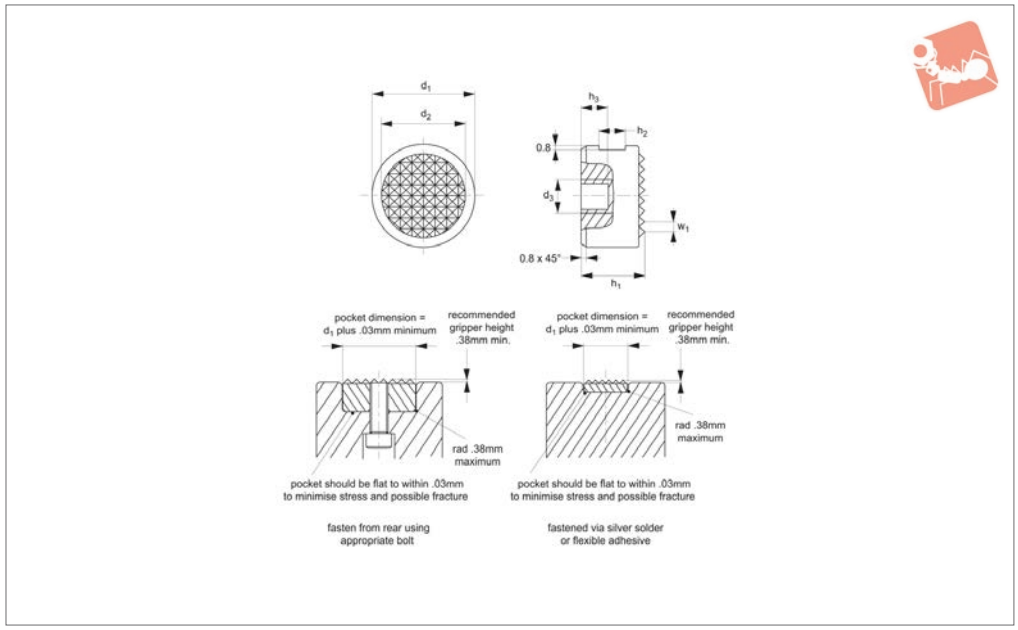
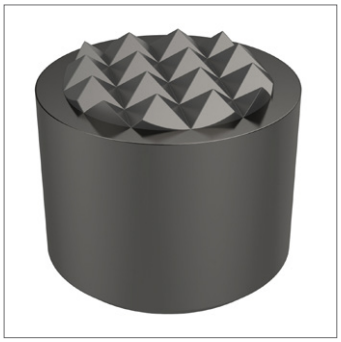




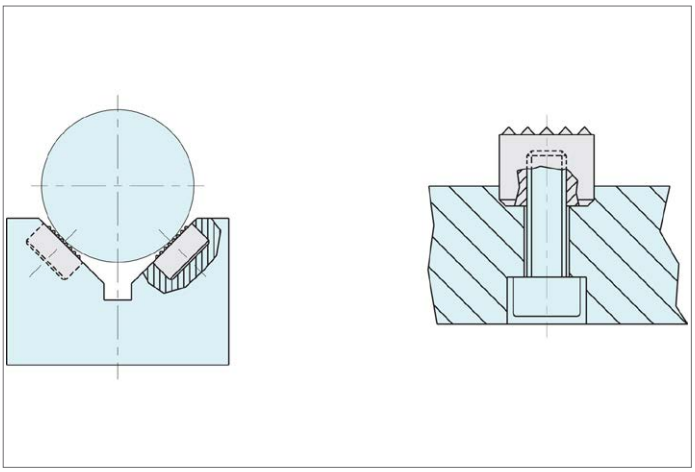
35330

Material
Solid carbide tipped grippers, in steel body.

Technical Notes
These carbide tipped gripping pads press down onto the surface of the components to give safe holding without distortion. Especially suitable in chucks, vices and robotic grippers for extra grip.

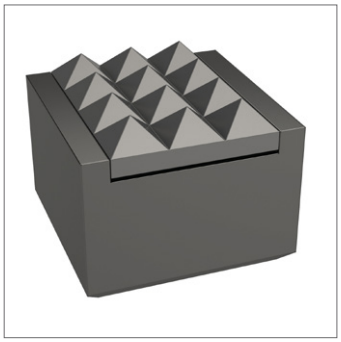
Tips
Can be fastened via use of set screw from side to flat on gripper, or from rear using appropriate bolt of thread d_2. Note installation recommendations in technical diagram.

