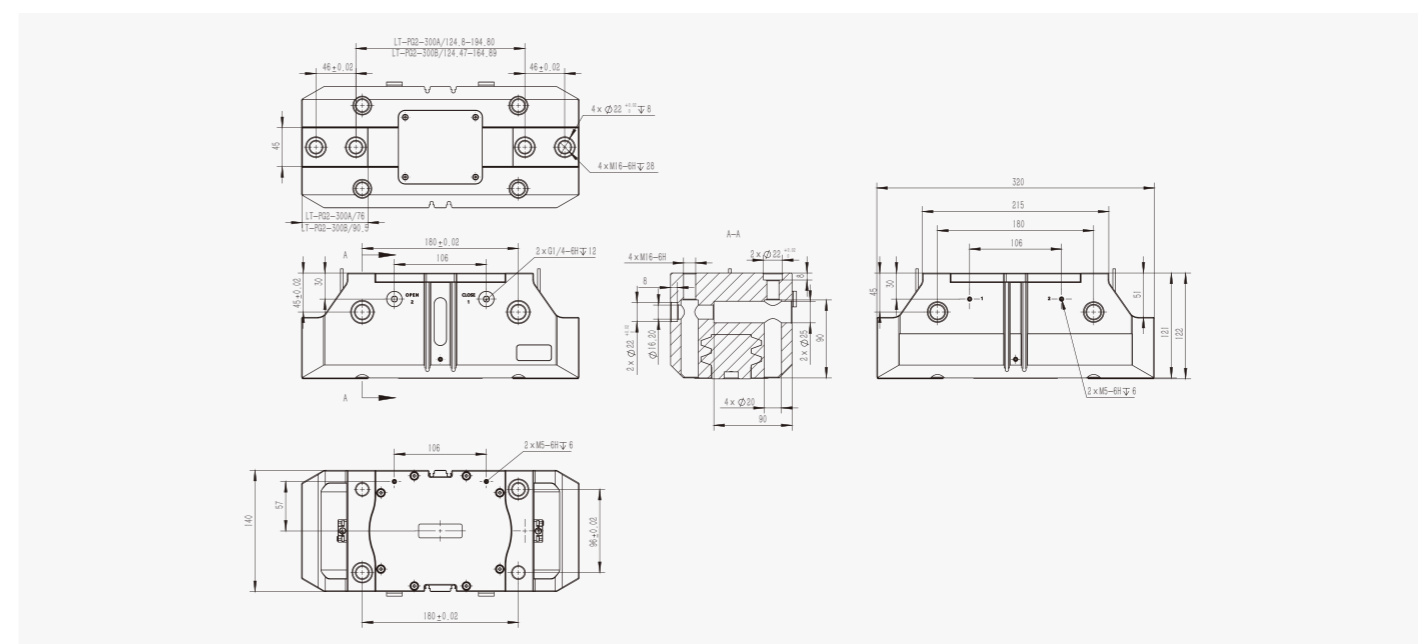
## Closing Force Diagram



## Opening Force Diagram



## Dimensions



# Model: LT-PG2-380series

- ▶ Stroke per jaw: 45mm/26mm
- ▶ Recommended grabbing weight: 48kg-82.5kg
- ▶ Two-finger gripper Longer gripping stroke
- ▶ Self-lubricating design, extended maintenance intervals
- ▶ Unique toothed slide rail design ensures reliable clamping
- ▶ Suitable for handling and clamping in various industries



Model	LT-PG2-380A	LT-PG2-380A-CFM	LT-PG2-380A-OFM	LT-PG2-380B	LT-PG2-380B-CFM	LT-PG2-380B-OFM
Item No.	F11110001	F11110002	F11110003	F11110004	F11110005	F11110006
Stroke per jaw (mm)	45	45	45	26	26	26
Closing force(in the position of 50mm)	9630	13830	/	16550	23750	/
Opening force(in the position of 50mm)	10160	/	14360	17460	/	24660
The Min. holding force (N)	/	4200	4200	/	7200	7200
Recommended workpiece weight(kg)	48	48	48	82.5	82.5	82.5
Product weight (kg)	26	31	30.5	27	32	31.5
The Min. Air pressure (Mpa)	0.4	0.4	0.4	0.4	0.4	0.4
The Max. Air pressure (Mpa)	0.8	0.65	0.65	0.8	0.65	0.65
Rated air pressure (Mpa)	0.6	0.6	0.6	0.6	0.6	0.6
Suitable temperature (°C)	5~90	5~90	5~90	5~90	5~90	5~90
IP grade (IP)	IP40	IP40	IP40	IP40	IP40	IP40
Open/Close time (s)	0.6/0.6	0.8/0.5	0.5/0.8	0.6/0.6	0.8/0.5	0.5/0.8
Repeatability (mm)	0.05	0.05	0.05	0.05	0.05	0.05
Air consumption (cm <sup>3</sup> ) (Round trip)	2280	2700	3170	2280	2700	3170
The allowed longest fingers (mm)	400	350	350	350	300	300
The allowed heaviest single finger (kg)	17	17	17	17	17	17

The recommended workpiece weight is calculated under the conditions of friction coefficient 0.1 and safety factor 2 (not including robot acceleration) for matched gripping. If mechanical locking gripping is used, the grippable workpiece weight will be larger. The product comes with 4 finger location pins and 2 gripper location pins;

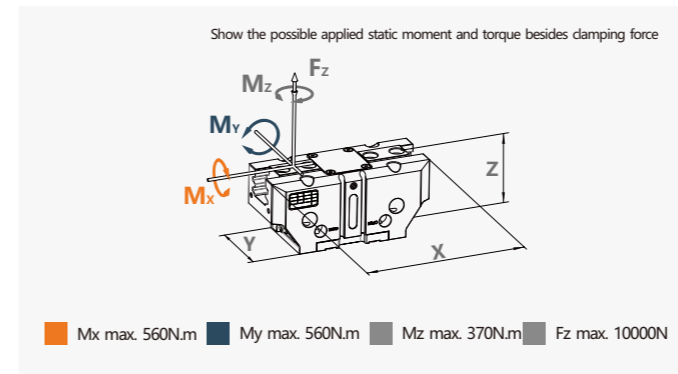
## Extended Function - Dustproof type

Product Model	LT-PG2-380A-DP	LT-PG2-380A-CFM-DP	LT-PG2-380A-OFM-DP	LT-PG2-380B-DP	LT-PG2-380B-CFM-DP	LT-PG2-380B-OFM-DP
Item No.	F11110007	F11110008	F11110009	F11110010	F11110011	F11110012
IP grade (IP)	IP64	IP64	IP64	IP64	IP64	IP64
Purge air pressure (Mpa)	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1
Product weight (kg)	28.7	33.7	33.2	29.7	34.7	34.2

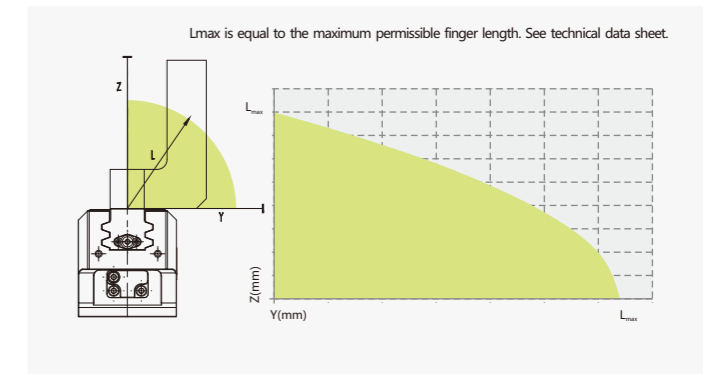
## Extended Function - High temperature type

Product Model	LT-PG2-380A-HT	LT-PG2-380A-CFM-HT	LT-PG2-380A-OFM-HT	LT-PG2-380B-HT	LT-PG2-380B-CFM-HT	LT-PG2-380B-OFM-HT
Item No.	F11110014	F11110015	F11110016	F11110017	F11110018	F11110019
Suitable temperature (°C)	5~130	5~130	5~130	5~130	5~130	5~130
Product weight (kg)	26	31	30.5	27	32	31.5

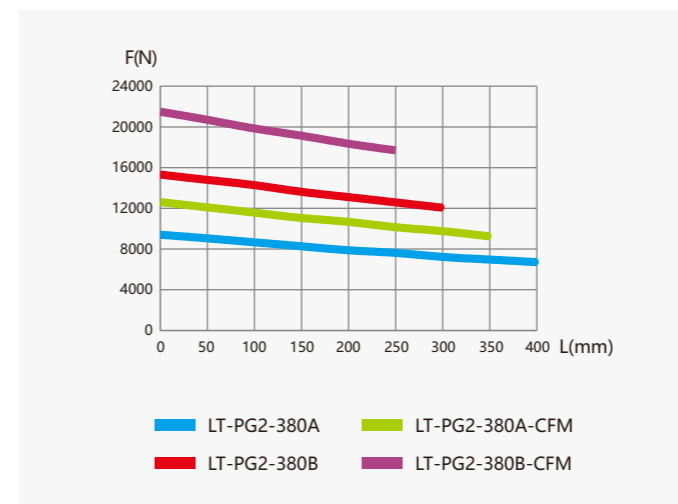
## Dimensions and Maximum Loads



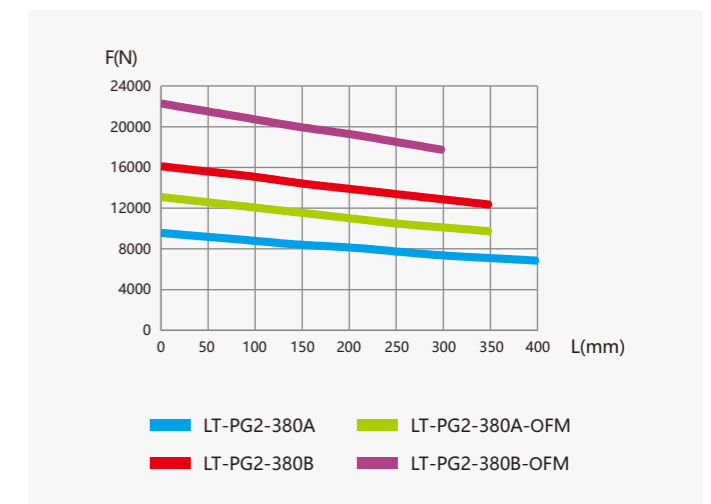
## Maximum Permitted Finger Projection



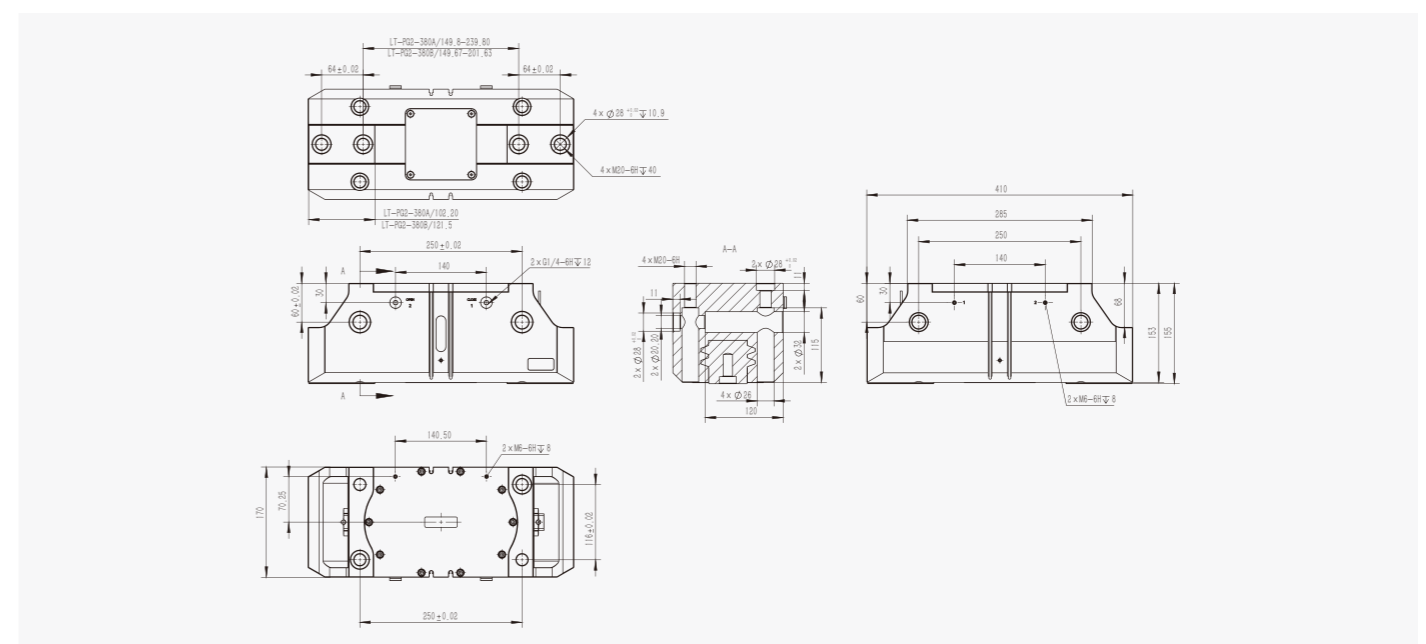
## Closing Force Diagram



## Opening Force Diagram



## Dimensions



# Model: LT-TG3-40series

- ▶ Stroke per jaw: 2.5mm
- ▶ Recommended grabbing weight: 1.25kg
- ▶ Gripper weight: 0.13-0.14kg
- ▶ Self-lubricating design ensures reliable clamping
- ▶ T-type guide rail design allows precise grasping of various workpieces



Model	LT-TG3-40A	LT-TG3-40A-CFM	LT-TG3-40A-OFM
Item No.	F13010001	F13010002	F13010003
Stroke per jaw (mm)	2.5	2.5	2.5
Closing force (in the position of 20mm)	250	350	/
Opening force (in the position of 20mm)	275	/	375
The Min. holding force (N)	/	100	100
Recommended workpiece weight (kg)	1.25	1.25	1.25
Product weight (kg)	0.125	0.14	0.14
The Min. Air pressure (Mpa)	0.4	0.4	0.4
The Max. Air pressure (Mpa)	0.8	0.65	0.65
Rated air pressure (Mpa)	0.6	0.6	0.6
Suitable temperature (°C)	5~90	5~90	5~90
IP grade (IP)	IP40	IP40	IP40
Open/close time (s)	0.02/0.02	0.03/0.02	0.02/0.03
Repeatability (mm)	0.01	0.01	0.01
Air consumption (cm <sup>3</sup> ) (Round trip)	5	9	9
The allowed longest fingers (mm)	50	45	45
The allowed heaviest single finger (kg)	0.1	0.1	0.1

