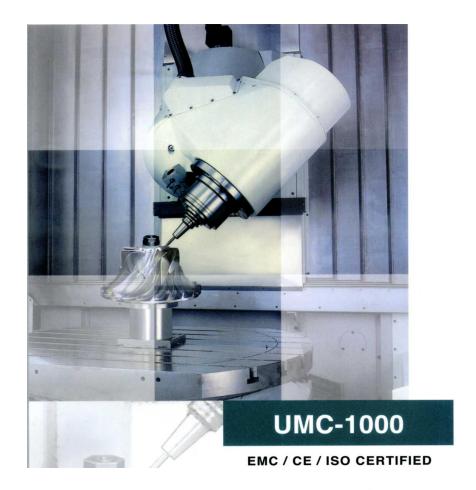


台灣力得衛宇龍科技(股)公司

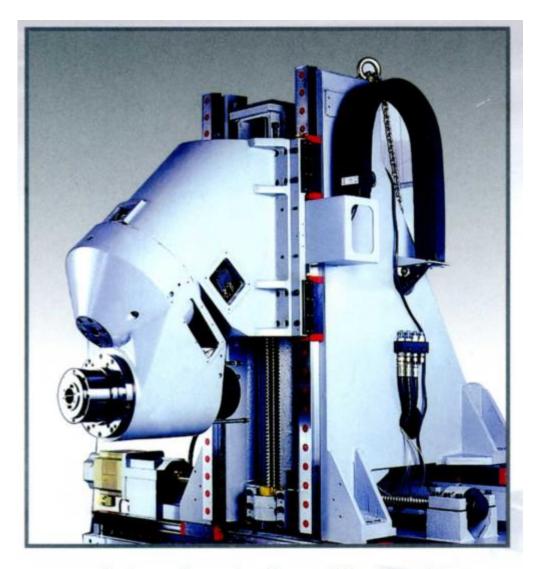
LEADERWAY CNC TECHNOLOGIES, CO., LTD..





5 AXES MACHINING CENTER





Automatic swiveling milling head

• UMC-1000 5 AXIS SIMULTANEOUS MILLING CENTER:

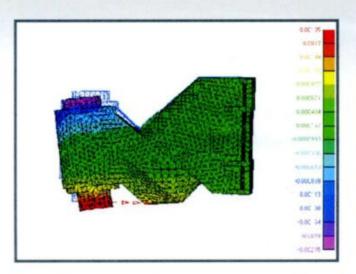
- 1000mm x 800mm x 700mm three axis travel
- 1000mm x 800mm working rotary table with
 1500kg load
- 0.001 degree swivel milling head and rotary table
 Torque motor driven B axis swivel milling head
 Worm gear driven C axis rotary table
- Standrard 3 axis linear scales + 2 axis rotary encoders
- BT#40 / 14000RPM / 29.3KW motor spindle
- Time saving thanks to multi-sided machining without having re-set

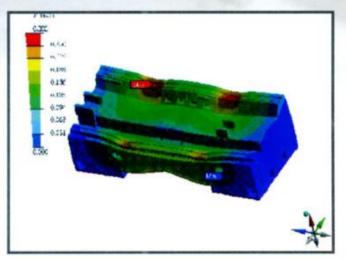
- Maximum productivity thanks to rapid movement and high acceleration
- Unlimited flexibility & versatility when manufacturing individual part
- Maximum stability thanks to optimum load distribution
- Highest machine precision repeatability thanks to the avoidence of any axis overlapping