Order No.	Tooth pattern	d_1 +0.00|-0.13	h_1 +0.00|-0.13	h_2	h_3	d_2	d_3	w_1
35330.W0001	Extra Fine	10	10	4.5	4.8	7.9	M 5x0,8	2,4x90°
35330.W0002	Extra Fine	10	12	6.0	4.8	7.9	M 5x0,8	2,4x90°
35330.W0003	Fine	12	10	4.5	4.8	9.5	M 5x0,8	3,2x90°
35330.W0004	Fine	12	12	6.0	4.8	9.5	M 5x0,8	3,2x90°
35330.W0005	Fine	16	10	4.5	4.8	12.7	M 6x1,0	3,2x90°
35330.W0006	Fine	16	12	6.0	4.8	12.7	M 6x1,0	3,2x90°
35330.W0007	Fine	20	10	4.5	4.8	15.9	M 6x1,0	3,2x90°
35330.W0008	Fine	20	12	6.0	4.8	15.9	M 6x1,0	3,2x90°
35330.W0009	Fine	25	10	4.5	4.8	19.1	M 6x1,0	3,2x90°
35330.W0010	Fine	25	12	6.0	4.8	19.1	M 6x1,0	3,2x90°

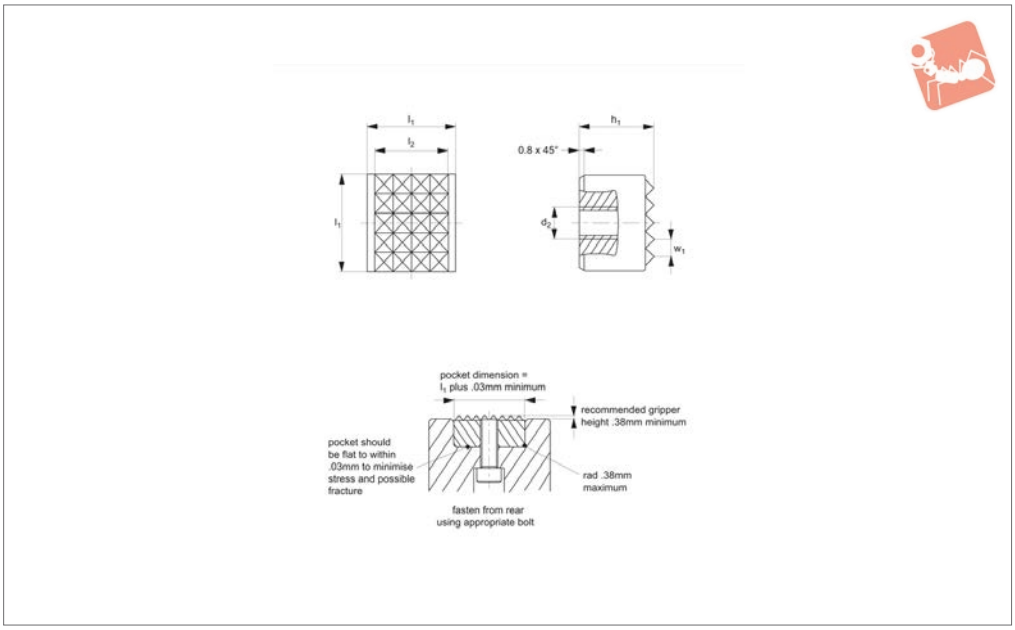


Grippers - Carbide Tipped

steel body - square - rear fixing



35340



Material

Solid carbide tipped grippers, in steel body.

