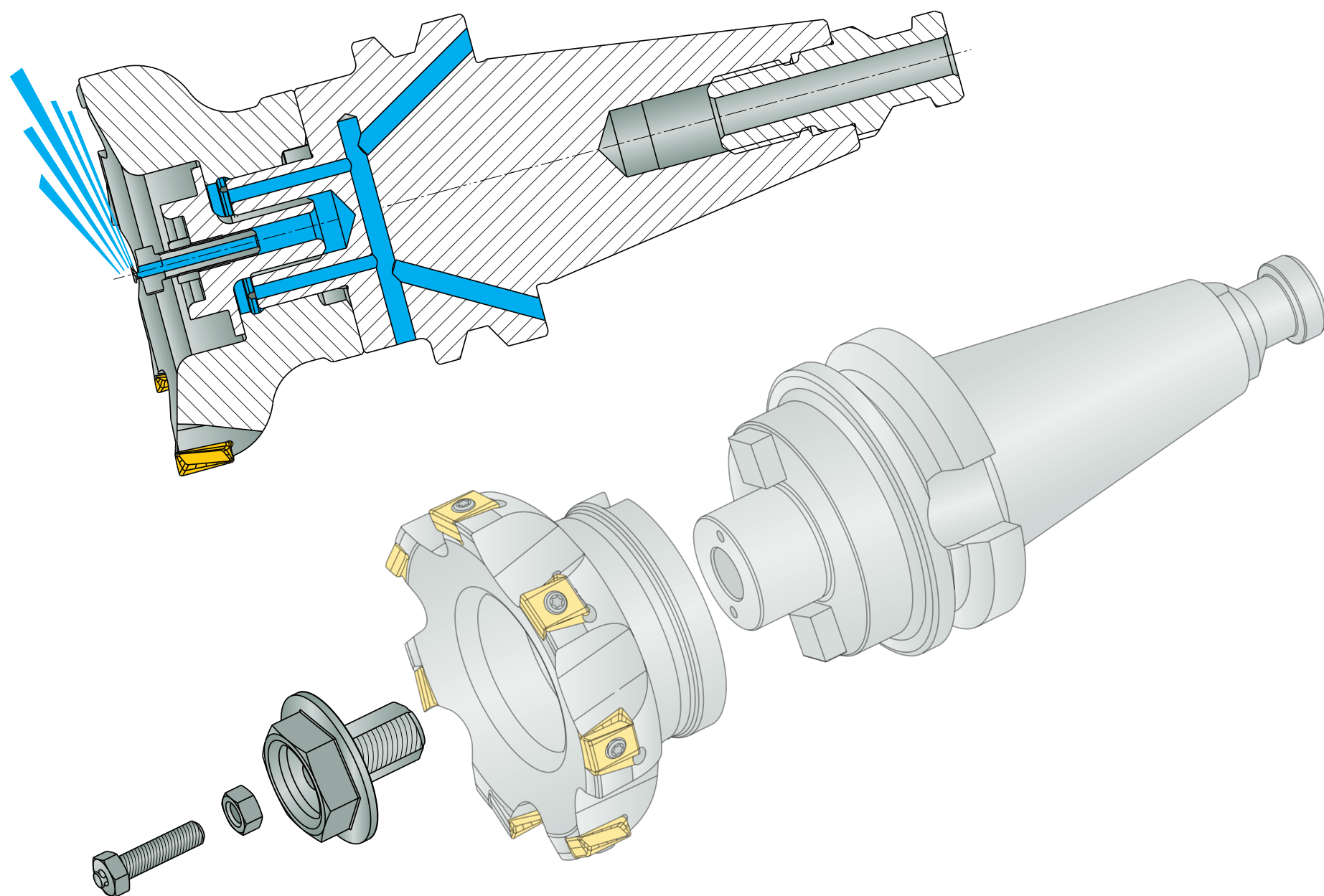


Clamping Screws with Adjustable Protrusion Nozzles for Shell-Type Face Mills

The new screws (designated Coolant set SR ...) were designed for machine tools with the spindle-through coolant supply.

The adjustable protrusion nozzle effectively directs the coolant supply to the cutting zone, thus improving chip evacuation substantially.



Most conventionally designed shell mills are equipped with coolant holes. The coolant holes are usually located in the chip gullets, directed towards the cutting edges. This design ensures coolant supply at the cutting zone, but in many cases does not facilitate chip evacuation, as the coolant flow tends to push the chips back towards the inserts.

