



CUTTERS



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3 - SLIM MICROSTOP COUNTERSINK

Packs all the features of a standard microstop in a slim design that's only 11/16" in diameter. It's ideal for those narrow areas that can't be reached with a standard microstop. Features bronze bearings. Depth adjustable in 0.001" increments with positive locking collar. Shaft travel is 9/32". Attaches to any drill having a 1/4" chuck. Uses standard 1/4-28 threaded cutters up to 1/2" in diameter, Rated at 3000 RPM.

No. 133-SLIM.....



4 - MINI MICROSTOP COUNTERSINK

Use this microstop in those tight areas that can't be reached by a standard cage. It's only 1-3/8" long, and threads onto any drill with a 1/4-28 threaded shaft. Features bronze bearings. Positive locking collar is adjustable in 0.003" increments with positive locking collar. Uses 1/4-28 threaded cutters up to 5/8" diameter. Shaft travel is 3/32". Rated at 3000 RPM.

No. 133-MINI.....



5 - NARROW EXTENDED MICROSTOP COUNTERSINK

This microstop reaches into very confined areas and the extended reach is great for getting down into narrow channels such as seat tracks. Uses 1/4-28 threaded cutters up to 3/8" diameter. Shaft travel is 1/4". Rated at 3000 RPM. *Note: requires 3/8" dia. cutters.*

No. 133-NX.....



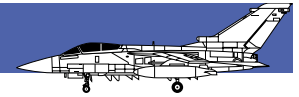
6 - SIOUX RIVET SHAVER & COUNTERSINK CUTTER

Designed so that the skirt face is parallel to the rivet shaver bit or piloted cutter (for countersink cutting), and the spring loaded stabilizer feet permit the operator to feed the cutter to the work piece. Accommodates up to 1/2" cutters. Easily adjustable in increments of 0.001 inches, 21,000 RPM speed at 0.75 hp. Accepts cutters with a 1/4-28 male thread (See our 3000 series rivet shaver cutters in this catalog).

No. SRS10P21-8.....



CUTTERS



1 - PILOT CUTTER

- High Speed Steel.
- 1/2" diameter.
- 1/4 x 28 male thread.
- 100° x 3 cutting flute.



PART NUMBER	PILOT	USE	PRICE
1000-100-40	#40	3/32" rivet	
1000-100-30	#30	1/8" rivet	
1000-100-21	#21	5/32" rivet	
1000-100-12	#12	3/16" rivet	
1000-100-33	#33	#4 AN Screw	
1000-100-28	#28	#6 AN Screw	
1000-100-19	#19	#8 AN Screw	
1000-100-12	#12	#10 AN Screw	

2 - CARBIDE TIPPED CUTTER

Solid carbide tip.

- 1/2" diameter.
- 1/4 x 28 male thread.
- 100° x 2 cutting flutes.



These cutters work exceptionally well on highly abrasive materials such as Kevlar® and other "difficult to machine" materials.

PART NUMBER	PILOT	USE	PRICE
3100-40	#40	3/32" rivet	
3100-30	#30	1/8" rivet	
3100-21	#21	5/32" rivet	
3100-12	#12	3/16" rivet	

3 - RIVET SHAVER BIT

- Solid carbide tip.
- 1/4 x 28 male thread.
- 2 flat cutting flutes.



Part No.	Diameter	Price
3000-5/16	.313	
3000-3/8	.375	
3000-7/16	.438	
3000-1/2	.500	
3000-9/16	.593	
3000-5/8	.625	

4 - DEBURRING BIT

- High Speed Steel.
- 3/8" diameter.
- 1/4 x 28 male thread.
- 100° x 3 cutting flutes.



Ideal for deburring drilled holes. Can be used with angle drills for working in close areas.

No. SP375-1

5 - ZERO FLUTE PILOT CUTTER

- High Speed Steel.
- 1/2" diameter.
- 1/4 x 28 male thread.
- 100° x high-hook flute.



The unique "high-hook" design of zero flute countersinks allow them to cut with virtually no chatter. Fits into any standard microstop.

PART NUMBER	PILOT	USE	PRICE
4100-40	#40	3/32" rivet	
4100-30	#30	1/8" rivet	
4100-21	#21	5/32" rivet	
4100-12	#12	3/16" rivet	

6 - ZERO FLUTE COUNTERSINK

- High Speed Steel.
- 100° x high-hook flute.



The "high-hook" design is a single hole drilled through the head of the cutter, which makes it virtually chatter-free. And since it has no flutes to shift inside the hole, the cutter always stays on center. Fits any drill with a 1/4" chuck.

No. ZFC01 (3/32" to 1/4" dia.).....

No. ZFC02 (1/8" to 27/64" dia.).....

7 - CARBIDE TIPPED REMOVABLE PILOT CUTTER

- Carbide tipped for durability.
- 1/2" diameter.
- 1/4 x 28 male thread.
- 100° x 3 cutting flutes.
- Requires 1500P pilot (shown below).



No. 1500-1/2

8 - REMOVABLE PILOTS

These pilots are used exclusively with the 1500-1/2 cutters (above).



