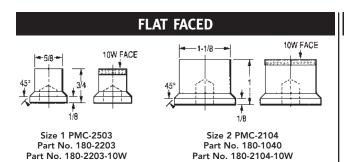
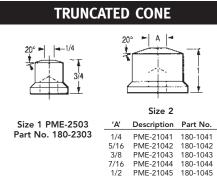
HIGH PRESSURE WELDING

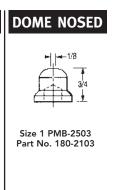
HIGH PRESSURE TIPS

Spot and projection welding operations may utilize pressures over 2000 lbs. TUFFALOY high-pressure tips have flat bottoms which eliminates tip jamming in tapered holders. Assembled tip and holder heights are always the same, as contrasted to tapered tips which can be forced into the sockets varying distances.

TUFFALOY high pressure tips can be used in the two holder styles shown: PM holders for mounting on the platens of press-type welders, and straight holders for spot welder arm mounting. The tips are held to the holders by a threaded coupling. Copper tungsten faced tips are available for high pressure wear and projection welding.

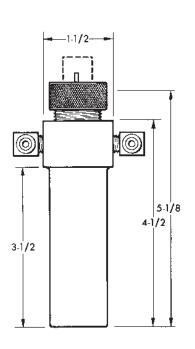


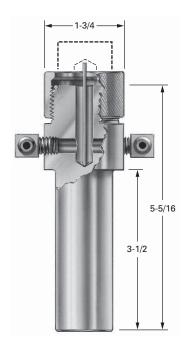




STRAIGHT HOLDERS CLASS 2 ALLOY

Straight holders are made for carrying TUFFALOY high pressure tips in rocker arm welders or press-type welder horn extensions. They are made in two basic sizes, to accommodate the Size 1 and 2 tips. They are of Class 2 alloy and hold the tips in the same manner as do the PM holders.



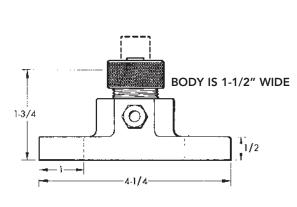




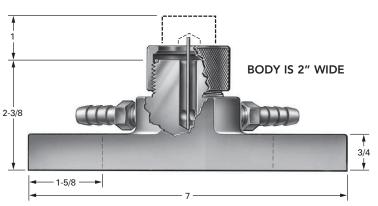
Size	Barrel Dia.	Descrip- tion	Part No.
1	1	4511	350-4511
1	1-1/4	4512	350-4512
1	1-1/2	4513	350-4513
2	1-1/4	4521	350-4521
2	1-1/2	4522	350-4522



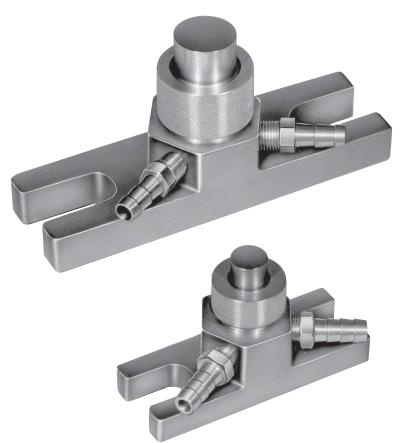
HIGH PRESSURE WELDING

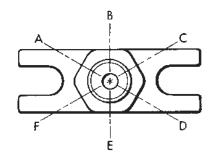


Size 1 PM holder (9/16-in. mounting bolts) 4510 holder, Part No. 350-4510



Size 2 PM holder (3/4-in. mounting bolts) 4520 holder, Part No. 350-4520





PM HOLDERS

TUFFALOY PM holders are mounted directly to presstype welder platens, or are used as components of special weld fixturing.

Platen Mounting: PM holders bolt easily to the platen T-slots at any desired location, in a minimum of time (no intermediary device is required). Big halfinch mounting bolts may be used to assure good conductivity. They are the first such standard, stocked holders to be made available. They come in two sizes, to match standard T-slot spacing, and to hold the 2 sizes of tips shown. The small size 1 PM holder is for use on RWMA Size 1 press-type welders (3-1/2 in. spacing) and the large size, 2 PM holder is for Size 2 and 3 welders (5- and 6-in. spacing). The electrodes used do not require any particular radial positioning to obtain proper coolant flow. These are compact holders that may be used one-to-one or in multiples in close proximity to one another.

Fixture Building: PM holders make special fixture building easy too. They can be bolted to a fixture or backup base as easily as to a platen. They are compact and have self-contained coolant systems that eliminate making a coolant manifold out of the fixture.

Hose Connections: You may specify where you want the hose connectors in the hexagonal base. Select any two of the six possible locations and specify by using the symbols shown on the diagram (connector locations: A-B, or A-D, etc.). Position A-C is standard. (A-F and C-D are not possible.)

TUFFALOY

PLATEN-MOUNTED HOLDERS

PM HOLDERS

TUFFALOY PM holders may be mounted directly to presstype welder platens, or they can be used as components of special weld fixturing. They come in two sizes, which match standard T-slot spacings (either of which can be furnished to hold any of the four standard tips: 4, 5, 6 or 7 RW). The smaller holder is for use on RWMA Size 1 welders, which have the 3-1/2" spacing. The larger one is for the Size 2 and 3 welders, which have the 5- and 6-inch spacing.

Big, half-inch mounting bolts may be used to assure good conductivity. The holders may be used one-to-one or in multiples closely bunched. PM holders make special fixture building easy. They can be bolted to a fixture or back-up base as easily as to a platen. They are compact and have self-contained coolant systems.

S	STANDARD TIP PM HOLDERS				
RW Tip	Size	1 (Small)	Size 2 (Large)		
Socket	Descrip- tion	Part No.	Descrip- tion	Part No.	
4	4560	350-4560	4570	350-4570	
5	4561	350-4561	4571	350-4571	
6	4562	350-4562	4572	350-4572*	
7	4563	350-4563	4573	350-4573	

*Item not normally stocked

FOR THREADED ELECTRODES					
Thread Size	Size 1	Size 2			
5/8-11	350-4580	350-4590			
3/4-10	350-4581	350-4591			

FOR THREADED ADAPTERS			
Size 1	Size 2		
350-4582 350-4583	350-4592 350-4593		
	Size 1 350-4582		

Holder

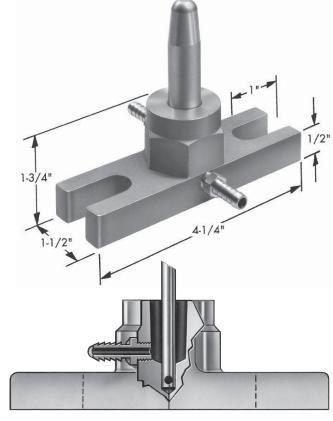
Size

For 1" Dia. Electrodes

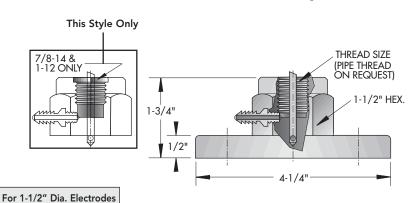
Description Part No.

See adapters page 16

PM Holders T-Slot Spacing



Size 2 PM Holder (3/4-in. mounting bolts)



	3-1/2 5 & 6	1PM 2PM	4515 4525	350-4515 350-4525	4526	350-4526	·
1	BODY IS I-1/2" WIDE	4-1/4		13/16		3ODY IS 2" \	7
	S	ize 1 PM	Holder				Size 2 PM Holder

Description Part No.