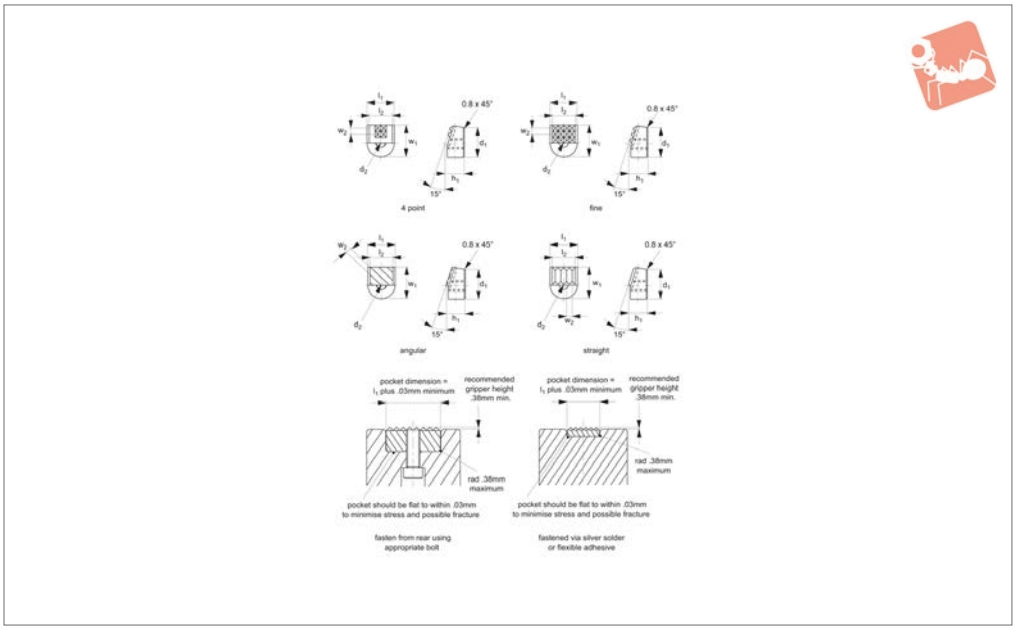
Technical Notes

These carbide tipped gripping pads press down onto the surface of the component to give safe holding without distortion. Especially suitable in chucks, vices and robotic grippers for extra grip.

Tips

Can be fastened from rear using appropriate bolt. Note installation recommendations in technical diagram.

Order No.	Tooth pattern	l_1	l_2	h_1	d_2	w_1
35340.W0001	Fine	12.0	10.32	10.00	M 5x0,8	3,175x90°
35340.W0002	Fine	12.0	10.32	12.00	M 5x0,8	3,175x90°
35340.W0003	Ex-fine	12.7	10.32	9.53	M 6x1,0	2,387x90°



35350

Material
Steel, heat-treated with brazed on carbide pad.

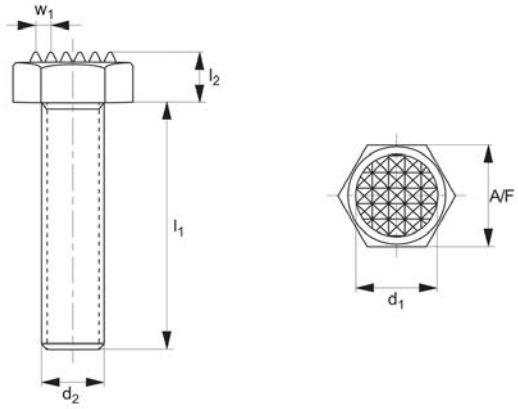
Technical Notes
Also available with imperial threads on request. These angle gripper inserts press down on the surface of the clamped work-piece to give safe holding without distortion. They can be built into clamps, stops and fixtures, as well as chucks, vices and robotic grippers for extra grip.

Tips
Can be fastened from rear using appropriate bolt. Note installation recommendations in technical diagram.

Order No.	Tooth pattern	d_1	l_1 +0.000|-0.002	l_2	h_1 +0.000|-0.005	d_2	w_1 +0.000|-0.010	w_2
35350.W0001	4 Point	15	14.29	11.9	9.5	M 5x0,8	16.5	3,4x90°
35350.W0002	Fine	15	14.29	11.9	9.5	M 5x0,8	16.5	2,9x90°
35350.W0003	Straight	15	14.29	11.9	9.5	M 5x0,8	16.5	2,9x90°
35350.W0004	Angular	15	14.29	11.9	9.5	M 5x0,8	16.5	2,9x90°