The recommended workpiece weight is calculated under the conditions of friction coefficient 0.1 and safety factor 2 (the robot acceleration isn't included) for matched gripping. If mechanical locking gripping is used, the grippable workpiece weight will be larger. The product comes with 6 finger location pins, the location pins of grippers aren't included;

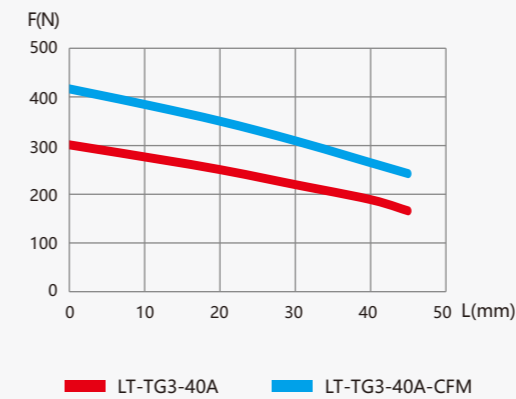
## Extended Function - Dustproof type

Product Model	LT-TG3-40A-DP	LT-TG3-40A-CFM-DP	LT-TG3-40A-OFM-DP
Item No.	F13010006	F13010007	F13010008
IP grade (IP)	IP64	IP64	IP64
Purge air pressure (Mpa)	0.05~0.1	0.05~0.1	0.05~0.1
Product weight (kg)	0.185	0.2	0.2

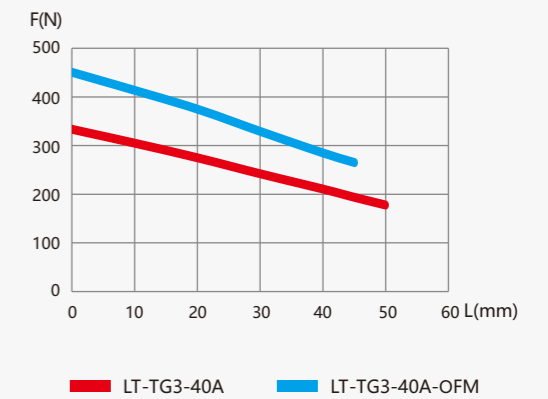
## Extended Function - High temperature type

Product Model	LT-TG3-40A-HT	LT-TG3-40A-CFM-HT	LT-TG3-40A-OFM-HT
Item No.	F13010009	F13010010	F13010011
Suitable temperature (°C)	5~130	5~130	5~130
Product weight (kg)	0.125	0.14	0.14

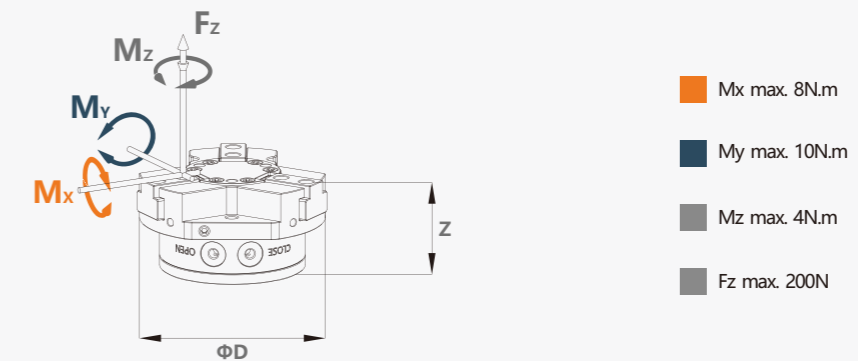
## Closing Force Diagram



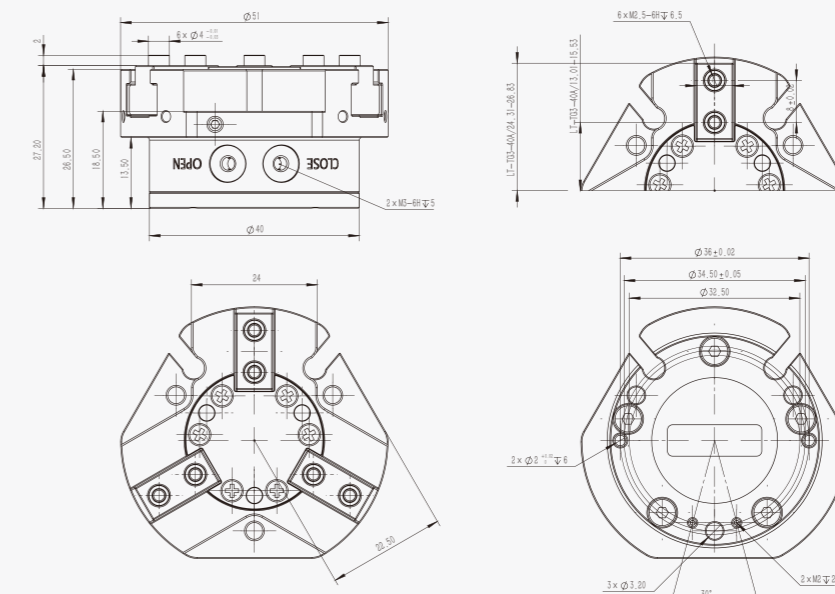
## Opening Force Diagram



## Dimensions and Maximum Loads

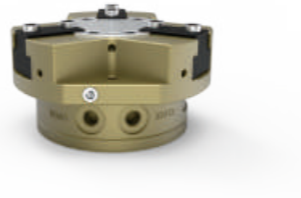


## Dimensions



# Model: LT-TG3-50series

- ▶ Stroke per jaw: 4mm
- ▶ Recommended grabbing weight: 2.1kg
- ▶ Gripper weight: 0.26-0.29kg
- ▶ Self-lubricating design ensures reliable clamping
- ▶ T-type guide rail design allows precise grasping of various workpieces



Model	LT-TG3-50A	LT-TG3-50A-CFM	LT-TG3-50A-OFM
Item No.	F13020001	F13020002	F13020003
Stroke per jaw (mm)	4	4	4
Closing force (in the position of 25mm)	430	555	/
Opening force (in the position of 25mm)	460	/	585
The Min. holding force (N)	/	125	125
Recommended workpiece weight (kg)	2.1	2.1	2.1
Product weight (kg)	0.26	0.29	0.29
The Min. Air pressure (Mpa)	0.4	0.4	0.4
The Max. Air pressure (Mpa)	0.8	0.65	0.65
Rated air pressure (Mpa)	0.6	0.6	0.6
Suitable temperature (°C)	5~90	5~90	5~90
IP grade (IP)	IP40	IP40	IP40
Open/close time (s)	0.02/0.02	0.03/0.02	0.02/0.03
Repeatability (mm)	0.01	0.01	0.01
Air consumption (cm <sup>3</sup> ) (Round trip)	12	22	22
The allowed longest fingers (mm)	64	58	58
The allowed heaviest single finger (kg)	0.18	0.18	0.18

The recommended workpiece weight is calculated under the conditions of friction coefficient 0.1 and safety factor 2 (the robot acceleration isn't included) for matched gripping. If mechanical locking gripping is used, the grippable workpiece weight will be larger. The product comes with 6 finger location pins, the location pins of grippers aren't included;

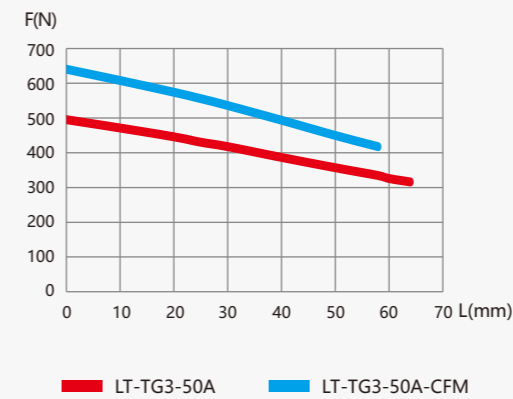
## Extended Function - Dustproof type

Product Model	LT-TG3-50A-DP	LT-TG3-50A-CFM-DP	LT-TG3-50A-OFM-DP
Item No.	F13020007	F13020008	F13020009
IP grade (IP)	IP64	IP64	IP64
Purge air pressure (Mpa)	0.05~0.1	0.05~0.1	0.05~0.1
Product weight (kg)	0.34	0.37	0.37

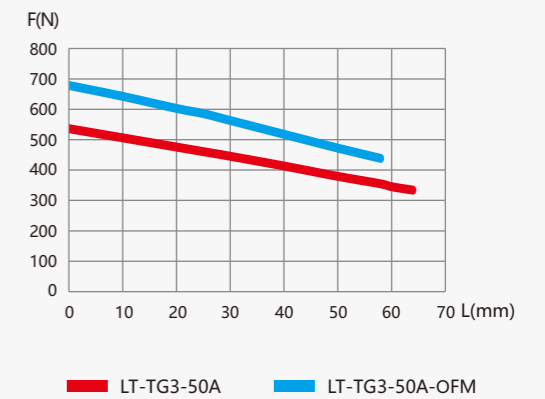
## Extended Function - High temperature type

Product Model	LT-TG3-50A-HT	LT-TG3-50A-CFM-HT	LT-TG3-50A-OFM-HT
Item No.	F13020015	F13020016	F13020017
Suitable temperature (°C)	5~130	5~130	5~130
Product weight (kg)	0.26	0.29	0.29

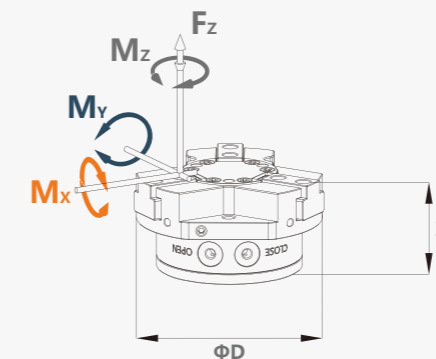
## Closing Force Diagram



## Opening Force Diagram

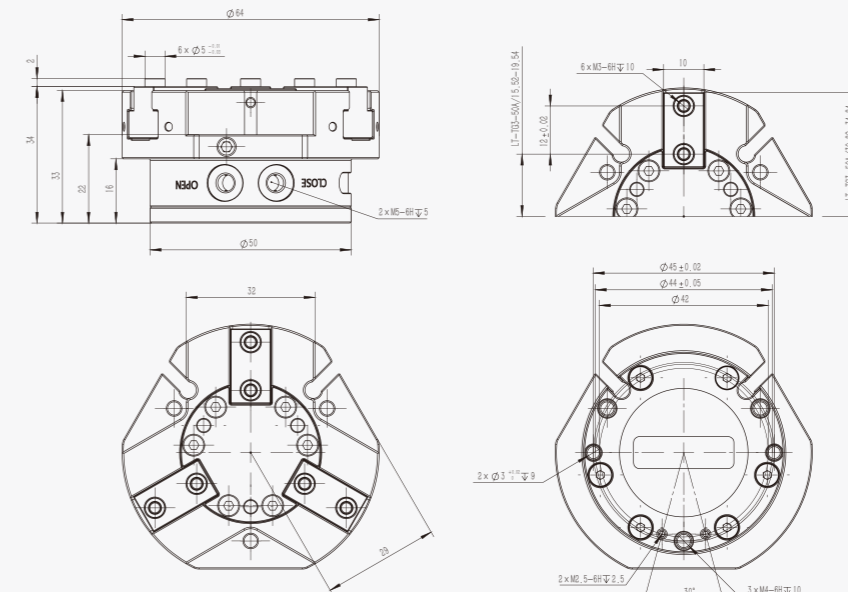


## Dimensions and Maximum Loads



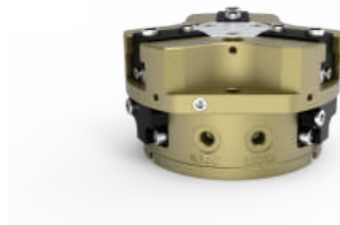
- Mx max. 16N.m
- My max. 20N.m
- Mz max. 8N.m
- Fz max. 400N

## Dimensions



# Model: LT-TG3-64series

- ▶ Stroke per jaw: 6mm
- ▶ Recommended grabbing weight: 3.5kg
- ▶ Gripper weight: 0.45-0.5kg
- ▶ Self-lubricating design ensures reliable clamping
- ▶ T-type guide rail design allows precise grasping of various workpieces



Model	LT-TG3-64A	LT-TG3-64A-CFM	LT-TG3-64A-OFM
Item No.	F13030002	F13030003	F13030004
Stroke per jaw (mm)	6	6	6
Closing force (in the position of 25mm)	700	900	/
Opening force (in the position of 25mm)	760	/	960
The Min. holding force (N)	/	200	200
Recommended workpiece weight (kg)	3.5	3.5	3.5
Product weight (kg)	0.45	0.5	0.5
The Min. Air pressure (Mpa)	0.4	0.4	0.4
The Max. Air pressure (Mpa)	0.8	0.65	0.65
Rated air pressure (Mpa)	0.6	0.6	0.6
Suitable temperature (°C)	5~90	5~90	5~90
IP grade (IP)	IP40	IP40	IP40
Open/close time (s)	0.03/0.03	0.04/0.02	0.02/0.04
Repeatability (mm)	0.01	0.01	0.01
Air consumption (cm³) (Round trip)	27	49	49
The allowed longest fingers (mm)	80	72	72
The allowed heaviest single finger (kg)	0.35	0.35	0.35

The recommended workpiece weight is calculated under the conditions of friction coefficient 0.1 and safety factor 2 (the robot acceleration isn't included) for matched gripping. If mechanical locking gripping is used, the grippable workpiece weight will be larger. The product comes with 6 finger location pins, the location pins of grippers aren't included;

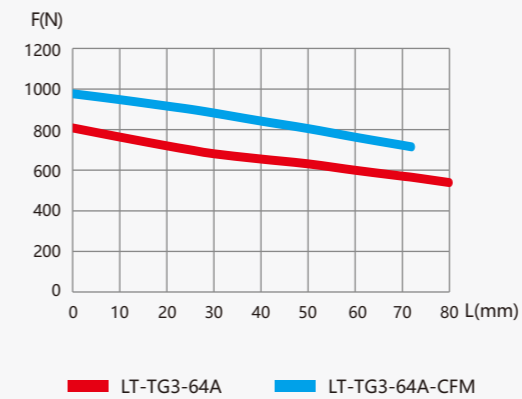
## Extended Function - Dustproof type

Product Model	LT-TG3-64A-DP	LT-TG3-64A-CFM-DP	LT-TG3-64A-OFM-DP
Item No.	F13030008	F13030009	F13030010
IP grade (IP)	IP64	IP64	IP64
Purge air pressure (Mpa)	0.05~0.1	0.05~0.1	0.05~0.1
Product weight (kg)	0.56	0.61	0.61

