



MB MITTLER BROS. MACHINE & TOOL

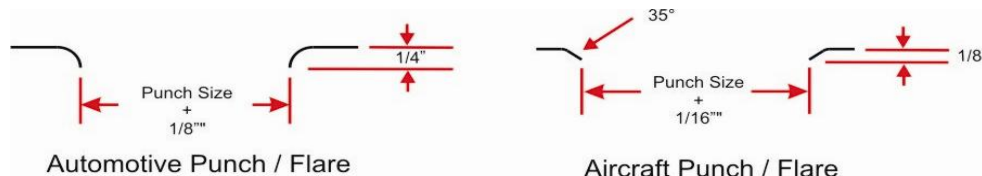
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PUNCH & FLARE TOOLS / HOLE PUNCHES – 2012

Automotive (Standard) Punch & Flare Tools (automotive and industrial) are designed to punch the required hole size and follow with a *45-degree radius angle* (leg length of 1/4") in metal thickness of .040" to .065" aluminum and mild steel. The total clearance after the punch/flare is made will be 1/8" larger than the punch size ie: 1" OD punch will enlarge to 1-1/8" OD after punch/flare. Punch to die clearance is 0.012".

Aircraft Punch & Flare Tools (AC-35) are designed to punch the required hole size and follow with a *35-degree straight angle* (leg length of 1/8") in metal thickness of .020" to .040" aluminum or mild steel. The total clearance after the punch/flare is made will be 1/16" larger than punch size ie: 1"OD punch will enlarge to 1-1/16" OD after punch/flare. Punch to die clearance is 0.007" because of the thinner gauge metal.



SIZE	AUTOMOTIVE #	AIRCRAFT #	PRICE
1"	1300-013	1300-030AC35	\$105.00
1-1/4"	1300-014	1300-031AC35	\$105.00
1-1/2"	1300-015	1300-032AC35	\$120.00
1-3/4"	1300-016	1300-033AC35	\$120.00
2"	1300-017	1300-034AC35	\$130.00
2-1/4"		1300-035AC35	\$130.00
2-1/2"	1300-018	1300-036AC35	\$130.00
2-3/4"		1300-037AC35	\$145.00
3"	1300-020	1300-038AC35	\$145.00
6 PIECE KIT 1" – 2-1/2" Minus 2-1/4"	1300-402	1300-415	\$650.00
7 PIECE KIT Minus 2-1/4" & 2-3/4"	1300-403	1300-412	\$775.00
9 PIECE KIT 1" – 3"		1300-414	\$1025.00
3-1/8"		1300-039AC35	\$195.00
3-1/4"		1300-040AC35	\$195.00
3-1/2"		1300-041AC35	\$195.00
3-3/4"		1300-042AC35	\$210.00
4"		1300-043AC35	\$210.00
13 PIECE KIT 1" – 4" Minus 3-1/8"		1300-413	\$1745.00
5"		1300-044AC35	\$260.00
6"		1300-045AC35	\$310.00

GAUGE – INSTRUMENT HOLE PUNCHES

SIZE	AUTOMOTIVE #	AIRCRAFT #	PRICE
2-1/16"	1300-028		\$105.00
2-5/8"	1300-021		\$105.00
3-3/8"	1300-030		\$195.00
2-1/4"		1300-026	\$105.00
3-1/8"		1300-029	\$115.00