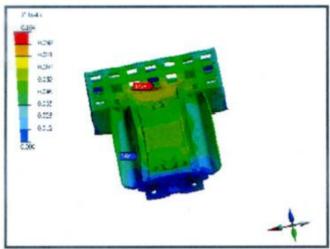


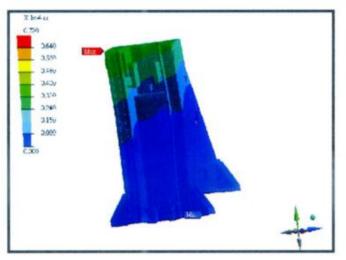
O RIGID CASTNG FRAME

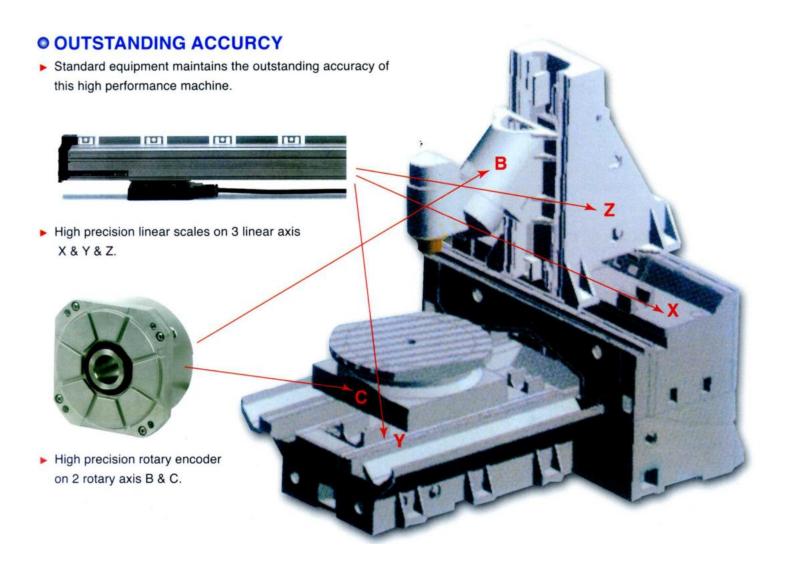
Using the most advanced Computer Aided Design and Finite Element Method analysis programs, an extremely rigid casting frame is being created.











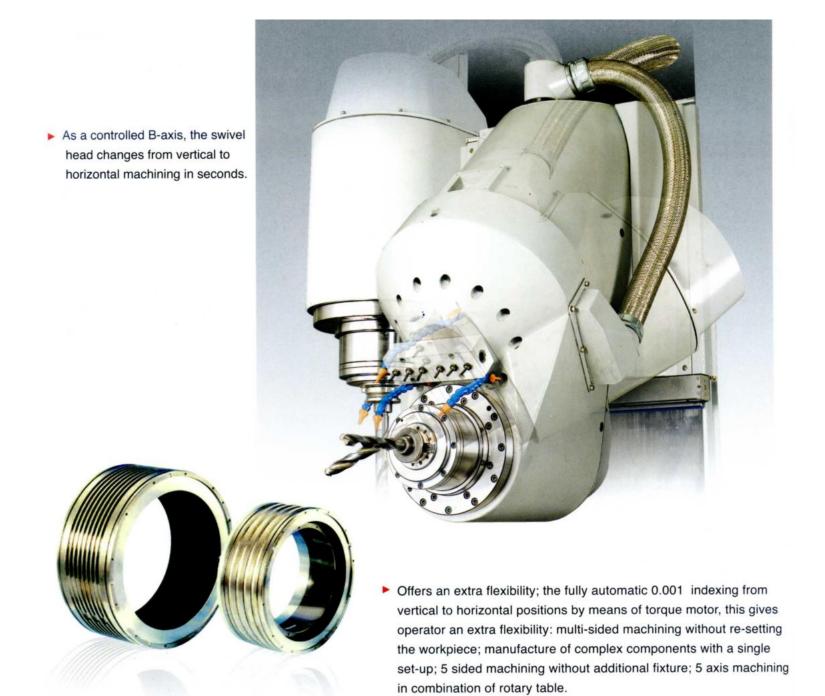
BAXIS INNOVATIVE SWIVEL MILLING HEAD







► The latest technology torque motor manages the B axis continuous swivel milling head, it guarantees maximum movement dynamic and linearity and thanks to the absence of those traditional mechanical kinematics parts, it results a much higher performance on finishing surface. The direct reading system by a high precision angular encoder is being integrated for maximum precision.