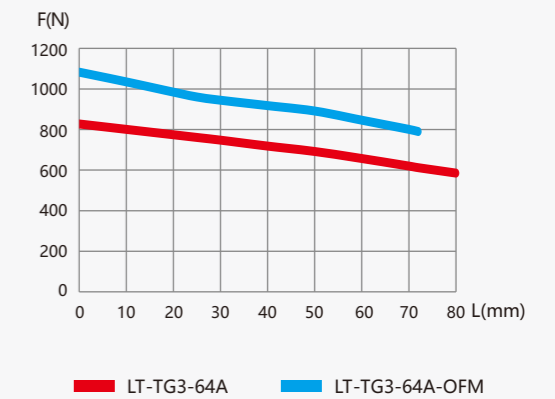
## Extended Function - High temperature type

Product Model	LT-TG3-64A-HT	LT-TG3-64A-CFM-HT	LT-TG3-64A-OFM-HT
Item No.	F13030015	F13030016	F13030017
Suitable temperature (°C)	5~130	5~130	5~130
Product weight (kg)	0.45	0.5	0.5

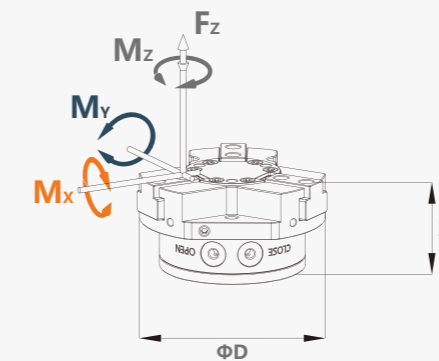
## Closing Force Diagram



## Opening Force Diagram

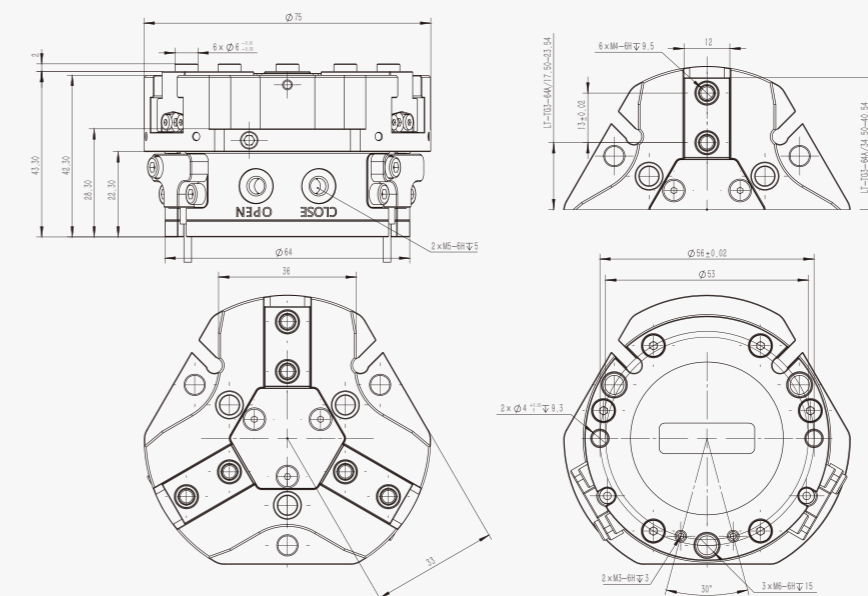


## Dimensions and Maximum Loads



- Mx max. 32N.m
- My max. 48N.m
- Mz max. 32N.m
- Fz max. 880N

## Dimensions



# Model: LT-PG3-80series



- ▶ Stroke per jaw: 8mm/4mm
- ▶ Recommended grabbing weight: 5.4kg-10.5kg
- ▶ Universal three-finger gripper for precise handling
- ▶ Sensitive sensor for greater flexibility
- ▶ Self-lubricating design ensures reliable clamping
- ▶ Lubrication groove design extends maintenance intervals

Model	LT-PG3-80A	LT-PG3-80A-CFM	LT-PG3-80A-OFM	LT-PG3-80B	LT-PG3-80B-CFM	LT-PG3-80B-OFM
Item No.	F13040002	F13040003	F13040004	F13040006	F13040007	F13040008
Stroke per jaw (mm)	8	8	8	4	4	4
Closing force(in the position of 25mm)	1090	1440	/	2150	2860	/
Opening force(in the position of 25mm)	1180	/	1530	2330	/	3040
The Min. holding force (N)	/	350	350	/	710	710
Recommended workpiece weight(kg)	5.4	5.4	5.4	10.5	10.5	10.5
Product weight (kg)	0.85	1	1	0.85	1	1
The Min. Air pressure (Mpa)	0.4	0.4	0.4	0.4	0.4	0.4
The Max. Air pressure (Mpa)	0.8	0.65	0.65	0.8	0.8	0.65
Rated air pressure (Mpa)	0.6	0.6	0.6	0.6	0.6	0.6
Suitable temperature (°C)	5~90	5~90	5~90	5~90	5~90	5~90
IP grade (IP)	IP40	IP40	IP40	IP40	IP40	IP40
Open/Close time (s)	0.05/0.05	0.06/0.04	0.04/0.06	0.05/0.05	0.06/0.04	0.04/0.06
Repeatability (mm)	0.01	0.01	0.01	0.01	0.01	0.01
Air consumption (cm <sup>3</sup> ) (Round trip)	60	108	108	60	108	108
The allowed longest fingers (mm)	110	105	105	105	100	100
The allowed heaviest single finger (kg)	0.6	0.6	0.6	0.6	0.6	0.6

The recommended workpiece weight is calculated under the conditions of friction coefficient 0.1 and safety factor 2 (the robot acceleration isn't included) for matched gripping. If mechanical locking gripping is used, the grippable workpiece weight will be larger. The product comes with 6 finger location pins, the location pins of grippers aren't included;

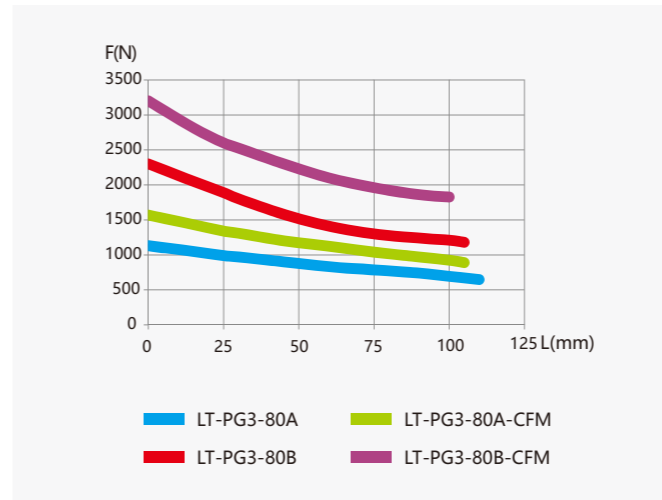
## Extended Function - Dustproof type

Product Model	LT-PG3-80A-DP	LT-PG3-80A-CFM-DP	LT-PG3-80A-OFM-DP	LT-PG3-80B-DP	LT-PG3-80B-CFM-DP	LT-PG3-80B-OFM-DP
Item No.	F13040005	F13040010	F13040012	F13040009	F13040011	F13040013
IP grade (IP)	IP64	IP64	IP64	IP64	IP64	IP64
Purge air pressure (Mpa)	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1
Product weight (kg)	0.99	1.14	1.14	0.99	1.14	1.14

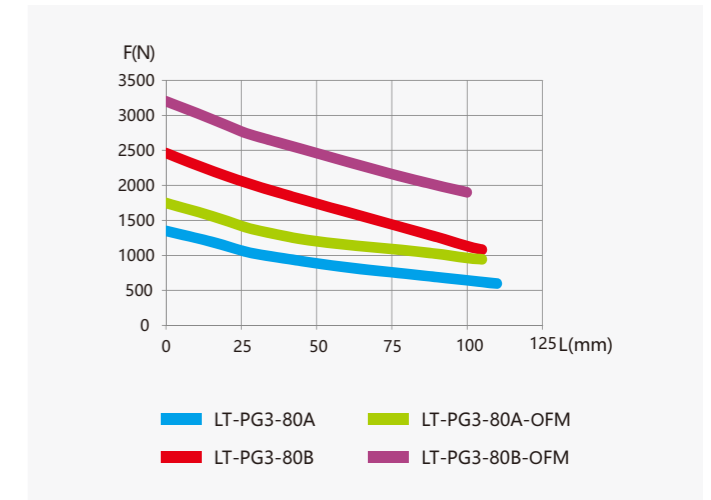
## Extended Function - High temperature type

Product Model	LT-PG3-80A-HT	LT-PG3-80A-CFM-HT	LT-PG3-80A-OFM-HT	LT-PG3-80B-HT	LT-PG3-80B-CFM-HT	LT-PG3-80B-OFM-HT
Item No.	F13040014	F13040015	F13040016	F13040017	F13040018	F13040019
Suitable temperature (°C)	5~130	5~130	5~130	5~130	5~130	5~130
Product weight (kg)	0.85	1	1	0.85	1	1

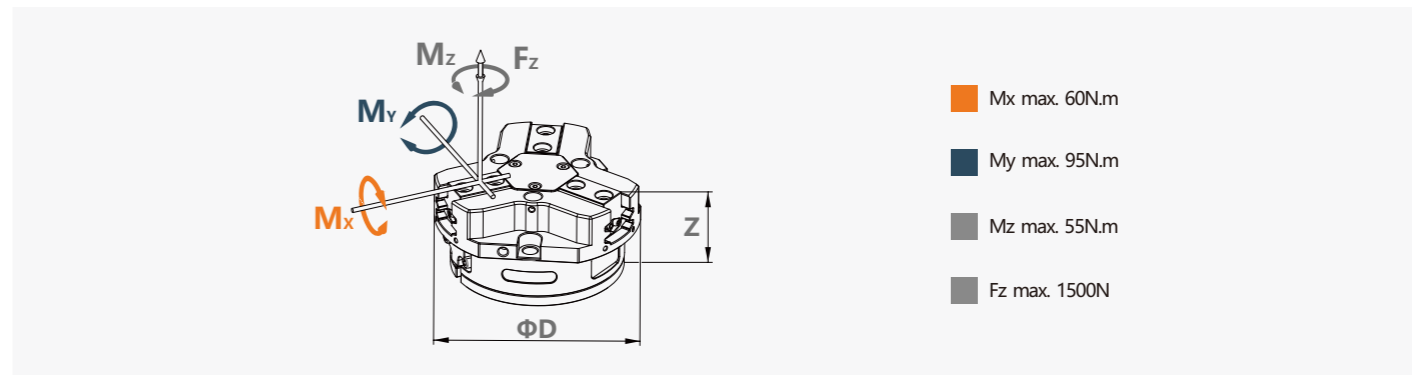
## Closing Force Diagram



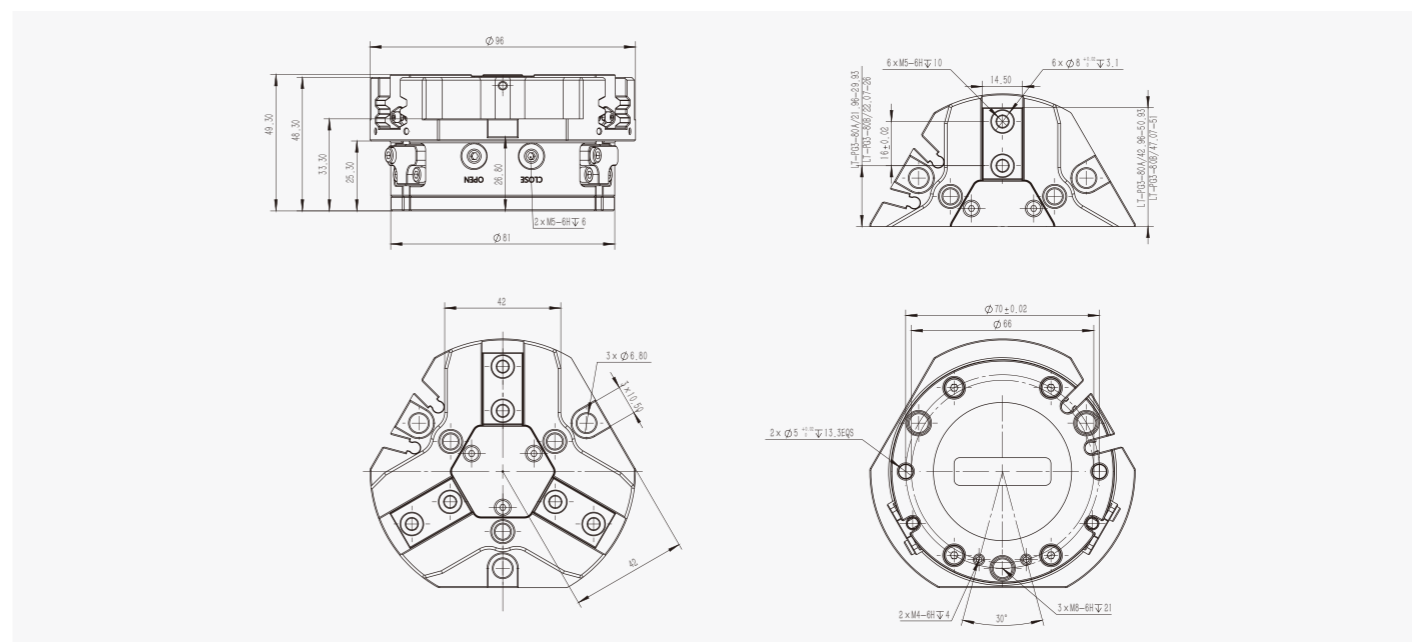
## Opening Force Diagram



## Dimensions and Maximum Loads



## Dimensions



# Model: LT-PG3-100series



- ▶ Stroke per jaw: 10mm/5mm
- ▶ Recommended grabbing weight: 10kg-20kg
- ▶ Universal three-finger gripper for precise handling
- ▶ Unique toothed slide rail design ensures reliable clamping
- ▶ Self-lubricating design extends maintenance intervals
- ▶ Standard solutions for multiple application areas

