

TOOLS NEWS

Gear Cutters

Integral Type Helical Broach



Features

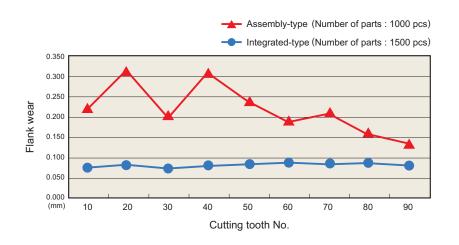
- Integration of the shell and main body results in improving the gear accuracies and reduces the tooth thickness finishing stock.
- The load per cutting edge can be reduced, leading to less wear. This allows the number of regrinds possible to be increased.
- Complex works such as decomposition and assembly of the shell, or a minor adjustment of the phase have become unnecessary, leading to a reduction in running costs.

Machining Example 1

Gear Dimension		
Module	1.2	
Pressure angle	20°	
Number of teeth	82	
Helix angle	25°LH	
Face width	27 mm	
Workpiece	JIS S45C	

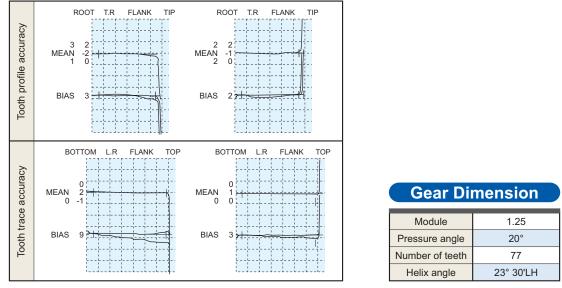
Broach Dimension	
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Outside dia	107 mm
Overall length	1700 mm
Material	M2



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Machining Example 2



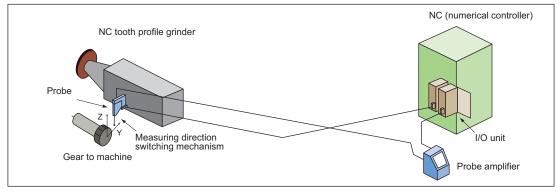
Tooth profile accuracy of machined gear

Inline measurement and grinding technology ensuring high machining accuracy

Mitsubishi Materials has developed a state of the art tooth profile grinder.

This encorporates a measurement device that measures while manufacturing.

This in conjunction with CAD/CAM improves cutting edge positioning and overall accuracies.



Sketch drawing of gear tester

For Your Safety

Opon't handle inserts and chips without gloves. Please use safety covers and wear safety glasses. When using compounded cutting oils, please take fire precautions. When using rotating tools please make a trial run to check run-out, vibration and abnormal sounds etc. Ensure that the insert is correctly set in its location pocket.
Before use, ensure that the tool setup and various settings (machining programme, etc) on the machine are suited to the tool specifications

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(Tools specifications subject to change without notice.)