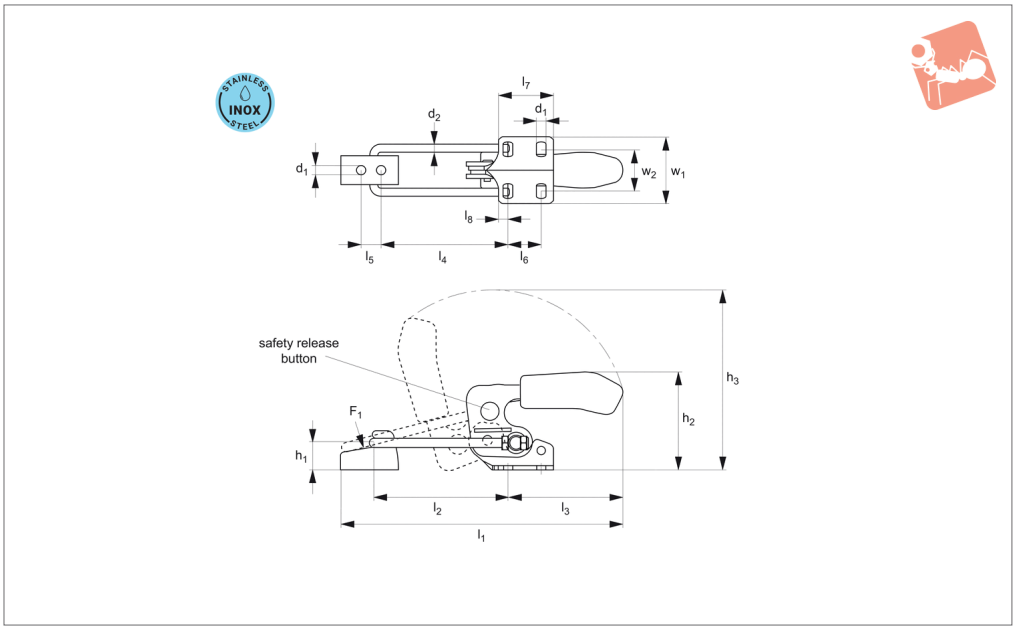



# 41805.4



## Material

Body: stainless steel (AISI 304, 1.4301), polished.
Rivets: stainless steel running in hardened bushes. Pre-lubricated bearings.
Ergonomic soft feel oil-resistant handle with large grip area.
Complete with counter strike.

## Technical Notes

The safety latch holds the clamp in both the open and the closed position. This prevents opening under vibration or inadvertent movement of the clamping arm when loading or unloading a fixture.
Temperature range -10°C to +80°C.

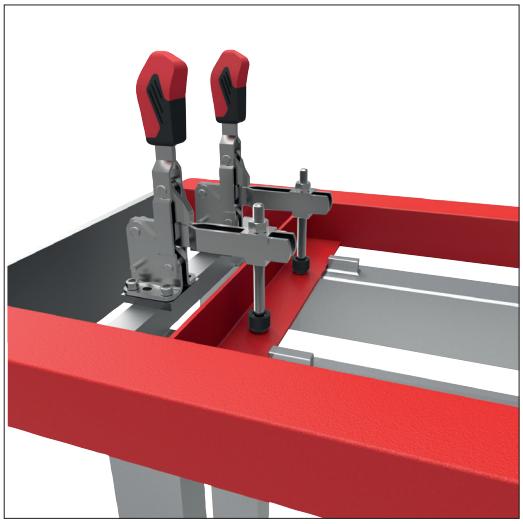
| Order No. | Size | $F_1$ kN | $h_1$ | $h_2$ | $h_3$ | $l_1$ min. | $l_1$ max. | $l_2$ min. | $l_2$ max. | Weight g |
|---|---|---|---|---|---|---|---|---|---|---|
| 41805.W0304 | 4 | 7.0 | 26 | 94 | 168 | 209 | 273 | 66 | 130 | 850 |

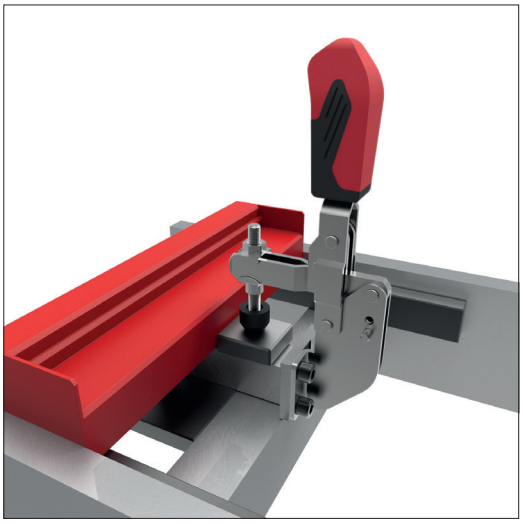
| Order No. | $l_3$ | $l_4$ min. | $l_4$ max. | $l_5$ | $l_6$ | $l_7$ | $l_8$ | $w_1$ | $w_2$ | $d_1$ | $d_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 41805.W0304 | 111 | 59 | 123 | 19 | 32 | 53.5 | 9.5 | 64.5 | 35-46 | 8.5 | 8 |