Model	LT-PG3-100A	LT-PG3-100A-CFM	LT-PG3-100A-OFM	LT-PG3-100B	LT-PG3-100B-CFM	LT-PG3-100B-OFM
Item No.	F13050002	F13050003	F13050004	F13050006	F13050007	F13050008
Stroke per jaw (mm)	10	10	10	5	5	5
Closing force(in the position of 30mm)	2050	2750	/	4120	5570	/
Opening force(in the position of 30mm)	2180	/	2880	4390	/	5840
The Min. holding force (N)	/	700	700	/	1450	1450
Recommended workpiece weight(kg)	10	10	10	20	20	20
Product weight (kg)	1.25	1.5	1.5	1.3	1.5	1.5
The Min. Air pressure (Mpa)	0.4	0.4	0.4	0.4	0.4	0.4
The Max. Air pressure (Mpa)	0.8	0.65	0.65	0.8	0.65	0.65
Rated air pressure (Mpa)	0.6	0.6	0.6	0.6	0.6	0.6
Suitable temperature (°C)	5~90	5~90	5~90	5~90	5~90	5~90
IP grade (IP)	IP40	IP40	IP40	IP40	IP40	IP40
Open/Close time (s)	0.1/0.1	0.2/0.1	0.1/0.2	0.1/0.1	0.2/0.1	0.1/0.2
Repeatability (mm)	0.01	0.01	0.01	0.01	0.01	0.01
Air consumption (cm <sup>3</sup> ) (Round trip)	120	210	210	120	210	210
The allowed longest fingers (mm)	145	135	135	135	125	125
The allowed heaviest single finger (kg)	1.1	1.1	1.1	1.1	1.1	1.1

The recommended workpiece weight is calculated under the conditions of friction coefficient 0.1 and safety factor 2 (the robot acceleration isn't included) for matched gripping. If mechanical locking gripping is used, the grippable workpiece weight will be larger. The product comes with 6 finger location pins, the location pins of grippers aren't included;

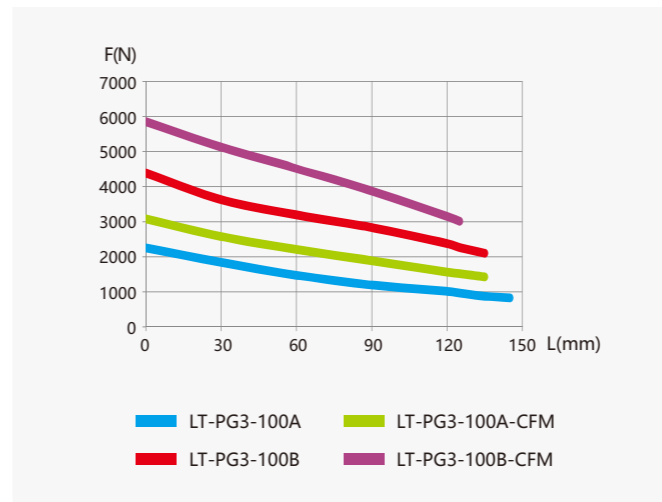
## Extended Function - Dustproof type

Product Model	LT-PG3-100A-DP	LT-PG3-100A-CFM-DP	LT-PG3-100A-OFM-DP	LT-PG3-100B-DP	LT-PG3-100B-CFM-DP	LT-PG3-100B-OFM-DP
Item No.	F13050005	F13050010	F13050012	F13050009	F13050011	F13050013
IP grade (IP)	IP64	IP64	IP64	IP64	IP64	IP64
Purge air pressure (Mpa)	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1
Product weight (kg)	1.51	1.76	1.76	1.56	1.76	1.76

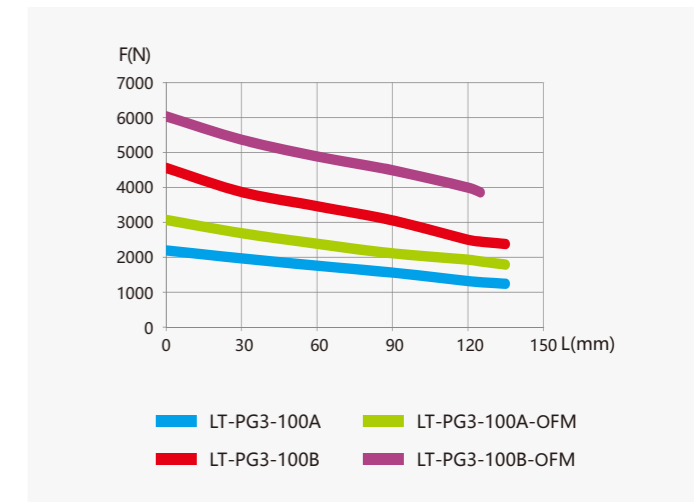
## Extended Function - High temperature type

Product Model	LT-PG3-100A-HT	LT-PG3-100A-CFM-HT	LT-PG3-100A-OFM-HT	LT-PG3-100B-HT	LT-PG3-100B-CFM-HT	LT-PG3-100B-OFM-HT
Item No.	F13050014	F13050015	F13050016	F13050017	F13050018	F13050019
Suitable temperature (°C)	5~130	5~130	5~130	5~130	5~130	5~130
Product weight (kg)	1.25	1.5	1.5	1.3	1.5	1.5

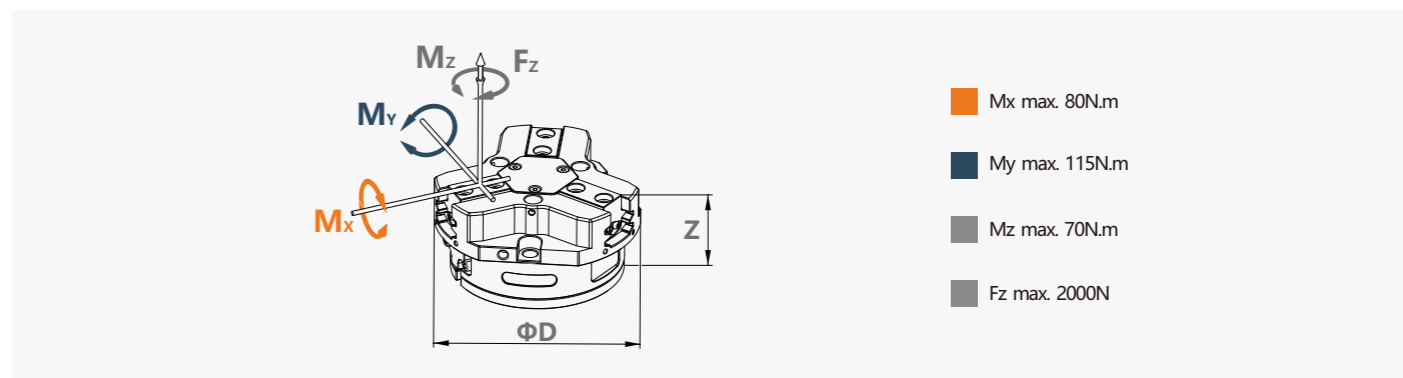
## Closing Force Diagram



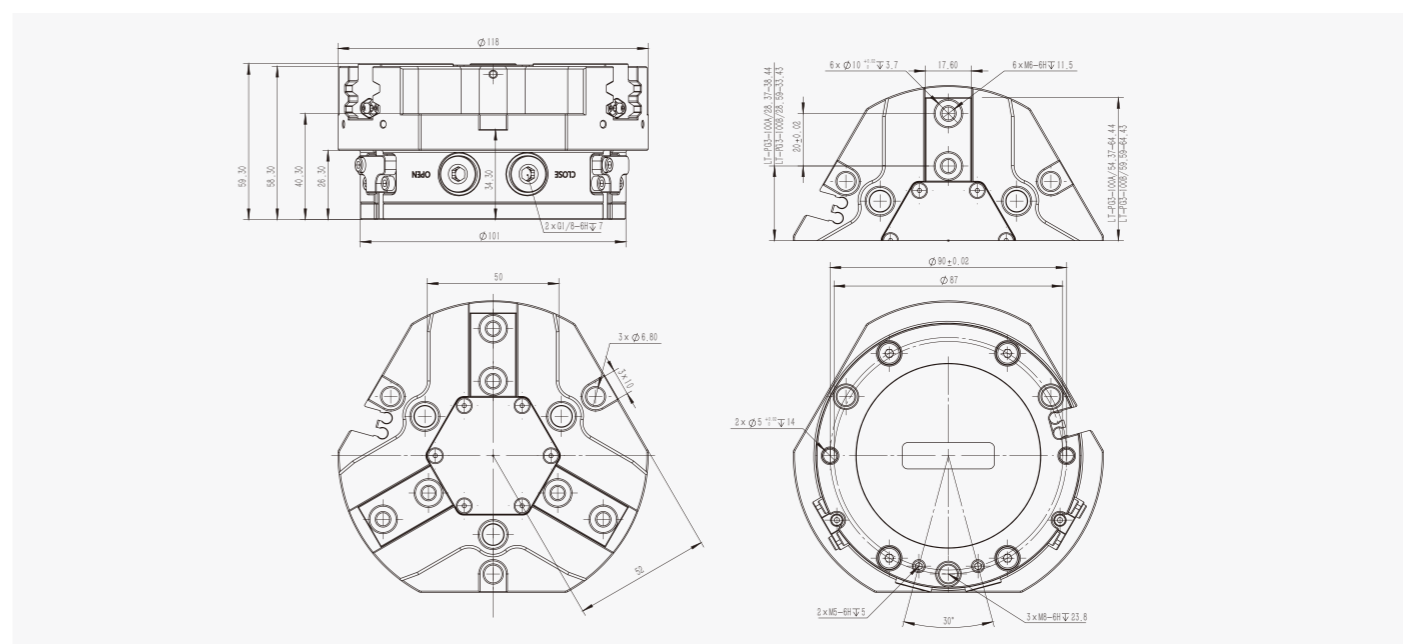
## Opening Force Diagram



## Dimensions and Maximum Loads



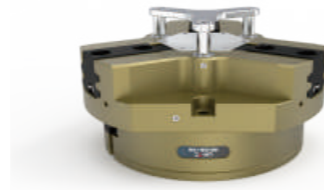
## Dimensions





# Model: LT-PG3-160series

- ▶ Stroke per jaw: 16mm/8mm
- ▶ Recommended grabbing weight: 29.5kg-57kg
- ▶ Three-finger gripper with long stroke and large clamping force
- ▶ Sturdy toothed slide rail design can withstand large torque
- ▶ Non-destructive fatigue test for tens of millions of opening and closing times, self-lubricating design to extend maintenance intervals



Model	LT-PG3-160A	LT-PG3-160A-CFM	LT-PG3-160A-OFM	LT-PG3-160B	LT-PG3-160B-CFM	LT-PG3-160B-OFM
Item No.	F13070002	F13070003	F13070004	F13070006	F13070008	F13070009
Stroke per jaw (mm)	16	16	16	8	8	8
Closing force(in the position of 40mm)	5970	7770	/	11480	15030	/
Opening force(in the position of 40mm)	6380	/	8180	12270	/	15820
The Min. holding force (N)	/	1800	1800	/	3550	3550
Recommended workpiece weight(kg)	29.5	29.5	29.5	57	57	57
Product weight (kg)	5.1	5.9	5.9	5.1	5.9	5.9
The Min. Air pressure (Mpa)	0.4	0.4	0.4	0.4	0.4	0.4
The Max. Air pressure (Mpa)	0.8	0.65	0.65	0.8	0.65	0.65
Rated air pressure (Mpa)	0.6	0.6	0.6	0.6	0.6	0.6
Suitable temperature (°C)	5~90	5~90	5~90	5~90	5~90	5~90
IP grade (IP)	IP40	IP40	IP40	IP40	IP40	IP40
Open/Close time (s)	0.5/0.5	0.8/0.4	0.4/0.8	0.5/0.5	0.8/0.4	0.4/0.8
Repeatability (mm)	0.02	0.02	0.02	0.02	0.02	0.02
Air consumption (cm³) (Round trip)	500	870	870	500	870	870
The allowed longest fingers (mm)	220	210	210	210	200	200
The allowed heaviest single finger (kg)	3.5	3.5	3.5	3.5	3.5	3.5

The recommended workpiece weight is calculated under the conditions of friction coefficient 0.1 and safety factor 2 (the robot acceleration isn't included) for matched gripping. If mechanical locking gripping is used, the grippable workpiece weight will be larger. The product comes with 6 finger location pins, the location pins of grippers aren't included;

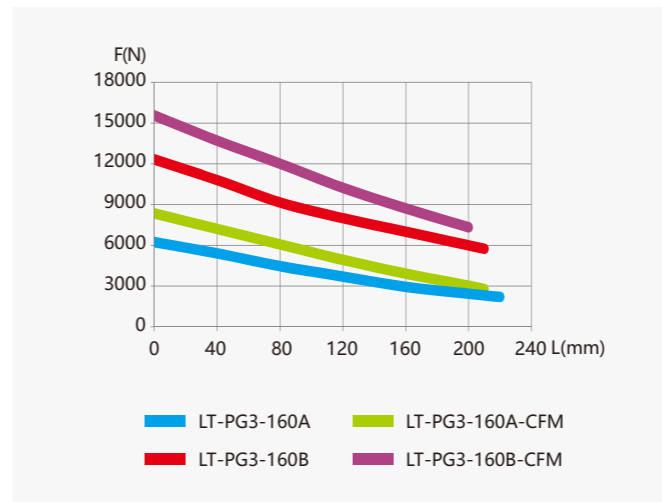
## Extended Function - Dustproof type

Product Model	LT-PG3-160A-DP	LT-PG3-160A-CFM-DP	LT-PG3-160A-OFM-DP	LT-PG3-160B-DP	LT-PG3-160B-CFM-DP	LT-PG3-160B-OFM-DP
Item No.	F13070005	F13070011	F13070013	F13070010	F13070012	F13070014
IP grade (IP)	IP64	IP64	IP64	IP64	IP64	IP64
Purge air pressure (Mpa)	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1
Product weight (kg)	5.62	6.42	6.42	5.62	6.42	6.42

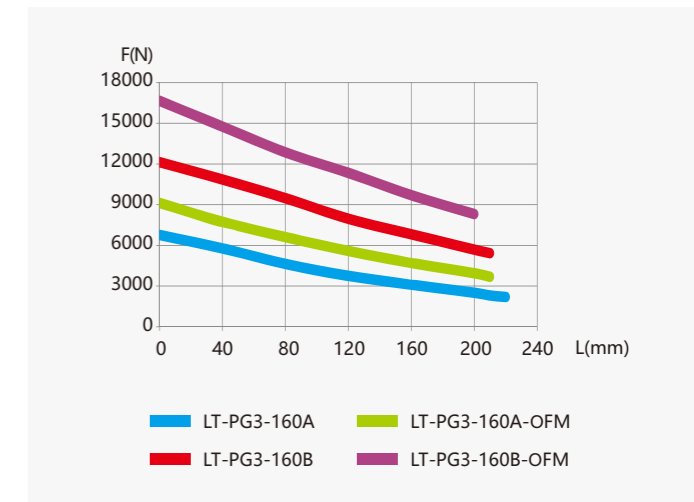
## Extended Function - High temperature type

