

## Pinza pneumatica a 2 griffe ad azione parallela autocentrante (serie PE)

- Azionamento a doppio effetto (a semplice effetto su richiesta per PE-25... e PE-45...).
- Assenza di organi di trasmissione: elevato rendimento e affidabilità.
- Possibilità di scelta su un'ampia gamma di corse.
- Forza di serraggio costante su tutta la corsa in apertura ed in chiusura.
- Basso peso ottenuto con una costruzione interamente in lega leggera.
- Grasso alimentare FDA-H1.

## 2-jaw parallel self-centering pneumatic gripper (series PE)

- Double acting (single acting upon request for PE-25... and PE-45...).
- High efficiency and reliability due to the lack of driving parts.
- Wide choice of stroke length options.
- The gripping force is constant on both directions along total stroke.
- Light weight; due to its alloy construction.
- FDA-H1 food-grade grease.



PE-4580



PE-4560



PE-4540



PE-4520



PE-45200

PE-25100



PE-25200



PE-2560



PE-2540



PE-2520



PE-16200



PE-16150



PE-1680



PE-1640



PE-1625



PE-1610

|                                                                              | PE-1610                                                                                                     | PE-1625            | PE-1640            | PE-1680            | PE-16150           | PE-16200           |
|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Fluido<br>Medium                                                             | Aria compressa a norma ISO 8573-1:2010 [7:4:4]<br>Compressed air in compliance with ISO 8573-1:2010 [7:4:4] |                    |                    |                    |                    |                    |
| Pressione di esercizio<br>Operating pressure range                           | 2÷8 bar                                                                                                     |                    |                    |                    |                    |                    |
| Temperatura di esercizio<br>Operating temperature range                      | 5÷60 °C.                                                                                                    |                    |                    |                    |                    |                    |
| Forza di serraggio per griffa a 6 bar<br>Gripping force at 6 bar on each jaw | 100 N                                                                                                       |                    |                    |                    |                    |                    |
| Forza di serraggio totale a 6 bar<br>Total gripping force at 6 bar           | 200 N                                                                                                       |                    |                    |                    |                    |                    |
| Corsa<br>Stroke (±0.25 mm)                                                   | 2x5 mm                                                                                                      | 2x12.5 mm          | 2x20 mm            | 2x40 mm            | 2x75 mm            | 2x100 mm           |
| Frequenza max funzionamento<br>Maximum working frequency                     | 3 Hz                                                                                                        | 2 Hz               | 2 Hz               | 2 Hz               | 1 Hz               | 1 Hz               |
| Consumo d'aria per ciclo<br>Cycle air consumption                            | 7 cm <sup>3</sup>                                                                                           | 14 cm <sup>3</sup> | 21 cm <sup>3</sup> | 39 cm <sup>3</sup> | 71 cm <sup>3</sup> | 97 cm <sup>3</sup> |
| Tempo di chiusura senza carico<br>Closing time without load                  | 0.02 s                                                                                                      | 0.05 s             | 0.1 s              | 0.2 s              | 0.4 s              | 0.5 s              |
| Ripetibilità<br>Repetition accuracy                                          | 0.03 mm                                                                                                     | 0.03 mm            | 0.03 mm            | 0.03 mm            | 0.03 mm            | 0.03 mm            |
| Peso<br>Weight                                                               | 200 g                                                                                                       | 250 g              | 350 g              | 500 g              | 900 g              | 1200 g             |

### Forza di serraggio

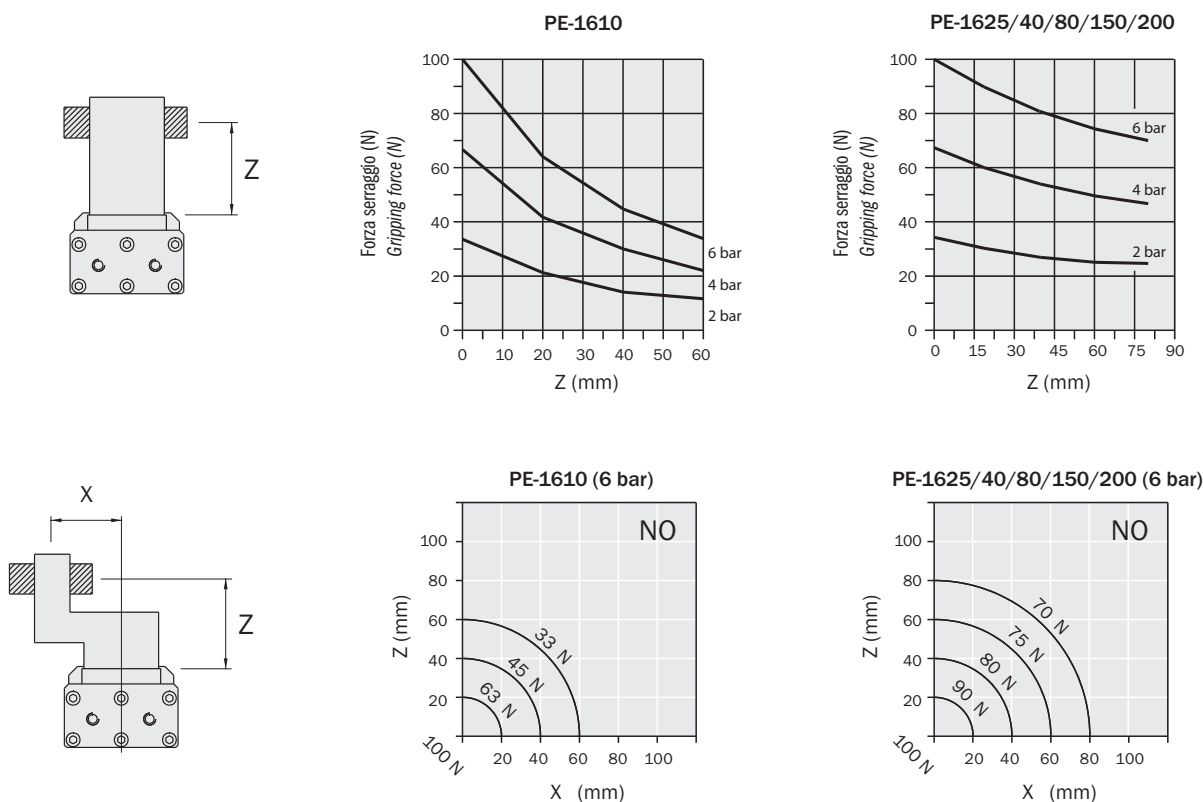
I grafici mostrano la forza per griffa espressa dalla pinza in funzione della pressione, del braccio Z e del disassamento del punto di presa X.

