

Technical Features

EVOLUTION LINE

The Evolution line of Parlec by Gerardi angle head has been designed from a technical base derived from 40 years experience of solving thousands of production problems, finding optimum solutions and always guaranteeing the highest product quality. Over 30 standard angle head types are now offered, designed, built and distributed in more than 50 countries worldwide by Gerardi S.p.A., and available with a range of options to complete their application and performance potentials.

Technical features

1. Minimum thermal expansion and high corrosion resistant treated steel body
2. Modularity: main shaft with interchangeable Drive Taper (Double contact) allows an EVOLUTION angle head to be used on other machining centers with different spindle types and sizes. It is also possible to exchange the anti-rotation (arrester) sub-assembly and the input drive taper with no effect on rigidity or accuracy.
3. All spindles are supported by pairs of preloaded angular contact ball bearings with ABEC 7/9 precision and long life lubrication.
4. Made with Gleason ground spiral bevel gears for optimization in torque availability.
5. More than 42 angle head types available.
6. Among the new range of angle head types the Slim series has reduced weights and overall dimensions with a minimum diameter of 35 mm.
7. Up to 150 psi (10 bar) coolant through the pin (Incl.) in the standard heads. Options include feeding coolant at 150 psi (10 bar) through the cutter spindle or at up to 1000 psi (70 bar) through the machine.
8. Designed for superior heat dissipation and for sustained periods of high speed operations.
9. 100% compatibility with heads installed during the last 40 years (same anti-rotation/arrester pin and stop block dimensions).
10. Parlec by Gerardi Evolution angle heads have been designed and are manufactured in Italy. They are covered by 1 year warranty.

Technical Features

ATC SERIES

ATC angle heads are ideal for CNC machines with automatic tool change and can be automatically transferred from the tool store to the machine spindle and vice-versa.

The orientation ring and arrester arm support ring are both 360° adjustable to allow the best angular orientation. On FMU heads, the cutter spindle housing can be adjusted at $\pm 90^\circ$.

If an ATC angle head is not placed into the machine spindle, a locking system prevents shank rotation relative to the head body.



MTC SERIES



This range of angle heads is for conventional machines without automatic tool change. MTC angle heads (Manual Tool Change) are manually mounted on the machine headstock through a flange.

On FMU heads, the cutter spindle housing can be adjusted at $\pm 90^\circ$.

