

# UP Boring Holders

UP (Ultra Precision) Boring Holders

Best for adjusting small diameter

Through coolant supply

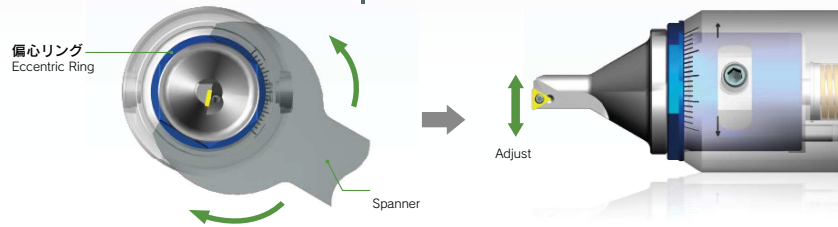


## UPAタイプ Type UPA

Tip diameter can be adjusted by rotating the eccentric ring

Resolution :  $\phi 0.02 / 1$  point Total adjustment :  $\pm \phi 0.2$

Slim shank design

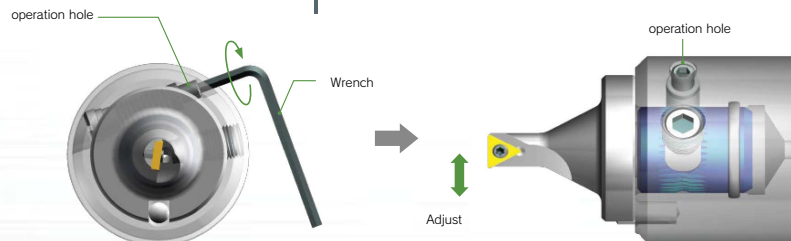


## UPMタイプ Type UPM

Tip diameter can be adjusted by rotating the operation hole

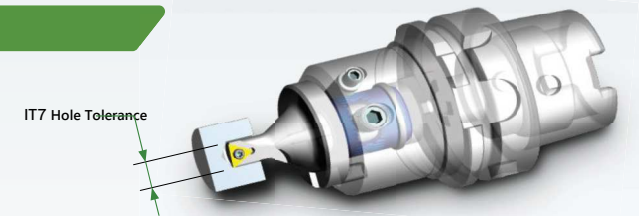
Resolution :  $\phi 0.04 / 1$  Wrench Rotation Total adjustment :  $\pm \phi 0.2$

Short Over All Length design



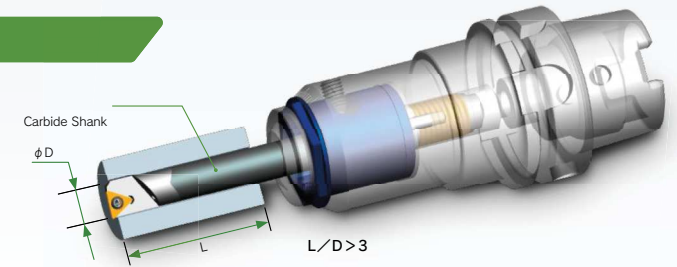
Standard Application

Locate Hole Machining

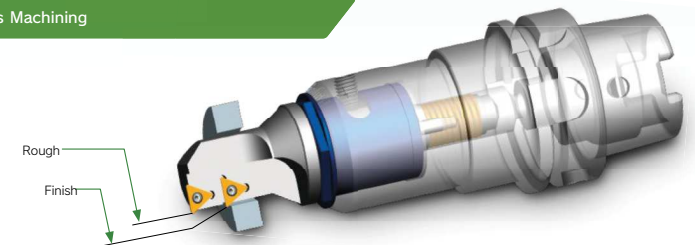


Special Application

① Deep Hole Machining



② Rough + Finish 1 Pass Machining



③ Behind Spot Face Machining

