

Unique, patented, modular design uses common components to reduce your purchase price and stocking requirements.

Features a robust hardened steel chassis and grip force up to 450 lb at 80 psi (200kg at 551kPa).

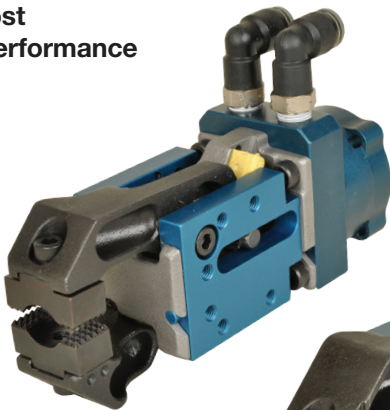
Quick and easy to configure and repair in less than five minutes by just removing one bolt on each side.

A 4mm hex wrench is all that's required for all configuration and repair.

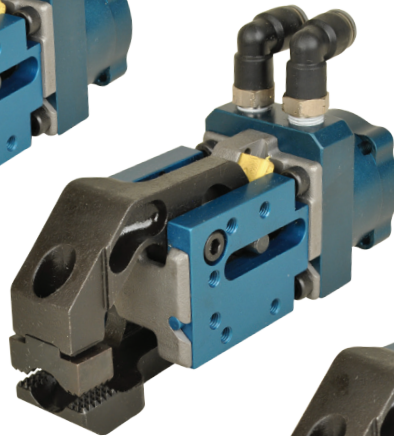
Full line of mounting brackets and adapters allows grippers to be used with all types of tooling.

Indirect and In-Pad sensors with PNP, NPN, or 2 Wire 24-140V ACDC outputs ensure compatibility with all control logic.

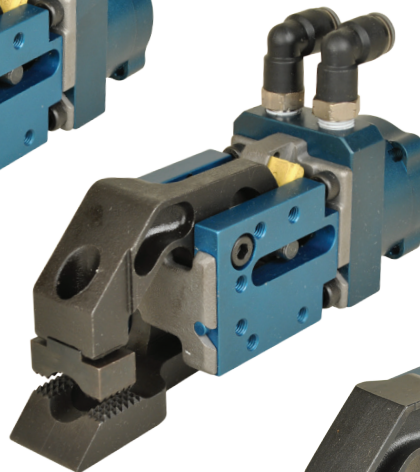
**Versatile
Low cost
High Performance**



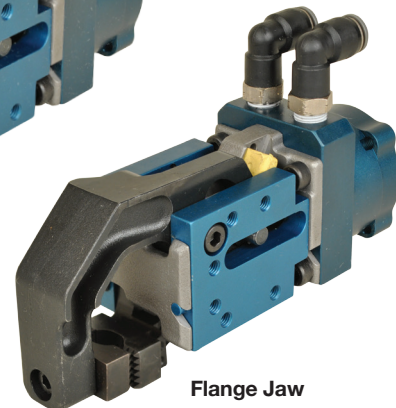
Regular Jaw



Chisel Jaw

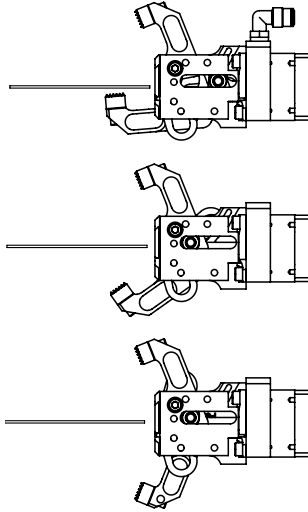


Shovel Jaw



Flange Jaw

Regular Jaw

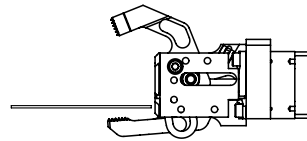
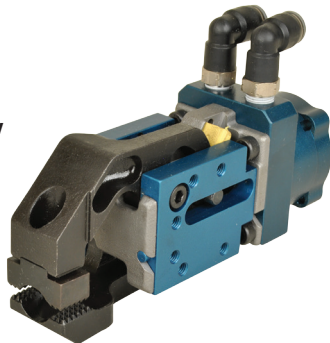


General purpose gripper for transfer finger or EOAT use. Wide angle Jaw opening accommodates blanks with inconsistent pick up location. Available jaw configurations:

22° x 0°	22° x 11°	22° x 22°
45° x 0°	45° x 22°	45° x 45°
70° x 0°	70° x 35°	70° x 70°

Indirect and In-pad part present sensors available. Indirect double blank sensor available. See data sheet 00732SP for detailed information.

Chisel Jaw



Low profile chisel/shovel jaw useful in dies with low clearance or low lift parts.

Available jaw configurations:

22° x 0°	22° x 14°
45° x 0°	45° x 14°
70° x 0°	70° x 14°

Indirect and In-pad part present sensors available. Indirect double blank sensor available.

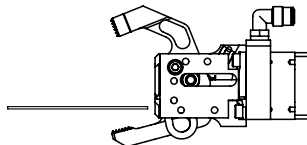
One jaw pad is mounted on a moving jaw (upper).

The lower jaw does not have a removable pad.

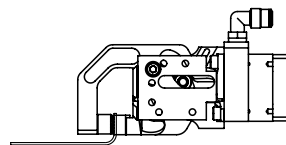
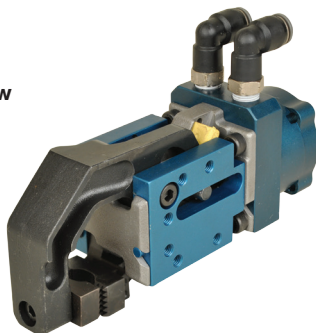
See data sheet 00768SP for Chisel Jaw detailed information.