Grippers - Carbide Tipped
threaded bolt

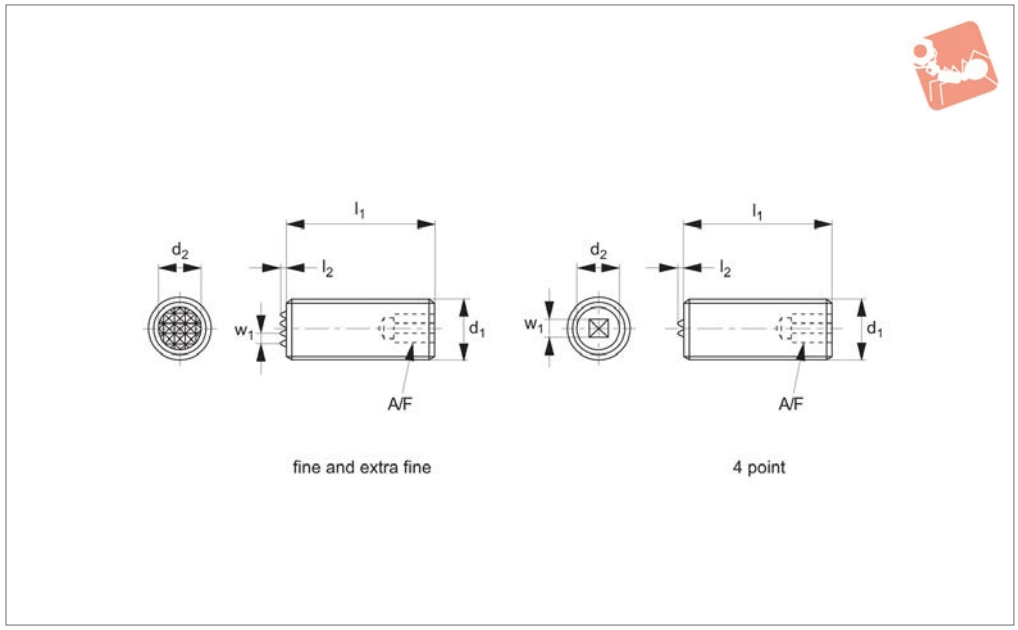
35400

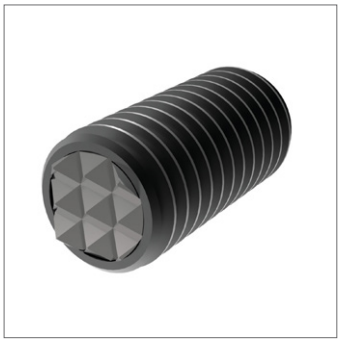


Material
Hex headed steel bolt with solid carbide tipped insert.

Technical Notes
Adjustable carbide tipped grippers are used in jigs and fixtures, modular fixtures and tooling. They are especially suitable for holding castings and other components. Adjustment can be made within the thread length. Use a DIN 439B hex. nut for adjustment and securing.

Order No.	Tooth pattern	d_1	l_1	l_2	d_2	w_1	A/F
35400.W0001	Ex-fine	7.94	12	5.0	M 6x1,00	2,387x90°	10
35400.W0002	Ex-fine	7.94	25	5.0	M 6x1,00	2,387x90°	10
35400.W0003	Fine	9.53	12	6.4	M 8x1,25	3,175x90°	13
35400.W0004	Fine	9.53	25	6.4	M 8x1,25	3,175x90°	13
35400.W0005	Fine	9.53	35	6.4	M 8x1,25	3,175x90°	13
35400.W0006	Fine	12.70	12	7.5	M10x1,50	3,175x90°	17
35400.W0007	Fine	12.70	25	7.5	M10x1,50	3,175x90°	17
35400.W0008	Fine	12.70	40	7.5	M10x1,50	3,175x90°	17
35400.W0009	Fine	15.88	25	8.7	M12x1,75	3,175x90°	19
35400.W0010	Fine	15.88	40	8.7	M12x1,75	3,175x90°	19
35400.W0011	Fine	19.05	35	11.0	M16x2,00	3,175x90°	24
35400.W0012	Fine	19.05	50	11.0	M16x2,00	3,175x90°	24
35400.W0013	Ex-fine	25.40	40	13.7	M20x2,50	2,387x90°	30
35400.W0014	Ex-fine	25.40	60	13.7	M20x2,50	2,387x90°	30





