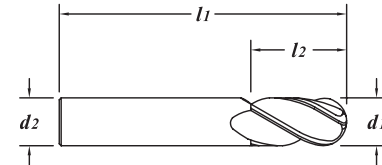


TOLERANCES		
$d_1$	+0,000 -0,050mm (+.000" -.002")	
$d_2$	3mm - 6mm	+0,0000 -0,0075mm (+.0000" -.0003")
	1/4" - 1"	-0,0025 -0,0100mm (-.0001" -.0004")
Ball radius	+0,000 -0,025mm (+.000" -.001")	

HIGH PERFORMANCE  
END MILLS

**Ball End - Balinit® X.CEED Coated**  
**Vollradius - Balinit® X.CEED-Beschichtet**  
**Cabeza Esférica - Recubrimiento de Balinit® X.CEED**  
**Hemispherique - Revêtement Balinit® X.CEED**  
**Sferica - Rivestimento in Balinit® X.CEED**  
**球头 - Balinit® X.CEED 涂层**



Solid submicron grain carbide end mill - center cutting  
 State-of-the-art rougher/finisher  
 Reduces vibration for more aggressive machining resulting in less cycle times and greater productivity  
**Recommended for stainless steel, inconel, pH materials, titanium and tool steels**  
 Variable flute geometry  
 VRX Square End - page 106  
 VRX Corner Radius - page 107



Hochleistungs- Vollhartmetallfräser aus Feinkornhartmetall - Zentrumschnitt  
 Herkömmliche Vollhartmetallschrupper und Schlichter  
 Reduziert Vibrationen für eine aggressivere Bearbeitung, um Bearbeitungszeit zu reduzieren und eine grössere Produktivität zu erzielen  
**Empfohlen für Rostfreien Stahl, Inconel, Pulvermetalle, Titan, und Werkzeugstähle**  
 Variable Spannut-Geometrie  
 Radius Toleranz: +0,000 / -0,025 (+.000" -.001")  
 VRX Schaftfräser ohne Eckenradius - Seite 106  
 VRX Schaftfräser mit Eckenradius - Seite 107



Fresa de submicrograno sólido carburo de alto rendimiento - corte centrado  
 Última generación con mejor desbaste / acabado  
 Reduce las vibraciones hasta en los más agresivos mecanizados, obteniéndose bajos tiempos de ciclo y mayor productividad  
**Recomendado para acero inoxidable, inconel, materiales pH, acero laminado en frío, hierro de fundición y aceros herramienta**  
 Geometría variable de ranura de viruta  
 Tolerancia de la cabeza esférica +0,000 / -0,025 (+.000" -.001")  
 VRX Fresa de vástago sin radio de cantos - Página 106  
 VRX Fresa de vástago con radio de cantos - Página 107



Fraises carbure submicrograin - coupe au centre  
 La maîtrise de l'art pour le fraisage d'ébauche et finition  
 Reduction des vibrations pour un fraisage plus agressif resultant des temps de cycles plus court et une meilleure productivité  
**Recommandée pour les aciers inoxydables, inconel, inox pH, aciers a outils, aciers forges, titane, fonts et aciers a outils**  
 Géométrie variable de la helix  
 Tolerance du rayon de hemispherique +0,000 / -0,025 (+.000" -.001")  
 VRX Extrémité carré - Page 106  
 VRX Rayon de Coin - Page 107



Super sub-micrograno metallo duro - taglio al centro  
 Metallo duro per sgrossatura e finitura  
 Riduzioni delle vibrazioni per lavorazioni aggressive per ridurre il tempo ciclo ed aumentare la produttività  
**Raccomandata per lavorazioni su inox, inconel, titanio e acciai per utensili**  
 Geometria ad elica variabile  
 Tolleranza del raggio +0,000 / -0,025 (+.000" -.001")  
 VRX Piatte - Pagina 106  
 VRX Toriche - Pagina 107



超细晶粒整体硬质合金立铣刀 - 中心切削  
 最先进的整体硬质合金粗切刀具/精切刀具  
 适合更高速，更大进给的加工，可以减少振动，减少加工时间，提高生产效率  
**推荐加工不锈钢、铬镍铁耐热合金、含磷材质、钛钢 和工具钢**  
 不等分刃设计  
 半径允差 +0,000 / -0,025 (+.000" -.001")  
 VRX平头 - 106页  
 VRX圆弧角 - 107页