See data sheet 13007SP for Shovel Jaw detailed information.

Shovel Jaw



Flange Jaw



Mounted vertically from gantry tooling.

Drop down on part and reach around edge to lift.

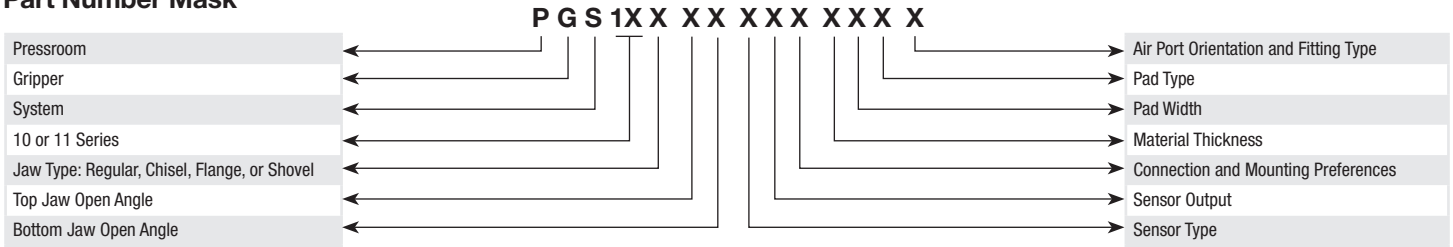
Flange jaw allows gripping directly on the formed flange edge.

Available jaw configurations:

22° x 0°
45° x 0°
70° x 0°

Indirect and In-pad part present sensors available. See data sheet 00770SP for detailed information.

Part Number Mask



Body	Hard Coat Aluminum
Jaw Pads	Hardened Steel
Working Pressure	60 psi min - 100psi max 413 kPa min - 689 kPa Min
Lubrication	Permanent for non-lube air
Grip Force	Up to 450 lb (200 kg)
Cycles	MCBF 5 Million
Actuation Times	0.050 close / <0.090 open
Weight	1.6 lbs (716 grams)
Air Ports	1/8" NPS or 1/8 Rc
Front Face	Hardened Steel

General Notes

In-Pad sensor cannot be used with:

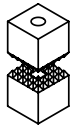
- 0.5" [12.7mm] wide pads
- Rubber pads
- 15° or 45° angle pads

Indirect sensors cannot be used with:

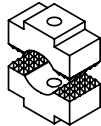
- Rubber Pads
- Double Point Pads

Jaw Pads

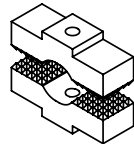
Flat pads for general purpose gripping.



XS0



XM0

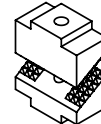


XD0

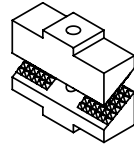
Angle pads for more challenging panels.



XSX

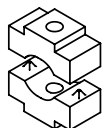


MXM

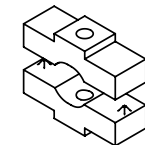


XDX

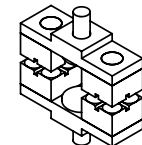
Special Purpose Pads



XMD



XDD



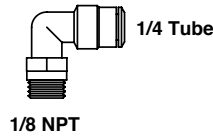
RDR

Double Point Pads won't load up on galvanized panels

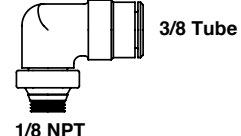
Rubber Pads won't leave scratches on panels.

Air Fittings

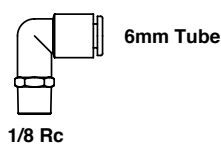
Air fittings can be ordered preassembled to the gripper.



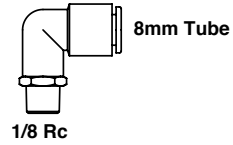
1/8 NPT



1/8 NPT



1/8 Rc



1/8 Rc

See technical data sheets for more options.