35410

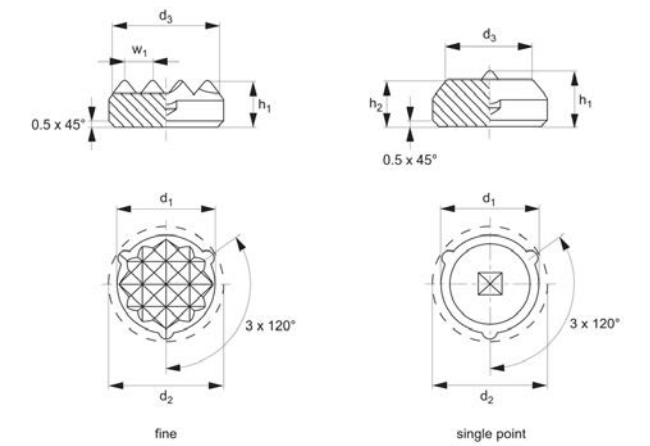
Material
Steel set screw with hex socket and solid carbide tipped insert.

Technical Notes
Adjustable carbide tipped grippers are used in jigs and fixtures, modular fixtures and tooling. They are especially suitable for holding castings and other components. Adjustment can be made by using the hex key in socket, and can be adjusted within the thread length. Use a DIN 439B hex nut for adjustment and securing.

Order No.	Tooth pattern	d_1	l_1	l_2	d_2	w_1	A/F
35410.W0001	Extra Fine	M10x1,5	25	1.3	6.4	2,4x90°	5
35410.W0002	Extra Fine	M10x1,5	50	1.3	6.4	2,4x90°	5
35410.W0004	Extra Fine	M12x1,75	25	1.3	7.9	2,4x90°	6
35410.W0006	Extra Fine	M12x1,75	50	1.3	7.9	2,4x90°	6
35410.W0014	Extra Fine	M20x2,5	50	1.3	12.7	2,4x90°	10
35410.W0008	Fine	M16x2,0	25	1.3	11.1	3,2x90°	8
35410.W0010	Fine	M16x2,0	50	1.3	11.1	3,2x90°	8
35410.W0012	Fine	M20x2,5	25	1.3	12.7	3,2x90°	10
35410.W0003	4 Point	M12x1,75	25	1.3	7.9	3,9x90°	6
35410.W0005	4 Point	M12x1,75	50	1.3	7.9	3,9x90°	6
35410.W0007	4 Point	M16x2,0	25	1.3	11.1	3,9x90°	8
35410.W0009	4 Point	M16x2,0	50	1.3	11.1	3,9x90°	8
35410.W0011	4 Point	M20x2,5	25	1.3	12.7	3,9x90°	10
35410.W0013	4 Point	M20x2,5	50	1.3	12.7	3,9x90°	10

Gripping Pads - Hard Tool Steel
round

35440

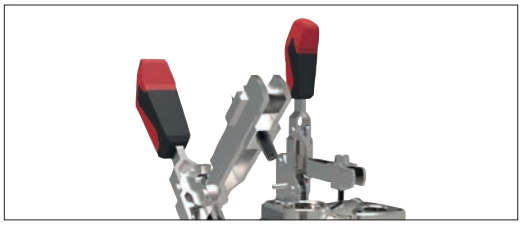


Material
Hard metal ribbed, hard metal pointed, 60 HRc.

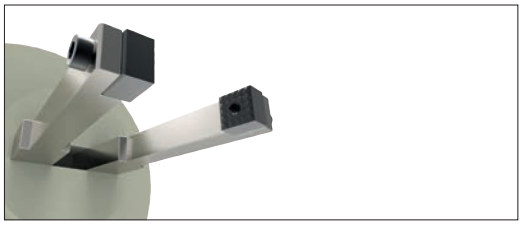
Technical Notes
d_1 - for use when press-fitting into softer metals such as aluminium. The three protrusions ensure centering of insert.
d_2 - for use when gluing or soldering in place.

Tips
Can be integrated into fixtures, clamping jaws etc., to provide an abrasion-proof transmission of high holding forces on cast or forged workpieces.

