



Microstops Countersinks and Drilling Accessories

The importance of precision cutting requires special accessories to aide in drilling accuracy, providing tighter tolerances while protecting surface areas from skin-damage. Precision depth control can also prevent damage to surrounding surfaces when rivet-shaver cutters are being used. Omega understands this vital importance and provides accessories to improve productivity while maintaining overall accuracy.

Microstop Cages
Countersink Cutters
Rivet Shaver Cutters
Drill Collets
Drill Stops
"Egg Cup" Drill Stands

Microstop Cages

Microstop Cages provide precise depth control by limiting the travel of the cutter being used, and aiding in the alignment of the cutter so that it is exactly perpendicular to the surface against which the cage rests.

All Microstop units feature hardened and ground spindles. These are supported by bronze bushings (for general use), or needle bearings and ball bearings (for more demanding high-speed applications). Thrust bearings provide axial support while the micro-adjustment offers precise depth control. Units may be ordered with a variety of foot-pieces and skirt styles.



Microstop Countersink Units

MODEL NUMBER	CUTTER CAPACITY	SHAFT TRAVEL	SPINDLE THREAD	MAX RPM	SKIRT DIAMETER (D)	OVERALL LENGTH (L)
OM330S*	5/8	5/16	1/4-28	3000	0.900	3.625
ZT330S	5/8	9/32	1/4-28	3000	0.870	3.562
OM350	1/2	1/4	1/4-28	3000	0.685	3.250
OM550	5/8	5/16	1/4-28	3000	0.900	3.625
OM550-3RL-2.75	3/8	5/16	1/4-28	3000	0.490	6.250
OM560**	5/8	5/16	1/4-28	3000	0.900	3.625
OM565**	5/8	5/16	1/4-28	10000	0.900	3.625
OM566***	5/8	5/16	1/4-28	10000	0.900	3.625
OM575****	5/8	5/16	1/4-28	10000	0.900	3.625
OM650**	1	1/2	3/8-24	3000	1.300	5.125
OM655***	1 1/4	1/2	3/8-24	3000	1.800	5.125

* OM330S is a light duty cage suitable for occasional use

** Dual bearings for upper and lower spindle support

*** Sealed ball bearing unit

**** .0005 adjustment increments

CUSTOM KITS Available on Request



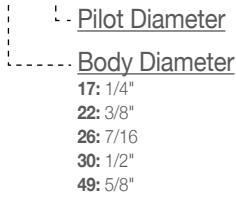
Countersink Cutters

Piloted Aircraft Stop Countersink Cutters (often called micro-stop cutters, or microstop countersinks) are used to make precision countersinks to accept flush-head fasteners. Omega Technologies' cutters are precision ground to exact tolerances to insure concentricity. Cutters may be used in any micro-stop "cage" that accepts 1/4 - 28 threaded shank cutters.

Select the pilot diameter that matches the pre-drilled hole, and the body diameter according to the diameter of the fastener head. Metric and other sizes quoted on request. Popular items listed below.

Reading Part Numbers

OM154-22-40



Countersink Cutter 100° HSS

PILOT DIAMETER	1/4	3/8	7/16	1/2	5/8
#40	OM154-17-40	OM154-22-40	OM154-26-40	OM154-30-40	OM154-49-40
#30	OM154-17-30	OM154-22-30	OM154-26-30	OM154-30-30	OM154-49-30
#27		OM154-22-27			
#21		OM154-22-21	OM154-26-21	OM154-30-21	
#20		OM154-22-20	OM154-26-20	OM154-30-20	
#13		OM154-22-13	OM154-26-13	OM154-30-13	
#11		OM154-22-11	OM154-26-11	OM154-30-11	
#10		OM154-22-10	OM154-26-10	OM154-30-10	
#8		OM154-22-8	OM154-26-8	OM154-30-8	
#6				OM154-30-6	
1/16		OM154-22-1/16			
3/32		OM154-22-3/32	OM154-26-3/32	OM154-30-3/32	
1/8		OM154-22-1/8	OM154-26-1/8	OM154-30-1/8	
3/16		OM154-22-3/16	OM154-26-3/16	OM154-30-3/16	
1/4		OM154-22-1/4	OM154-26-1/4	OM154-30-1/4	
5/32		OM154-22-5/32	OM154-26-5/32	OM154-30-5/32	
3/16		OM154-22-3/16	OM154-26-3/16	OM154-30-3/16	OM154-49-3/16
7/32			OM154-26-7/32	OM154-30-7/32	
5/16			OM154-26-5/16	OM154-30-5/16	OM154-49-5/16
3/8				OM154-30-3/8	OM154-49-3/8
D				OM154-30-D	
F			OM154-26-F	OM154-30-F	

