

Sliding Clamps - for Slotted Hole

quarter turn lock - t-handle grip - zinc

One Touch Fasteners



Material

Body: die-cast zinc, chrome plated. Grip: polyamide plastic (black or orange), or stainless steel SUS304. Clamping shaft/wedge: stainless steel. Ball plunger: polyacetal.

Technical Notes

Sliding clamps are ideal for the quick positioning, locking, releasing and repositioning of sliding bars in many applications. When additionally used with a scale plate (see part no. 33975, 33976 and 33977), the reading line on the sliding clamp enables quick, easy and accurate alignment.

The sliding clamp is mounted, for greater stability, in a fixed position in an assembly. With the clamp set to its off position the sliding bar (not supplied) can be moved left or right, with two spring loaded ball plungers provide for free movement of bar. Once in its desired position the sliding bar can be locked in place, through a 90 degree turn of the sliding clamp's handle which engages the clamp's clamping shaft/ wedge.

Please see technical diagram below for recommended machining details for your sliding bar (not supplied). Riser plates can be used to provide clearance between sliding bar and mounting surface to improve free running of sliding bar, see part no. 33971.

Temperature resistance up to 90°C. Max. static load up to 500N - please refer to performance graph below.

Important Notes

Sliding clamps are suited only to straight linear movement of sliding bar (not supplied), and do not tolerate any other applied loads.

Displacement of sliding bar, through repetitive use, will increase if excessive shock or vibration is present. Do not use sliding clamp in vertical applications where vibration is present.

Displacement will also increase with adhesion or immersion of oil or other foreign substances.

Ensure sliding bar is not bent nor warped as this may cause the sliding bar to slip even when sliding clamp is in its on position.

Order No.	For slot width	Handle	Slot depth	d_1	h ₁	h ₂	h ₃	h ₄	Weight
			min.						g
33970.W0103	10	Plastic, Orange	3	5.5	3	10	24	4.5	80
33970.W0106	10	Plastic, Orange	6	5.5	6	10	24	4.5	80
33970.W1103	10	Plastic, Black	3	5.5	3	10	24	4.5	80
33970.W1106	10	Plastic, Black	6	5.5	6	10	24	4.5	80
33970.W2103	10	Stainless	3	5.5	3	10	24	4.5	95
33970.W2106	10	Stainless	6	5.5	6	10	24	4.5	95
								Stati	c load
Order No.	I ₁	I ₂	w ₁	01	-0.05	V	/ ₃		N
				01	0.00			m	ax.
33970.W0103	50	40	30		10	2	8	5	00
33970.W0106	50	40	30		10	2	8	5	00
33970.W1103	50	40	30		10	2	8	5	00
33970.W1106	50	40	30		10	2	8	5	00



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Order No.	I ₁	I ₂	w_1	w ₂ 0 -0.05	w ₃	Static load N max.
33970.W2103	50	40	30	10	28	500
33970.W2106	50	40	30	10	28	500

One Touch

Fasteners





slotted hole - overview



Operating Principle



Operating Instructions







33970

One-Touch Fastener - Sliding clamps



slotted hole - overview

How to Use Steel Bar Materials

Positioning Elements

Usable Materials: Flat bar (JIS h14 grade) made of SS400, S45C or SUS304 etc.

Machining of slotted hole: Recommended tolerance of the slotted hole to prevent chattering is shown left.

ONE TOUCH FASTENERS

For more accurate sliding, machine the slotted hole to fit the dimension of 10mm (-0.05 to 0) on the bottom of sliding locks. Remove the burr around the slotted hole to ensure locking.

How to Use Riser Plate

Can be used for various steel thicknesses by attaching the riser plates (ordered separately, see 33971).



You can read the scale with the line on the body of the sliding lock.

Scale plate is separately available.

See ranges 33975, 33976 and 33977.









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overview



Notes

- Ensure that the knob is at the "OFF" position when mounting. Mounting of sliding locks the at "ON" position may cause damage.
- The displacement will increase with excess shock or vibration. Do not use this product vertically in environments where excess vibration is present.
- The displacement can increase with adhesion or contamination by oil or foreign substances.
- If the steel plate slips or chatters by the load applied to the steel plate, prepare guides or supports as needed. (See figure 1 and 2 below)
- Excess displacement or misalignment may be caused if there is a clearance between the steel bar and the base when the sliding locks at the "ON" position. (See figure 3 below) Ensure that the steel plate and the base are not bent or warped.