PART NO.	SIZE	PRICE	PART NO.	SIZE	PRICE
1500P-40	#40	\$6.95	1500P-16	#16	
1500P-30	#30	\$6.95	1500P-12	#12	
1500P-27	#27	\$6.95	1500P-10	#10	
1500P-21	#21	\$6.95	1500P-3/16	3/16"	
1500P-18	#18	\$6.95	1500P-1/4	1/4"	

CUTTERS



AT402 Series (100°)

AT403 Series (Flat)

1 - AIRCRAFT COUNTERBORES

Made of High Speed Steel. Requires pilot (see chart below).

PART NUMBER	DIA.	LENGTH	PILOT SHANK	PRICE
4000-1	1/4"	2-3/8"	3/32"	
4000-2	9/32"	2-3/8"	3/32"	
4000-3	5/16"	2-3/8"	3/32"	
4000-4	11/32"	2-3/8"	3/32"	
4000-5	3/8"	2-3/8"	3/32"	
4000-6	13/32"	2-3/4"	1/8"	
4000-7	7/16"	2-3/4"	1/8"	
4000-8	15/32"	2-3/4"	1/8"	
4000-9	1/2"	2-3/4"	1/8"	
4000-10	17/32"	2-3/4"	1/8"	
4000-11	9/16"	2-3/4"	1/8"	
4000-12	19/32"	2-3/4"	1/8"	
4000-13	5/8"	2-3/4"	1/8"	
4000-14	21/32"	2-3/4"	3/16"	
4000-15	11/16"	2-3/4"	3/16"	

2 - COUNTERBORE PILOTS

For use with 4000 series counterbores (above.)



PART NO.	PILOT	SHANK	PRICE
1400P-1A	3/32"	3/32"	
1400P-2A	#40	3/32"	
1400P-3A	1/8"	3/32"	
1400P-3B	1/8"	1/8"	
1400P-4A	#30	3/32"	
1400P-4B	#30	1/8"	
1400P-5A	5/32"	3/32"	
1400P-5B	5/32"	1/8"	
1400P-6A	#21	3/32"	
1400P-6B	#21	1/8"	
1400P-7A	3/16"	3/32"	
1400P-7B	3/16"	1/8"	
1400P-8A	#10	3/32"	
1400P-8B	#10	1/8"	
1400P-9A	7/32"	3/32"	
1400P-9B	7/32"	1/8"	
1400P-10A	1/4"	3/32"	
1400P-10B	1/4"	1/8"	
1400P-11B	9/32"	1/8"	
1400P-11C	9/32"	3/16"	
1400P-12B	5/16"	1/8"	
1400P-12C	5/16"	3/16"	
1400P-13B	3/8"	1/8"	
1400P-13C	3/8"	3/16"	
1400P-14B	13/32"	1/8"	
1400P-14C	13/32"	3/16"	
1400P-15B	7/16"	1/8"	
1400P-15C	7/16"	3/16"	
1400P-16B	15/32"	1/8"	
1400P-16C	15/32"	3/16"	
1400P-17C	1/2"	3/16"	

3 - BAYONET SPOTFACE & COUNTERSINK CUTTERS

Made of High Speed Steel Requires pilot (see chart below).

PART NUMBER	CUTTER	PILOT SIZE	PRICE
AT402-1	AT403-1	1/4"	3/32"
AT402-1B	AT403-1B	1/4"	1/8"
AT402-2	AT403-2	5/16"	1/8"
AT402-2B	AT403-2B	5/16"	5/32"
AT402-3	AT403-3	3/8"	1/8"
AT402-3B	AT403-3B	3/8"	5/32"
AT402-3C	AT403-3C	3/8"	3/16"
AT402-4	AT403-4	7/16"	5/32"
AT402-4B	AT403-4B	7/16"	3/16"
AT402-5	AT403-5	1/2"	3/16"
AT402-5B	AT403-5B	1/2"	1/4"
AT402-6	AT403-6	9/16"	3/16"
AT402-6B	AT403-6B	9/16"	1/4"
AT402-7	AT403-7	5/8"	1/4"
AT402-7B	AT403-7B	5/8"	5/16"
AT402-8	AT403-8	3/4"	1/4"
AT402-8B	AT403-8B	3/4"	5/16"
AT402-9	AT403-9	7/8"	3/8"
AT402-10	AT403-10	1"	3/8"



4 - BACK CUTTER PILOTS

For use with AT402 and AT403 series cutters (above).

PART NO.	SIZE	PRICE	PART NO.	SIZE	PRICE
AT404-3/32	3/32"		AT404-1/4	1/4"	
AT404-1/8	1/8"		AT404-5/16	5/16"	
AT404-5/32	5/32"		AT404-3/8	3/8"	
AT404-3/16	3/16"				

5 - 100° COUNTERSINKS

Three flute design

Made of High Speed Steel



PART NO.	DIA.	SHANK	PRICE
2000-1/4x3/16	.250	3/16"	
2000-3/8x1/4	.375	1/4"	
2000-1/2x3/8	.500	3/8"	
2000-5/8x3/8	.625	3/8"	
2000-3/4x3/8	.750	3/8"	