Other countersink angles available:

- 80°, 82°, 90°, 120°, and 130°

Other available materials include:

- Carbide Tipped (2 and 3 flute)
- Solid Carbide (2, 3, and 4 flute)
- Diamond Plated
- Poly-Crystalline Diamond (PCD)



Rivet Shaver Cutters

These cutters trim excess material from flush-head rivets. They are precision-ground and carbide-tipped, ensuring less chatter and increasing the overall life of the cutter.



Rivet Shaver Cutters

PART NUMBER	DIAMETER
OM50-0	1/4"
OM50-1	5/16"
OM50-2	3/8"
OM50-3	7/16"
OM50-4	1/2"
OM50-5	9/16"
OM50-6	5/8"
OM50-7	3/4"

Drill Collets • Drill Stops

Drill Collets

Drill Collets effectively convert a Straight Shank tool of any kind (typically drills and reamers) into a Threaded Shank tool. Most commonly used to adapt drills, they can be used with broken drills, reamers, or other straight shank cutting tools such as counterbores and countersinks. Simply choose a collet with the appropriate size to fit the straight shank tool to be adapted. Great for emergencies, and getting into tight places.

Drill Collet Stock Sizes

DRILL DIA	SIZE	P/N	DRILL DIA	SIZE	P/N
0.257	F	OMDCF	0.161	#20	OMDC20
0.250	1/4"	OMDC1/4	0.159	#21	OMDC21
0.218	7/32"	OMDC7/32	0.152	#24	OMDC24
0.194	#10	OMDC10	0.144	#27	OMDC27
0.191	#11	OMDC11	0.129	#30	OMDC30
0.188	3/16"	OMDC3/16	0.125	1/8"	OMDC1/8
0.185	#13	OMDC13	0.098	#40	OMDC40
0.182	#14	OMDC14	0.094	3/32"	OMDC3/32
0.177	#16	OMDC16			



OMDC7/32

Drill Stops

These drill stops have a coiled spring to cushion drill break-through, while the rounded smooth face eliminates marking and prevents the drill chuck from marring the surface. Other sizes are available upon request.

Available Drill Stops

PART NUMBER	DRILL SIZE	COLOR
OMDS10	10	Brass
OMDSE10*	10	Brass
OMDS20	20	Zinc/Black
OMDSE20*	20	Zinc
OMDS21	21	Black
OMDS30	30	Copper
OMDS40	40	Zinc
OMDSF	F	Black
OMDS 1/4	1/4	Copper
OMDS 5/16	5/16	Zinc



OMDS10



OMDS40



OMDS21

Chip Chasers

Our chip chasers are made in the US of stainless steel and are available in long and short versions.



OM512



OM511

"Egg-Cup" Drill Stands

These hand-held drill guides provide a quick and easy way to assure hole position and quality. The guide housing is made in the USA of GE Lexan®, which is virtually unbreakable and ensures a well-lit work surface.

Two styles are available to accommodate standard 1/2"-13 threaded drill bushings, and 1/2" OD slip-renewable drill bushings. A locking screw on the slip-renewable housing permits positive retention of the slip-fit bushing, thus reducing FOD concern.

"Egg-Cup" Drill Stands

PART NUMBER	DESCRIPTION
OM589AA	1/2"-13 Threaded Housing
OM589EA	1/2" I.D. Slip-Fit Housing



Drill bushings sold separately



OM589EA



OM589AA

CUSTOM KITS

Available on Request



Boeing Quick Change Adapters

All have 1/4"-28 THD for adapting regular threaded cutters for use in Boeing Quick Change Chucks.

Available in 1", 2", 3", and 6" lengths.



Countersink Extensions

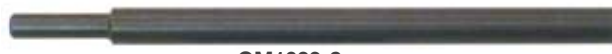
Available in 1", 2", 3", 4", and 6" lengths and named accordingly: CS-EXT (Length). 1/4"-28 Male to 1/4"-28 Female thread.



CS-EXT2

Chucking Spud and Drill Adapter

Straight chucking shank, available in 2", 4", 6", 8", and 10" lengths and named accordingly: OMI023-(Length)



OMI023-8



OMI023-2