Performance Curve



The Displacement of Steel Bar by Axial Load (static load from single direction)

Note: The data is for a flat bar made of SUS304 stainless steel, SS400 steel and S45C steel. Using an aluminium flat bar the surface will be scratched or dent by applied load.





Riser Plates for Sliding Locks





Material

Body: 304 stainless steel.

of riser plate to clamp enables clamps use for sliding bars of varying thickness.

Technical Notes

For use with sliding clamp 33970, addition

Order No.	d ₁	I_1	w_1	t ₁	Weight
33971.W0002	5.5	40	9.5	2	g 6
33971.W0003	5.5	40	9.5	3	10







Sliding Clamps - for Solid Sliding Bar

quarter turn lock - t-handle grip - zinc

One Touch Fasteners





Material

Body: die-cast zinc, chrome plated. Grip: polyamide plastic (black or orange), or stainless steel SUS304. Clamping shaft/wedge: stainless steel. Flat spring: phosphor bronze.

Technical Notes

Sliding clamps are ideal for the quick positioning, locking, releasing and repositioning of sliding bars in many applications. When additionally used with a scale plate (see part no. 33975, 33976 and 33977), the reading line on the sliding clamp enables quick, easy and accurate alignment.

The sliding clamp is mounted, for greater stability, in a fixed position in an assembly. With the clamp set to its off position the sliding bar (not supplied) can be moved

left or right, with two spring loaded ball plungers provide for free movement of bar. Once in its desired position the sliding bar can be locked in place, through a 90 degree turn of the sliding clamp's handle which engages the clamp's clamping shaft/ wedge.

Please see technical diagram below for recommended machining details for your sliding bar (not supplied). Riser plates can be used to provide clearance between sliding bar and mounting surface to improve free running of sliding bar, see part no. 33974.

Temperature resistance up to 90°C. Max. static load up to 800N - please refer to performance graph below.

Important Notes

Sliding clamps are suited only to straight linear movement of sliding bar (not supplied), and do not tolerate any other applied loads.

Displacement of sliding bar, through repetitive use, will increase if excessive shock or vibration is present. Do not use sliding clamp in vertical applications where vibration is present.

Displacement will also increase with adhesion or immersion of oil or other foreign substances.

Ensure sliding bar is not bent nor warped as this may cause the sliding bar to slip even when sliding clamp is in its on position.

Order No.	For bar width x height	Handle	d_1	h ₁ +0.02	h ₂	h ₃	h ₄	h ₅	I_1	I_2	w ₁ +0.05 -0.0	w ₂	Weight g
33972.W0122	12x12	Plastic, orange	4.5	12	36	22	18.5	6.0	40	32	12	28	130
33972.W0166	16x16	Plastic, orange	4.5	16	40	26	22.5	8.0	40	32	16	28	150
33972.W0250	25x 9	Plastic, orange	5.5	9	37	23	18.5	4.5	50	40	25	35	220
33972.W0252	25x12	Plastic, orange	5.5	12	40	26	21.5	6.0	50	40	25	35	240
33972.W0322	32x12	Plastic, orange	5.5	12	40	26	21.5	6.0	50	40	32	35	220
33972.W0326	32x16	Plastic, orange	5.5	16	44	30	25.5	8.0	50	40	32	35	240
33972.W1122	12x12	Plastic, black	4.5	12	36	22	18.5	6.0	40	32	12	28	130
33972.W1166	16x16	Plastic, black	4.5	16	40	26	22.5	8.0	40	32	16	28	150
33972.W1250	25x 9	Plastic, black	5.5	9	37	23	18.5	4.5	50	40	25	35	220
33972.W1252	25x12	Plastic, black	5.5	12	40	26	21.5	6.0	50	40	25	35	240
33972.W1322	32x12	Plastic, black	5.5	12	40	26	21.5	6.0	50	40	32	35	220
33972.W1326	32x16	Plastic, black	5.5	16	44	30	25.5	8.0	50	40	32	35	240
33972.W2122	12x12	Stainless	4.5	12	36	22	18.5	6.0	40	32	12	28	145
33972.W2166	16x16	Stainless	4.5	16	40	26	22.5	8.0	40	32	16	28	165
33972.W2250	25x 9	Stainless	5.5	9	37	23	18.5	4.5	50	40	25	35	245



