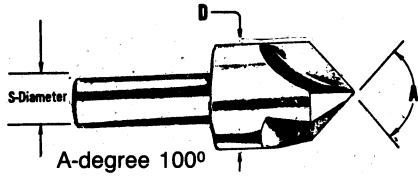


CUTTING TOOLS

STRAIGHT SHANK COUNTERSINKS



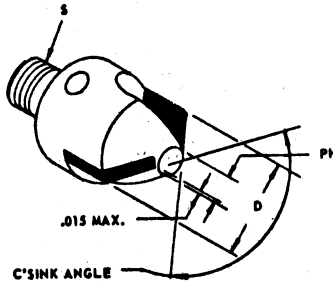
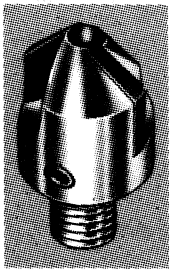
MM 312 Countersinks are for use in steel and aluminum. Made of high speed tool steel, heat treated and ground to close limits insuring concentricity and proper radial clearances to give fast and smooth cutting. Carried in stock in the sizes and angles shown. Sizes other than shown available on special order.

TOOL NO.	D-DIA.	S-DIA.
MM 312-3	3/8"	1/4"
MM 312-5	1/2"	1/4"

CARBIDE CUTTING TOOLS

CARBIDE TIPPED STOP COUNTERSINKS

700 SERIES

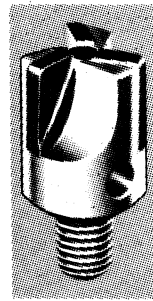
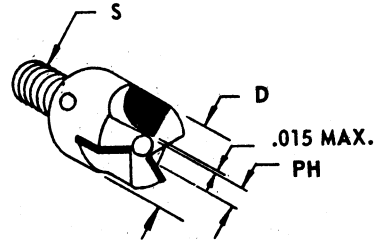


Tool Number	"D" Body Dia.	"PH" Pilot Hole	Number Flutes	"S" Shank Size
700	3/8	5/64	2	1/4-28
701	7/16	5/64	2	1/4-28
702	1/2	5/64	2	1/4-28
703	1/2	3/32	2	1/4-28
704	1/2	1/8	2	1/4-28
705	5/8	1/8	2	1/4-28

When ordering please specify: Tool number and included countersink angle. Example: 701-100°. For pilot information see 755 series. Current prices for 100° included countersink angles only. Other angles and sizes available, subject to quotation.

CARBIDE TIPPED STOP COUNTERBORES

730 SERIES



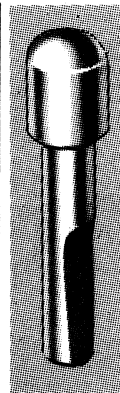
TOOL NUMBER	"D" CUTTER DIA.	"PH" PILOT HOLE	"S" SHANK SIZE
730-1	3/8	3/32	1/4-28
730-2	7/16	1/8	1/4-28
730-3	1/2	1/8	1/4-28
730-4	9/16	1/8	1/4-28
730-5	5/8	1/8	1/4-28
730-6A	11/16	3/16	3/8-24
730-6B	11/16	3/16	7/16-20
730-7A	3/4	3/16	3/8-24
730-7B	3/4	3/16	7/16-20
730-8A	13/16	3/16	3/8-24
730-8B	13/16	3/16	7/16-20
730-9A	7/8	3/16	3/8-24
730-9B	7/8	3/16	7/16-20
730-10A	15/16	3/16	3/8-24
730-10B	15/16	3/16	7/16-20
730-11A	1	3/16	3/8-24
730-11B	1	3/16	7/16-20
730-12A	1-1/8	3/16	3/8-24
730-12B	1-1/8	3/16	7/16-20
730-13A	1-1/4	3/16	3/8-24
730-13B	1-1/4	3/16	7/16-20

Special cutter diameter "D" may be readily ground from standard sizes listed. Special cutters given prompt attention. All cutters supplied with 1/64 corner radius.

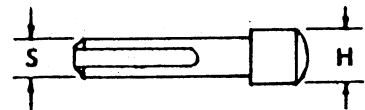
HSS specify P/N 630- ...

755 SERIES

TOOL NUMBER	PILOT HEAD NOMINAL DIA.	STANDARD SHANK DIAMETERS			
		5/64	3/32	1/8	3/16
755-1	1/8(.125)	.	.	.	.
755-2	#30(.128)	.	.	.	.
755-3	5/32(.156)	.	.	.	.
755-4	#20(.161)	.	.	.	.
755-5	3/16(.187)	.	.	.	.
755-6	#10(.193)	.	.	.	.
755-7	7/32(.218)	.	.	.	.
755-8	1/4(.250)	.	.	.	.
755-9	"F"(.257)	.	.	.	.
755-10	9/32(.281)	.	.	.	.
755-11	5/16(.312)	.	.	.	.
755-12	11/32(.343)	.	.	.	.
755-13	3/8(.375)	.	.	.	.
755-14	13/32(.406)	.	.	.	.
755-15	7/16(.437)	.	.	.	.
755-16	15/32(.468)	.	.	.	.
755-17	1/2(.500)	.	.	.	.
755-18	17/32(.531)	.	.	.	.
755-19	9/16(.562)	.	.	.	.
755-20	19/32(.593)	.	.	.	.
755-21	5/8(.625)	.	.	.	.



755 SERIES PILOTS for CARBIDE TIPPED STOP COUNTERBORES and CARBIDE TIPPED STOP COUNTERSINKS



WHEN ORDERING PLEASE SPECIFY TOOL NUMBER AND STANDARD SHANK DIA. EXAMPLE: 755-7-1/8