# Wixroyd Toggle Clamps

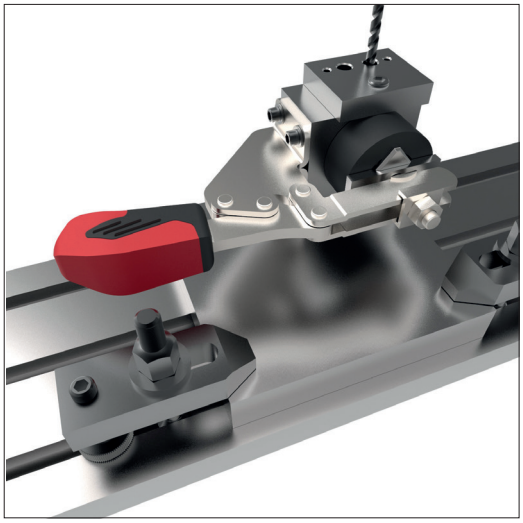


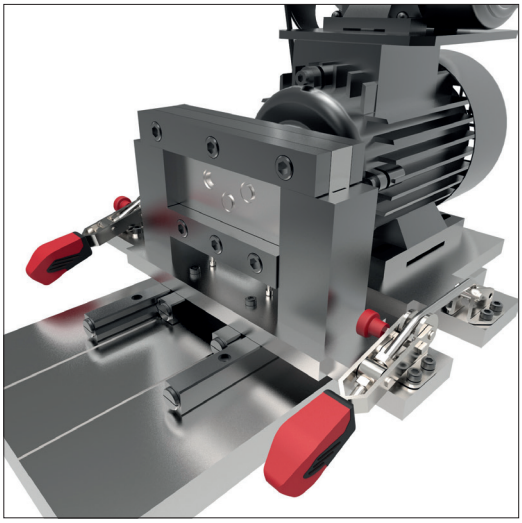
## Welding Fixtures



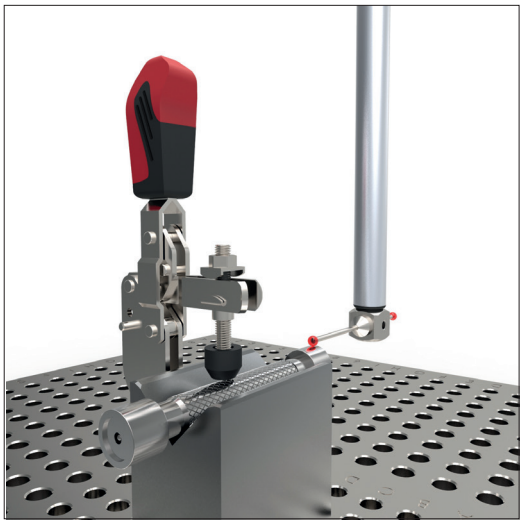


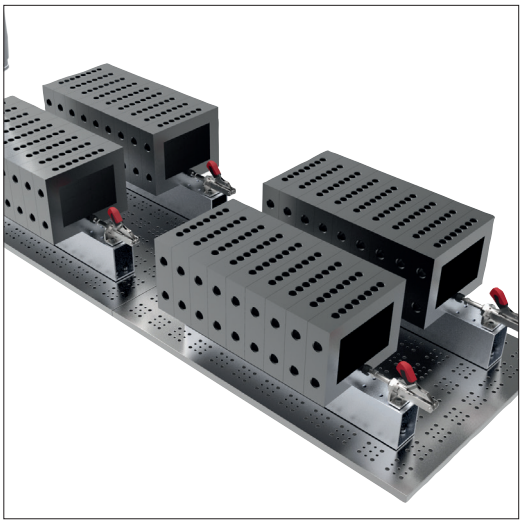
## Machining and Jig Assemblies





## Cmm's







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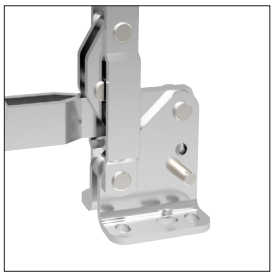
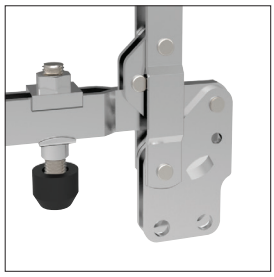
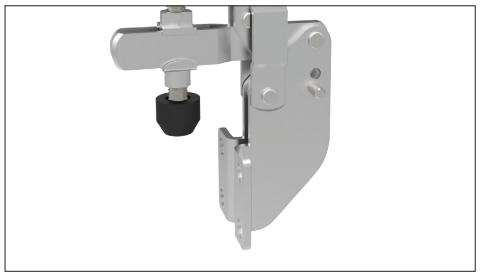
## Mounting Base Variations


