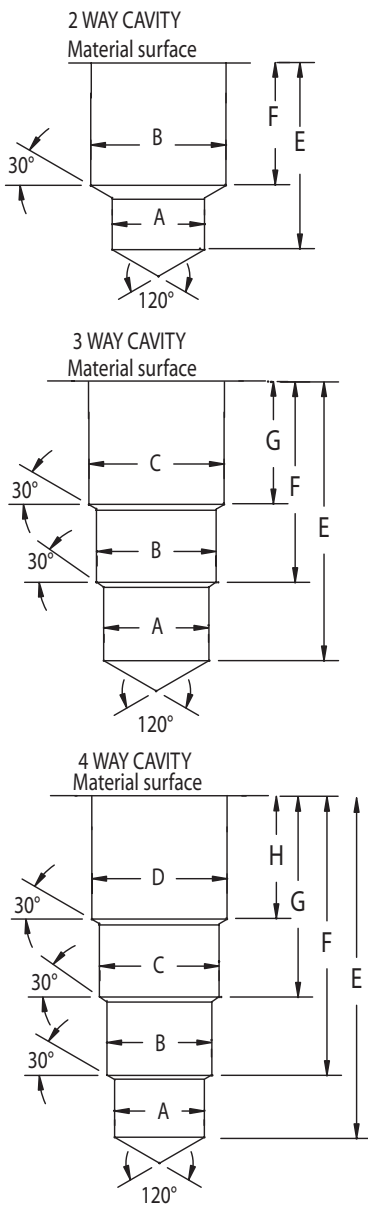


CARTRIDGE VALVE CUTTERS

#20 CAVITIES

2 WAY, 3 WAY, AND 4 WAY CAVITIES

HIGH SPEED STEEL
ROUGHING DRILLS



2 Way, 3 Way, and 4 Way rough drills rough the complete cavity in one pass from solid or in pre-drilled or pre-cast holes leaving .030 stock on diameters and steps for finishing tool. Cutters are heat-treated for toughness and durability. All grinding is done between centers to insure concentricity. Cutters are full form relieved for ease of sharpening.



COATINGS AVAILABLE

TITANIUM NITRIDE-TIN
TITANIUM CARBONITRIDE-TICN
TITANIUM ALUMINUM NITRIDE-TIALN
AL TITANIUM NITRIDE-ALTN

COOLANT THRU AVAILABLE

SERIES #20 CAVITY TOOLING ROUGHING DRILL				
1-5/8-12 UNF-2B THREAD				
DIAMETER TOLERANCES +/- .001				
2 WAY	DIA.	LENGTH	DESCRIPTION	TOOL NUMBER
Dia. A	1.409	E 2.312	HSS Rough Drill	CT20-2R
Dia. B	1.510	F 1.720		
3 WAY	DIA.	LENGTH	DESCRIPTION	TOOL NUMBER
Dia. A	1.284	E 3.938	HSS Rough Drill	CT20-3R
Dia. B	1.409	F 3.345		
Dia. C	1.510	G 1.720		
4 WAY	DIA.	LENGTH	DESCRIPTION	TOOL NUMBER
Dia. A	1.221	E 5.562	HSS Rough Drill	CT20-4R
Dia. B	1.284	F 4.970		
Dia. C	1.409	G 3.345		
Dia. D	1.510	H 1.720		
All Diameters are .030 Under Finish Sizes				
Cutters are manufactured with a 1.000 Dia. shank, 2-1/2 long				