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Sliding Clamps - for Solid Sliding Bar quarter turn lock - t-handle grip - zinc



Order No.	For bar width x height	Handle	d_1	h ₁ +0.02	h ₂	h ₃	h ₄	h ₅	I_1	I ₂	w ₁ +0.05 -0.0	w ₂	Weight g
33972.W2252	25x12	Stainless	5.5	12	40	26	21.5	6.0	50	40	25	35	265
33972.W2322	32x12	Stainless	5.5	12	40	26	21.5	6.0	50	40	32	35	245
33972.W2326	32x16	Stainless	5.5	16	44	30	25.5	8.0	50	40	32	35	265





Sliding Clamps - for Solid Sliding Bar

quarter turn lock - lever handle grip - zinc

One Touch Fasteners



Material Body: die-cast zinc, chrome plated. Handle: stainless steel SUS304. Clamping shaft/wedge: stainless steel.

Flat spring: phosphor bronze.

Technical Notes

Sliding clamps are ideal for the quick positioning, locking, releasing and repositioning of sliding bars in many applications. When additionally used with a scale plate (see part no. 33975, 33976 and 33977), the reading line on the sliding clamp enables quick, easy and accurate alignment.

The sliding clamp is mounted, for greater stability, in a fixed position in an assembly. With the clamp set to its off position the sliding bar (not supplied) can be moved left or right, with two spring loaded ball plungers provide for free movement of bar. Once in its desired position the sliding bar can be locked in place, through a 90 degree turn of the sliding clamp's handle which engages the clamp's clamping shaft/ wedge.

Please see technical diagram below for recommended machining details for your sliding bar (not supplied). Riser plates can be used to provide clearance between sliding bar and mounting surface to improve free running of sliding bar, see part no. 33974.

Temperature resistance upto 90°C. Max. static load upto 800N - please refer to performance graph below.

Important Notes

Sliding clamps are suited only to straight linear movement of sliding bar (not supplied), and do not tolerate any other applied loads.

Displacement of sliding bar, through repetitive use, will increase if excessive shock or vibration is present. Do not use sliding clamp in vertical applications where vibration is present.

Displacement will also increase with adhesion or immersion of oil or other foreign substances.

Ensure sliding bar is not bent nor warped as this may cause the sliding bar to slip even when sliding clamp is in its on position.

Order No.	For bar width x height	Handle	d_1	h ₁ +0.02	h ₂	h ₃	h ₄	h ₅	h ₆	I_1	I ₂	w ₁ +0.05 - 0.0	w ₂	r_1	Static load N max.	Weight g
33973.W2122	12x12	Stainless	4,5	12	29	22	18,5	11	6,0	40	32	12	20	46,0	500	150
33973.W2166	16x16	Stainless	4,5	16	33	26	22,5	15	8,0	40	32	16	20	46,0	500	160
33973.W2250	25x 9	Stainless	5,5	9	31	23	18,5	11	4,5	50	40	25	20	55,5	800	250
33973.W2252	25x12	Stainless	5,5	12	34	26	21,5	14	6,0	50	40	25	20	55,5	800	250
33973.W2322	32x12	Stainless	5,5	12	34	26	21,5	14	6,0	50	40	32	20	55,5	800	320
33973.W2326	32x16	Stainless	5,5	16	38	30	25,5	18	8,0	50	40	32	20	55,5	800	270



DNE TOUCH FASTENERS

Sliding Clamps - for Solid Sliding Bar quarter turn lock - lever handle grip - zinc



installation dimensions for magnetic hold locating bush

for installation in a plate of thickness ranging from 6mm to 10mm, use a nut for fastening nut (sold separately)

for installation in a plate of thickness over 10mm, use a screw-in method



for use of 2pcs or more, the spacing tollerance should be ±0.1



Ø3.5 *0.10 M12x1.5 (fine thread)







Operating Principle









One-Touch Fastener - Solid Sliding Bar

overview



How to Use Riser Plate

Riser plates (to be ordered separately) can lift the steel bar to create a clearance between the steel bar and the base.

