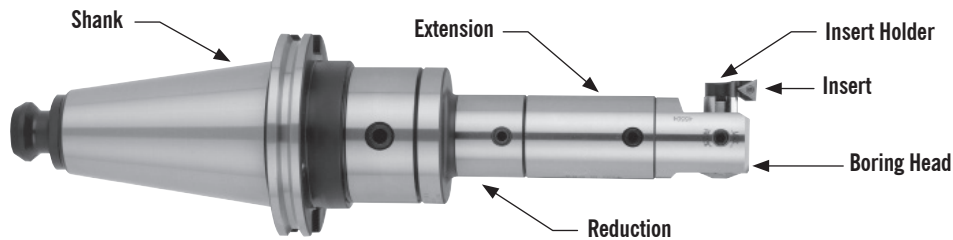


PC Connection Selection Guide



The force F_r is created by tightening the PC screw. This results in line contact seating with high repeatable precision (.0002" on diameter). The geometry of the screw and mating hole in the male pilot creates the resultant force F_a .

$$F_a = 3.7 \times F_r$$

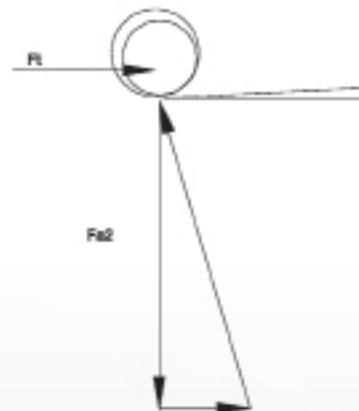
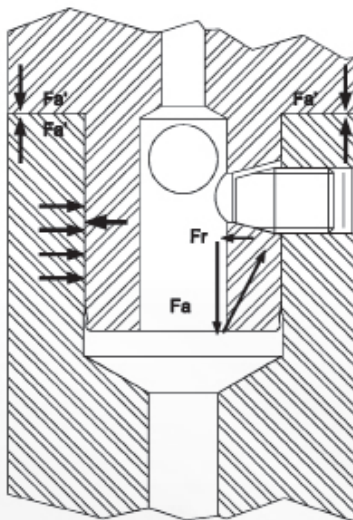
The face to face clamping forces F_a' are equal to the axial force F_a .

The torsional cutting forces are primarily transmitted by the friction between the mating faces. Any remaining torque will result in an additional wedge action between the locking screw and the inner member. Due to the very small resulting wedge angle any increased torsional force F_t will be transformed into a very strong axial clamping force F_a2 .

The cross pin (not shown) helps in alignment of the PC screw and prevents over tightening under heavy torsional loads.

CONNECTION DIAMETER

PC Size	Diameter"	MM
PC2	.94	24
PC3	1.22	31
PC4	1.54	39
PC5	1.97	50
PC6	2.52	64
PC7	3.54	90



PC SCREWS

Part Number	Connection Size	Wrench	Tightening Torque
880-002	PC2	018-102	25 in. lbs.
880-003	PC3	018-103	42 in. lbs.
880-004	PC4	018-104	84 in. lbs.
880-005	PC5	018-105	168 in. lbs.
880-006	PC6	018-106	336 in. lbs.
880-007	PC7	018-107	840 in. lbs.



PC Screw 880-006 shown here.