### Gripping force

The graphs show the gripping force on each jaw, as a function of the operating pressure, the gripping tool length Z and the overhanging X.

La forza indicata in questi grafici è riferita alla singola griffa.  
La forza totale è il doppio.

The force shown in these graphs refers to one jaw.  
The total force is double.



|                                                                              | PE-2520                                                                                                     | PE-2540 | PE-2560 | PE-25100 | PE-25200 |
|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------|---------|----------|----------|
| Fluido<br>Medium                                                             | Aria compressa a norma ISO 8573-1:2010 [7:4:4]<br>Compressed air in compliance with ISO 8573-1:2010 [7:4:4] |         |         |          |          |
| Pressione di esercizio<br>Operating pressure range                           | 2÷8 bar                                                                                                     |         |         |          |          |
| Temperatura di esercizio<br>Operating temperature range                      | 5÷60 °C.                                                                                                    |         |         |          |          |
| Forza di serraggio per griffa a 6 bar<br>Gripping force at 6 bar on each jaw | 230 N                                                                                                       |         |         |          |          |
| Forza di serraggio totale a 6 bar<br>Total gripping force at 6 bar           | 460 N                                                                                                       |         |         |          |          |
| Corsa (±0.25 mm)<br>Stroke                                                   | 2x10 mm                                                                                                     | 2x20 mm | 2x30 mm | 2x50 mm  | 2x100 mm |
| Frequenza max funzionamento<br>Maximum working frequency                     | 3 Hz                                                                                                        | 2 Hz    | 2 Hz    | 1 Hz     | 1 Hz     |
| Consumo d'aria per ciclo<br>Cycle air consumption                            | 44 cm³                                                                                                      | 74 cm³  | 102 cm³ | 146 cm³  | 263 cm³  |
| Tempo di chiusura senza carico<br>Closing time without load                  | 0.02 s                                                                                                      | 0.04 s  | 0.06 s  | 0.08 s   | 0.17 s   |
| Ripetibilità<br>Repetition accuracy                                          | 0.04 mm                                                                                                     | 0.04 mm | 0.04 mm | 0.04 mm  | 0.04 mm  |
| Peso<br>Weight                                                               | 700 g                                                                                                       | 980 g   | 1285 g  | 1235 g   | 2080 g   |

Forza di serraggio

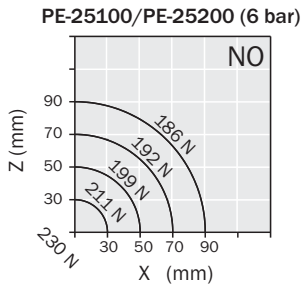
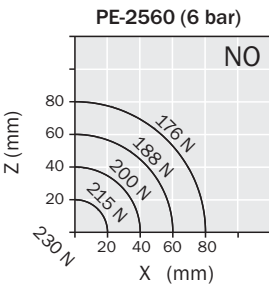
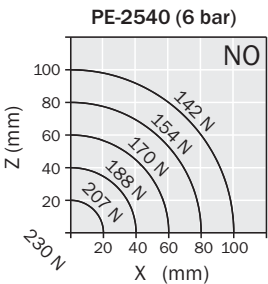
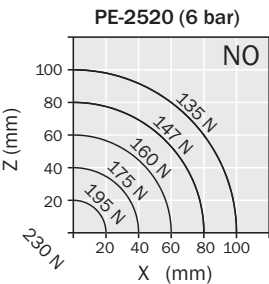
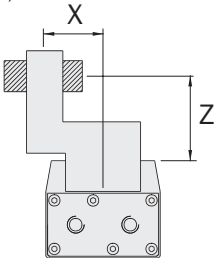
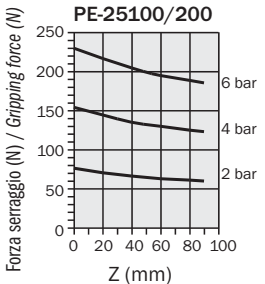
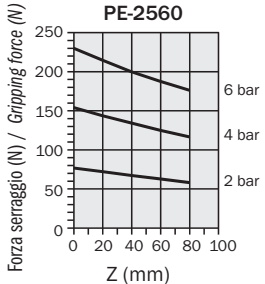
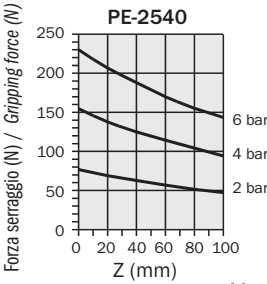
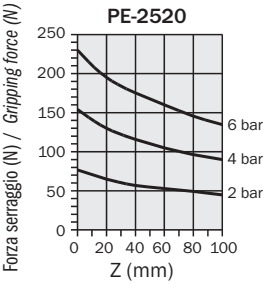
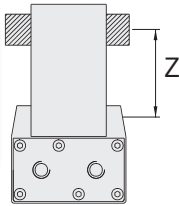
I grafici mostrano la forza per griffa espressa dalla pinza in funzione della pressione, del braccio Z e del disassamento del punto di presa X.