How to Use Tapped Holes on Side Surface

Can be used with attachments such as pointer plates and brackets.







Scale plate can be put on the steel bar.

Note: Fit scale plate inside the slot in the figure below. Putting scale plate outside the slot cause interference between scale plate and sliding lock.

Scale plate is separately available.

See ranges 33975, 33976 and 33977.









Performance Curve



Notes

- Ensure that the knob is at the "OFF" position when mounting. Mounting of sliding locks at the "ON" position may cause damage.
- The displacement will increase with excess shock or vibration. Do not use this product vertically in environments where excess vibration is present.
- The displacement can increase with adhesion or contamination by oil or foreign substances.
- If the steel plate slips or chatters by the • load applied to the steel plate, prepare guides or supports as needed. (See figure 1 and 2 below)
- Excess displacement or misalignment may be caused if there is a clearance between the steel bar and the base when the sliding locks at "ON" position. (See figure 3 below) Ensure that the steel plate and the base are not bent or warped.



(static load from single

B: For bar width x heights; 25x9,

ONE TOUCH FASTENERS

Note: This data is for a flat bar bade of SUS304 stainless steel, SS400 steel and S45C steel. Using an aluminium flat bar, the surface will be scratched or



Riser Plates for Sliding Clamps

for 33972 and 33973





Material

Body: stainless steel, SUS 304

Technical Notes

To be used with sliding clamps part no. 33972 and 33973

Order No.	d ₁	h ₁	I_1	I ₂	Weight g
33974.W4032	4.5	3	40	32	35
33974.W5040	5.5	3	50	40	55





Scale Plates - Single Scale

for sliding clamps 33970, 33972, 33973





Material

Aluminium, with etched graduation/ markings.

Technical Notes

For use with sliding clamps 33970, 33972 and 33973. Markings are for indicative purposes, and are not intended for precise measurement.

Adhesive mounting type: ensure receiving surface is clean and dirt free (features outline of screw hole location, not drilled).

Screw mounting type: holes drilled to

3,5mm dia.

When selecting scale plate consider; - direction scale reads (left to right, right to left or from centre).

- position of scale relative to number valves (above, below or both).

Order No.	Nounting type	Number of mounting holes	Direction of measurement	Scale position	d ₁ (marked) drilled	h_1	I_1	I ₂	۱ ₃	Weight g
33975.W1005	Adhesive	2	Left	Тор	(3,5)	12	50	40		0,8
33975.W1010	Adhesive	2	Left	Тор	(3,5)	12	100	90		1,6
33975.W1015	Adhesive	3	Left	Тор	(3,5)	12	150	70		2,4
33975.W1020	Adhesive	3	Left	Тор	(3,5)	12	200	95		3,2
33975.W1030	Adhesive	2	Right	Тор	(3,5)	12	50	40		0,8
33975.W1035	Adhesive	2	Right	Тор	(3,5)	12	100	90		1,6
33975.W1040	Adhesive	3	Right	Тор	(3,5)	12	150	70		2,4
33975.W1045	Adhesive	3	Right	Тор	(3,5)	12	200	95		3,2
33975.W1055	Adhesive	2	Centre	Тор	(3,5)	12	100	90		1,6
33975.W1060	Adhesive	3	Centre	Тор	(3,5)	12	200	95		3,2
33975.W2005	Adhesive	2	Left	Bottom	(3,5)	12	50	40		0,8
33975.W2010	Adhesive	2	Left	Bottom	(3,5)	12	100	90		1,6
33975.W2015	Adhesive	3	Left	Bottom	(3,5)	12	150	70		2,4
33975.W2020	Adhesive	3	Left	Bottom	(3,5)	12	200	95		3,2
33975.W2030	Adhesive	2	Right	Bottom	(3,5)	12	50	40		0,8
33975.W2035	Adhesive	2	Right	Bottom	(3,5)	12	100	90		1,6
33975.W2040	Adhesive	3	Right	Bottom	(3,5)	12	150	70		2,4
33975.W2045	Adhesive	3	Right	Bottom	(3,5)	12	200	95		3,2
33975.W2055	Adhesive	2	Centre	Bottom	(3,5)	12	100	90		1,6
33975.W2060	Adhesive	3	Centre	Bottom	(3,5)	12	200	95		3,2
33975.W5005	Screw Mount	2	Left	Тор	3,5	12	50	40		0,8
33975.W5010 S	Screw Mount	2	Left	Тор	3,5	12	100	90		1,6
33975.W5015	Screw Mount	3	Left	Тор	3,5	12	150	70		2,4
33975.W5020	Screw Mount	3	Left	Тор	3,5	12	200	95		3,2
33975.W5025	Screw Mount	6	Left	Тор	3,5	12	500	100	90	8,0
33975.W5030	Screw Mount	2	Right	Тор	3,5	12	50	40		0,8
33975.W5035	Screw Mount	2	Right	Тор	3,5	12	100	90		1,6
33975.W5040 S	Screw Mount	3	Right	Тор	3,5	12	150	70		2,4
33975.W5045	Screw Mount	3	Right	Тор	3,5	12	200	95		3,2
33975.W5050	Screw Mount	6	Right	Тор	3,5	12	500	100	90	8,0



