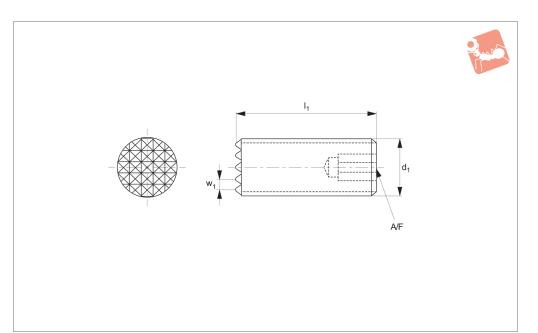


Grippers - Hard Tool Steel

set screw



35510



Material

Hardened tool steel to HRc 55-58, black oxide finish.

Technical Notes

These hardened tool steel gripping pads

press down on to the surface of the clamped workpiece for safe holding without distortion. They are especially suitable where high load or clamping force is applied. Can be built into clamps, stops and fixtures as well as chucks, vices and robotic grippers for extra grip. Use a DIN 439B hex. nut for adjustment and securing.

Order No.	Tooth pattern	I_1	d_1	w_1	A/F
35510.W0001	Extra Fine	40	M10x1,50	2,4x90°	3
35510.W0002	Fine	25	M12x1,75	3,2x90°	5
35510.W0003	Fine	40	M12x1,75	3,2x90°	5
35510.W0004	Fine	40	M16x2,00	3,2x90°	6
35510.W0005	Fine	40	M20x2,50	3,2x90°	8



35300 - 35980 Positioning Elements

Carbide & Hardened Steel Grippers & Inserts





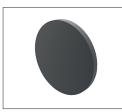
Grippers enhance workholding for multiple machining operations.



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.



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

Non-marking



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

Stainless Steel



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



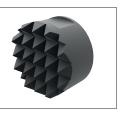
High Speed Tool Steel

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



Smooth 4 Point $x = 3.429 \times 90^{\circ}$



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°

Angular Grippers

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



Super Fine "SF" Extra Fine "EF" x = 1.600 x 90° x = 2.387 x 90°



Fine x = 3.175 x 90°



Coarse x = 4.775 x 90°



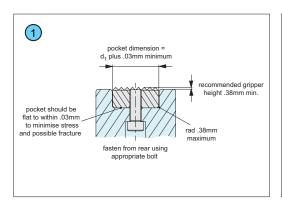
Single point $x = 5.461 \times 90^{\circ}$

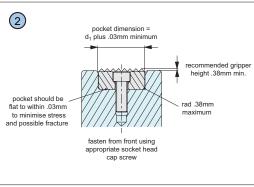


4 Point square x = 3.962 x 90°

Round/Square Grippers

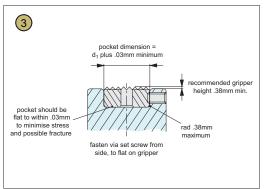
Mounting options





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.

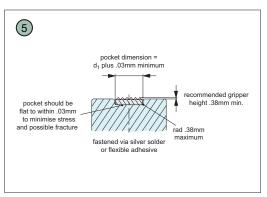


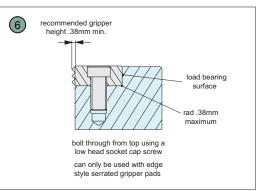
- pocket dimension =
 d₁ plus .03mm minimum

 recommended gripper
 height .38mm min.

 rad .38mm
 maximum

 differential screw from front or back
 utilising l.h. tapped hole in pocket
- Round or square grippers and rest pads with tapped blind-hole or through hole tap.
- Round or square grippers and rest pads with counter-bored hole.
- Round grippers with flat on the O.D. for set screw mounting. Also square gripper mounting.
- Round or square grippers with through tapped hole.
- Round or square carbide pads.
- 6 Counter-bored edge grippers.







ov-W35300-A-T-W35520-A-T-technical-information-a-rnh - Updated - 28-10-2022





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

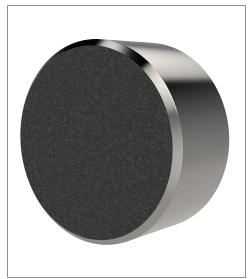


60 durometer: Car tyre



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.