Gripping force

The graphs show the gripping force on each jaw, as a function of the operating pressure, the gripping tool length Z and the overhanging X.

La forza indicata in questi grafici è riferita alla singola griffa. La forza totale è il doppio.

The force shown in these graphs refers to one jaw. The total force is double.



|                                                                              | PE-4520                                                                                                     | PE-4540             | PE-4560             | PE-4580             | PE-45200            |
|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|---------------------|
| Fluido<br>Medium                                                             | Aria compressa a norma ISO 8573-1:2010 [7:4:4]<br>Compressed air in compliance with ISO 8573-1:2010 [7:4:4] |                     |                     |                     |                     |
| Pressione di esercizio<br>Operating pressure range                           | 2÷8 bar                                                                                                     |                     |                     |                     |                     |
| Temperatura di esercizio<br>Operating temperature range                      | 5÷60 °C.                                                                                                    |                     |                     |                     |                     |
| Forza di serraggio per griffa a 6 bar<br>Gripping force at 6 bar on each jaw | 700 N                                                                                                       | 700 N               | 700 N               | 700 N               | 900 N               |
| Forza di serraggio totale a 6 bar<br>Total gripping force at 6 bar           | 1400 N                                                                                                      | 1400 N              | 1400 N              | 1400 N              | 1800 N              |
| Corsa<br>Stroke (±0.25 mm)                                                   | 2x10 mm                                                                                                     | 2x20 mm             | 2x30 mm             | 2x40 mm             | 2x100 mm            |
| Frequenza max funzionamento<br>Maximum working frequency                     | 3 Hz                                                                                                        | 2 Hz                | 1 Hz                | 1 Hz                | 1 Hz                |
| Consumo d'aria per ciclo<br>Cycle air consumption                            | 132 cm <sup>3</sup>                                                                                         | 208 cm <sup>3</sup> | 257 cm <sup>3</sup> | 371 cm <sup>3</sup> | 940 cm <sup>3</sup> |
| Tempo di chiusura senza carico<br>Closing time without load                  | 0.05 s                                                                                                      | 0.1 s               | 0.15 s              | 0.2 s               | 0.2 s               |
| Ripetibilità<br>Repetition accuracy                                          | 0.04 mm                                                                                                     | 0.04 mm             | 0.04 mm             | 0.04 mm             | 0.04 mm             |
| Peso<br>Weight                                                               | 1840 g                                                                                                      | 2250 g              | 2715 g              | 3300 g              | 3800 g              |

### Forza di serraggio

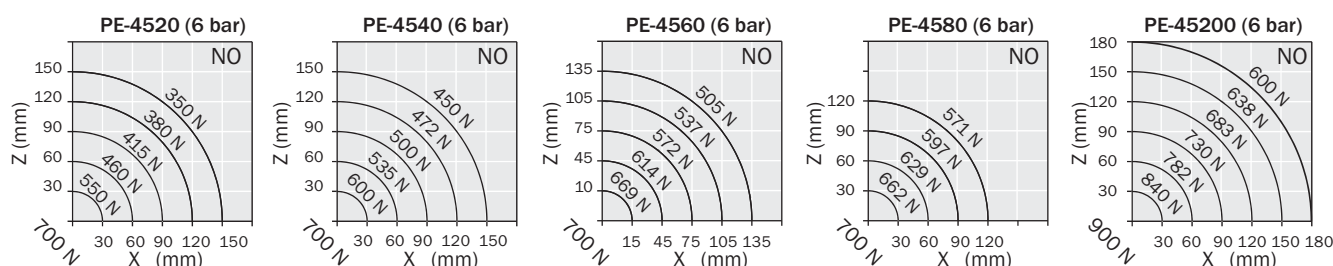
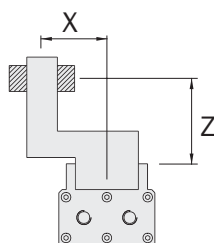
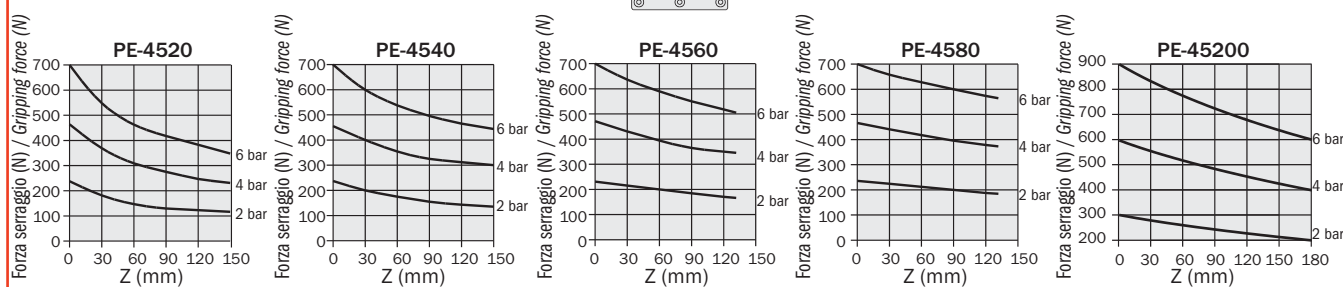
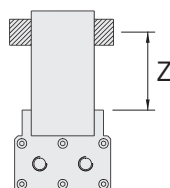
I grafici mostrano la forza per griffa espressa dalla pinza in funzione della pressione, del braccio Z e del disassamento del punto di presa X.