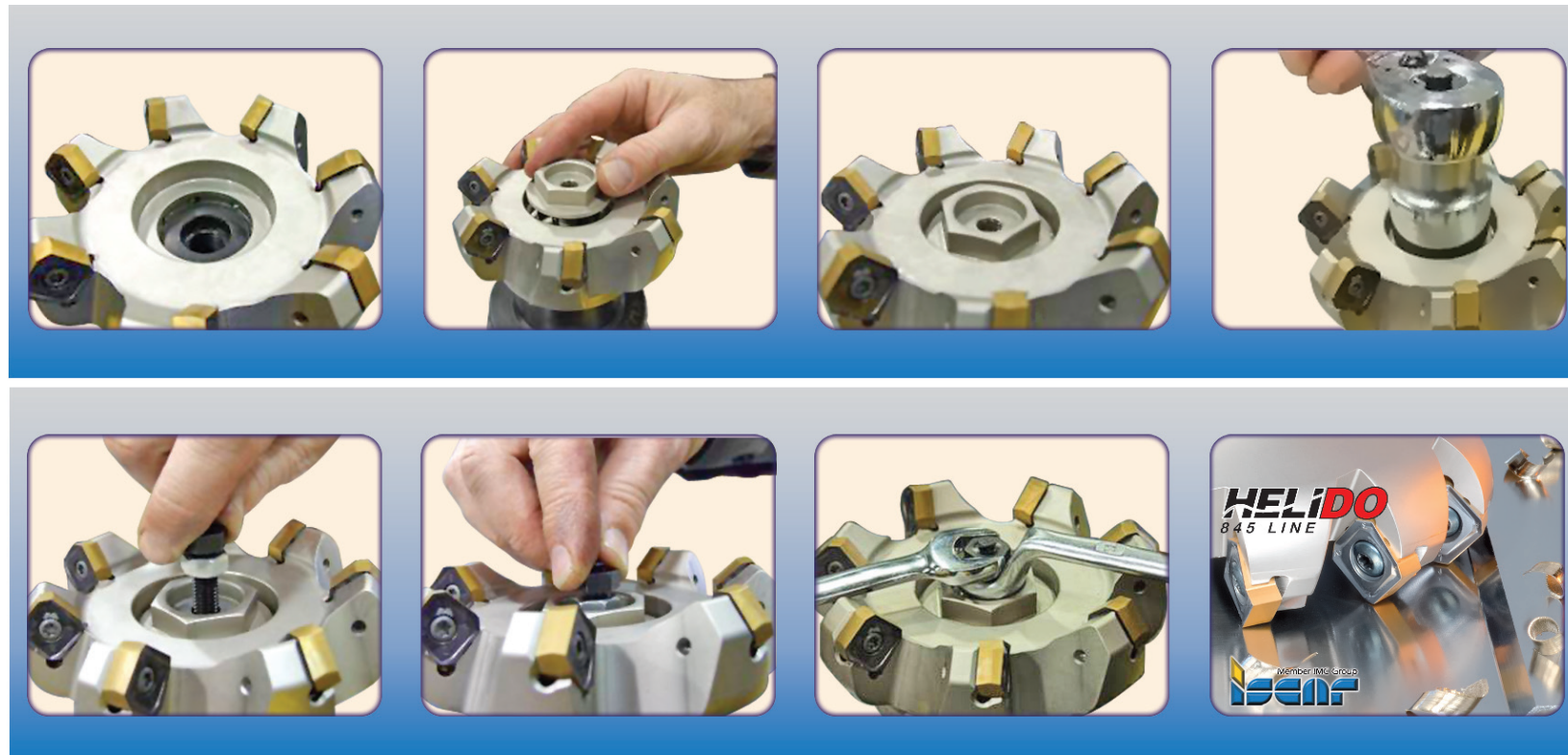
The protrusion of the nozzle screw can be easily adjusted according to countersink depth, insert size or any other application requirements. The nozzle screw position can be secured by a locking-nut.

Tests show that cutting fluid supplied through the axis of a tool and directed radially at the bottom of the tool, dramatically improves both the cooling effect and chip evacuation.

The screws are offered as sets, comprising a nozzle screw, a locking screw, a locking-nut and washers.

The locking-nut can be tightened by a standard open-ended wrench, or preferably by an offset ring wrench (ISO 10104, DIN 838 or DIN 897 standards).

Assembly with a lock nut



Assembly without a lock nut

