

SERIES: Z4TVW NACO



4 Flute, Variable FL for general machining applications
Series: Z4TVW NACO

MATERIAL		CONDITION	M/MIN	CUTTING DIAMETER - METRIC							
				4mm	6mm	8mm	10mm	12mm	16mm	20mm	25mm
STAINLESS STEELS		ISO-M	CHIP PER TOOTH								
Precipitation		Slotting @ ≤ .5 x D	75	0.0102	0.0191	0.0229	0.0286	0.0381	0.0476	0.0572	0.0762
13-8, 15-5, 17-4PH		Profiling @ 2 x D Axial / ≤ .3 D Radial	99	0.0127	0.0267	0.0330	0.0381	0.0514	0.0648	0.0781	0.1048
Austenitic		Slotting @ ≤ .5 x D	84	0.0114	0.0229	0.0279	0.0343	0.0457	0.0572	0.0686	0.0914
302, 303, 304L, 316L		Profiling @ 2 x D Axial / ≤ .3 D Radial	107	0.0152	0.0305	0.0381	0.0476	0.0629	0.0781	0.0933	0.1238
Martensitic		Slotting @ ≤ .5 x D	91	0.0114	0.0248	0.0305	0.0362	0.0495	0.0610	0.0724	0.0972
403, 410, 416		Profiling @ 2 x D Axial / ≤ .3 D Radial	114	0.0171	0.0324	0.0406	0.0495	0.0667	0.0838	0.0991	0.1334
HIGH TEMP ALLOYS		ISO-S									
Cobalt Base		Slotting @ .5 x D	34	0.0057	0.0095	0.0102	0.0152	0.0210	0.0267	0.0305	0.0419
Stellite, Haynes 25, 188, X-40, L-605		Profiling @ 2 x D Axial / ≤ .3 D Radial	46	0.0057	0.0133	0.0127	0.0133	0.0248	0.0305	0.0381	0.0495
Nickel Base		Slotting @ .5 x D	23	0.0076	0.0133	0.0152	0.0191	0.0324	0.0305	0.0495	0.0495
Inconel 600, 625, 718, Nickel 200, 270, Invar, Monel		Profiling @ 2 x D Axial / ≤ .3 D Radial	35	0.0076	0.0133	0.0178	0.0210	0.0343	0.0343	0.0419	0.0419
400, 405, K-Monel, PermaNickel 300, Inconel 600		Slotting @ ≤ .5 x D	29	0.0076	0.0171	0.0229	0.0267	0.0362	0.0438	0.0533	0.0705
Iron Base		Profiling @ 2 x D Axial / ≤ .3 D Radial	40	0.0076	0.0191	0.0254	0.0305	0.0400	0.0495	0.0591	0.0800
Incoloy 800-802, Multimet N-155, Timken 16-26-6											
STEELS		ISO-P									
High Strength Steels		Slotting @ ≤ .5 x D	91	0.0114	0.0248	0.0305	0.0362	0.0495	0.0610	0.0724	0.0972
4140, 4340, 52100		Profiling @ 2 x D Axial / ≤ .3 D Radial	114	0.0171	0.0324	0.0406	0.0495	0.0667	0.0838	0.0991	0.1334
High Alloy Steels - Mold & Die		Slotting @ ≤ .5 x D	84	0.0095	0.0210	0.0254	0.0305	0.0419	0.0514	0.0610	0.0819
A-2, P20, 01, 02, D2, H-13		Profiling @ 2 x D Axial / ≤ .3 D Radial	107	0.0133	0.0286	0.0356	0.0419	0.0552	0.0705	0.0838	0.1124
Medium Alloy Steels		Slotting @ ≤ .5 x D	99	0.0095	0.0229	0.0330	0.0381	0.0476	0.0667	0.0762	0.0953
200, 250, 300		Profiling @ 2 x D Axial / ≤ .3 D Radial	122	0.0095	0.0286	0.0381	0.0457	0.0572	0.0762	0.0953	0.1143
Low Alloy Steels-Margaring		Slotting @ ≤ .5 x D	99	0.0133	0.0267	0.0330	0.0400	0.0533	0.0667	0.0800	0.1067
10XX, 11XX, 13XX		Profiling @ 2 x D Axial / ≤ .3 D Radial	122	0.0191	0.0362	0.0432	0.0552	0.0724	0.0914	0.1086	0.1448
CAST IRONS		ISO-K									
Ductile Iron		Slotting @ ≤ .5 x D	122	0.0095	0.0191	0.0229	0.0286	0.0381	0.0476	0.0572	0.0762
Ductile Cast Iron		Profiling @ 2 x D Axial / ≤ .3 D Radial	168	0.0133	0.0267	0.0330	0.0381	0.0514	0.0648	0.0781	0.1048
Cast Iron		Slotting @ ≤ .5 x D	140	0.0114	0.0229	0.0279	0.0343	0.0457	0.0572	0.0686	0.0914
Grey Cast Iron		Profiling @ 2 x D Axial / ≤ .3 D Radial	183	0.0152	0.0305	0.0406	0.0476	0.0629	0.0781	0.0933	0.1238
TITANIUM		ISO-S									
Titanium Alloys		Slotting @ ≤ .5 x D	53	0.0095	0.0171	0.0229	0.0267	0.0343	0.0438	0.0533	0.0705
6AL-4V, ASTM 1, 2, 3, 6AL-2S		Profiling @ 2 x D Axial / ≤ .3 D Radial	84	0.0114	0.0248	0.0305	0.0362	0.0476	0.0591	0.0724	0.0953
For 5553, decrease SFM and IPM by 25%											