

REPLACEABLE PAD OVERVIEW

Rest Pads & Gripper Pads



Solid Carbide

High impact carbide pads. Can be brazed or bonded into place.



Carbide Tipped

Constructed with a high impact carbide pad brazed to a heat treated alloy steel body. Mounts with 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 .050" case with black oxide finish. Mounts with tapped or counter bored hole.



Non-Marring Delrin

Manufactured from white Delrin.

Mounts with counter bored or tapped hole



Stainless Steel

The pad is made from 17-4 stainless steel, hardened to Rc 43/46. Mounts with tapped or counter bored hole.



Abrasive Diamond Surface

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



Sof-Top™ Urethane Surface

The urethane surface is permanently bonded to a 300 series stainless steel pad. The urethane provides excellent protection against damage on delicate work surfaces. They are available in three durometers. Tapped hole mounting.

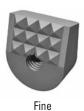
TOOTH PATTERN SPECIFICATIONS

Throughout this catalog, you will find reference to tooth patterns on all serrated grippers. Please use the chart below for specific information regarding these tooth patterns. If additional information is required, please contact us.

Angle Grippers









Straight

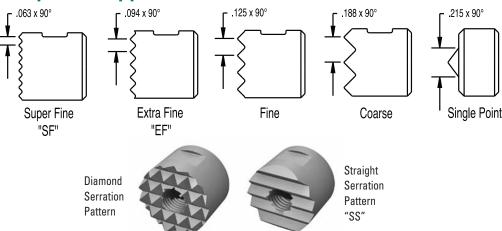




Angular Straight

3 Point / 90° Straight

Round and Square Grippers





REPLACEABLE PAD OVERVIEW

Serrated Gripper Pads



High Speed Tool Steel

Round, square, edge, and angle grippers manufactured from M-2 high speed tool steel, hardened to Rc 60/62 with black oxide finish. Mounts with tapped hole, counter bored hole or a flat on the outside diameter for set screw mounting.



Carbide Tipped

Round, square, and angle grippers constructed with a high impact carbide pad brazed to a heat treated alloy steel body. Mounts with tapped hole or a flat on the outside diameter for set screw mounting.



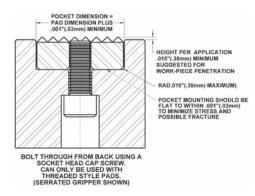
Solid Carbide

Round and square grippers manufactured from high impact carbide in a solid gripper pad or as a solid gripper body with a threaded brazed-in steel insert. Mounts with tapped hole or a flat on the outside diameter for set screw mounting.

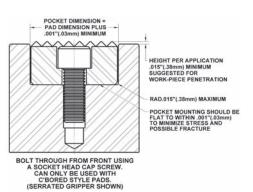
GRIPPER PAD AND REST PAD MOUNTING APPLICATIONS AND SPECIFICATIONS

Below are some of the more common mounting applications for fixed grippers, rest pads and carbide pads shown in this catalog.

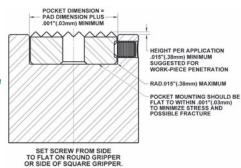
Round or square grippers and rest pads with tapped blind-hole or through hole tap.



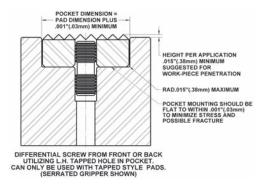
Round or square grippers and rest pads with counterbored hole.



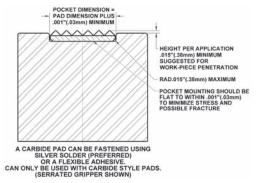
Round grippers with flat on the O.D. for set screw mounting, or square gripper.



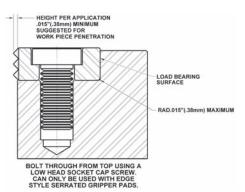
Round or square grippers with through tapped hole.



Round or square carbide pads.



Counter-bored edge grippers.

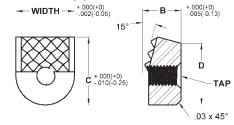




FIXED GRIPPERS

Angled Style | Tool Steel | Tapped | Inch & Metric





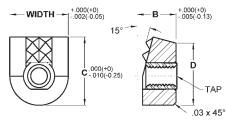
Made from M-2 high speed steel. Hardened to Rc 60/62 with black oxide finish. Serrated and smooth styles available. Grippers are angled at 15 degrees to fit Woodworth, Maxi-Grip, and Ultra-Grip rocker style chucks. Thru-hole tap. See page 90 for tooth pattern specifications.