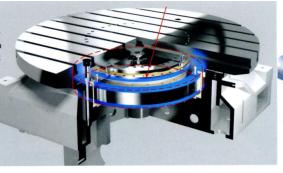


C AXIS DURABLE CNC ROTARY TABLE



O OPTIONAL:

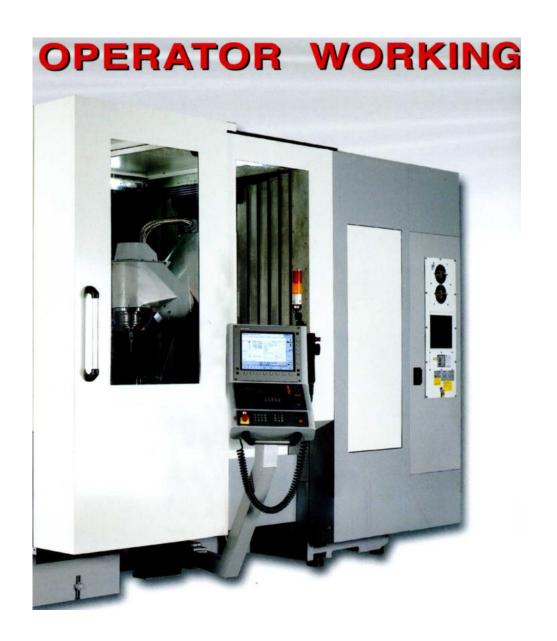
▶ 1000mm diameter torque motor drive rotary table with maximum rotation 60 RPM, 1820Nm peak torque, 4000Nm brake torque, 1200kg load, +-5" / +-2.5" positioning / repeatability accuracy, German made!

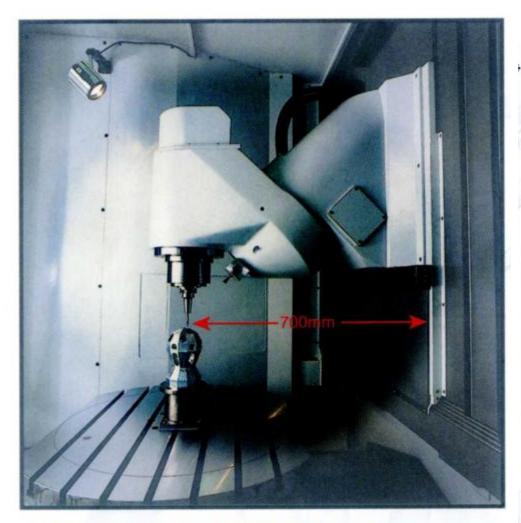




O STANDARD:

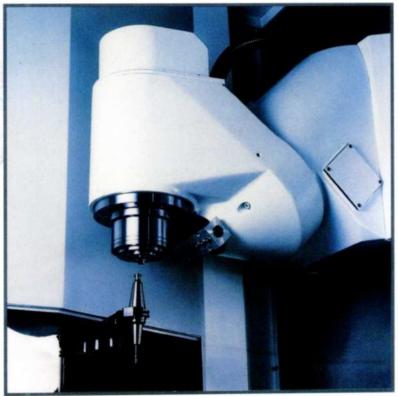
1000mm x 800mm dimension with 1500kg load driven by AC servo motor, it can be indexing 0.001° by high precision worm gear, clamping force up to 9000kg, positioning by hydraulic cylinder; a high precision rotary encoder is included.