### Gripping force

The graphs show the gripping force on each jaw, as a function of the operating pressure, the gripping tool length Z and the overhanging X.

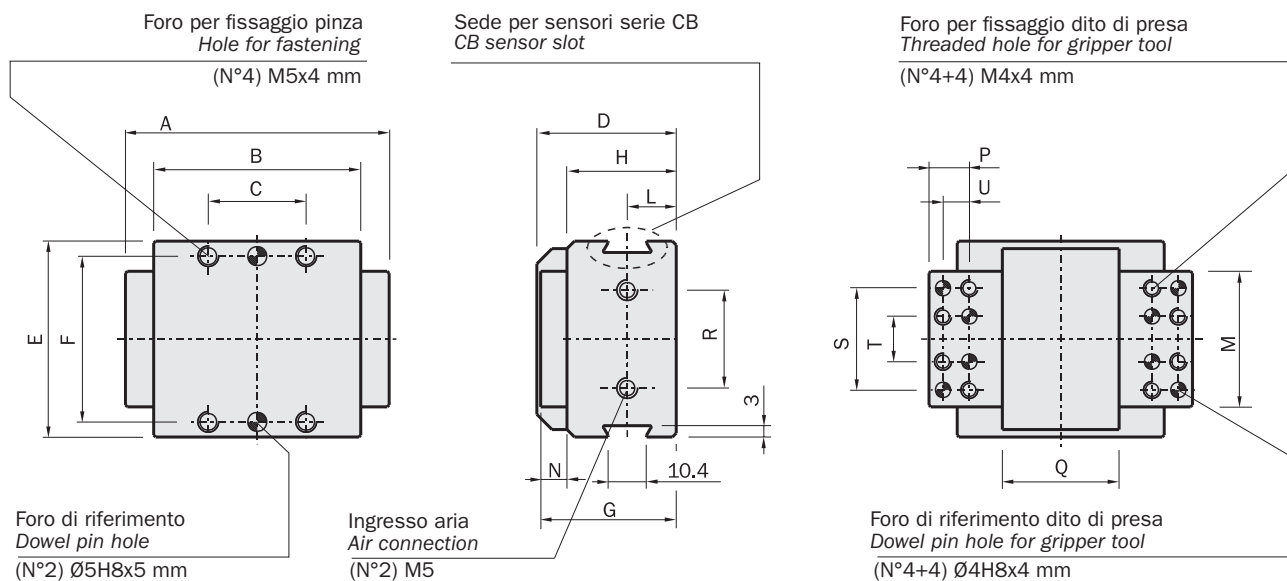
La forza indicata in questi grafici è riferita alla singola griffa. La forza totale è il doppio.

The force shown in these graphs refers to one jaw. The total force is double.