Scale Plates - Single Scale for sliding clamps 33970, 33972, 33973



Order No.	Mounting type	Number of mounting holes	Direction of measurement	Scale position	d ₁ (marked) drilled	h_1	I_1	I ₂	۱ ₃	Weight g
33975.W5055	Screw Mount	2	Centre	Тор	3,5	12	100	90		1,6
33975.W5060	Screw Mount	3	Centre	Тор	3,5	12	200	95		3,2
33975.W5065	Screw Mount	6	Centre	Тор	3,5	12	500	100	90	8,0
33975.W6005	Screw Mount	2	Left	Bottom	3,5	12	50	40		0,8
33975.W6010	Screw Mount	2	Left	Bottom	3,5	12	100	90		1,6
33975.W6015	Screw Mount	3	Left	Bottom	3,5	12	150	70		2,4
33975.W6020	Screw Mount	3	Left	Bottom	3,5	12	200	95		3,2
33975.W6025	Screw Mount	6	Left	Bottom	3,5	12	500	100	90	8,0
33975.W6030	Screw Mount	2	Right	Bottom	3,5	12	50	40		0,8
33975.W6035	Screw Mount	2	Right	Bottom	3,5	12	100	90		1,6
33975.W6040	Screw Mount	3	Right	Bottom	3,5	12	150	70		2,4
33975.W6045	Screw Mount	3	Right	Bottom	3,5	12	200	95		3,2
33975.W6050	Screw Mount	6	Right	Bottom	3,5	12	500	100	90	8,0
33975.W6055	Screw Mount	2	Centre	Bottom	3,5	12	100	90		1,6
33975.W6060	Screw Mount	3	Centre	Bottom	3,5	12	200	95		3,2
33975.W6065	Screw Mount	6	Centre	Bottom	3,5	12	500	100	90	8,0







Scale Plates - Double Scale

for sliding clamps 33970, 33972, 33973

One Touch Fasteners



Material

Aluminium, with etched graduation/ markings.

Technical Notes

For use with sliding clamps 33970, 33972 and 33973. Markings are for indicative purposes, and are not intended for precise measurement.

Adhesive mounting type: ensure receiving surface is clean and dirt free (features outline of screw hole location, not drilled).

Screw mounting type: holes drilled to

3,5mm dia.

When selecting scale plate consider; - direction scale reads (left to right, right to left or from centre).

- position of scale relative to number valves (above, below or both).

Order No.	Mounting type	Number of mounting holes	Location of "O" point	d_1	I_1	l ₂	w_1	Weight g
33976.W1005	Adhesive	2	Left	-	50	40	15	1
33976.W1010	Adhesive	2	Left	-	100	90	15	2
33976.W1015	Adhesive	2	Right	-	50	40	15	1
33976.W1020	Adhesive	2	Right	-	100	90	15	2
33976.W1025	Adhesive	2	Centre	-	100	90	15	2
33976.W5005	Screw Mount	2	Left	3.5	50	40	15	1
33976.W5010	Screw Mount	2	Left	3.5	100	90	15	2
33976.W5015	Screw Mount	2	Right	3.5	50	40	15	1
33976.W5020	Screw Mount	2	Right	3.5	100	90	15	2
33976.W5025	Screw Mount	2	Centre	3.5	100	90	15	2



Scale Plates - Single Scale

stainless steel





Material

Stainless steel, with etched graduation/ markings.