Accessories

Telescope Mount works with Versa-Link System

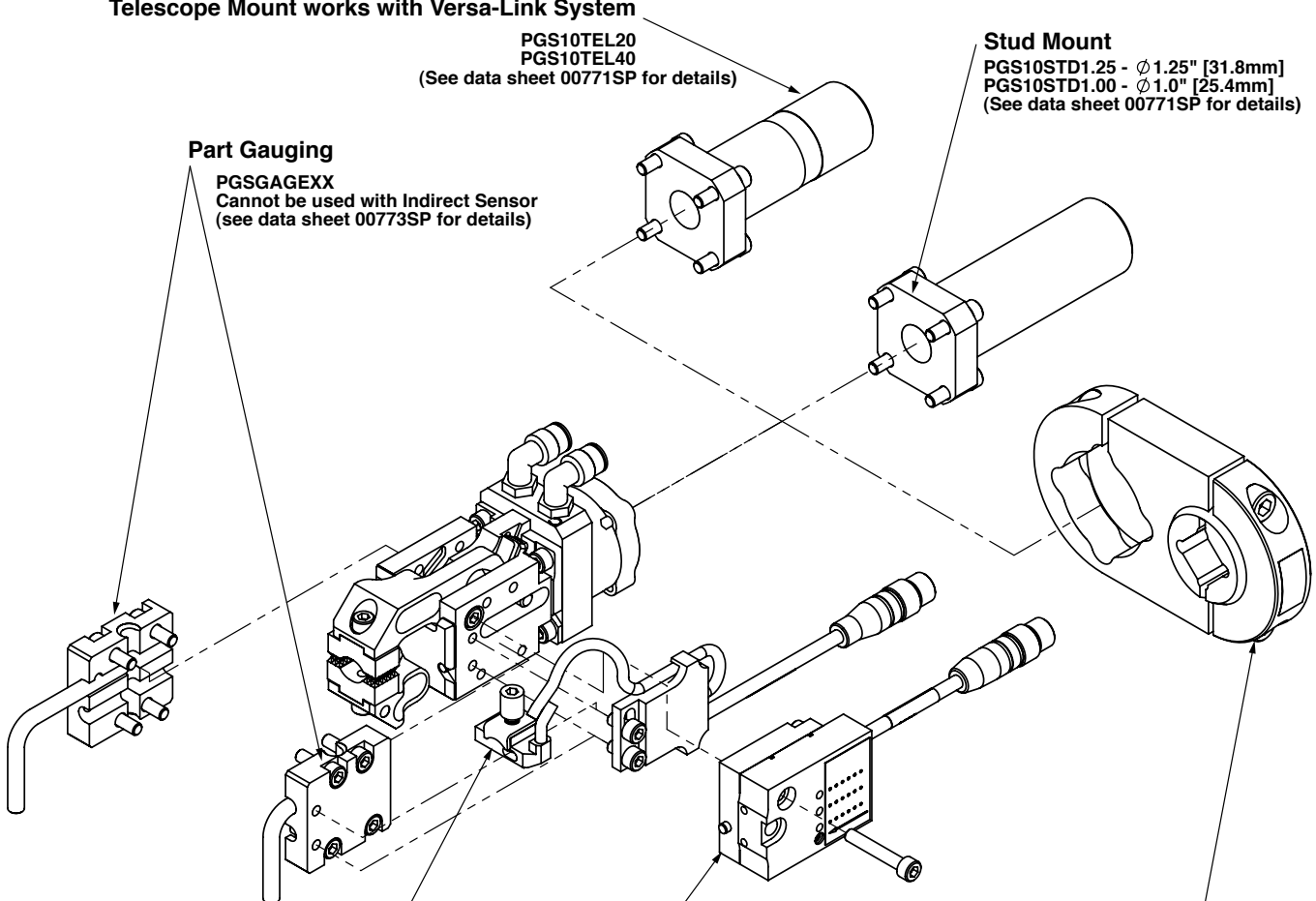
PGS10TEL20
PGS10TEL40
 (See data sheet 00771SP for details)

Stud Mount

PGS10STD1.25 - ϕ 1.25" [31.8mm]
PGS10STD1.00 - ϕ 1.0" [25.4mm]
 (See data sheet 00771SP for details)

Part Gauging

PGSGAGEXX
 Cannot be used with Indirect Sensor
 (see data sheet 00773SP for details)



In-Pad Sensor

See the following data sheets for details

Pad Type	Output	Connector	Sales Page
Regular (0°)	NPN	Micro	00431SP
Regular (0°)	PNP	Micro	00557SP
Regular (0°)	NPN & PNP	Pico (Internal Wire)	00584SP
30°	NPN & PNP	Micro	00674SP
30°	NPN & PNP	Pico (Internal Wire)	00690SP
Regular (0°)	2 Wire	Micro	00436SP
Regular (0°)	2 Wire	Pico (Internal Wire)	00751SP
30°	2 Wire	Micro	00718SP
Double Point	2 Wire	Micro	00673SP

Branch Clamp

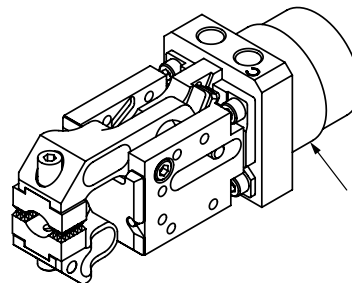
PGS10CLP3B19SQ - Mates with 19mm square tube
PGS10CLP3B25SQ - Mates with 25mm square tube
PGS10CLP3B1.00R - Mates with ϕ 1.00" [25.4mm] tube
PGS10CLP3B1.25R - Mates with ϕ 1.25" [31.8mm] tube
 (See data sheet 00772SP for details)

Indirect Sensor

Replaces side plate of gripper
 Can not be used with part Gauging

See the following data sheets for details

Sensor Type	Connector	Sales Page
Part Present and Double Blank	Micro	00793SP
Part Present and Double Blank	Pico (Internal Wire)	12318SP



PGS11

Offers that same features as PGS10, but with a retro cylinder that will mate to LTG1010 Branch Clamps, Studs, and Telescopes as well as a popular competitive Branch Clamp!
 (See data sheet 00798SP for details)

For data sheet PGS10/11 repair kit information see 00775SP



Warning

Improper selection, misuse, age or malfunction of components used in systems can cause failure in various modes. The system designer is warned to consider the failure modes of all component parts and to provide adequate safeguards to prevent personal injury or damage to equipment or property in the event of such failure modes. System designers and end users are cautioned to consult instruction data sheets and specifications available from the factory. The system designer/end user is responsible for verifying that all requirements for the application are met.

Proposition 65: These products may contain chemicals known to the state of California to cause cancer, or birth defects, or other reproductive harm.

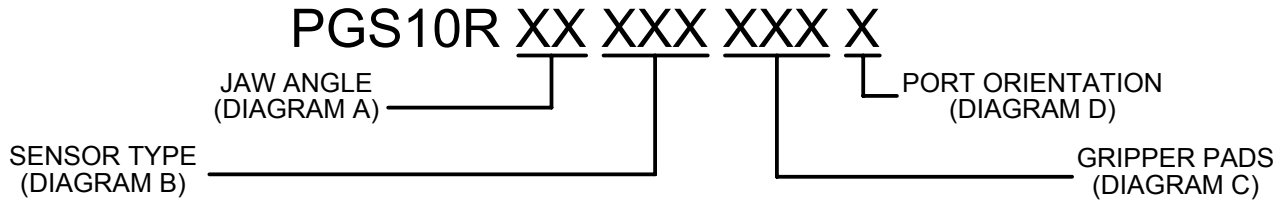
Warranty

The products described herein are warranted subject to seller's Standard Terms and Condition of Sale, available at seller's website.