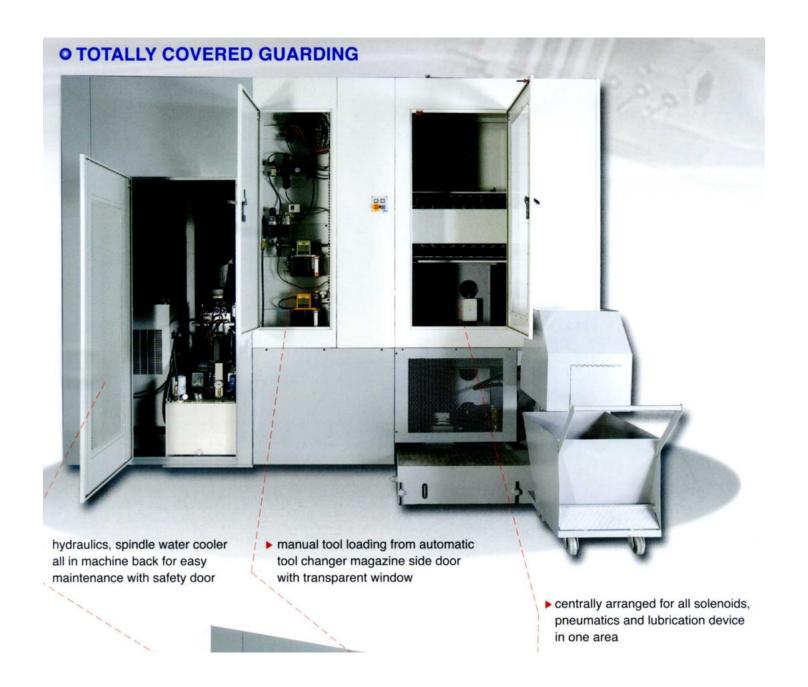


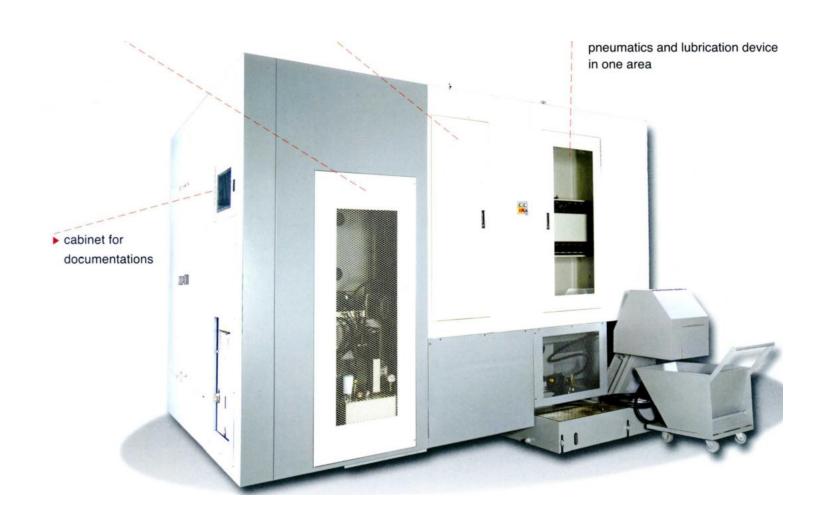
A very wide distance 700mm between spindle center and X axis slideway cover, this gives operator a great convenience of different workpiece setup.



O AUTOMATIC TOOL CHANGER

A 40 positions double swing arm ATC provides as standard for most of machining applications.



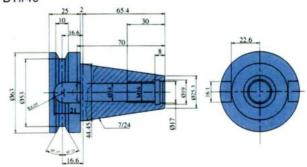


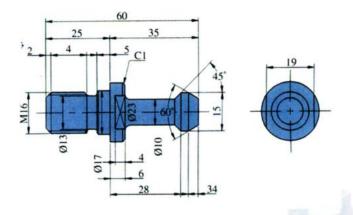


Models	N14D	C18	C24
Max. speed - RPM	14000	18000	24000
Rated speed - RPM	4000	2000	4500
Spindle taper	BT#40	HSK-A63	HSK-A63
Housing diameter - MM	210	180	180
Power S1/S6 - KW	29.3 / 35	21 / 27	34 / 43
Torque S1/S6 - Nm	70 / 160	100/130	72 / 91
Bearings diameter - MM	70	70	65
Coolant thru spindle	OPT	OPT	OPT
Air thru spindle	N/A	OPT	OPT

STANDARD:

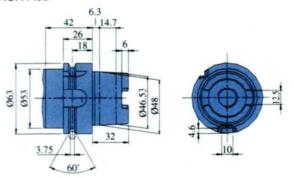


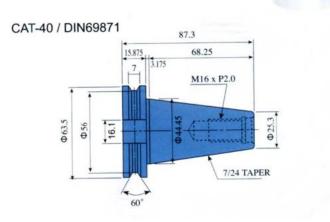




OPTIONAL:

