

### Cutting Data

Material	Hardness BHN	Cutting Speed SFM MPM	SNAP 2/3/4		SNAP 5/8/12/20	
			GS	DF/DR	GS	DF/DR
			IPR mm/rev		IPR mm/rev	
Carbon Steels	100-250	150-210	.003-.008	.001-.003	.004-.012	.001-.003
		45-64	.075-.2	.025-.075	.1-.3	.025-.075
Free Machining Alloy	125-250	100-260	.003-.006	.001-.002	.004-.012	.001-.002
	125-340	67-107	.075-.15	.0025-.05	.1-.3	.0025-.05
High Alloy Steel	250-350	65-160	.003-.006	.001-.002	.004-.008	.001-.002
		20-49	.075-.15	.0025-.05	.1-.2	.0025-.05
Stainless Steel	140-250	30-100	.002-.005	.001-.002	.002-.006	.001-.002
		9-30	.05-.125	.0025-.05	.05-.15	.0025-.05
Steel Castings	90-225	130-230	.002-.006	.001-.002	.004-.012	.001-.002
	150-250	40-70	.05-.15	.0025-.05	.1-.3	.0025-.05
Grey Cast Iron	150-250	150-300	.003-.008	.001-.003	.004-.012	.001-.003
	200-330	45-91	.075-.2	.0025-.075	.1-.3	.0025-.075
Nodular Cast Iron	140-220	130-220	.003-.006	.001-.002	.004-.012	.001-.002
	220-310	40-67	.075-.15	.0025-.05	.1-.3	.0025-.05
Aluminum Alloys	30-180	210-400	.003-.008	.001-.003	.004-.012	.001-.003
		64-121	.075-.2	.025-.075	.1-.3	.025-.075
Nickel-based Alloys	140-220	30-65	.001-.004	.001-.002	.001-.004	.001-.002
	220-310	9-20	.025-.1	.025-.05	.025-.1	.025-.05
Titanium Alloys		30-65	.001-.004	.001-.002	.001-.004	.001-.002
		9-20	.025-.1	.025-.05	.025-.1	.025-.05
Copper-Brass-Bronze	80-85	65-300	.002-.006	.001-.003	.002-.006	.001-.003
	135-202	20-91	.05-.15	.025-.075	.05-.15	.025-.075

**NOTE:** All listed cutting data are standard values only. In case of hard-to-machine materials, we recommend applying cutting speeds that are at the lower end of the range.

**IMPORTANT:**

RECOMMENDED MAXIMUM SPEED IS 6,000 RPM FOR SNAP SERIES 2,3,4. Please contact HEULE for further assistance with your application.