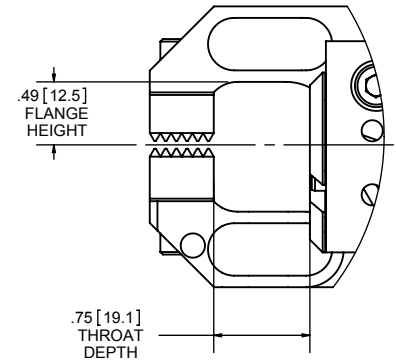
PGS10 Series Regular Jaw Grippers

DIMENSIONAL DATA

For LTG1010 backward compatibility see PGS11 on page 7.
 All PGS11 configuration data is the same as PGS10.



Throat Depth	.75 [19.1mm]
Flange Height	0.50 [12.8mm]
Front Face	Hardened Steel
Jaw Pads	Hardened Steel
Body	Hardcoat Aluminum
Lubrication	Permanent for non-lube air
Working Pressure	60psi min. - 100psi max. 413kPa min. - 689kPa max
Grip Force	*Up to 450 lb @ 80psi Up to 200 kg @ 551kPa
Cycles	MCBF 5 million
Actuation time	.050 sec close / <.090 sec open
Weight	**1.58lbs. (716 grams)
Air Ports	1/8" NPS or 1/8 Rc



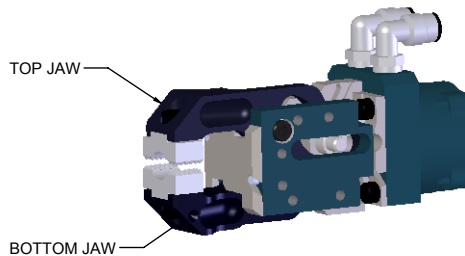
* Double sided force measurement
 ** Weight is with air fittings and 1.0" wide pads

DIAGRAM A

JAW ANGLE OPTIONS

PGS10R XX XXX XXX X

JAW TYPE	TOP JAW ANGLE	BOTTOM JAW ANGLE	CODE
REGULAR	22	0	20
	22	11	21
	22	22	22
	45	0	40
	45	22	42
	45	45	44
	70	0	70
	70	35	73
	70	70	77



All technical data subject to change without notice

PGS10 Series Regular Jaw Grippers

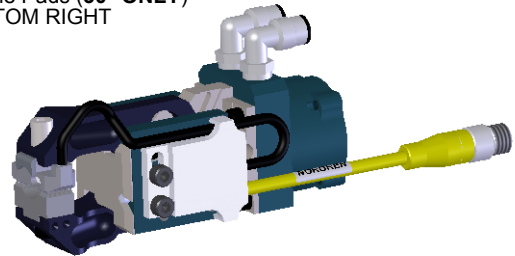
DIMENSIONAL DATA

NOTES:

1. In-Pad sensors are only available with 1.0" wide regular and angled pads.
2. In-Pad sensors are available for .5-3.5mm and 2.01-5.0mm thickness.
3. In-pad sensing can only be succeeded in the following combinations for Angle Pads (30° ONLY)
Code #3, TOP LEFT or BOTTOM LEFT; code #4, TOP RIGHT or BOTTOM RIGHT
4. No sensor code NUL.

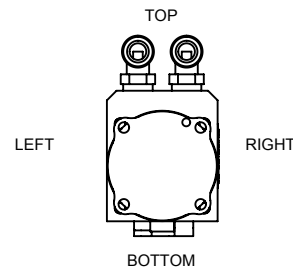
PGS10R XX X X X XXX X

TYPE	CODE	OUTPUT	CODE	PAD	CONNECTOR	PAD MOUNT	HOUSING	CODE	
In-Pad	I	NPN	N	Reg (0°)	Micro	Top	Right	A	
						Left	B		
						Bottom	Right	C	
					Left	D			
					Pico (Internal Wire)	Top	Right	E	
						Left	F		
				Bottom		Right	G		
				Left	H				
				30°	Micro	Top	Right	J	
						Left	K		
						Bottom	Right	L	
					Left	M			
					Pico (Internal Wire)	Top	Right	N	
						Left	P		
				Bottom		Right	Q		
				Left	R				
				Double Point	Micro	Top	Right	S	
						Left	T		
						Bottom	Right	U	
					Left	V			
					Pico (Internal Wire)	Top	Right	W	
						Left	Y		
				Bottom		Right	Z		
				Left	2				
Smooth (0°)	Micro	Top	Right	1					
		Left	3						
		Bottom	Right	4					
	Left	4							
	Smooth (30°)	Micro	Top	Right	5				
			Left	6					
Bottom			Right	7					
Left		8							
In-Pad		I	PNP	P	Reg (0°)	Micro	Top	Right	A
							Left	B	
	Bottom						Right	C	
	Left					D			
	Pico (Internal Wire)					Top	Right	E	
						Left	F		
					Bottom	Right	G		
	Left				H				
	30°				Micro	Top	Right	J	
						Left	K		
						Bottom	Right	L	
					Left	M			
					Pico (Internal Wire)	Top	Right	N	
						Left	P		
	Bottom					Right	Q		
	Left				R				
	Double Point				Micro	Top	Right	S	
						Left	T		
						Bottom	Right	U	
					Left	V			
					Pico (Internal Wire)	Top	Right	W	
						Left	Y		
	Bottom					Right	Z		
	Left				2				
Smooth (0°)	Micro	Top	Right	1					
		Left	3						
		Bottom	Right	4					
	Left	4							
	Smooth (30°)	Micro	Top	Right	5				
			Left	6					
Bottom			Right	7					
Left		8							
In-Pad		I	2 wire	2	Reg (0°)	Micro	Top	Right	A
							Left	B	
	Bottom						Right	C	
	Left					D			
	Pico (Internal Wire)					Top	Right	E	
						Left	F		
					Bottom	Right	G		
	Left				H				
	30°				Micro	Top	Right	J	
						Left	K		
						Bottom	Right	L	
					Left	M			
					Pico (Internal Wire)	Top	Right	N	
						Left	P		
	Bottom					Right	Q		
	Left				R				
	Double Point				Micro	Top	Right	S	
						Left	T		
						Bottom	Right	U	
					Left	V			
					Pico (Internal Wire)	Top	Right	W	
						Left	Y		
	Bottom					Right	Z		
	Left				2				
Smooth (0°)	Micro	Top	Right	1					
		Left	3						
		Bottom	Right	4					
	Left	4							
	Smooth (30°)	Micro	Top	Right	5				
			Left	6					
Bottom			Right	7					
Left		8							
In-Pad		I	2 WIRE	T	Reg (0°)	Micro (4 Pin 1 Key)	Top	Right	A
							Left	B	
	Bottom						Right	C	
	Left						D		

