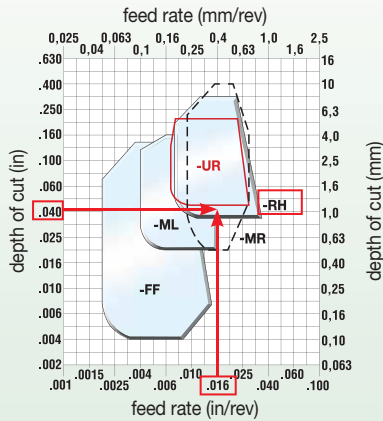
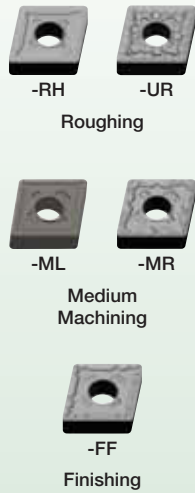


**Step 1 • Select the insert geometry**

**Negative Inserts**



P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

**Step 2 • Select the grade**

cutting condition	Negative Insert Geometry					Positive Insert Geometry		
	-FF	-ML	-MR	-UR	-RH	-FP	-MU	-MP
heavily interrupted cut	WP15CT	WP25CT	WP35CT/ WP25CT	WP35CT	WP35CT	WP25CT/ WS25PT	WP35CT	WM35CT
lightly interrupted cut	WP15CT	WP25CT	WP25CT	WP35CT	WP35CT	WP25CT	WP25CT	WP25CT
varying depth of cut, casting, or forging skin	WP15CT	WP15CT	WP15CT	WP25CT	WP25CT	WP15CT	WP15CT	WP15CT
smooth cut, pre-turned surface	WP15CT	WP15CT	WP15CT	WP25CT	WP25CT	WP15CT	WP15CT	WP15CT

**Step 3 • Selecting the cutting speed**

Low-Carbon (<0.3% C) and Free-Machining Steel		speed – m/min									Starting Conditions
material group	grade	135	180	225	275	320	360	410	455	495	m/min
P0/P1	WP15CT	◊									395
	WP25CT	◊									275
	WP35CT	◊									210
	WS10PT	◊									280

**WIDIA Material Group Selection Guide:**

To optimise speed recommendations, material subgroups have been added to each of the six workpiece material groups.

material	material group ISO code	number of material subgroups
steel	P	1–6
stainless steel	M	1–3
cast iron	K	1–3
non-ferrous materials	N	1–8
high-temp alloys	S	1–4
hardened materials	H	1