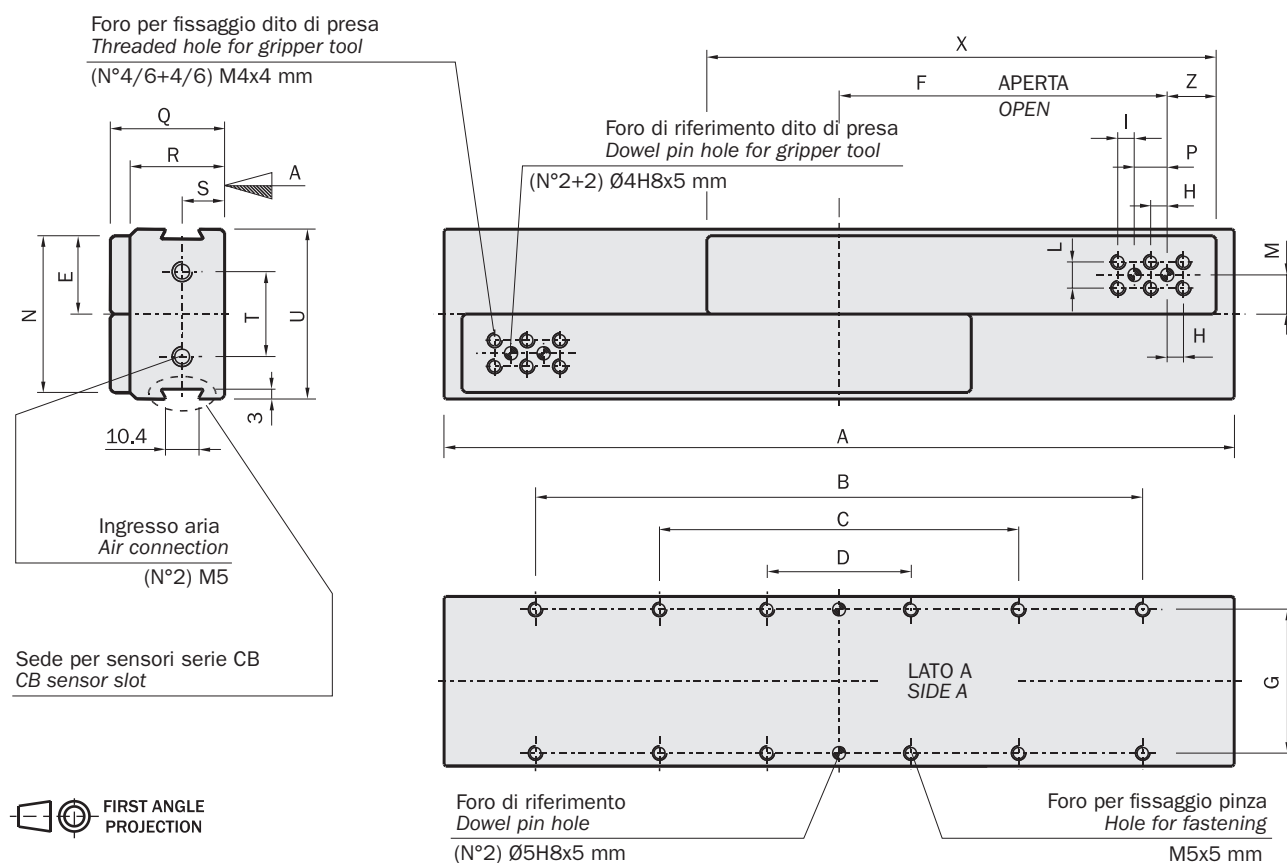


## Dimensioni (mm) Dimensions (mm)

|         | A  | B  | C  | D  | E  | F<br>±0.02 | G  | H  | L  | M  | N | P     | Q  | R<br>±0.02 | S<br>±0.02 | T<br>±0.02 | U<br>±0.02 |
|---------|----|----|----|----|----|------------|----|----|----|----|---|-------|----|------------|------------|------------|------------|
| PE-1610 | 62 | 60 | 26 | 37 | 52 | 44         | 36 | 29 | 13 | 36 | 7 | 11.75 | 31 | 26         | 27         | 12         | 7          |

