

## **Power Skiving Unit**

High Productive Manufacturing of ID/OD Gears and Splines with CNC Turning Centers.

Maximum flexibility, high quality, optimal handling.

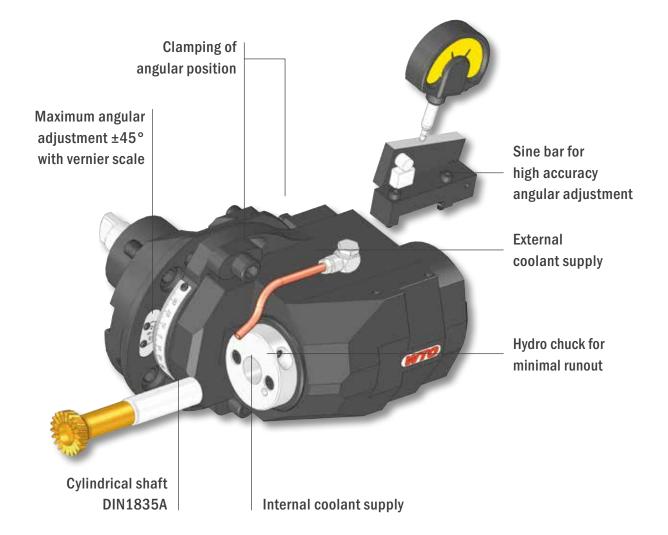


# Power Skiving Unit for ID and OD

Ratio i (n1:n2)1:1Max. RPM (n2)3,000Max. torque M63 NmMax. scale swing α±45°Tool clamping dia.Ø20 DINCoolant supplyinternalMax. coolant pressure1160 PSRequired coolant filtration≤50 µm

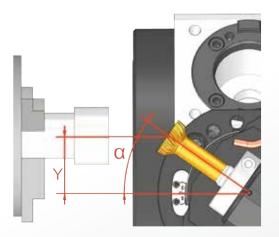
1:1 3,000 63 Nm ±45° Ø20 DIN1835A internal a. external 1160 PSI (80 bar) ≤50 μm

High stiffness and runout accuracyQuick cutting tool change with hydro chuck



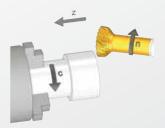


### Operation principle: Power Skiving

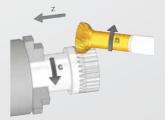


The workpiece axis and the skiving tool axis must be related to each other in a defined angle ( $\alpha).$ 

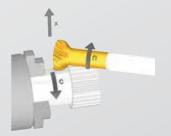
The offset of the cutting tool (Y) caused by rotating to the defined angle ( $\alpha$ ) must be compensated with the Y-axis of the machine.



Synchronization of work piece and tool rotation.



Feed movement in Z-axis.



When skiving is finished the cutter has to move towards X.

#### Please consider:

At the end of the gear/spline there must be sufficient clearance for the cutter.

### Sample workpieces