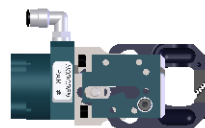


For detailed sensor information please see Sales Pages:

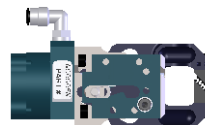
Pad Type	Output	Connector	Sales Page
Regular (0°)	NPN	Micro	00431SP
Regular (0°)	PNP	Micro	00557SP
Regular (0°)	NPN & PNP	Pico (Internal Wire)	00584SP
30°	NPN & PNP	Micro	00674SP
30°	NPN & PNP	Pico (Internal Wire)	00690SP
Regular (0°)	2 Wire	3 Pin 2 Key Micro	00436SP
Regular (0°)	2 Wire	Pico (Internal Wire)	00751SP
30°	2 Wire	3 Pin 2 Key Micro	00718SP
Double Point	2 Wire	3 Pin 2 Key Micro	00673SP
Regular (0°)	2 Wire	4 Pin 1 Key Micro	13484SP



ANGLE PAD ORIENTATION



CODES K,M,P,R FOR THE 30° IN-PAD ARE ONLY COMPATIBLE WITH 30° PAD TYPE CODE 3



CODES J,L,N,Q FOR THE 30° IN-PAD ARE ONLY COMPATIBLE WITH 30° PAD TYPE CODE 4

Sensor Code, In-Pad Sensor, 30° Pads Only	Pad Type Code Angle Pads Only
K	1
M	3
P	5
R	7
6	7
8	7
5	2
7	4
J	6
L	8
N	4
Q	

PGS10R XX XXX XXX X

See page 4 for detailed pad information

All technical data subject to change without notice

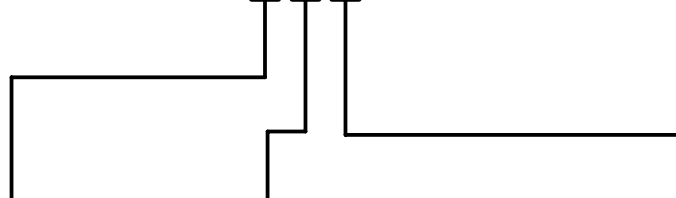
PGS10 Series Regular Jaw Grippers

DIMENSIONAL DATA

DIAGRAM B SENSOR TYPE CON'T

- NOTES:**
1. Gaging accessories can not be used on the same side as an Indirect Sensor.
 2. Double point and rubber pads can not be used with an Indirect Sensor.
 3. No sensor code: **NUL**

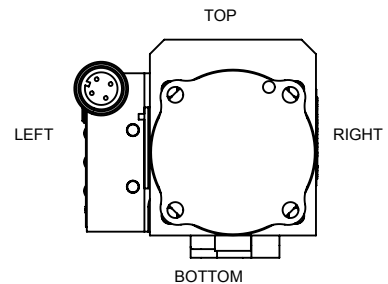
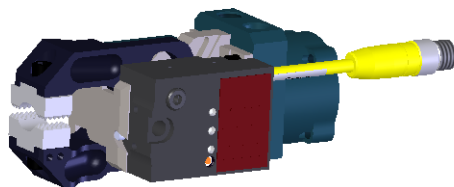
PGS10R XX **X X X** XXX X



INDIRECT SENSOR CANNOT BE ON THE SAME SIDE AS AIR PORTS						
TYPE	CODE	OUTPUT	CODE	CONNECTOR	MOUNT SIDE	CODE
INDIRECT DOUBLE BLANK	D	NPN	N	MICRO	RIGHT	R
					LEFT	L
				PICO 4 PIN (Internal wire)	RIGHT	E
		LEFT	W			
		PNP	P	MICRO	RIGHT	R
					LEFT	L
PICO 4 PIN (Internal wire)	RIGHT			E		
	LEFT			W		
INDIRECT PART PRESENT	H	NPN	N	MICRO	RIGHT	R
					LEFT	L
				PICO 3 PIN (Internal wire)	RIGHT	E
		LEFT	W			
		PNP	P	MICRO	RIGHT	R
					LEFT	L
PICO 3 PIN (Internal wire)	RIGHT			E		
	LEFT			W		
NO SENSOR CODE - NUL						

For detailed sensor information please see Sales Pages:

Sensor Type	Connector	Sales Page
Part Present and Double Blank	Micro	00793SP
Part Present and Double Blank	Pico (Internal Wire)	12318SP