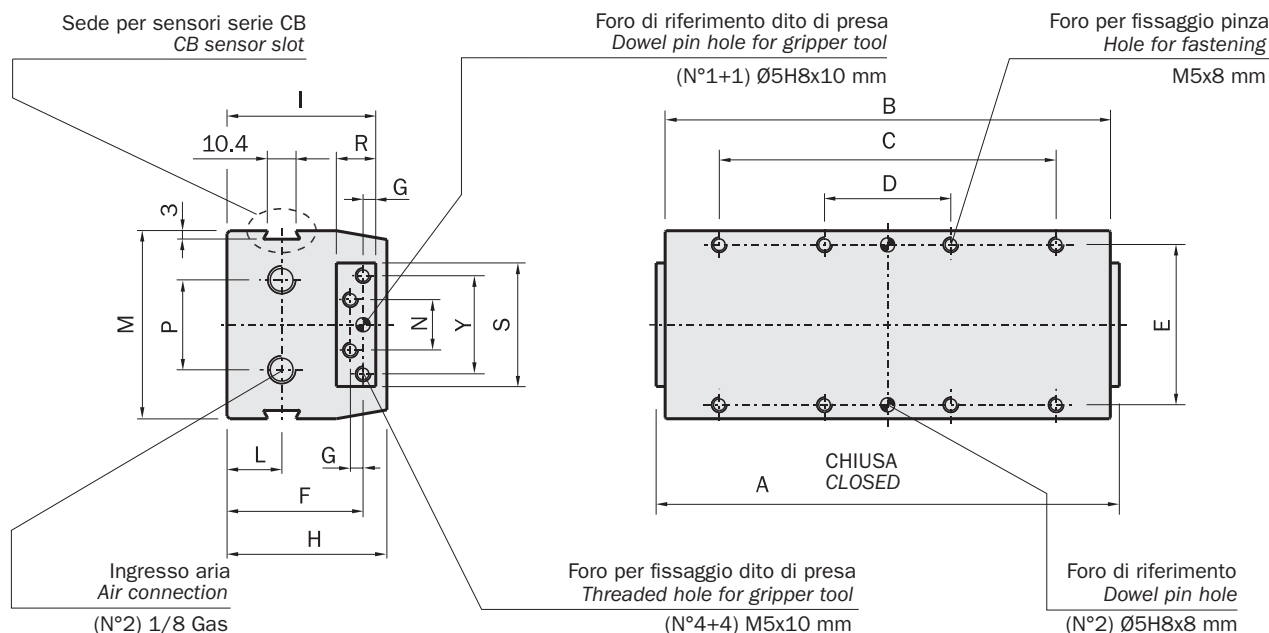


|          | A   | B   | C   | D  | E  | F     | G<br>±0.02 | H | I | L  | M  | N  | P<br>±0.02 | Q  | R  | S  | T  | U  | X    | Z    |
|----------|-----|-----|-----|----|----|-------|------------|---|---|----|----|----|------------|----|----|----|----|----|------|------|
| PE-1625  | 70  | -   | -   | 26 | 24 | 12.5  | 44         | 5 | - | 12 | 12 | 48 | 12         | 37 | 29 | 13 | 26 | 52 | 41.5 | 14.5 |
| PE-1640  | 99  | -   | -   | 60 | 24 | 26.5  | 44         | 5 | - | 8  | 12 | 48 | 10         | 37 | 29 | 13 | 26 | 52 | 63   | 15   |
| PE-1680  | 155 | -   | -   | 60 | 24 | 54.5  | 44         | 5 | 5 | 8  | 12 | 48 | 10         | 37 | 29 | 13 | 26 | 52 | 99   | 15   |
| PE-16150 | 263 | -   | 200 | 60 | 24 | 108.5 | 44         | 5 | 5 | 8  | 12 | 48 | 10         | 37 | 29 | 13 | 26 | 52 | 172  | 15   |
| PE-16200 | 337 | 280 | 200 | 60 | 24 | 145.5 | 44         | 5 | 5 | 8  | 12 | 48 | 10         | 37 | 29 | 13 | 26 | 52 | 221  | 15   |

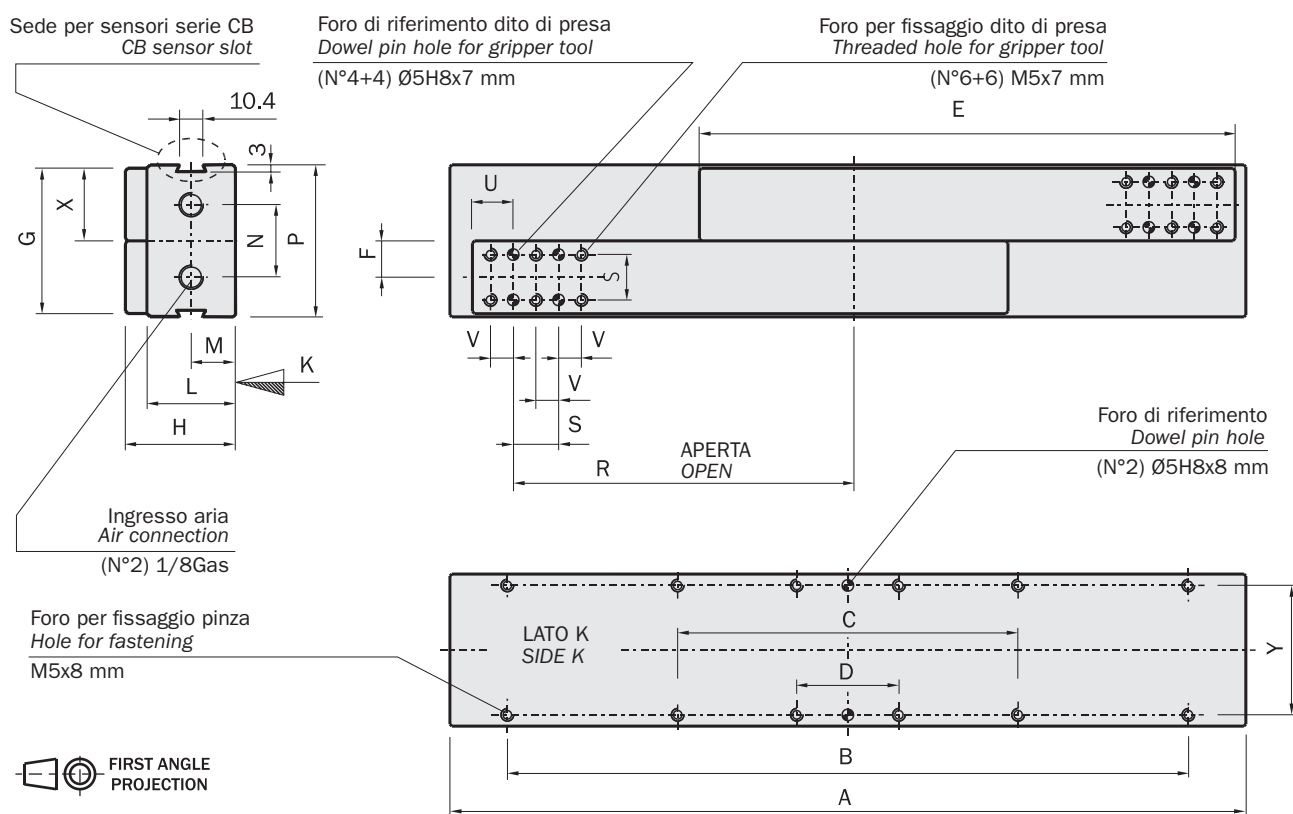


**Dimensioni (mm)**  
**Dimensions (mm)**

|         | A   | B     | C   | D  | E<br>$\pm 0.02$ | F    | G<br>$\pm 0.02$ | H  | I  | L    | M  | N  | P  | Y  | R<br>$-0.05$ | S<br>$-0.05$ |
|---------|-----|-------|-----|----|-----------------|------|-----------------|----|----|------|----|----|----|----|--------------|--------------|
| PE-2520 | 90  | 83.6  | -   | 45 | 57              | 48.5 | 4.5             | 57 | 53 | 19.5 | 67 | 18 | 32 | 35 | 14           | 44           |
| PE-2540 | 130 | 123.6 | -   | 45 | 57              | 48.5 | 4.5             | 57 | 53 | 19.5 | 67 | 18 | 32 | 35 | 14           | 44           |
| PE-2560 | 165 | 158.6 | 120 | 45 | 57              | 48.5 | 4.5             | 57 | 53 | 19.5 | 67 | 18 | 32 | 35 | 14           | 44           |