Order No.	Tooth pattern	d_1 ±0.1	h_1	h_2	d_2 ±0.2	d_3 ≈	w_1	Weight g
35440.W0608	Fine	8.3	5.0	-	9.1	7.7	2	3
35440.W0611	Fine	11.3	5.0	-	12.1	10.6	2	6
35440.W0613	Fine	12.6	5.0	-	13.4	11.9	3	7
35440.W0615	Fine	$16{,}6^{\pm,15}$	5.0	-	17.4	16.0	3	12
35440.W0617	Fine	$21{,}6^{\pm,15}$	5.0	-	22.4	21.0	3	20
35440.W0628	Single Point	8.3	5.8	5	9.1	6.3	-	3
35440.W0631	Single Point	11.3	5.8	5	12.1	9.3	-	7
35440.W0633	Single Point	12.6	5.8	5	13.4	10.0	-	8



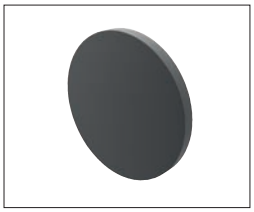
Grippers enhance workholding for multiple machining operations.



Grippers increase handling capability.

Pads and Gripper Options

Pads

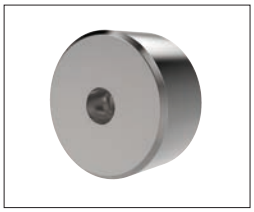


Solid Carbide

High impact carbide pads, can be brazed or bonded into place.

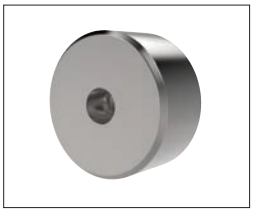
Carbide Tipped

Constructed with high impact carbide pad brazed to a heat treated alloy steel body. Mount via tapped hole or a flat on the outside diameter for set screw mounting.



Hardened Steel

Made from 8620 steel, carburized and hardened to Rc 58/60 1.2mm with black oxide finish. Mount via tapped or counter bored hole.

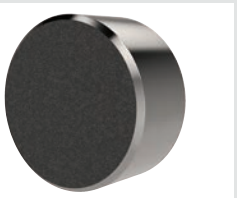


Non-marking Thermoplast

Made from white thermoplast. Mount via tapped or counter bored hole.

Stainless Steel

Pad from 17-4 stainless steel, hardened to Rc 43/46. Mount via tapped or counter bored hole.



Abrasive Diamond Surface

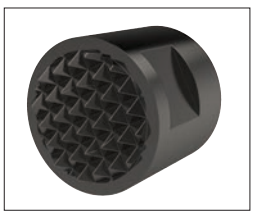
Abrasive surface permanently fused to a 17-4 stainless steel pad, hardened to Rc 43/46. The surface texture is comparable to a 100 grit abrasive. Mount via tapped or counter bored hole.

Soft Urethane Surface

Urethane surface is permanently bonded to a 300 series stainless steel pad. The urethane provides excellent protection against damage on delicate work surfaces. Tapped hole mounting.

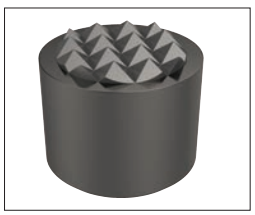
see our website for our full range:
wixroyd.com

Grippers



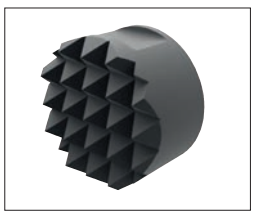
High Speed Tool Steel

Manufactured from M-2 high speed tool steel, hardened to Rc 60/62 with black oxide finish. Mount via tapped hole, counter bored hole or a flat on the outside diameter for set screw mounting.



Carbide Tipped

Constructed with high impact carbide pad brazed to a heat treated alloy steel body. Mounts via tapped hole or a flat on the outside diameter for set screw mounting.



Solid Carbide

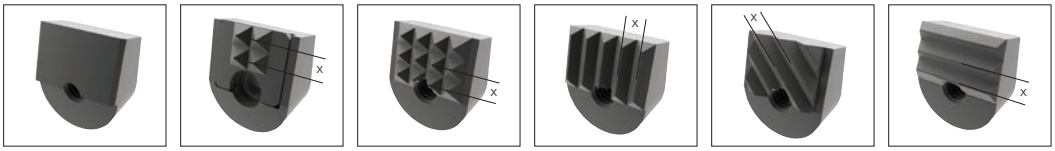
Manufactured from high impact carbide in a solid gripper pad or as a solid gripper body with a threaded brazed-in steel insert. Mount via tapped hole or a flat on the outside diameter for set screw mounting.