All technical data subject to change without notice

PGS10 Series Regular Jaw Grippers

DIMENSIONAL DATA

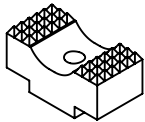
DIAGRAM C : GRIPPER PADS

- NOTES:**
1. Double point pads only available in 1.0" & 1.5" widths.
 2. Double point and rubber pads can not be used with an Indirect Sensor.
 3. Rubber pads thickness range 0.5-2.5mm.
 4. No pad code - NUL

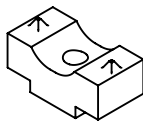
PGS10R XX XXX X X X X

Material Thickness & Pad Color		Code	Pad Width	Code	Pad Type	Code
Material Thickness	Pad Color					
.50 - 2.0mm	2 Black	1	0.5" / 12.7mm	S	Regular (0°) 15° Angle 30° Angle 45° Angle	0 1 or 2 3 or 4 5 or 6
2.01 - 3.5mm	2 Silver	3	1.0" / 25.4mm	M		
3.51 - 5.0mm	1 Silver & 1 Gold	4	1.50" / 38.1mm	D		
.50 - 2.0mm	2 Black	1	1.0" / 25.4mm	M	Double Point	D
2.01 - 3.5mm	2 Silver	3				
3.51 - 5.0mm	1 Silver & 1 Gold	4				
.50 - 2.0mm	2 Black	1	1.50" / 38.1mm	D	Rubber	R
2.01 - 3.5mm	2 Silver	3				
3.51 - 5.0mm	1 Silver & 1 Gold	4				
.50 - 2.5mm	2 Rubber	R	1.5" / 3.8mm	D		
.50 - 2.0mm	2 Black	1	.50 / 12.7mm	S	Smooth	S
2.01 - 3.5mm	2 Silver	3				
3.51 - 5.0mm	1 Silver & 1 Gold	4				
.50 - 2.0mm	2 Black	1	1.0" / 25.4mm	M	Convex	C
2.01 - 3.5mm	2 Silver	3				
3.51 - 5.0mm	1 Silver & 1 Gold	4				
.50 - 2.0mm	2 Black	1	.50 / 12.7mm	S	Convex	C
2.01 - 3.5mm	2 Silver	3				
3.51 - 5.0mm	1 Silver & 1 Gold	4				
.50 - 2.0mm	2 Black	1	1.0" / 25.4mm	M	Convex	C
2.01 - 3.5mm	2 Silver	3				
3.51 - 5.0mm	1 Silver & 1 Gold	4				

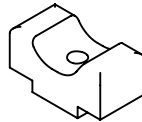
REGULAR PADS



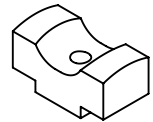
DOUBLE POINT PADS



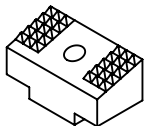
SMOOTH PADS



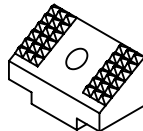
CONVEX PADS



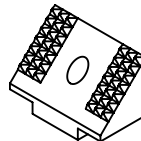
ANGLED PADS



15°

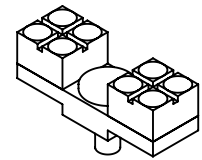


30°

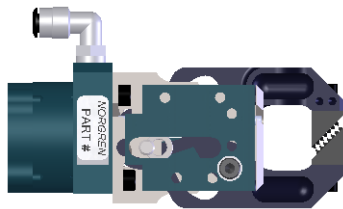


45°

RUBBER PADS

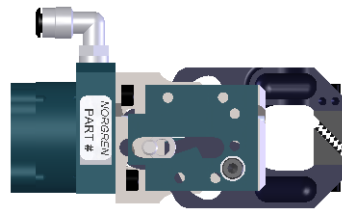


ANGLE PAD ORIENTATION



CODE 3 IS COMPATIBLE WITH 30° IN-PAD SENSOR CODES K,M,P,R
See page 2 for detailed IN- PAD sensor information

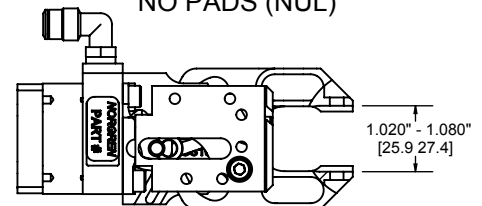
1
3
5
7
7
7



CODE 4 IS COMPATIBLE WITH 30° IN-PAD SENSOR CODES J,L,N,Q
See page 2 for detailed IN- PAD sensor information

2
4
6
8
4

NO PADS (NUL)



GRIP RANGE WITH NO PADS

1.020" - 1.080"
[25.9 27.4]

All technical data subject to change without notice

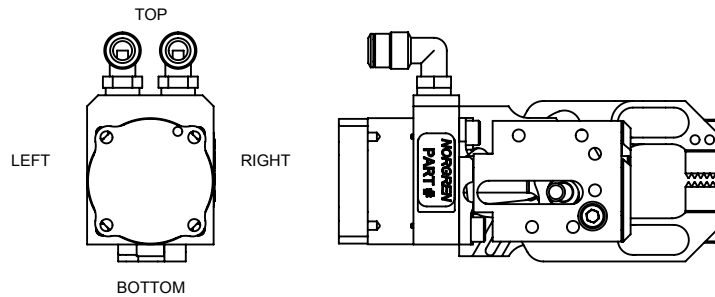
PGS10 Series Regular Jaw Grippers

DIMENSIONAL DATA

DIAGRAM D

PGS10R XX XXX XXX X

AIR PORT ORIENTATION	TUBE SIZE	CODE
TOP	1/4" TUBE	A
	3/8" TUBE	B
	6mm TUBE	C
	8mm TUBE	D
	NO FITTINGS 1/8" NPS THREADS	E
	NO FITTINGS 1/8 Rc	F
RIGHT	1/4" TUBE	G
	3/8" TUBE	H
	6mm TUBE	J
	8mm TUBE	K
	NO FITTINGS 1/8" NPS THREADS	L
	NO FITTINGS 1/8 Rc	M
BOTTOM	1/4" TUBE	N
	3/8" TUBE	P
	6mm TUBE	Q
	8mm TUBE	R
	NO FITTINGS 1/8" NPS THREADS	S
	NO FITTINGS 1/8 Rc	T
LEFT	1/4" TUBE	U
	3/8" TUBE	V
	6mm TUBE	W
	8mm TUBE	Y
	NO FITTINGS 1/8" NPS THREADS	Z
	NO FITTINGS 1/8 Rc	2