Horizontal base


Vertical base


Angled base

## Clamping Variations


Vertical acting


Horizontal acting

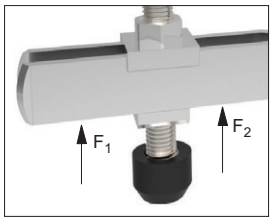

Push-pull

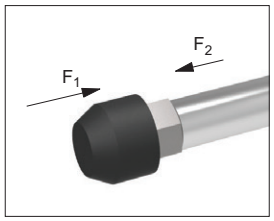

Hook type


Latch type

## Explanation of forces

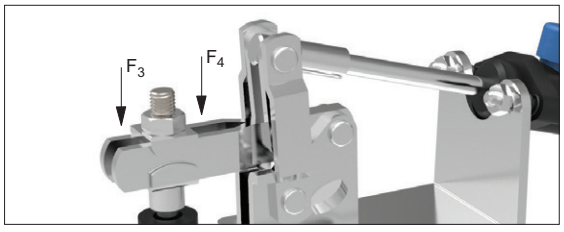
The force transmitted to the workpiece by the toggle clamp's closed arm, without itself being deformed when machine forces are applied. The holding force value is dependent upon the proximity of the measuring load point to the toggle clamp's pivot point (therefore two values, F1 and F2 are provided).



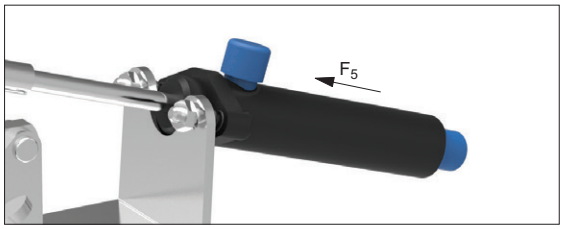

### Holding Forces F1 or F2

The force applied to the workpiece when the toggle clamp's arm is closed. These clamping forces can only be stated for pneumatic toggle clamps, clamping forces of manual clamps cannot be easily measured as they are dependent upon the operator.




### Clamping Forces F3 or F4

For pneumatically controlled toggle clamps only, F5 is the piston force required (at 6 bar to) achieve the stated clamping force.




### Piston Forces F5

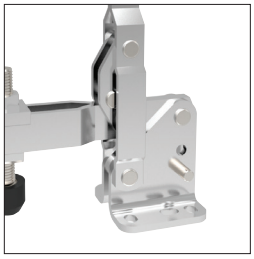
# Wixroyd Toggle Clamps

overview

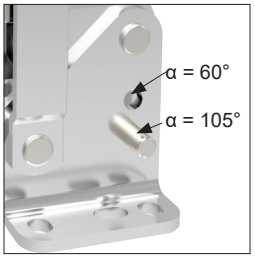


## Quality Features

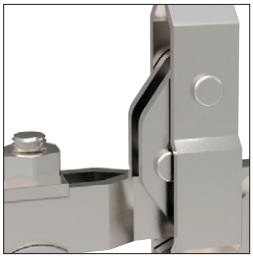
Ergonomic soft grip
2-component handle



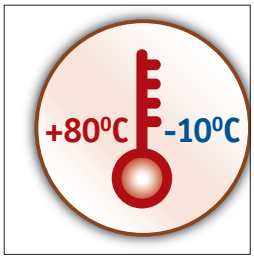
Stainless rivets and
hardened bushings




Moveable stop for
variable opening angle



Operator
finger protection

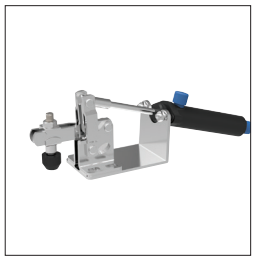



Temperature resistant

## Unique Features

Safety catches

Heavy duty versions



Pneumatic versions

Matt black surface for
optical measurement

## Materials

Steel, zinc plated
and passivated

Stainless steel (304)

Steel, matt black
vario-spektron coated

Protective cap and
handle made of an
electrostatic conductive
(dissipative) material.







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