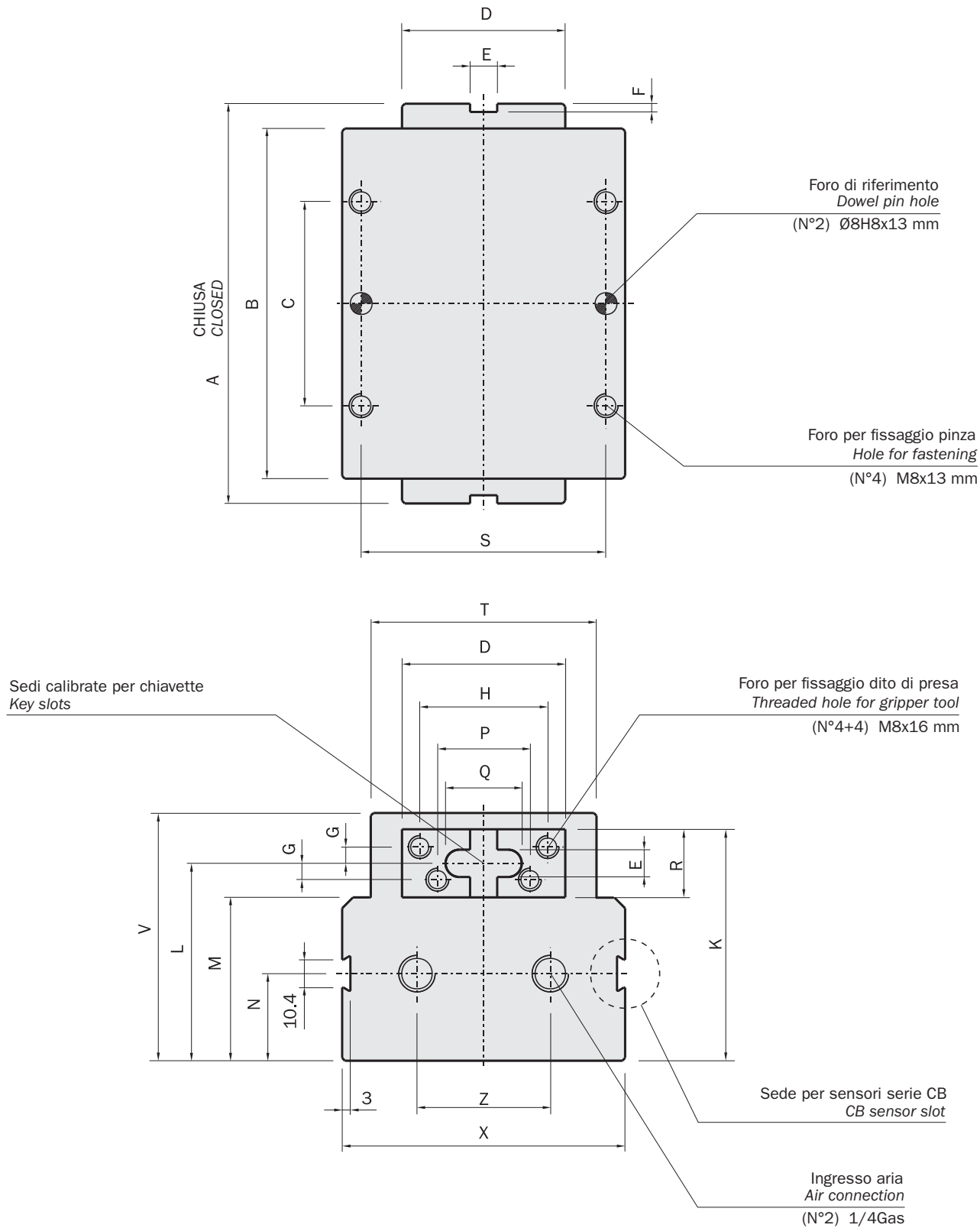


|          | A     | B   | C   | D  | E   | F  | G  | H    | L  | M    | N  | P  | Y<br>$\pm 0.02$ | R   | S<br>$\pm 0.02$ | U  | X  | V  |
|----------|-------|-----|-----|----|-----|----|----|------|----|------|----|----|-----------------|-----|-----------------|----|----|----|
| PE-25100 | 200.6 | -   | 150 | 45 | 136 | 16 | 64 | 48.5 | 39 | 19.5 | 32 | 67 | 57              | 75  | 20              | 18 | 32 | 10 |
| PE-25200 | 350.6 | 300 | 150 | 45 | 236 | 16 | 64 | 48.5 | 39 | 19.5 | 32 | 67 | 57              | 150 | 20              | 18 | 32 | 10 |



