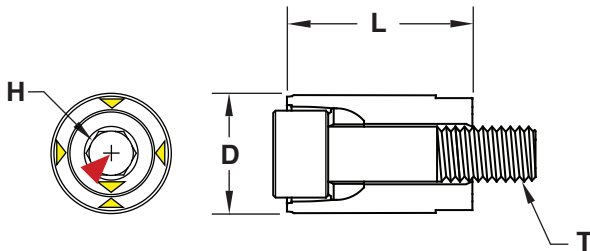




FRICTION PULLERS

PARTING LINE SEQUENCE CONTROL

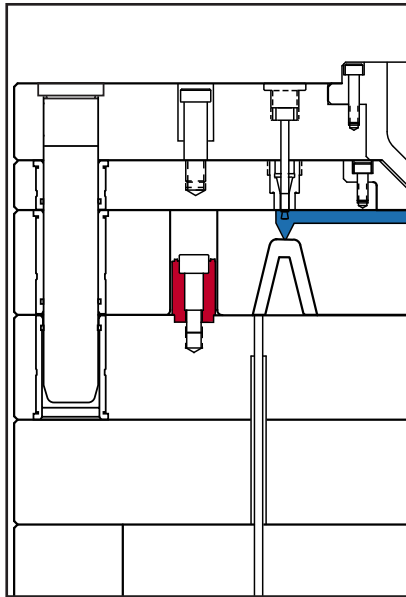
Progressive's Friction Pullers can be used to uniformly draw floating plates and inserts. Designed to replace shoulder bolts, the Friction Pullers initiate movement and utilize friction at a particular setting to release the plate when travel limits are reached.



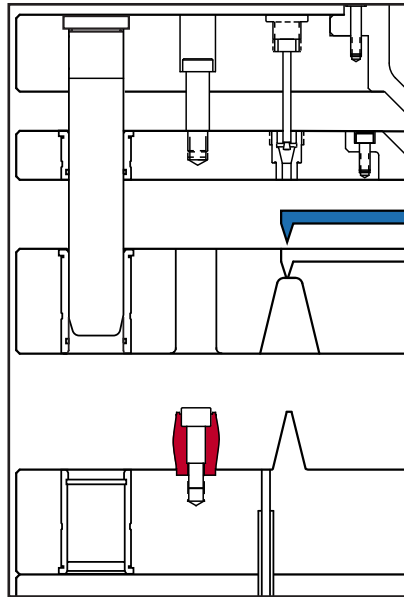
M Custom PPA Resin with 8620 Fastener

▶ CAD insertion point

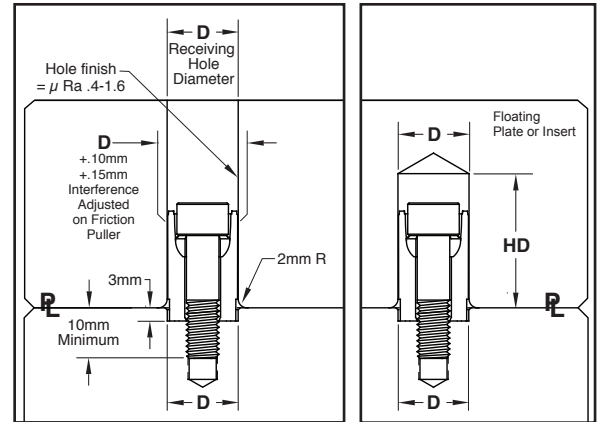
CATALOG NUMBER	D	L	T	H Hex	HD Hole Depth	Maximum Force (Each)
FP-10	10	17	M5-.8	3	20	32.5 kg (70 lbs)
FP-13	13	20	M6-1	4	23	62.5 kg (135 lbs)
FP-16	16	25	M8-1.25	5	30	150.0 kg (330 lbs)
FP-20	20	28	M10-1.5	6	32	212.5 kg (470 lbs)



Mold Closed



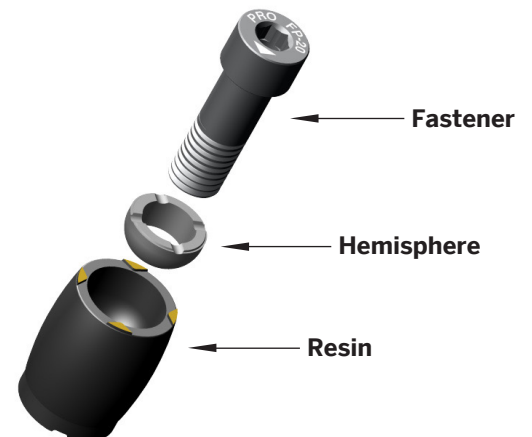
Mold Open



Recommended interference fit is .1 to .15mm larger than the receiving hole. To adjust the Friction Puller, rotate the screw clockwise and measure bulge to achieve the proper fit. Further adjustments can be performed with 1/4 turn increments, lining up the reference arrows on the fastener to the resin.

Technical Information:

- For mold maintenance, before removing the mold from the press, rotate the screw counter-clockwise 3/4 turn. This will allow easy separation of plates.
- Maximum operating temperature is 300° F (150° C).
- Fastener includes Nylok® patch for secure installation.
- The hemisphere is plated for additional lubricity during adjustments.
- Friction Pullers are self-venting. Additional venting not required when using blind holes.
- Replacement items are available. Contact Customer Service for availability.



U.S. Patent Nos. 8,038,425 and 8,038,426
 European Patent No. 2,282,883
 Chinese Patent No. ZL200980121427.4