Carbide & Hardened Steel Grippers & Inserts
technical information

Tooth Pattern Specifications

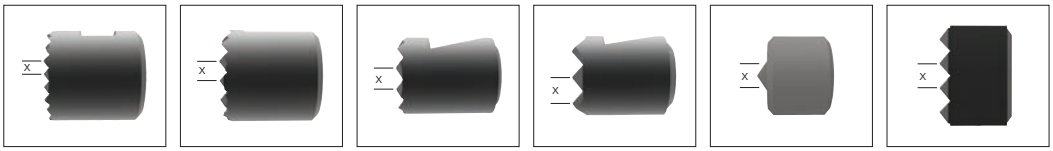
Angular Grippers

Our carbide and hardened steel grippers are available with a variety of tooth patterns, as specified on the product data tables.



Smooth	4 Point x = 3.429 x 90°	Fine x = 2.921 x 90°	Straight x = 2.921 x 90°	Angular straight x = 2.921 x 90°	3 Point/90° straight x = 3.175 x 90°

Round/Square Grippers



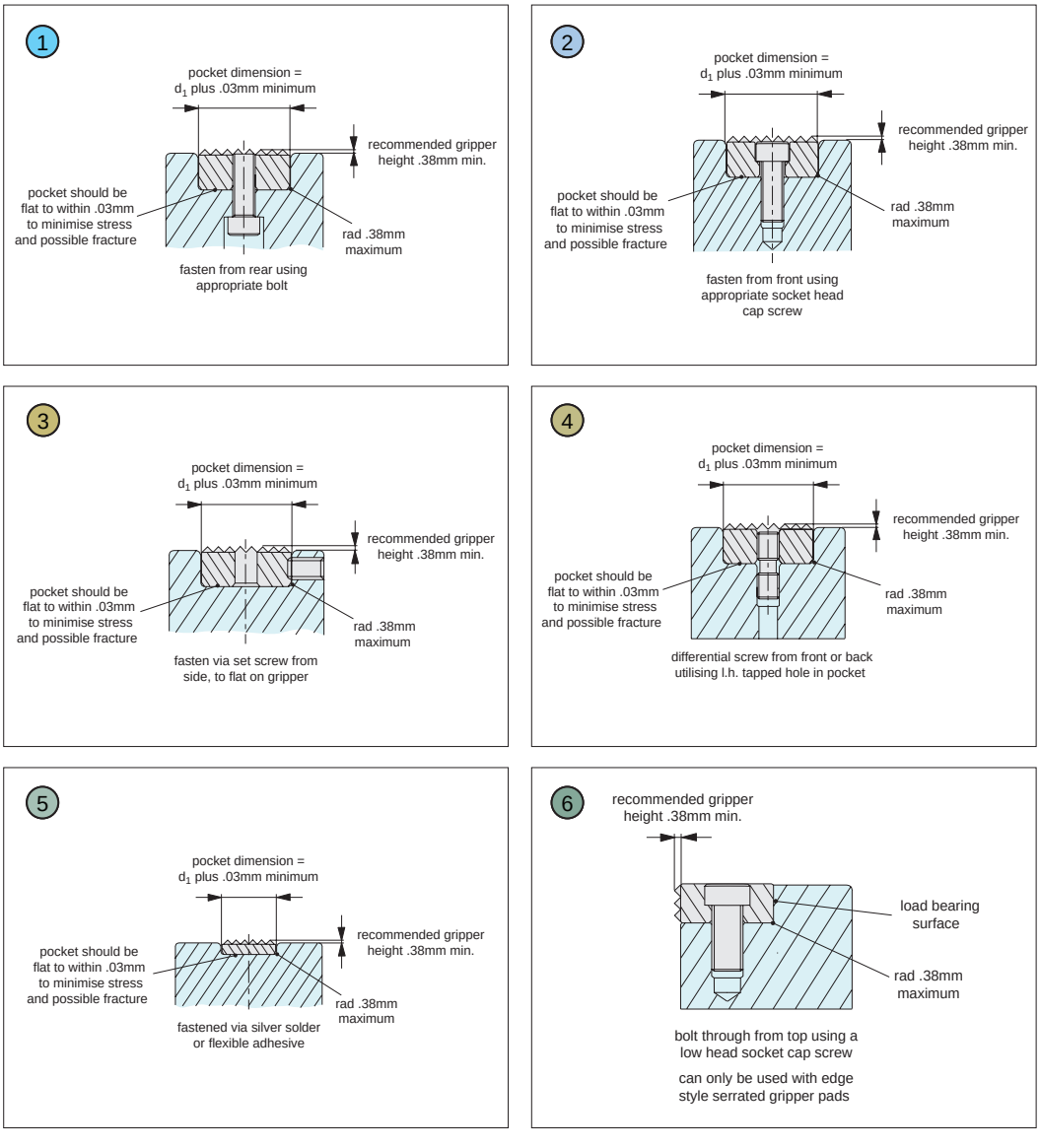
Super Fine “SF” x = 1.600 x 90°	Extra Fine “EF” x = 2.387 x 90°	Fine x = 3.175 x 90°	Coarse x = 4.775 x 90°	Single point x = 5.461 x 90°	4 Point square x = 3.962 x 90°