Product Model	LT-PG3-160A-HT	LT-PG3-160A-CFM-HT	LT-PG3-160A-OFM-HT	LT-PG3-160B-HT	LT-PG3-160B-CFM-HT	LT-PG3-160B-OFM-HT
Item No.	F13070015	F13070016	F13070017	F13070018	F13070019	F13070020
Suitable temperature (°C)	5~130	5~130	5~130	5~130	5~130	5~130
Product weight (kg)	5.1	5.9	5.9	5.1	5.9	5.9

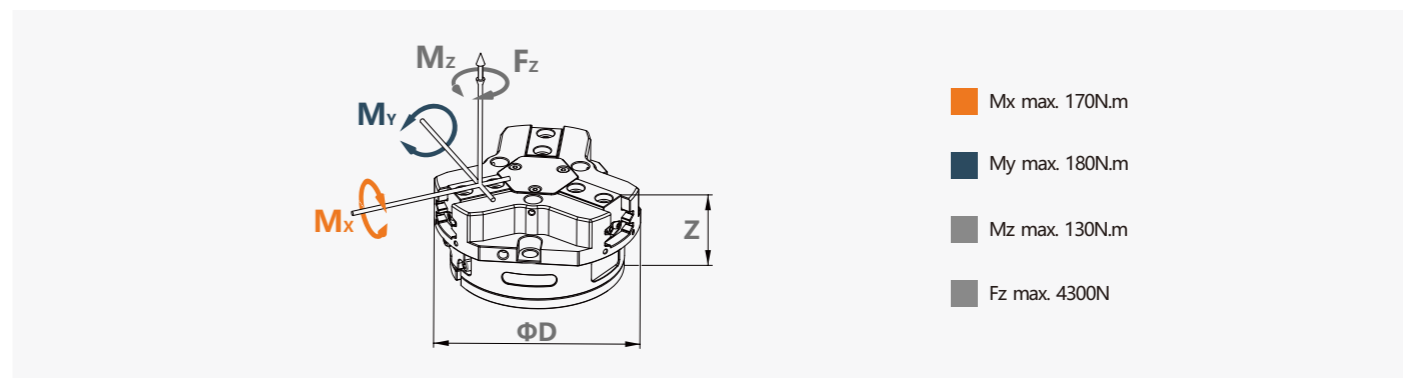
## Closing Force Diagram



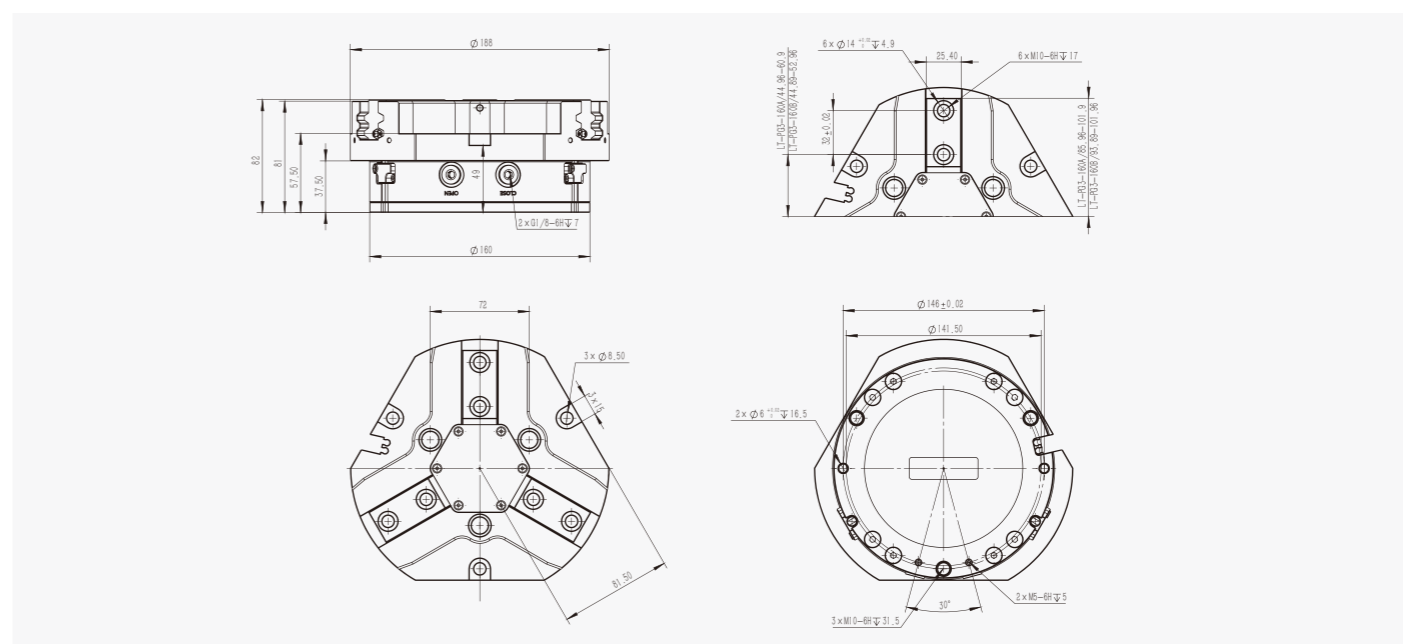
## Opening Force Diagram



## Dimensions and Maximum Loads



## Dimensions



# Model: LT-PG3-200series



- ▶ Stroke per jaw: 25mm/14mm
- ▶ Recommended grabbing weight: 41kg-63kg
- ▶ Universal three-finger gripper with longer gripping stroke and greater clamping force
- ▶ Self-lubricating design, extended maintenance intervals
- ▶ Toothed slide rail design ensures accurate and reliable clamping

Model	LT-PG3-200A	LT-PG3-200A-CFM	LT-PG3-200A-OFM	LT-PG3-200B	LT-PG3-200B-CFM	LT-PG3-200B-OFM
Item No.	F13080002	F13080003	F13080004	F13080006	F13080007	F13080008
Stroke per jaw (mm)	25	25	25	14	14	14
Closing force(in the position of 50mm)	8200	10900	/	12670	17320	/
Opening force(in the position of 50mm)	8620	/	11320	13300	/	17950
The Min. holding force (N)	/	2700	2700	/	4650	4650
Recommended workpiece weight(kg)	41	41	41	63	63	63
Product weight (kg)	9.6	10.9	10.8	9.8	11.1	11
The Min. Air pressure (Mpa)	0.4	0.4	0.4	0.4	0.4	0.4
The Max. Air pressure (Mpa)	0.8	0.65	0.65	0.8	0.65	0.65
Rated air pressure (Mpa)	0.6	0.6	0.6	0.6	0.6	0.6
Suitable temperature (°C)	5~90	5~90	5~90	5~90	5~90	5~90
IP grade (IP)	IP40	IP40	IP40	IP40	IP40	IP40
Open/Close time (s)	1.2/1.2	1.5/1	1/1.5	1.2/1.2	1.5/1	1/1.5
Repeatability (mm)	0.05	0.05	0.05	0.05	0.05	0.05
Air consumption (cm <sup>3</sup> ) (Round trip)	1050	1730	1730	1050	1730	1730
The allowed longest fingers (mm)	280	240	240	240	200	200
The allowed heaviest single finger (kg)	6.5	6.5	6.5	6.5	6.5	6.5

The recommended workpiece weight is calculated under the conditions of friction coefficient 0.1 and safety factor 2 (the robot acceleration isn't included) for matched gripping. If mechanical locking gripping is used, the grippable workpiece weight will be larger. The product comes with 6 finger location pins, the location pins of grippers aren't included;

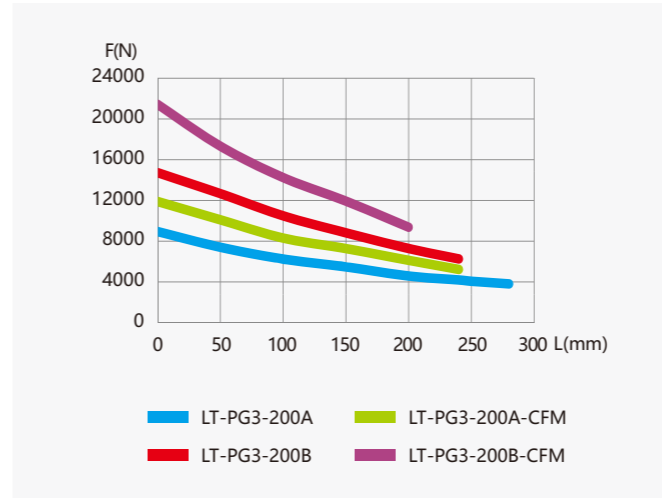
## Extended Function - Dustproof type

Product Model	LT-PG3-200A-DP	LT-PG3-200A-CFM-DP	LT-PG3-200A-OFM-DP	LT-PG3-200B-DP	LT-PG3-200B-CFM-DP	LT-PG3-200B-OFM-DP
Item No.	F13080005	F13080011	F13080012	F13080013	F13080009	F13080010
IP grade (IP)	IP64	IP64	IP64	IP64	IP64	IP64
Purge air pressure (Mpa)	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1
Product weight (kg)	10.6	11.9	11.8	10.8	12.1	12

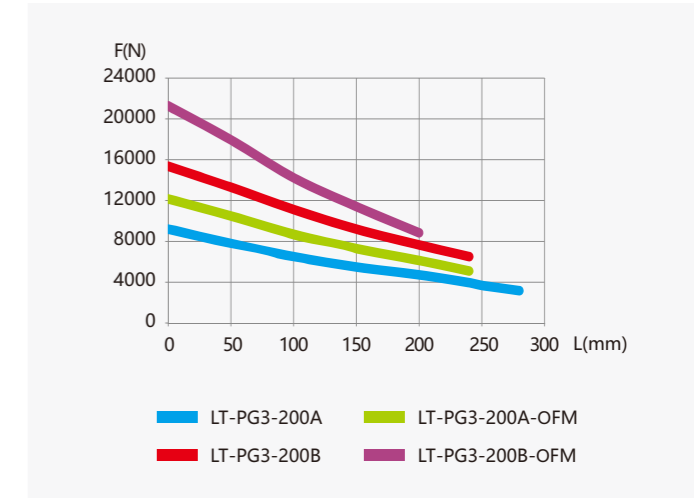
## Extended Function - High temperature type

Product Model	LT-PG3-200A-HT	LT-PG3-200A-CFM-HT	LT-PG3-200A-OFM-HT	LT-PG3-200B-HT	LT-PG3-200B-CFM-HT	LT-PG3-200B-OFM-HT
Item No.	F13080014	F13080015	F13080016	F13080017	F13080018	F13080019
Suitable temperature (°C)	5~130	5~130	5~130	5~130	5~130	5~130
Product weight (kg)	9.6	10.9	10.8	9.8	11.1	11

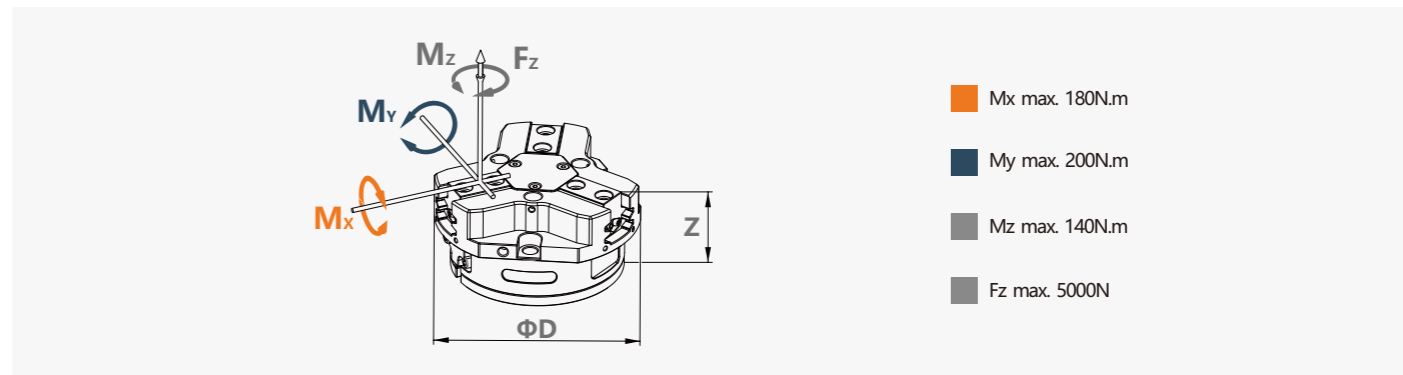
## Closing Force Diagram



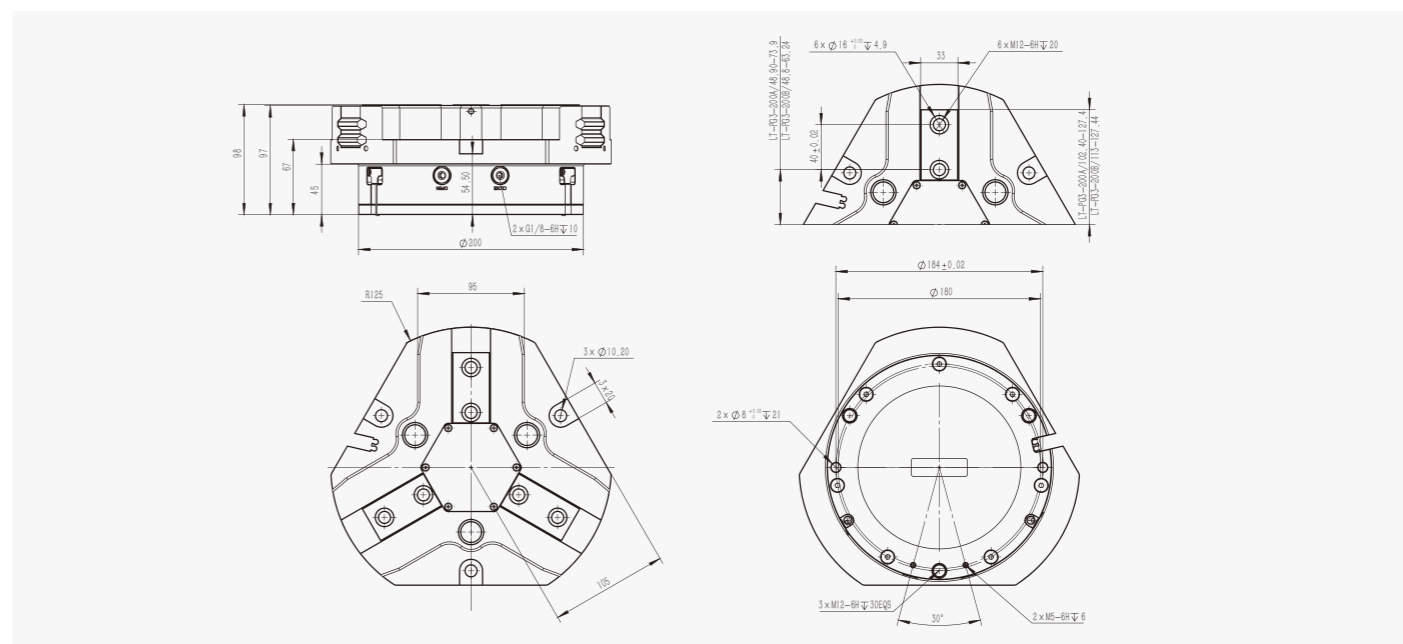
## Opening Force Diagram



## Dimensions and Maximum Loads



## Dimensions



# Model: LT-PG3-240series

- ▶ Stroke per jaw: 30mm/17mm
- ▶ Recommended grabbing weight:59kg-101kg
- ▶ Three-finger gripper with longer stroke and greater gripping force
- ▶ Sturdy toothed slide rail design to withstand greater torque
- ▶ Self-lubricating design to extend maintenance intervals, non-destructive fatigue testing for tens of millions of openings and closings