All technical data subject to change without notice

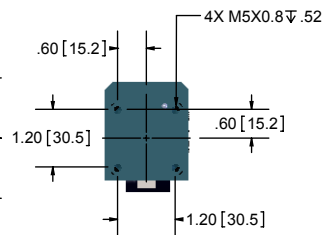
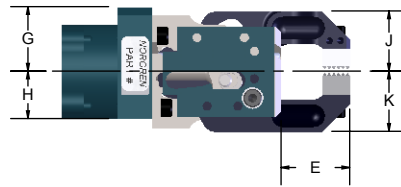
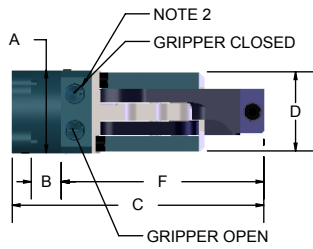
PGS10 Series Regular Jaw Grippers

DIMENSIONAL DATA

TOP VIEW

SIDE VIEW

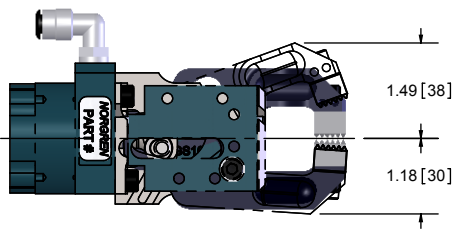
BACK VIEW



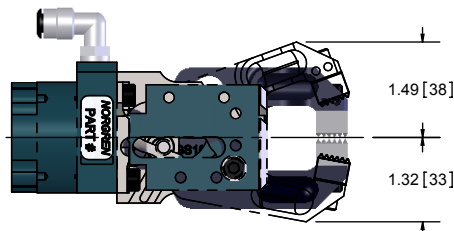
DIM	MM	INCHES
A	43.8	1.73
B	15.9	0.63
C	133.1	5.24
D	41.9	1.65
E	31.8	1.25
F	107.2	4.22
G	29.8	1.18
H	21.9	.86
J	28.1	1.11
K	28.1	1.11