Technical Notes

For use with sliding clamps 33970, 33972 and 33973. Markings are for indicative purposes, and are not intended for precise measurement.

Adhesive mounting type: ensure receiving surface is clean and dirt free (features outline of screw hole location, not drilled).

Screw mounting type: holes drilled to

3,5mm dia.

When selecting scale plate consider; - direction scale reads (left to right, right to left or from centre).

- position of scale relative to number valves (above, below or both).

Order No.	Mounting type	Number of mounting holes	Location of "O" point	d_1	I_1	I_2	w_1	Weight g
33977.W1005	Adhesive	2	Тор	-	50	40	12	2.4
33977.W1010	Adhesive	2	Тор	-	100	90	12	4.7
33977.W1015	Adhesive	2	Тор	-	50	40	12	2.4
33977.W1020	Adhesive	2	Тор	-	100	90	12	4.7
33977.W1025	Adhesive	2	Тор	-	100	90	12	4.7
33977.W5005	Screw-Mount	2	Тор	3.5	50	40	12	2.4
33977.W5010	Screw-Mount	2	Тор	3.5	100	90	12	4.7
33977.W5015	Screw-Mount	2	Тор	3.5	50	40	12	2.4
33977.W5020	Screw-Mount	2	Тор	3.5	100	90	12	4.7
33977.W5025	Screw-Mount	2	Тор	3.5	100	90	12	4.7





Sliding Clamps - for Solid Round Bar

quarter turn lock- l-handle grip - polyamide

One Touch Fasteners



Material

Housing: Polyamide (glass-fibre reinforced)

Boss: Polyamide (glass-fibre reinforced) Base: Polyamide (glass-fibre reinforced) Insert: Stainless steel

Technical Notes

It has teeth inside and it engages at every 7.2° (=360°/50).

33981 pulls the spindle by the inner spring with 70N force to prevent chattering of the spindle. Note: The spindle should be fully inserted into the knob for 25mm.

Order No.	Handle	1	d ₁ for shaft tol. h7	dia.	d ₂	d ₃	h ₁	h ₂	h ₃	h ₄	Weight g
33980.W1308	Orange	ė	8		M 4	6	48.5	23.5	22	17	50
33980.W1310	Orange	5	10		M 4	6	48.5	23.5	22	17	50
33980.W1312	Orange	3	12		M 4	6	48.5	23.5	22	17	50
33980.W1314	Orange	<u> </u>	14		M 4	6	48.5	23.5	22	17	50
33980.W1512	Orange	;	12		M 5	6	69.0	17.0	30	26	100
33980.W1515	Orange	;	15		M 5	6	69.0	17.0	30	26	100
33980.W1516	Orange	;	16		M 5	6	69.0	17.0	30	26	100
33980.W1520	Orange	è	20		M 5	6	69.0	17.0	30	26	100
33980.W2308	Black		8		M 4	6	48.5	23.5	22	17	50
33980.W2310	Black		10		M 4	6	48.5	23.5	22	17	50
33980.W2312	Black		12		M 4	6	48.5	23.5	22	17	21
33980.W2314	Black		14		M 4	6	48.5	23.5	22	17	21
33980.W2512	Black		12		M 5	6	69.0	17.0	30	26	100
33980.W2515	Black		15		M 5	6	69.0	17.0	30	26	100
33980.W2516	Black		16		M 5	6	69.0	17.0	30	26	100
33980.W2520	Black		20		M 5	6	69.0	17.0	30	26	34
								u a constata da la setatora		A 11	talla a ta conce
Order Ne	h						A	Nm	g torque	Allowable SI	iaing torque
Order No.	115	vv ₁	w ₂	w ₃	vv ₄	w ₅	vv 6	max		m	ax.
22000 W1200	155	01	26	140	20	1 5		2			20
33980.W1308	15.5	21	36	14.0	20	15	25	3		4(00
33980.W1310	15.5	21	36	14.0	20	15	25	3		4(00
33980.W1312	15.5	21	36	14.0	20	15	20	4		40	00
33980.W1314	15.5	21	36	14.0	20	15	20	4		40	00
22200.001215	15.5	34	51	12.5	20	15	25	5		50	JU