Model	LT-PG3-240A	LT-PG3-240A-CFM	LT-PG3-240A-OFM	LT-PG3-240B	LT-PG3-240B-CFM	LT-PG3-240B-OFM
Item No.	F13090003	F13090005	F13090004	F13090006	F13090007	F13090008
Stroke per jaw (mm)	30	30	30	17	17	17
Closing force(in the position of 40mm)	11860	16010	/	20390	27590	/
Opening force(in the position of 40mm)	12660	/	16810	21760	/	28960
The Min. holding force (N)	/	4150	4150	/	7200	7200
Recommended workpiece weight(kg)	59	59	59	101	101	101
Product weight (kg)	17	19.1	19	17.4	19.5	19.4
The Min. Air pressure (Mpa)	0.4	0.4	0.4	0.4	0.4	0.4
The Max. Air pressure (Mpa)	0.8	0.65	0.65	0.8	0.65	0.65
Rated air pressure (Mpa)	0.6	0.6	0.6	0.6	0.6	0.6
Suitable temperature (°C)	5~90	5~90	5~90	5~90	5~90	5~90
IP grade (IP)	IP40	IP40	IP40	IP40	IP40	IP40
Open/Close time (s)	1.25/1.25	1.7/1.1	1.1/2.1	1.25/1.25	1.7/1.1	1.1/2.1
Repeatability (mm)	0.05	0.05	0.05	0.05	0.05	0.05
Air consumption (cm³) (Round trip)	1800	3100	3100	1800	3100	3100
The allowed longest fingers (mm)	300	250	250	250	200	200
The allowed heaviest single finger (kg)	8.5	8.5	8.5	8.5	8.5	8.5

The recommended workpiece weight is calculated under the conditions of friction coefficient 0.1 and safety factor 2 (the robot acceleration isn't included) for matched gripping. If mechanical locking gripping is used, the grippable workpiece weight will be larger. The product comes with 6 finger location pins, the location pins of grippers aren't included;

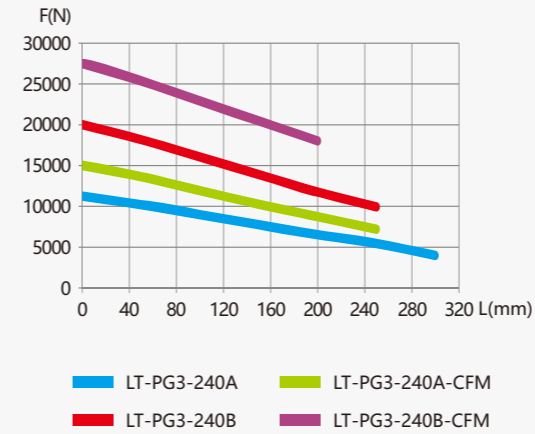
## Extended Function - Dustproof type

Product Model	LT-PG3-240A-DP	LT-PG3-240A-CFM-DP	LT-PG3-240A-OFM-DP	LT-PG3-240B-DP	LT-PG3-240B-CFM-DP	LT-PG3-240B-OFM-DP
Item No.	F13090002	F13090010	F13090011	F13090009	F13090012	F13090013
IP grade (IP)	IP64	IP64	IP64	IP64	IP64	IP64
Purge air pressure (Mpa)	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1
Product weight (kg)	18.2	20.3	20.2	18.6	20.7	20.6

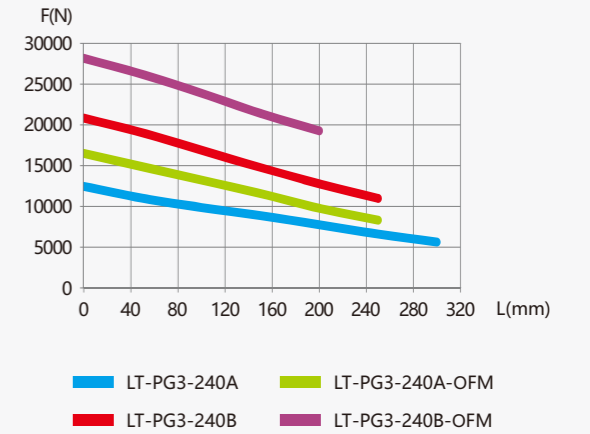
## Extended Function - High temperature type

Product Model	LT-PG3-240A-HT	LT-PG3-240A-CFM-HT	LT-PG3-240A-OFM-HT	LT-PG3-240B-HT	LT-PG3-240B-CFM-HT	LT-PG3-240B-OFM-HT
Item No.	F13090014	F13090015	F13090016	F13090017	F13090018	F13090019
Suitable temperature (°C)	5~130	5~130	5~130	5~130	5~130	5~130
Product weight (kg)	17	19.1	19	17.4	19.5	19.4

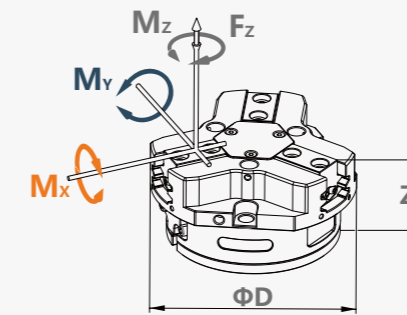
## Closing Force Diagram



## Opening Force Diagram

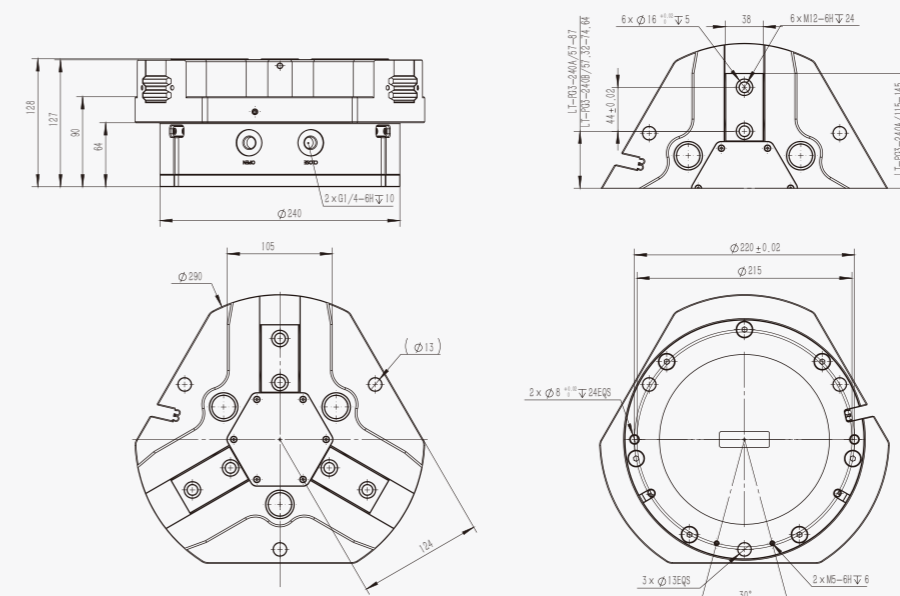


## Dimensions and Maximum Loads



- Mx max. 265N.m
- My max. 250N.m
- Mz max. 160N.m
- Fz max. 6200N

## Dimensions



# Model: LT-PG3-300series

- ▶ Stroke per jaw: 35mm/17mm
- ▶ Recommended grabbing weight:79kg-137kg
- ▶ Three-finger gripper with longer stroke and greater gripping force
- ▶ Sturdy toothed slide rail design to withstand greater torque
- ▶ Self-lubricating design to extend maintenance intervals, non-destructive fatigue testing for tens of millions of openings and closings



Model	LT-PG3-300A	LT-PG3-300A-CFM	LT-PG3-300A-OFM	LT-PG3-300B	LT-PG3-300B-CFM	LT-PG3-300B-OFM
Item No.	F13100001	F13100002	F13100003	F13100005	F13100006	F13100007
Stroke per jaw (mm)	35	35	35	20	20	20
Closing force(in the position of 50mm)	15950	25450	/	27410	43910	/
Opening force(in the position of 50mm)	16740	/	26240	28780	/	45280
The Min. holding force (N)	/	9500	9500	/	16500	16500
Recommended workpiece weight(kg)	79	79	79	137	137	137
Product weight (kg)	32	34	35	32	34	35
The Min. Air pressure (Mpa)	0.4	0.4	0.4	0.4	0.4	0.4
The Max. Air pressure (Mpa)	0.8	0.65	0.65	0.8	0.65	0.65
Rated air pressure (Mpa)	0.6	0.6	0.6	0.6	0.6	0.6
Suitable temperature (°C)	5~90	5~90	5~90	5~90	5~90	5~90
IP grade (IP)	IP40	IP40	IP40	IP40	IP40	IP40
Open/Close time (s)	1.3/1.3	2/1.2	1.2/2.5	1.3/1.3	2/1.2	1.2/2.5
Repeatability (mm)	0.05	0.05	0.05	0.05	0.05	0.05
Air consumption (cm <sup>3</sup> ) (Round trip)	2900	5100	5100	2900	5100	5100
The allowed longest fingers (mm)	250	225	225	225	200	200
The allowed heaviest single finger (kg)	11.5	11.5	11.5	11.5	11.5	11.5

The recommended workpiece weight is calculated under the conditions of friction coefficient 0.1 and safety factor 2 (the robot acceleration isn't included) for matched gripping. If mechanical locking gripping is used, the grippable workpiece weight will be larger. The product comes with 6 finger location pins, the location pins of grippers aren't included;

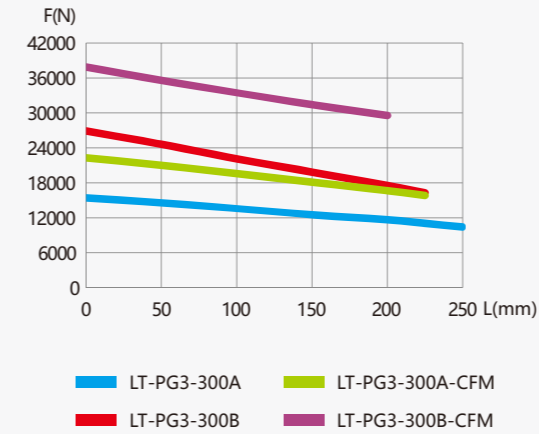
## Extended Function - Dustproof type

Product Model	LT-PG3-300A-DP	LT-PG3-300A-CFM-DP	LT-PG3-300A-OFM-DP	LT-PG3-300B-DP	LT-PG3-300B-CFM-DP	LT-PG3-300B-OFM-DP
Item No.	F13100004	F13100010	F13100011	F13100008	F13100012	F13100013
IP grade (IP)	IP64	IP64	IP64	IP64	IP64	IP64
Purge air pressure (Mpa)	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1
Product weight (kg)	33.6	35.6	36.6	33.6	35.6	36.6

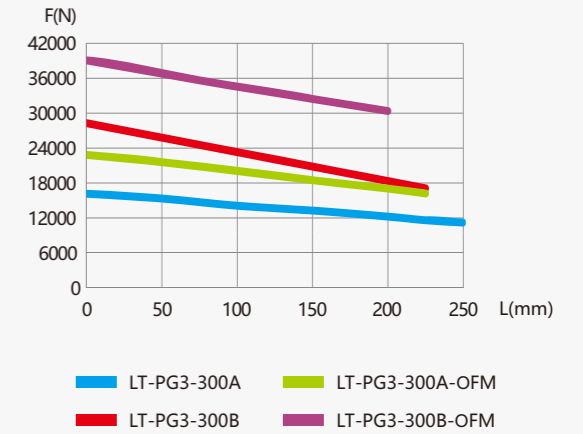
## Extended Function - High temperature type

Product Model	LT-PG3-300A-HT	LT-PG3-300A-CFM-HT	LT-PG3-300A-OFM-HT	LT-PG3-300B-HT	LT-PG3-300B-CFM-HT	LT-PG3-300B-OFM-HT
Item No.	F13100014	F13100015	F13100016	F13100017	F13100018	F13100019
Suitable temperature (°C)	5~130	5~130	5~130	5~130	5~130	5~130
Product weight (kg)	32	34	35	32	34	35

