



Copy Milling



Pocket Milling



Slotting

# Mirror Ball

## High Precision Indexable Ball Nose End Mill

### High Precision:

Insert radius form accuracy is below  $\pm .0004$ " when fixed to the holder (accuracy below  $\pm .00024$ " on insert alone), increasing the possibility of equal or higher precision machining when comparing solid ball nose end mill machining.

### Cost Performance:

Finishing with Mirror Ball can replace the conventional solid carbide ball nose end mill. By adopting economical indexable insert, tool costs of finishing process can be reduced greatly.



- **Round shape insert with improved edge sharpness**

Adopting the round shape insert can reduce the risk of vibration even in perpendicular wall milling and cut smoothly for intricate form in high speed copy milling.

- **Mirror-S Insert**

"S" shape makes it suitable for high hardened material in high speed cutting. The positive geometry enables it to cut more smoothly.

- **Precision clamp screw mounting**

Strong clamping and accurate location mechanism by using the single precision clamp screw gives high repeatability and rigidity.

- **DZ coating**

The DZ coating (TiAlN coated by PVD process) achieves maximum tool life for finishing operation in high speed cutting.

- **Carbide shank**

Using the carbide shank or carbide holder with modular head achieves maximum tool life and highest precision machining for finishing operation in high speed cutting.