



that mate exactly with the surfaces of the chuck. Whether the chuck is open or closed, the clamping taper is completely sealed.

The reduced surface pressure and the full surface contact of the clamping segments increases the radical clamping force. In addition, the large clamping area is suited for raw materials, cast and forged parts. A single grease nipple provides lubrication, but this can also occur automatically through machine coding.

*Hainbuch America Corp., call 414-358-9550, or search [mmsonline.com/suppliers](http://mmsonline.com/suppliers)*

### ONE CLAMPING MODULE FOR VIRTUALLY ALL WORKPIECES

The Kontec KSC from Schunk is a multi-functional manual clamping system that can be adjusted for conventional clamping; five-sided machining with low clamping depths; molded parts; plates; or workpieces with saw-cut surfaces. Its design facilitates the assembly of high supporting jaws for five-axis machining. The clamping module is

provided clamps. The system operates with shop air at pressures ranging from 70 to 100 psi, eliminating the need for vacuum pumps and coolant traps. For grinding and machining thin material, users can remove  $1/2$ " pins and use set screws to locate workpieces and aid in holding force. The company also helps users design and produce vacuum fixtures for custom applications.

*Mitee-Bite Products Company, call 800-543-3580, or search [mmsonline.com/suppliers](http://mmsonline.com/suppliers)*

### CHUCK FOR MACHINING CAST OR HARDENED PARTS

Hainbuch's TOPlus chuck for machining cast or hardened parts is equipped with a hexagonal core made of cast resin. This makes the chuck lighter than steel chucks, resulting in lower inertia during high spindle acceleration. The resin also has a positive dampening effect to prevent component ringing during hard turning operations.

Six angled steel plates, which are cast in resin, form the chuck taper. To match this arrangement, the clamping head also has six flat outer surfaces