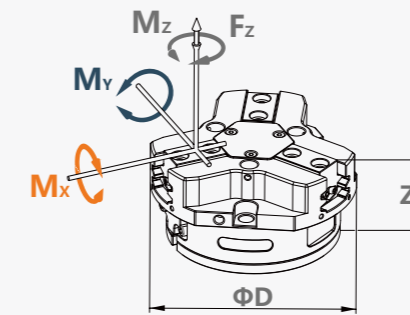
## Closing Force Diagram



## Opening Force Diagram

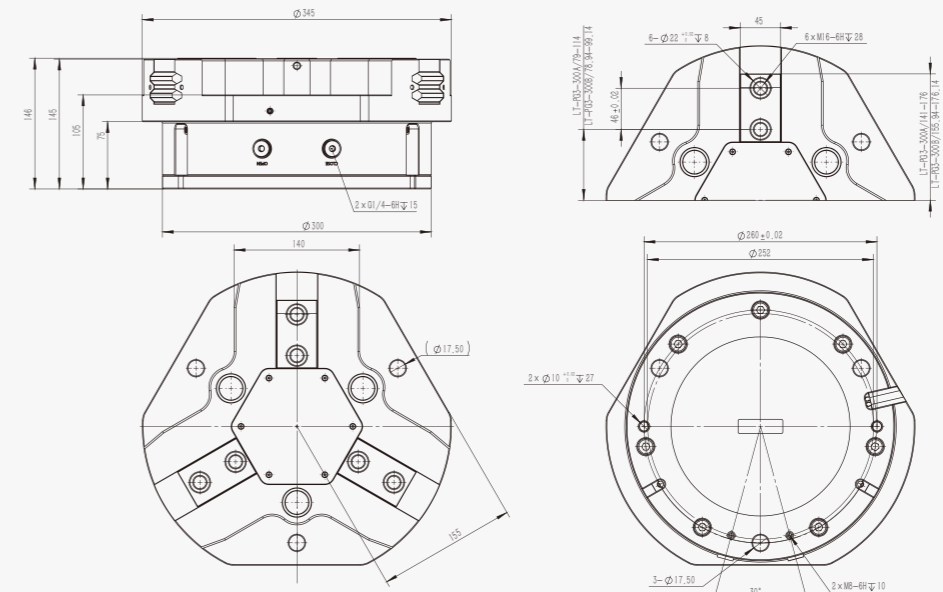


## Dimensions and Maximum Loads



- Mx max. 400N.m
- My max. 400N.m
- Mz max. 280N.m
- Fz max. 8000N

## Dimensions



# Model: LT-PG3-380series

- ▶ Stroke per jaw: 45mm/26mm
- ▶ Recommended grabbing weight:145kg-249kg
- ▶ Three-finger gripper with longer stroke and greater gripping force
- ▶ Sturdy toothed slide rail design to withstand greater torque
- ▶ Self-lubricating design to extend maintenance intervals, non-destructive fatigue testing for tens of millions of openings and closings



Model	LT-PG3-380A	LT-PG3-380A-CFM	LT-PG3-380A-OFM	LT-PG3-380B	LT-PG3-380B-CFM	LT-PG3-380B-OFM
Item No.	F13110001	F13110002	F13110003	F13110005	F13110006	F13110007
Stroke per jaw (mm)	45	45	45	26	26	26
Closing force(in the position of 50mm)	29040	38340	/	49900	65900	/
Opening force(in the position of 50mm)	30030	/	39330	51610	/	67610
The Min. holding force (N)	/	9300	9300	/	16000	16000
Recommended workpiece weight(kg)	145	145	145	249	249	249
Product weight (kg)	58	65	65	58.5	65.5	65.5
The Min. Air pressure (Mpa)	0.4	0.4	0.4	0.4	0.4	0.4
The Max. Air pressure (Mpa)	0.8	0.65	0.65	0.8	0.65	0.65
Rated air pressure (Mpa)	0.6	0.6	0.6	0.6	0.6	0.6
Suitable temperature (°C)	5~90	5~90	5~90	5~90	5~90	5~90
IP grade (IP)	IP40	IP40	IP40	IP40	IP40	IP40
Open/Close time (s)	2.2/2.2	4.6/2	2/4	2.2/2.2	4.6/2	2/4
Repeatability (mm)	0.05	0.05	0.05	0.05	0.05	0.05
Air consumption (cm <sup>3</sup> ) (Round trip)	7200	9500	9500	7200	9500	9500
The allowed longest fingers (mm)	250	225	225	225	200	200
The allowed heaviest single finger (kg)	13.5	13.5	13.5	13.5	13.5	13.5

The recommended workpiece weight is calculated under the conditions of friction coefficient 0.1 and safety factor 2 (the robot acceleration isn't included) for matched gripping. If mechanical locking gripping is used, the grippable workpiece weight will be larger. The product comes with 6 finger location pins, the location pins of grippers aren't included;

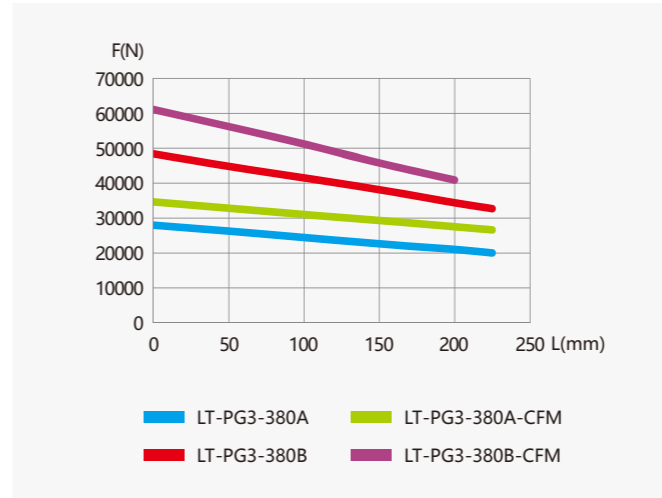
## Extended Function - Dustproof type

Product Model	LT-PG3-380A-DP	LT-PG3-380A-CFM-DP	LT-PG3-380A-OFM-DP	LT-PG3-380B-DP	LT-PG3-380B-CFM-DP	LT-PG3-380B-OFM-DP
Item No.	F13110004	F13110010	F13110011	F13110008	F13110012	F13110013
IP grade (IP)	IP64	IP64	IP64	IP64	IP64	IP64
Purge air pressure (Mpa)	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1	0.05~0.1
Product weight (kg)	61.7	68.7	68.7	62.2	69.2	69.2

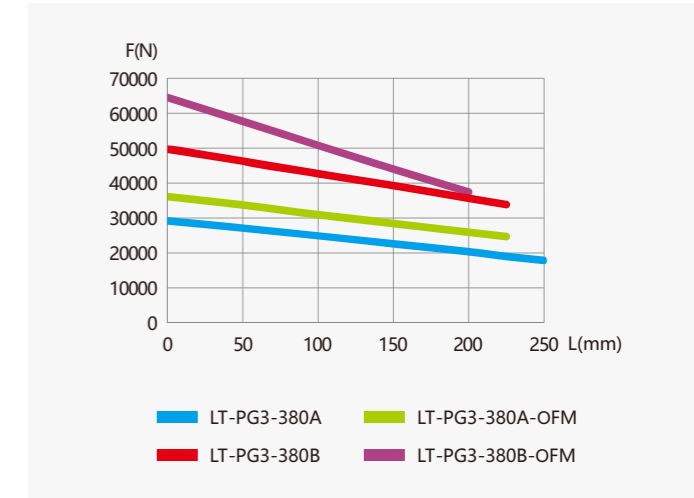
## Extended Function - High temperature type

Product Model	LT-PG3-380A-HT	LT-PG3-380A-CFM-HT	LT-PG3-380A-OFM-HT	LT-PG3-380B-HT	LT-PG3-380B-CFM-HT	LT-PG3-380B-OFM-HT
Item No.	F13110014	F13110015	F13110016	F13110017	F13110018	F13110019
Suitable temperature (°C)	5~130	5~130	5~130	5~130	5~130	5~130
Product weight (kg)	58	65	65	58.5	65.5	65.5

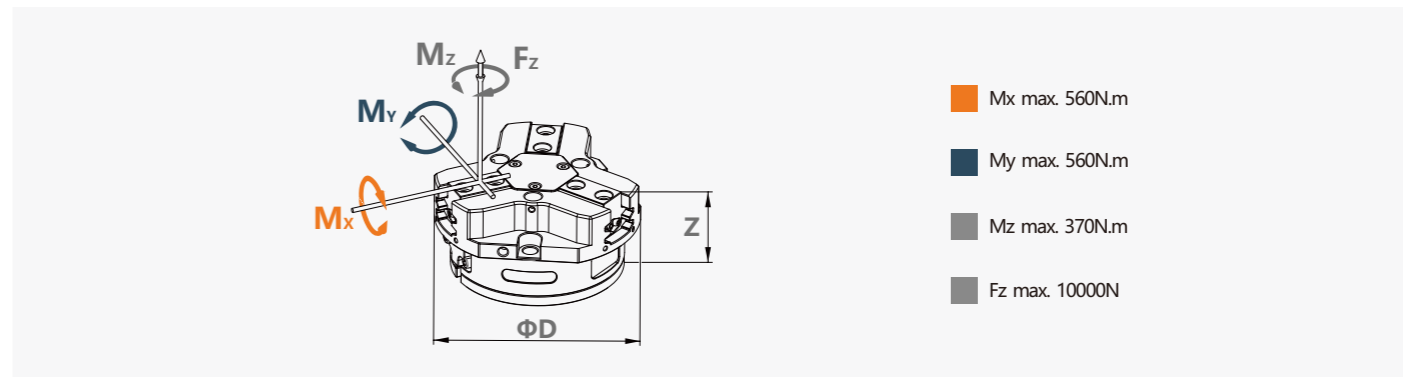
## Closing Force Diagram



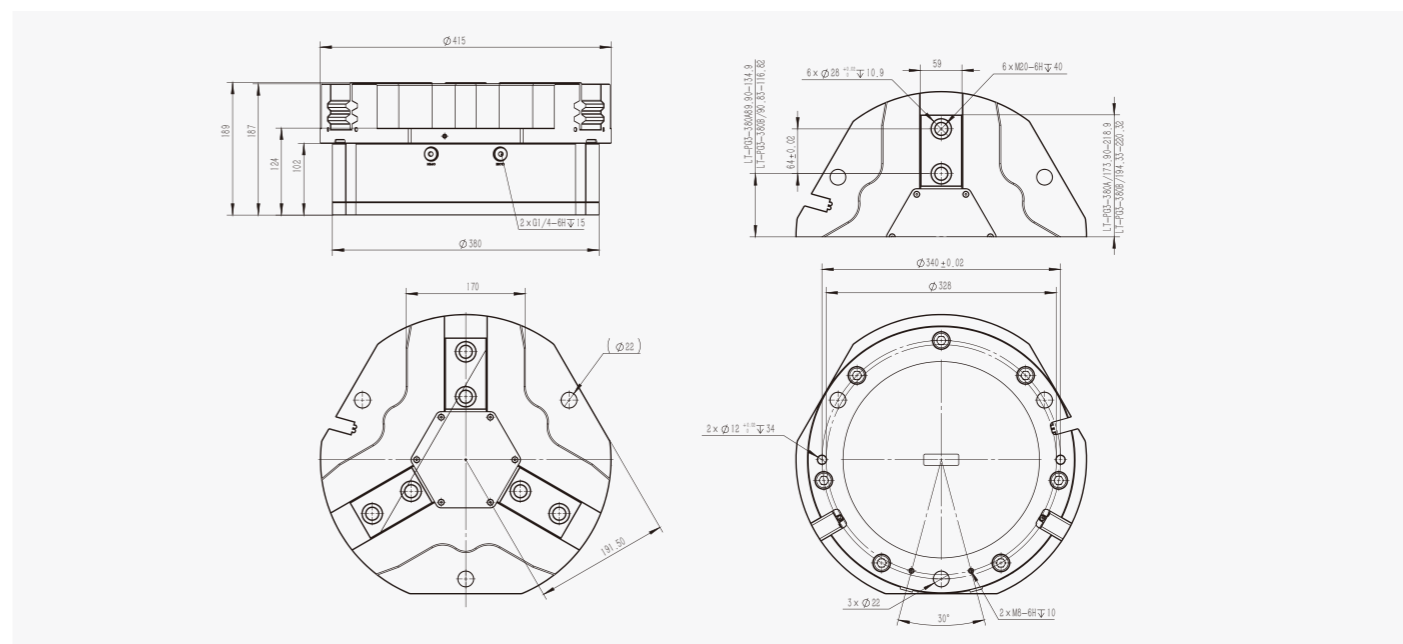
## Opening Force Diagram



## Dimensions and Maximum Loads



## Dimensions



# HOW TO MAKE A QUICK SELECTION

Please follow below steps to make a selection of suitable grippers quickly, and welcome contact with us if you want to know more details.



## Confirm the grippers type

Confirm the grippers type by workpiece shape and the grabbing method:  
Two-fingers parallel mechanism grippers or Three-finger centering mechanism grippers.

1



## Select grippers model

Select several model of grippers by workpiece weight (the needed clamping force to grab), choose the suitable friction coefficient and safety coefficient, etc.  
Product parameters [recommended workpiece weight] are calculated under the premise of friction coefficient 0.1 and safety factor 2, without considering the acceleration of gravity of the robot.  
The product parameters closing force and opening force are the arithmetical sum of the gripping forces of all fingers.

2



## Confirm clamping position

Determine the appropriate clamping position and clamping method of the workpiece (inner support, outer clamp, etc.) according to the three-dimensional size and center of mass position of the workpiece.

3



## Calculated finger length

Calculate the finger length required to clamp the workpiece based on the clamping position and working conditions of the workpiece

4



## Verify diagram parameters

According to the length of the finger, check the [Finger Length Allowable Range Chart] to see if it is allowed to be used, and verify whether the clamp output force meets the requirements based on the [Closing Force/Opening Force Chart]

5



## Confirm usage requirements

Determine whether the temperature range, protection level, maximum and minimum air pressure, repeatability, etc. meet the requirements...

6

# SELECTION CONSIDERATIONS

## Note1: Select grippers with suitable stroke and finger length

- ①Single workpiece clamping: When selecting the jaw stroke, friction locking does not need to be considered, but mechanical locking needs to be calculated.
- ②Multiple workpiece clamping: The stroke of the clamping jaws must be greater than half of the difference between the maximum and minimum dimensions of the workpiece in the same clamping position.  
Choose the right finger length: If the fingers are too long, too large, or too heavy, the inertia force or bending moment during the opening and closing movement of the jaws will have an impact on the jaws and the workpiece, which may cause the jaws to perform poorly, the workpiece to be damaged, or the workpiece to fail to hold.