INCH					
Part#	В	C	D	Tooth Pattern	
9/16" Width - #10-32	? Tap				
HS-110	3/8	.65	.60	Smooth	
HS-127-4	3/8	.65	.60	4 Point	
HS-127-12	3/8	.65	.60	Fine	
HS-130-4	3/8	.65	.60	Straight	
HS-145-5	3/8	.65	.60	Angular	
HS-150-3	3/8	.65	.60	3 Point/90°ST	
9/16" Width - M5x0.	8 Tap				
MHS-110	3/8	.65	.60	Smooth	
MHS-127-4	3/8	.65	.60	4 Point	
MHS-127-12	3/8	.65	.60	Fine	
MHS-130-4	3/8	.65	.60	Straight	
MHS-145-5	3/8	.65	.60	Angular	
MHS-150-3	3/8	.65	.60	3 Point/90°ST	
3/4" Width - 1/4-28 T	Гар				
HS-128-4	1/2	.88	.81	4 Point	
HS-128-22	1/2	.88	.81	Fine	
HS-158-3	1/2	.88	.81	3 Point/90°ST	

METRIC						
				Tooth		
Part #	В	С	D	Pattern		
10mm Width - #10-32 Tap						
HS-110-10MM	3/8	.65	.60	Smooth		
HS-127-4-10MM	3/8	.65	.60	4 Point		
HS-130-4-10MM	3/8	.65	.60	Straight		
HS-145-5-10MM	3/8	.65	.60	Angular		
HS-150-3-10MM	3/8	.65	.60	3 Point/90°ST		
10mm Width - M5x0.8	3 Tap					
MHS-110-10MM	3/8	.65	.60	Smooth		
MHS-127-4-10MM	3/8	.65	.60	4 Point		
MHS-130-4-10MM	3/8	.65	.60	Straight		
MHS-145-5-10MM	3/8	.65	.60	Angular		
MHS-150-3-10MM	3/8	.65	.60	3 Point/90°ST		

Angled Style | Solid Carbide | Tapped | Inch & Metric





Made from solid carbide for high wear and high load applications. Serrated for positive holding in tough applications. Grippers are angled at 15 degrees to fit Woodworth, Maxi-Grip, and Ultra-Grip rocker style chucks. Thru-hole tap. See page 90 for tooth pattern specifications.

INCH					
Part#	В	C	D	Tooth Pattern	
9/16" Width - #10-3	2 Tap				
FSC-127-4	3/8	.65	.60	4 Point	
FSC-127-10	3/8	.65	.60	Fine	
FSC-130-4	3/8	.65	.60	Straight	
FSC-145-5	3/8	.65	.60	Angular	
9/16" Width - M5x0	.8 Tap				
MFSC-127-4	3/8	.65	.60	4 Point	
MFSC-127-10	3/8	.65	.60	Fine	
MFSC-130-4	3/8	.65	.60	Straight	
MFSC-145-5	3/8	.65	.60	Angular	

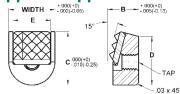
METRIC							
Part#	В	С	D	Tooth Pattern			
10mm Width - #10-32			<u> </u>	rattern			
FSC-127-4-10MM	3/8	.65	.60	4 Point			
FSC-130-2-10MM	3/8	.65	.60	Straight			
10mm Width - M5x0.	8 Tap						
MFSC-127-4-10MM	3/8	.65	.60	4 Point			
MFSC-130-2-10MM	3/8	.65	.60	Straight			



FIXED GRIPPERS

Angled Style | Carbide Tipped | Tapped | Inch & Metric





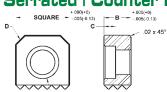
Constructed with a serrated carbide gripper pad brazed to a heat treated alloy steel body. Serrated for positive holding in tough applications. Grippers are angled at 15 degrees to fit Woodworth, Maxi-Grip, and Ultra-Grip rocker style chucks. Thru-hole tap. See page 90 for tooth pattern specifications.

INCH						
Part#	В	C	D	E	Tooth Pattern	
9/16" Width -	#10-32 Ta	р				
CT-127-4	3/8	.65	.60	15/32	4 Point	
CT-127-12	3/8	.65	.60	15/32	Fine	
CT-130-4	3/8	.65	.60	15/32	Straight	
CT-145-5	3/8	.65	.60	15/32	Angular	

INCH WITH METRIC THREADS							
Part#	В	С	D	E	Tooth Pattern		
9/16" Width - I	VI5x0.8 T	ар					
MCT-127-4	3/8	.65	.60	15/32	4 Point		
MCT-127-12	3/8	.65	.60	15/32	Fine		
MCT-130-4	3/8	.65	.60	15/32	Straight		
MCT-145-5	3/8	.65	.60	15/32	Angular		

Edge Style | Tool Steel | Serrated | Counter Bored | Inch & Metric





Made from M-2 high speed steel. Hardened to Rc 60/62 with black oxide finish. Square edge grippers have serrations on one side. Counter bored hole for front mounting with a socket head or low head cap screw. See page 90 for tooth pattern specifications. See page 91 for mounting specifications.

