

INVOLUTE GEAR CUTTERS

Module system

There are 8 cutters per module (pitch) with this metric system, and each cutter will cut the range of teeth shown within the pitch. The pitch determines the size of the tooth on a gear wheel and this is worked out by dividing the diameter of the wheel by the number of teeth.

Eg; A 60 tooth wheel with a diameter of 60mm is classed as a 1 Module (60 divided by 60 = 1), a 60 tooth wheel x 30mm Dia = 0.5 Module.

The 8 cutters within this Module or Pitch system all have a slightly different shape in the tooth profile, this is because the mesh angle of a tooth on a 12 tooth gear is different to the one on a 60 tooth gear, this is to allow both wheels to run together when rotating without binding.

CUTTER RANGE

No 8: 12-13 teeth

No 7: 14-16 teeth

No 6: 17-20 teeth

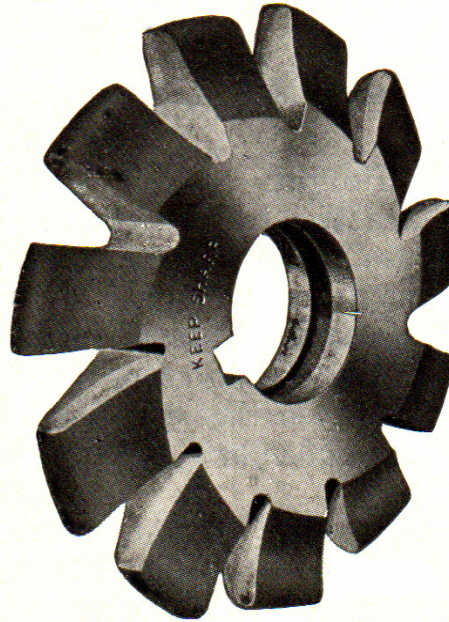
No 5: 21-25 teeth

No 4: 26-34 teeth

No 3: 35-54 teeth

No 2: 55-134 teeth

No 1: 135 to rack



- ◆ **Commercial HSS grade**
- ◆ **20° Pressure angle**
- ◆ **Only available as a set of 8 cutters**

METRIC MODULE GEAR CUTTERS

Module Metric	Cutter Bore Size	Outside Diameter	Approximate Cutting Depth	Part Number
0.3	16mm	40mm	0.65mm	GC-M0.3
0.5	16mm	40mm	1.08mm	GC-M0.5
0.6	16mm	40mm	1.30mm	GC-M0.6
0.7	16mm	40mm	1.51mm	GC-M0.7
0.8	16mm	40mm	1.73mm	GC-M0.8
1.0	22mm	50mm	2.16mm	GC-M1.0
1.25	22mm	50mm	2.70mm	GC-M1.25
1.5	22mm	50mm	3.23mm	GC-M1.5
1.75	22mm	50mm	3.78mm	GC-M1.75
2.0	22mm	60mm	4.31mm	GC-M2.0