## Note 2: Calculate the mass of the workpiece and the required clamping force

### ①Friction locking (for example)

Friction locking is the process of clamping the workpiece through the static friction force generated by the clamping force. The required clamping force is calculated according to the formula.

$$F_G = \frac{m \times (g+a)}{n \times \mu} \times S$$

$F_G$ : Clamping force per jaw (N)

$m$ : Workpiece weight (kg)

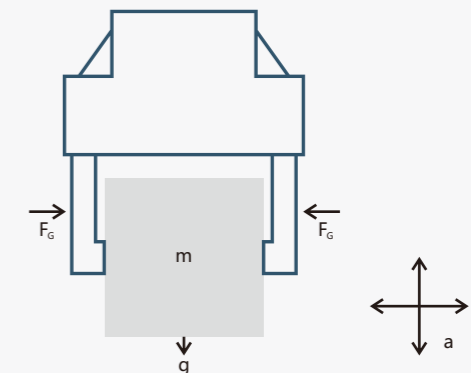
$g$ : Gravitational acceleration

$a$ : Acceleration during dynamic motion ( $m/s^2$ )

$n$ : The quantity of fingers

$\mu$ : Friction factor between gripper fingers and workpiece

$S$ : Safety factor



### ②Mechanical locking (for example)

$$F_G = m \times (g+a) \times S$$

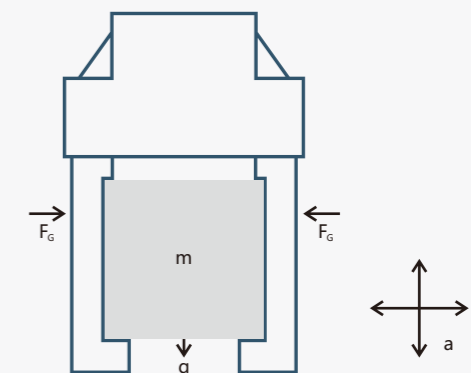
$F_G$ : Clamping force per jaw (N)

$m$ : Workpiece weight (kg)

$g$ : Gravitational acceleration

$a$ : Acceleration during dynamic motion ( $m/s^2$ )

$S$ : Safety factor



### Special Note:

1. The force holding type can be used as a single direction force enhanced grippers, but it cannot be used alone as force enhanced grippers.
2. If the force holding function is required when grasping the workpiece, in addition to relying on the force holding function of the gripper, a pressure holding valve and other equipment must also be configured.
3. For other unmentioned matters, please refer to the relevant product instruction manual.

## OPTIONAL COMPONENT

### Magnetic switch(Optional)

Optional Magnetic switch type	Temperature requirements	Other requirements	Model	Item.No	Parameter	Recommended Models
NPN type	5~70°C	/	LH-Z0500-3N	F06010019	Straight shape 22.8mm, Out-going wire : cable length 5m	80, 100, 125, 160 200, 240 300, 380
		/	LH-Z0050-M8-3N	C03030024	Straight shape 22.8mm, cable length 0.5m, M8-3 pin plug	
	5~130°C	/	LH-F0500-3N	C03030010	Elbow shape 10mm, direct-connection : cable length 5m	40, 50, 64
		/	LH-F0050-M8-3N	C03030025	Elbow shape 10mm, cable length 0.5m, M8-3 pin plug	
PNP type	5~70°C	/	LH-Z0500-3P	F06020021	Straight shape 22.8mm, Out-going wire : cable length 5m	80, 100, 125, 160 200, 240 300, 380
		/	LH-Z0050-M8-3P	C03030012	Straight shape 22.8mm, cable length 0.5m, M8-3 pin plug	
	5~130°C	/	LH-F0500-3P	C03030009	Elbow shape 10mm, direct-connection : cable length 5m	40, 50, 64
		/	LH-F0050-M8-3P	C03030026	Elbow shape 10mm, cable length 0.5m, M8-3 pin plug	
Two-wire type	5~70°C	Strong magnetic field resistant	LH-DP3DWAZ	C03030005	Straight shape 29mm, Out-going wire : cable length 5m	/
		/	LH-M9BZ	C03030021	Straight shape 22.8mm, Out-going wire : cable length 5m	/

### Proximity switch sensor components (Optional)

Optional Types	Model	Item.No	Parameter	Suitable Models
NPN type	LH-SBD200-D041.5N	C03040058	Sensor diameter $\phi 4$ , sensing distance 1.5mm, Induction part length 27mm, Cable length 200cm, outgoing line	64, 80, 100
	LH-SQ050-D041.5N-M8	C03030027	Sensor diameter $\phi 4$ , sensing distance 1.5mm, Induction part length 27mm, Cable length 50cm, M8-3 pin plug	
	LH-SBD200-D6.502N	C03040059	Sensor diameter $\phi 6.5$ , sensing distance 2mm, Induction part length 45mm, Cable length 200cm, outgoing line	125, 160, 200 240, 300, 380
	LH-SQ050-D6.502N-M8	C03030028	Sensor diameter $\phi 6.5$ , sensing distance 2mm, Induction part length 45mm, Cable length 50cm, M8-3 pin plug	
PNP type	LH-SBD200-D041.5P	C03040045	Sensor diameter $\phi 4$ , sensing distance 1.5mm, Induction part length 27mm, Cable length 200cm, outgoing line	64, 80, 100
	LH-SQ050-D041.5P-M8	C03040067	Sensor diameter $\phi 4$ , sensing distance 1.5mm, Induction part length 27mm, Cable length 50cm, M8-3 pin plug	
	LH-SBD200-D6.502P	C03040046	Sensor diameter $\phi 6.5$ , sensing distance 2mm, Induction part length 45mm, Cable length 200cm, outgoing line	125, 160, 200 240, 300, 380
	LH-SQ050-D6.502P-M8	C03040070	Sensor diameter $\phi 6.5$ , sensing distance 2mm, Induction part length 45mm, Cable length 50cm, M8-3 pin plug	

Note:

The number of sensors in the above table are all single, each set of gripper needs to be equipped with two sensors of the same model; for more sensor models, please contact our company.

## JAW QUICK CHANGE DEVICE



### Quick finger change design :

No tools required for instant finger change, improve operational flexibility and efficiency, and reduce downtime.



### Wide compatibility and efficient operation :

Compact and optimized structure design, suitable for a variety of general purpose grippers, improve the overall production efficiency and compatibility.



### High precision clamping positioning :

The precision clamping mechanism ensures that each operation can achieve a highly accurate positioning and ensure the stability of the operation.



### Super durable material construction :

Adaptation of ultra-high strength steel and high-strength aluminum alloy material significantly improves durability and service life, reduces maintenance costs, and adapts to high-strength working environment.



## Model: LT-JQC-50-P

Jaw quick-change device	LT-JQC-50B-P	Item No.: F23010024
Weight (kg) (excluding location pins)	0.025	
Max. allowable torque load (N.m)	14	
Maximum allowable force (Fx/N)	350	
Min./Max. suitable temperature (°C)	5/130	
Jaw location pin	LT-JQC-50A-P	Item No.: F23010023
Weight (kg) (2 per set)	0.005	
Material	42CrMo	
Min./Max. suitable temperature (°C)	5/130	

Note: The number of finger quick change devices depends on the type of gripper, and the number of finger location pins depends on the number of grippers' fingers.

## Model: LT-JQC-64-P

Jaw quick-change device	LT-JQC-64B-P	Item No.: F23010010
Weight (kg) (excluding location pins)	0.037	
Max. allowable torque load (N.m)	29	
Maximum allowable force (Fx/N)	510	
Min./Max. suitable temperature (°C)	5/130	
Jaw location pin	LT-JQC-64A-P	Item No.: F23010009
Weight (kg) (2 per set)	0.005	
Material	42CrMo	
Min./Max. suitable temperature (°C)	5/130	

Note: The number of finger quick change devices depends on the type of gripper, and the number of finger location pins depends on the number of grippers' fingers.

## Model: LT-JQC-80-P

Jaw quick-change device	LT-JQC-80B-P	Item No.: F23010012
Weight (kg) (excluding location pins)	0.06	
Max. allowable torque load (N.m)	63	
Maximum allowable force (Fx/N)	1080	
Min./Max. suitable temperature (°C)	5/130	
Jaw location pin	LT-JQC-80A-P	Item No.: F23010011
Weight (kg) (2 per set)	0.02	
Material	42CrMo	
Min./Max. suitable temperature (°C)	5/130	

Note: The number of finger quick change devices depends on the type of gripper, and the number of finger location pins depends on the number of grippers' fingers.

## Model: LT-JQC-100-P

Jaw quick-change device	LT-JQC-100B-P	Item No.: F23010014
Weight (kg) (excluding location pins)	0.12	
Max. allowable torque load (N.m)	105	
Maximum allowable force (Fx/N)	1960	
Min./Max. suitable temperature (°C)	5/130	
Jaw location pin	LT-JQC-100A-P	Item No.: F23010013
Weight (kg) (2 per set)	0.04	
Material	42CrMo	
Min./Max. suitable temperature (°C)	5/130	

Note: The number of finger quick change devices depends on the type of gripper, and the number of finger location pins depends on the number of grippers' fingers.

## Model: LT-JQC-125-P

Jaw quick-change device	LT-JQC-125B-P	Item No.: F23010016
Weight (kg) (excluding location pins)	0.2	
Max. allowable torque load (N.m)	225	
Maximum allowable force (Fx/N)	2815	
Min./Max. suitable temperature (°C)	5/130	
Jaw location pin	LT-JQC-125A-P	Item No.: F23010015
Weight (kg) (2 per set)	0.09	
Material	42CrMo	
Min./Max. suitable temperature (°C)	5/130	

Note: The number of finger quick change devices depends on the type of gripper, and the number of finger location pins depends on the number of grippers' fingers.

## Model: LT-JQC-160-P

Jaw quick-change device	LT-JQC-160B-P	Item No.: F23010006
Weight (kg) (excluding location pins)	0.38	
Max. allowable torque load (N.m)	310	
Maximum allowable force (Fx/N)	5360	
Min./Max. suitable temperature (°C)	5/130	
Jaw location pin	LT-JQC-160A-P	Item No.: F23010005
Weight (kg) (2 per set)	0.14	
Material	42CrMo	
Min./Max. suitable temperature (°C)	5/130	

Note: The number of finger quick change devices depends on the type of gripper, and the number of finger location pins depends on the number of grippers' fingers.

## Model: LT-JQC-200-P

Jaw quick-change device	LT-JQC-200B-P	Item No.: F23010018
Weight (kg) (excluding location pins)	0.77	
Max. allowable torque load (N.m)	510	
Maximum allowable force (Fx/N)	6110	
Min./Max. suitable temperature (°C)	5/130	
Jaw location pin	LT-JQC-200A-P	Item No.: F23010017
Weight (kg) (2 per set)	0.32	
Material	42CrMo	
Min./Max. suitable temperature (°C)	5/130	

Note: The number of finger quick change devices depends on the type of gripper, and the number of finger location pins depends on the number of grippers' fingers.

## Model: LT-JQC-240-P

Jaw quick-change device	LT-JQC-240B-P	Item No.: F23010022
Weight (kg) (excluding location pins)	1.35	
Max. allowable torque load (N.m)	880	
Maximum allowable force (Fx/N)	9330	
Min./Max. suitable temperature (°C)	5/130	
Jaw location pin	LT-JQC-240A-P	Item No.: F23010021
Weight (kg) (2 per set)	0.62	
Material	42CrMo	
Min./Max. suitable temperature (°C)	5/130	

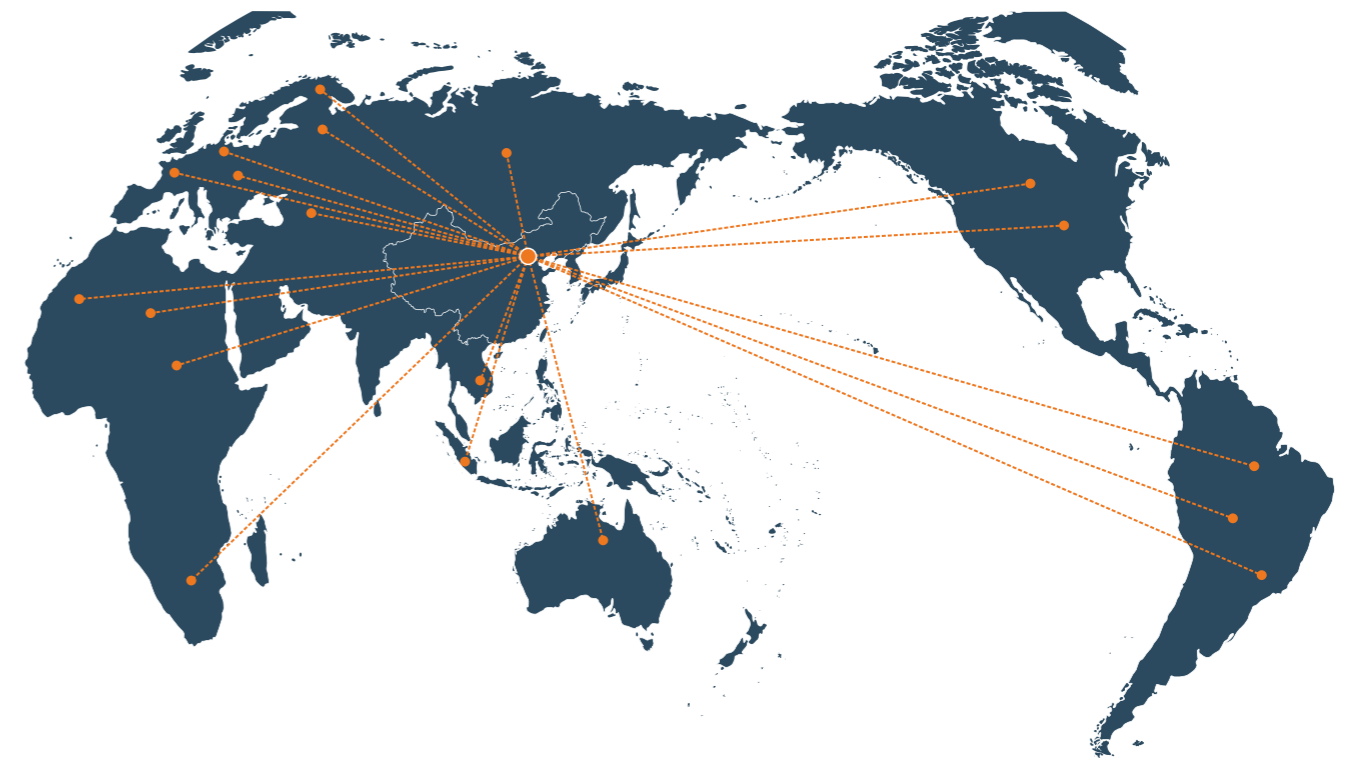
Note: The number of finger quick change devices depends on the type of gripper, and the number of finger location pins depends on the number of grippers' fingers.

## Model: LT-JQC-300-P

Jaw quick-change device	LT-JQC-300B-P	Item No.: F23010020
Weight (kg) (excluding location pins)	1.8	
Max. allowable torque load (N.m)	1220	
Maximum allowable force (Fx/N)	12420	
Min./Max. suitable temperature (°C)	5/130	
Jaw location pin	LT-JQC-300A-P	Item No.: F23010019
Weight (kg) (2 per set)	0.79	
Material	42CrMo	
Min./Max. suitable temperature (°C)	5/130	

Note: The number of finger quick change devices depends on the type of gripper, and the number of finger location pins depends on the number of grippers' fingers.

## LH-TC•SERVICE NETWORK



Address: No.11 Building, Zhengtuo Technology Innovation Park, Duqin Road, Mazhai industrial zone, Erqi District, Zhengzhou, China 450000

WhatsApp: +86 17335767268

E-Mail: info@ltautotools.com

Web: www.ltautotools.com