33980.W1515

15.5



12.5

12.5

12.5

14.0

14.0

14.0

14.0

12.5

sales@wixroyd.com

Sliding Clamps - for Solid Round Bar quarter turn lock- l-handle grip - polyamide



Order No.	h ₅	w_1	w ₂	w ₃	w ₄	w ₅	w ₆	Allowable holding torque Nm max.	Allowable sliding torque Nm max.
33980.W2515	15.5	34	51	12.5	20	15	25	5	500
33980.W2516	15.5	34	51	12.5	20	15	25	6	500
33980.W2520	15.5	34	51	12.5	20	15	25	6	500

One Touch

Fasteners





overview



Operating Principle

- One-touch spindle locks enable quick and secure locking of shafts with one click of the knob.
- When one-touch spindle lock is operated, the knob clicks and the shaft is locked with a
- steady force. This provides reliable locking of shafts.
- The knob position and the indication line clearly indicate lock/unlock position.



Operating Instructions



Load Ratings

For shaft Ø h ₇	d ₂	Max. holding torque Nm	Max. axial Ioad N
8	M4	3	400
10	M4	3	400
12	M4	4	400
14	M4	4	400
12	M5	5	500
15	M5	5	500
16	M5	6	500
20	M5	6	500

Notes

- This product cannot be used as bearings or guides for shafts.
- Shafts may slip in environments where shocks or vibrations are present.



The allowable holding torque and the allowable sliding load may decrease with adhesion of particles or immersion in oil.

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One-Touch Locking Knobs with safety indicator Real



Material

Grip: reinforced polyamide, black or orange.

Central boss: reinforced polyamide, blue. Base indicator: reinforced polyamide, red. Pointer palte: stainless steel A2. Supplied with screws.

Technical Notes

One- touch locking knob enables onetouch locking and unlocking of spindle. One-Touch locking knob has an audible click to indicate locking and unlocking. Additionally the high visibility red colour of the base indicator is exposed to signify when knob is unlocked (when locked the red indicator is concealed).

Important Notes

* Safety factor of 5. Pointer plate sold separately.

Order No.	d_1	d ₂	d ₃	d ₄	d ₅	d ₆ -0.2	I_1	I_2	I ₃	I_4	۱ ₅	Weight g
33981.W4008	40	9.5	5.5	8	34	11	44	38	32	25	5	95
33981.W4010	40	9.5	5.5	10	34	11	44	38	32	25	5	90
33981.W4108	40	9.5	5.5	8	34	11	44	38	32	25	5	95
33981.W4110	40	9.5	5.5	10	34	11	44	38	32	25	5	90
33981.W0040	40	9.5	5.5	-	34	11	44	38	32	25	5	21

Order No.	I ₆	۱ ₇	I ₈	l ₉	w_1	w ₂	t ₁	Туре	Locking teeth	Spindle depth	Holding force kgf	Moment Mz in lock position Nm max.
33981.W4008	13	14.5	7.5	7	10	7	0.3	Black Knob	50 (7,2°)	25	70	28
33981.W4010	13	14.5	7.5	7	10	7	0.3	Black Knob	50 (7,2°)	25	70	28
33981.W4108	13	14.5	7.5	7	10	7	0.3	Orange Knob	50 (7,2°)	25	70	28
33981.W4110	13	14.5	7.5	7	10	7	0.3	Orange Knob	50 (7,2°)	25	70	28
33981.W0040	13	14.5	7.5	7	10	7	0.3	Pointer Plate	50 (7,2°)	25	70	28





One-Touch Locking Knobs with safety indicator









One-Touch Locking Knobs

installation



How to Install



Rack and Pinion Application

*Prepare clearance of 13mm or more from the end of the required spindle stroke.

**Recommended surface roughness is 1.6 for the innner surface of the slotted hole.



Lead Screw Application

d1 to suit spindle	
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Size	\mathbf{d}_{1}
33981.W4008 / W4108	9
33981.W4010 / W4110	11
33981.W4010 / W4110	11





Mounting Spindle Dimension





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One-Touch Locking Knobs

operation



Operation



Clear Safety Indicator of Locked / Unlocked Position



Holding Forces