EDP# (plain)	EDP# (weldon)	$d_1$ †		$d_2$ Shank Diameter	$l_1$ Overall Length	$l_2$ Flute Length	
		Decimal	Metric				
28470	-	.1575	<b>4,00</b>	<b>6,0</b>	<b>50</b>	<b>8</b>	
28480	-	.1575	<b>4,00</b>	<b>6,0</b>	<b>50</b>	<b>12</b>	
28490	-	.1875	3/16"	4,76	3/16"	2"	5/16"
28500	-	.1875	3/16"	4,76	3/16"	2"	9/16"
28510	-	.1969	<b>5,00</b>	<b>6,0</b>	<b>50</b>	<b>10</b>	
28520	-	.1969	<b>5,00</b>	<b>6,0</b>	<b>65</b>	<b>15</b>	
28530	-	.2362	<b>6,00</b>	<b>6,0</b>	<b>50</b>	<b>12</b>	
28540	-	.2362	<b>6,00</b>	<b>6,0</b>	<b>65</b>	<b>19</b>	
28570	-	.2500	1/4"	6,35	1/4"	2"	3/8"
28580	-	.2500	1/4"	6,35	1/4"	2-1/2"	3/4"
28610	-	.3125	5/16"	7,94	5/16"	2"	7/16"
28620	-	.3125	5/16"	7,94	5/16"	2-1/2"	13/16"
28630	-	.3150	<b>8,00</b>	<b>8,0</b>	<b>50</b>	<b>12</b>	
28640	-	.3150	<b>8,00</b>	<b>8,0</b>	<b>65</b>	<b>22</b>	
28670	-	.3750	3/8"	9,52	3/8"	2"	1/2"
28680	-	.3750	3/8"	9,52	3/8"	2-1/2"	7/8"
28690	-	.3937	<b>10,00</b>	<b>10,0</b>	<b>50</b>	<b>16</b>	
28700	-	.3937	<b>10,00</b>	<b>10,0</b>	<b>70</b>	<b>22</b>	
28705	-	.4375	7/16"	11,11	7/16"	2-1/2"	5/8"
28710	-	.4375	7/16"	11,11	7/16"	2-3/4"	7/8"
28715	-	.4724	<b>12,00</b>	<b>12,0</b>	<b>65</b>	<b>19</b>	
28720	-	.4724	<b>12,00</b>	<b>12,0</b>	<b>75</b>	<b>32</b>	
28751	*28750	.5000	1/2"	12,70	1/2"	2-1/2"	5/8"
28761	*28760	.5000	1/2"	12,70	1/2"	3"	1-1/4"
28771	*28770	.5000	1/2"	12,70	1/2"	4"	5/8"
28781	*28780	.5512	<b>14,00</b>	<b>14,0</b>	<b>75</b>	<b>19</b>	
28786	*28785	.5512	<b>14,00</b>	<b>14,0</b>	<b>88</b>	<b>32</b>	
28796	*28795	.6250	5/8"	15,87	5/8"	3"	3/4"
28801	*28800	.6250	5/8"	15,87	5/8"	3-1/2"	1-1/4"
28806	*28805	.6250	5/8"	15,87	5/8"	6"	2"
28811	*28810	.6299	<b>16,00</b>	<b>16,0</b>	<b>75</b>	<b>19</b>	
28821	*28820	.6299	<b>16,00</b>	<b>16,0</b>	<b>88</b>	<b>32</b>	
28831	*28830	.7087	<b>18,00</b>	<b>18,0</b>	<b>75</b>	<b>22</b>	
28836	*28835	.7087	<b>18,00</b>	<b>18,0</b>	<b>100</b>	<b>38</b>	
28841	*28840	.7500	3/4"	19,05	3/4"	3"	7/8"
28861	*28860	.7500	3/4"	19,05	3/4"	4"	1-1/2"
28866	*28865	.7500	3/4"	19,05	3/4"	5"	2"
28871	*28870	.7874	<b>20,00</b>	<b>20,0</b>	<b>75</b>	<b>22</b>	
28881	*28880	.7874	<b>20,00</b>	<b>20,0</b>	<b>100</b>	<b>38</b>	
28901	*28900	.9843	<b>25,00</b>	<b>25,0</b>	<b>100</b>	<b>38</b>	
28911	*28910	1.000	1"	25,40	1"	4"	1"
28916	*28915	1.000	1"	25,40	1"	4"	1-1/2"
28931	*28930	1.000	1"	25,40	1"	5"	2"

\* - Tools with weldon flats