Mounting options

Mounting Options for Carbide and Hardened Steel Grippers and Inserts.

Our carbide grippers and inserts can be installed in a number of different ways, the most suitable mounting method depends upon the specific insert – please refer to the product data table for specific information.

1. Round or square grippers and rest pads with tapped blind-hole or through hole tap.
2. Round or square grippers and rest pads with counter-bored hole.
3. Round grippers with flat on the O.D. for set screw mounting. Also square gripper mounting.
4. Round or square grippers with through tapped hole.
5. Round or square carbide pads.
6. Counter-bored edge grippers.



Wixroyd AN ESSENTRA COMPANY

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A Range of Specialist Gripping Pads to Suit Your Application

Urethane Coated

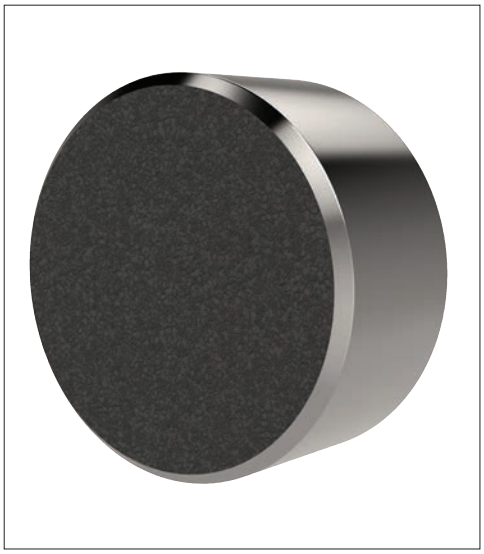
Unique urethane coat prevents marking of delicate components during machining or manipulation by robots. The urethane pad is permanently bonded to the stainless steel body of the gripping pad. With a bubbled texture, air is able to escape and hence avoid any suction action - enabling easy releasing of parts.

These are available in three different urethane durometers.

35 durometer: Pencil rubber top

60 durometer: Car tyre

80 durometer: Skateboard wheel

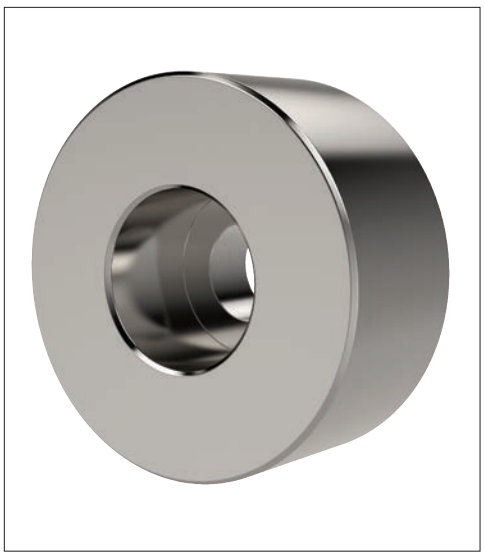


Abrasive Diamond Coated

To improve handling of smooth or slippery components, with a minimum of clamping pressure, our abrasive diamond coated pads provide an excellent solution.

Diamond powders are permanently fused to a 17-4 stainless pad, to provide an abrasive surface comparable to 100 grit value.

Sandpaper of 100 grit texture



Stainless Pads

Pads of 17-4 Stainless, hardened to RC 43/46 provide solutions to applications where material selection is of greater importance; for example nuclear or food processing or pharmaceutical applications.