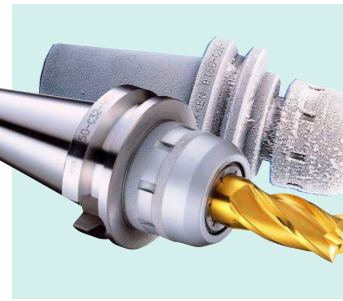


NIKKEN's Proposal for Improved Quality and Productivity.

Total management of M/C manufacturing methods & technologies.



HUMANWARE

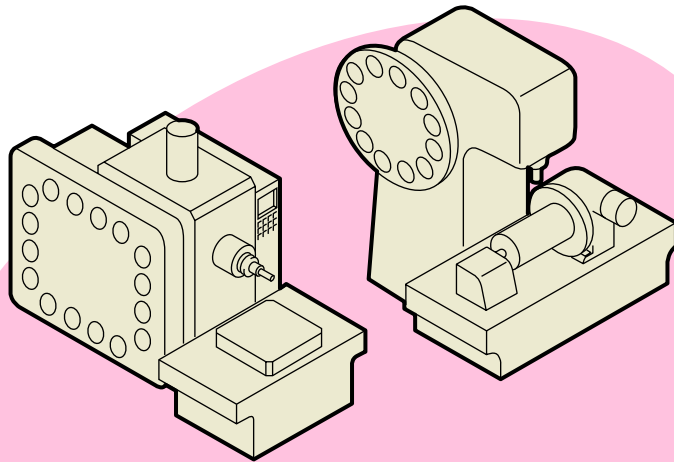
The effective utilization of M/C depends upon the insight and skill of shop floor people. Harmonization in the selection of machine, tooling, fixtures, peripherals, cutting tools under a coordinated shop floor management is the key to success.



COMBAT Z DRILL
P.179



REAMER SERIES
P.159

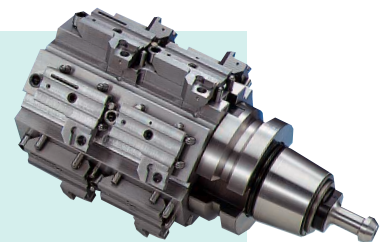
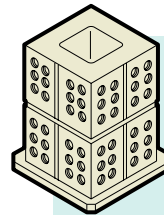


M/C OFFERS INVALUABLE OPPORTUNITIES FOR AUTOMATED, UNATTENDED MACHINING, when proper tooling, work holding and fixtures technologies are applied all in HARMONY.

CUTTING TOOLS

Relatively simple tools like drills and face mills also need careful attention for stable and effective swarf making. For instance, high speed steel tools can be more effective than carbide tools with certain work pieces and materials.

For another instance, why not a reamer for inspection/proof after boring?



FIXTURES

Work holding fixtures and power clamping systems for a variety of large or small batch work pieces.

Well designed fixtures can achieve cost effective parts manufacture. Fixtures (as shown above) effectively reduce ATC operations and drastically reduce cycle time.