NOTE 1
SEE PAGES 4 FOR VARIOUS GRIPPER PADS
NOTE 2
1/8" NPS or 1/8 Rc

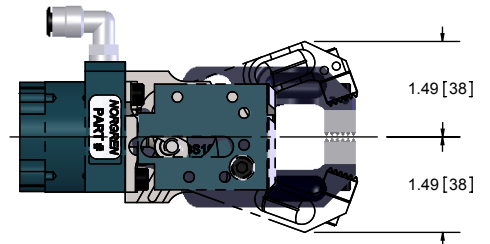
22° X 0°



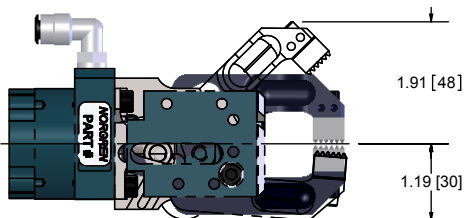
22° X 11°



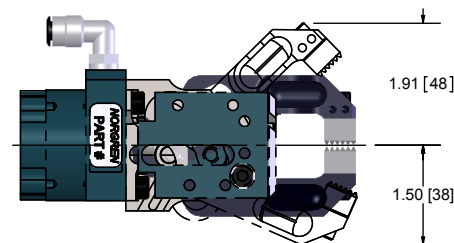
22° X 22°



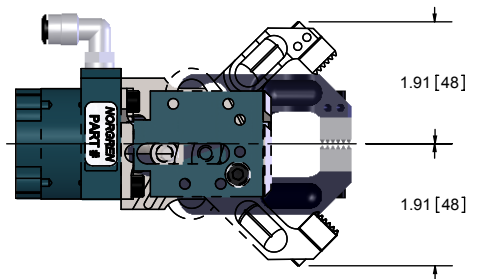
45° X 0°



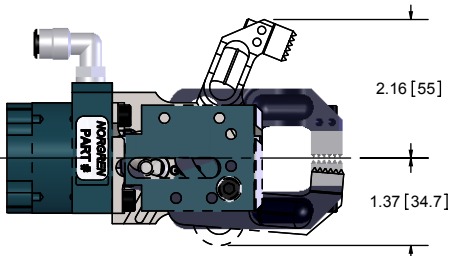
45° X 22°



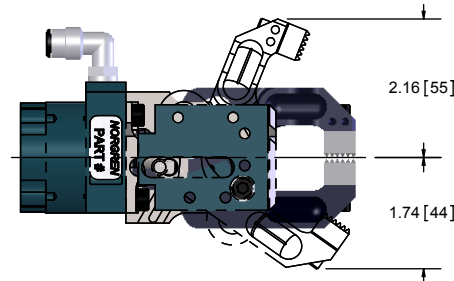
45° X 45°



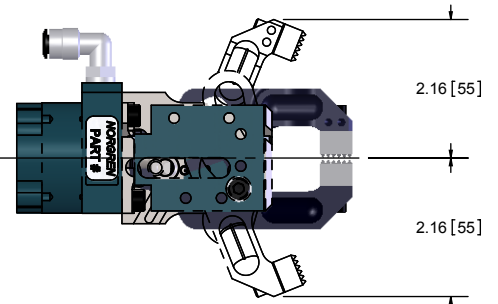
70° X 0°



70° X 35°



70° X 70°



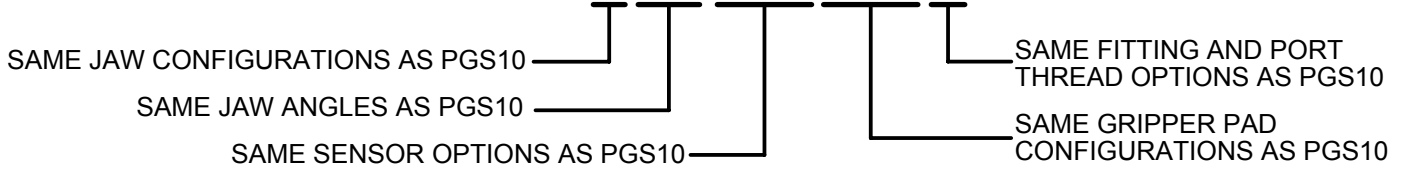
All technical data subject to change without notice

PGS10 Series Regular Jaw Grippers

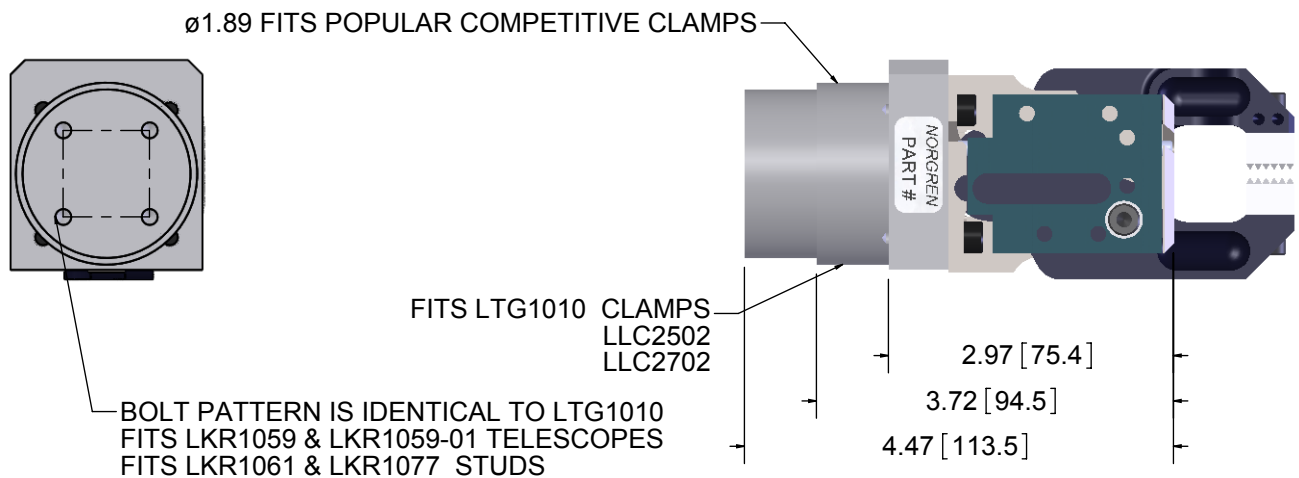
DIMENSIONAL DATA

PGS11 is backward compatible with LTG1010.

PGS11 X XX XXX XXX X

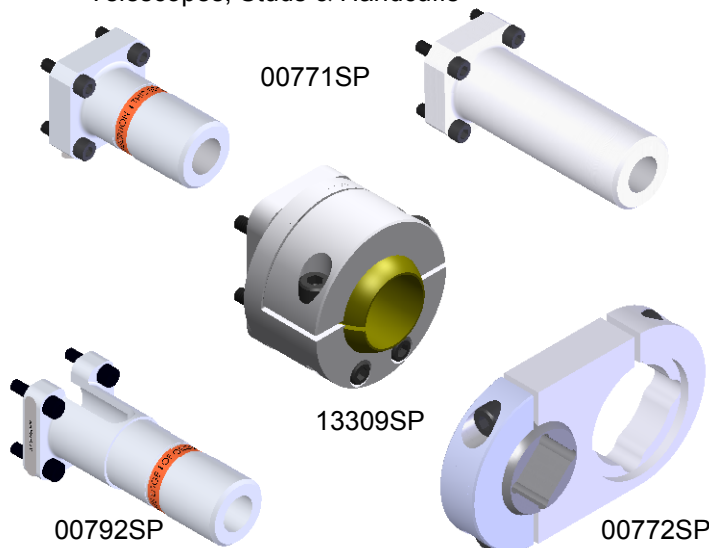


PGS11

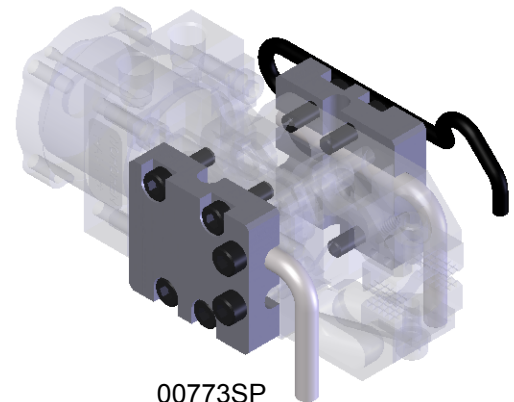


**Regular Jaw shown - Dimensions are typical of all jaw configurations.
For detailed dimensional data see page 6.**

FOR PGS10 MOUNTING
Telescopes, Studs & Handcuffs



GAGING



All technical data subject to change without notice