Carbide Depot

Technical Resources for manufacturing professionals

Toolholder ANSI Designation Chart

M	W	L	N	R	16	4	D
Insert Holding	**Insert Shape**	**Toolholder Style**	**Insert Relief *L***	**Hand**	**Shank Size**	**Insert IC**	**Length**
M = clamp and lock pin	C = 80 deg. diamond	A = 0º side cutting, straight shank	N = 0º	R = right hand	5 = 5/16 x 5/16	1.2 = 5/32"	A = 4"
P = lock pin only	D = 55 deg. diamond	B = 15º side cutting, straight shank	A = 3º	L = left hand	6 = 3/8 x 3/8	1.5 = 3/16"	B = 4.5"
C = clamp only	K = paralellogram	C = 0º end cutting, straight shank	B = 5º	N = neutral	8 = 1/2 x 1/2	1.8 = 7/32"	C = 5"
S = screw lock only	L = rectangle	D = 45º side cutting, straight shank	C = 7º		10 = 5/8 x 5/8	2 = 1/4"	D = 6"
D = wedge lock only	R = round	F = 0º end cutting, offset shank	P = 11º		12 = 3/4 x 3/4	2.5 = 5/16"	E = 7"
	S = square	G = 0º side cutting, offset shank	D = 15º		16 = 1 x 1	3 = 3/8"	F = 8"
	T = triangle	J = -3º side cutting, offset shank	E = 20º		85 = 1 1/4 x 1	4 = 1/2"	M = 4"
	V = 35 deg. diamond	K = 15º end cutting, offset shank	F = 25º		20 = 1 1/4 x 1 1/4	5 = 5/8"	N = 4.5"
	W = trigon	L = 5º side & end cut, offset shank	G = 30º		24 = 1 1/2 x 1 1/2	6 = 3/4"	P = 5"
		M = 40º side cutting, straight shank			86 = 1 1/2 x 1	8 = 1"	R = 6"
		N = 27º side cutting, straight shank			32 = 2 x 2	10 = 1 1/4"	S = 7"
		R = 15º side cutting, offset shank					T = 8"
		S = 45º side cutting, offset shank					
		T = 30º side cutting, offset shank					
		U = -3º end cutting, offset shank					
		V = 17.5º side cut, straight shank					
		Y = 50º side cutting, straight shank					