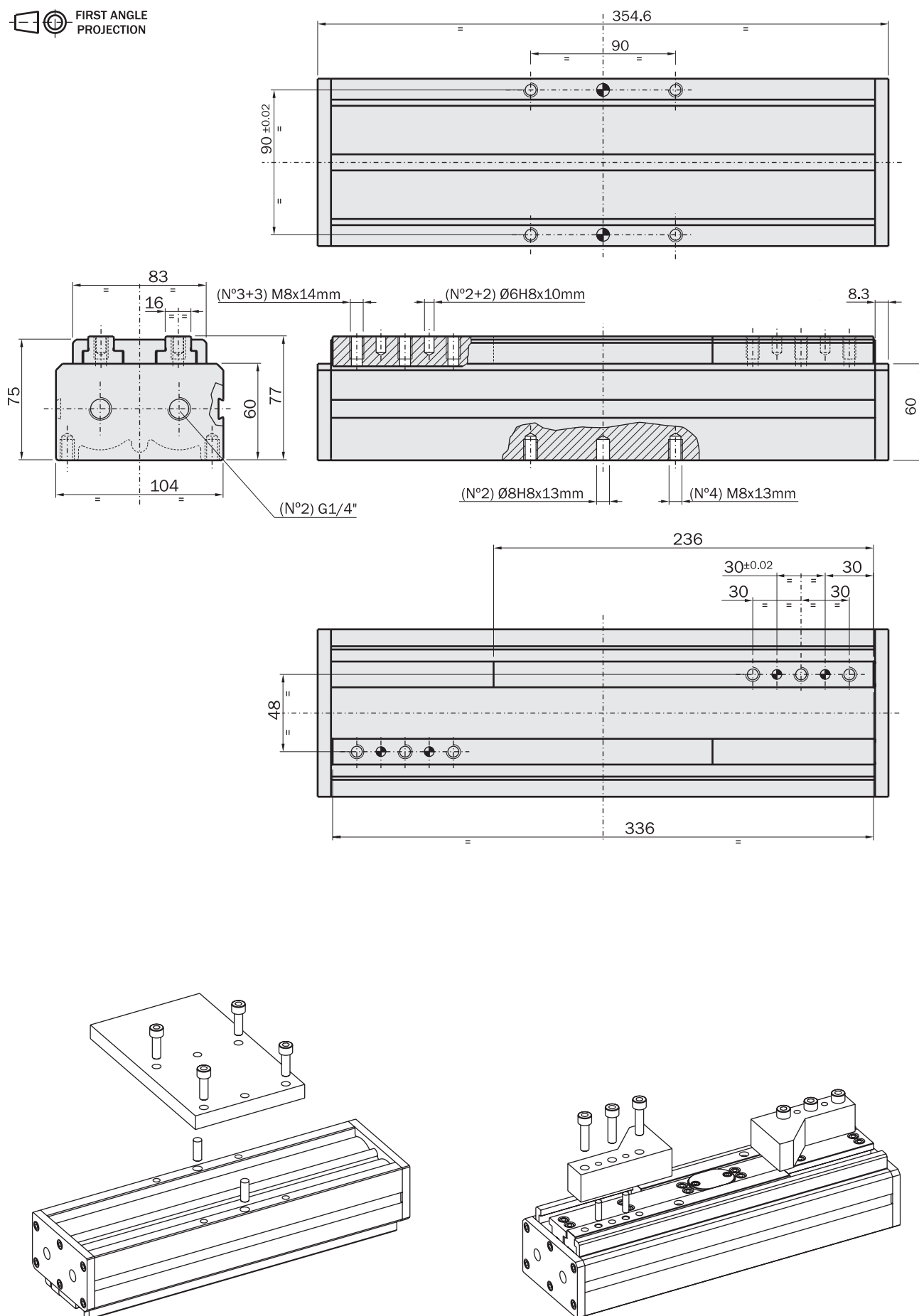
Dimensioni (mm)  
Dimensions (mm)

|         | A   | B     | C  | D<br>-0.05 | E<br>+0.05 | F | G | H  | L    | M  | N  | P  | Q  | R<br>-0.05 | S<br>±0.02 | T  | V  | X   | K  | Z  |
|---------|-----|-------|----|------------|------------|---|---|----|------|----|----|----|----|------------|------------|----|----|-----|----|----|
| PE-4520 | 110 | 100.6 | 50 | 60         | 10         | 3 | 6 | 47 | 72.5 | 60 | 32 | 34 | 28 | 25         | 90         | 83 | 91 | 104 | 85 | 49 |
| PE-4540 | 140 | 128.6 | 75 | 60         | 10         | 3 | 6 | 47 | 72.5 | 60 | 32 | 34 | 28 | 25         | 90         | 83 | 91 | 104 | 85 | 49 |
| PE-4560 | 170 | 160.6 | 90 | 60         | 10         | 3 | 6 | 47 | 72.5 | 60 | 32 | 34 | 28 | 25         | 90         | 83 | 91 | 104 | 85 | 49 |
| PE-4580 | 210 | 200.6 | 90 | 60         | 10         | 3 | 6 | 47 | 72.5 | 60 | 32 | 34 | 28 | 25         | 90         | 83 | 91 | 104 | 85 | 49 |



**Dimensioni (mm)**  
**Dimensions (mm)**

PE-45200

Unità Rotanti  
Rotary UnitsCambia Utensile  
Quick ChangerProfili e Staffe  
Profiles and BracketsPinze  
GrippersAttuatori Lineari  
Linear ActuatorsSospensioni  
SuspensionsTaglierini  
NippersKit-Robot  
Robot KitAccessori Opzionali  
OptionsSensori  
Sensors