INCH				
	В	C	D	Tooth
Part #	Height	C'Bore Depth	Chamfer	Pattern
3/8" Square -	Counter Bo	red for #6 SHCS		
HSE-902	1/4	.146	1/16 x 45°	EF
HSE-902-SF	1/4	.146	1/16 x 45°	SF
HSE-903	3/8	.146	1/16 x 45°	EF
HSE-903-SF	3/8	.146	1/16 x 45°	SF
HSE-905	1/2	.146	1/16 x 45°	EF
HSE-905-SF	1/2	.146	1/16 x 45°	SF
1/2" Square -	Counter Bo	red for #8 SHCS		
HSE-952	1/4	.170	3/32 x 45°	Fine
HSE-952-EF	1/4	.170	3/32 x 45°	EF
HSE-952-SF	1/4	.170	3/32 x 45°	SF
HSE-953	3/8	.175	3/32 x 45°	Fine
HSE-953-EF	3/8	.175	3/32 x 45°	EF
HSE-953-SF	3/8	.175	3/32 x 45°	SF
HSE-955	1/2	.175	3/32 x 45°	Fine
HSE-955-EF	1/2	.175	3/32 x 45°	EF
HSE-955-SF	1/2	.175	3/32 x 45°	SF

Part#	B Height	C C'Bore Depth	D Chamfer	Tooth Pattern	
		red for 1/4" LHCS			
HSE-962	1/4	.130	1/8 x 45°	Fine	
HSE-962-EF	1/4	.130	1/8 x 45°	EF	
HSE-963	3/8	.130	1/8 x 45°	Fine	
HSE-963-EF	3/8	.130	1/8 x 45°	EF	
HSE-965	1/2	.130	1/8 x 45°	Fine	
HSE-965-EF	1/2	.130	1/8 x 45°	EF	
3/4" Square -	Counter Bo	red for 5/16" LHC	S		
HSE-972	1/4	.161	1/8 x 45°	Fine	
HSE-972-EF	1/4	.161	1/8 x 45°	EF	
HSE-973	3/8	.161	1/8 x 45°	Fine	
HSE-973-EF	3/8	.161	1/8 x 45°	EF	
HSE-975	1/2	.161	1/8 x 45°	Fine	
HSE-975-EF	1/2	.161	1/8 x 45°	EF	
1" Square - C	ounter Bor	ed for 3/8" LHCS			
HSE-102	1/4	.194	1/8 x 45°	Fine	
HSE-102-EF	1/4	.194	1/8 x 45°	EF	
HSE-103	3/8	.194	1/8 x 45°	Fine	
HSE-103-EF	3/8	.194	1/8 x 45°	EF	
HSE-105	1/2	.194	1/8 x 45°	Fine	
HSE-105-EF	1/2	.194	1/8 x 45°	EF	

В	С	D	Tooth	
Height	C'Bore Depth	Chamfer	Pattern	
- Counter	Bored for M3 SH	CS		
6	3.75	1.6 x 45°	EF	
10	3.75	1.6 x 45°	EF	
- Counter	Bored for M4 SH	CS		
6	4.06	2.3 x 45°	Fine	
10	4.06	2.3 x 45°	Fine	
12	4.06	2.3 x 45°	Fine	
	Height - Counter 6 10 - Counter 6 10	Height C'Bore Depth	Height C'Bore Depth Chamfer - Counter Bored for M3 SHCS 6 3.75 1.6 x 45° 10 3.75 1.6 x 45° - Counter Bored for M4 SHCS 6 4.06 2.3 x 45° 10 4.06 2.3 x 45°	Height C'Bore Depth Chamfer Pattern - Counter Bored for M3 SHCS 6 3.75 1.6 x 45° EF 10 3.75 1.6 x 45° EF - Counter Bored for M4 SHCS 6 4.06 2.3 x 45° Fine 10 4.06 2.3 x 45° Fine

Part#	B Height	C C'Bore Depth	D Chamfer	Tooth Pattern				
16mm Square - Counter Bored for M6 LHCS								
MHSE-9166	6	4.2	3.2 x 45°	Fine				
MHSE-9160	10	4.2	3.2 x 45°	Fine				
MHSE-9162	12	4.2	3.2 x 45°	Fine				
20mm Square	- Counter I	Bored for M8 LH(CS					
MHSE-9206	6	5.08	3.2 x 45°	Fine				
MHSE-9200	10	5.08	3.2 x 45°	Fine				
MHSE-9202	12	5.08	3.2 x 45°	Fine				
25mm Square - Counter Bored for M10 LHCS								
MHSE-9250	10	6.6	3.2 x 45°	Fine				
MHSE-9252	12	6.6	3.2 x 45°	Fine				