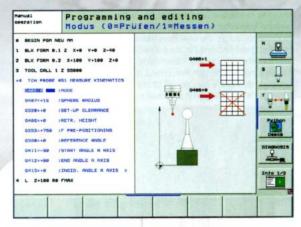
HSK-A63



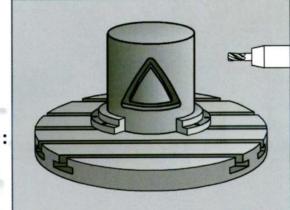


DIGITAL CNC CONTROL





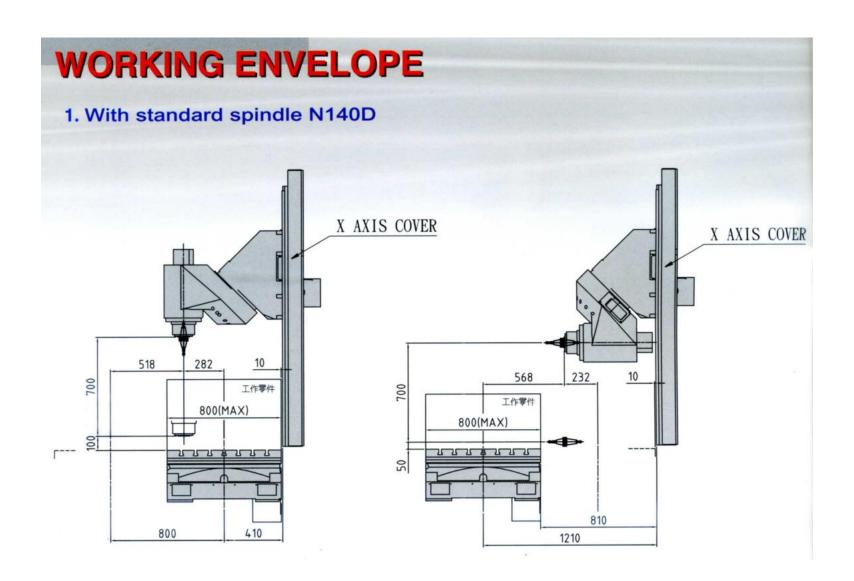
Inspecting and optimizing machine accuracy by calibrating rotary axes with kinematics



Cylindrical surface interpolation

Heidenhain iTNC-530 HSCI newest control:

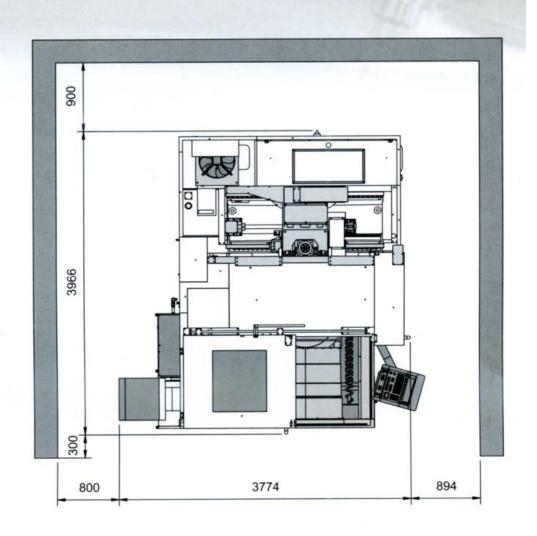
- 1. MC 6222 1.8GHz more powerful CPU than before
- 2. 32G SSDR storage media resistance to vibration
- 3. New HEROS 5 operating interface with PDF viewer
- 4. TE 630 key board & MB 620 panel & 15" XGA screen



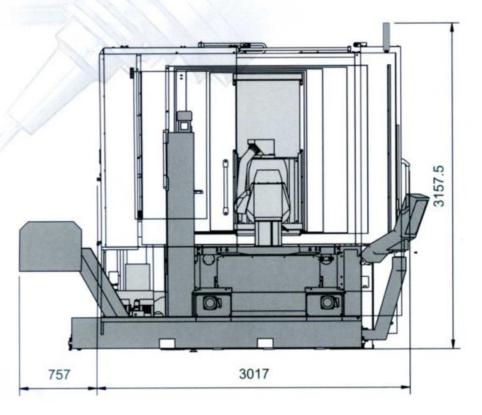
2. With optional spindle C18 / C24 X AXIS COVER X AXIS COVER South and the spindle C18 / C24

MACHINE DIMENSION

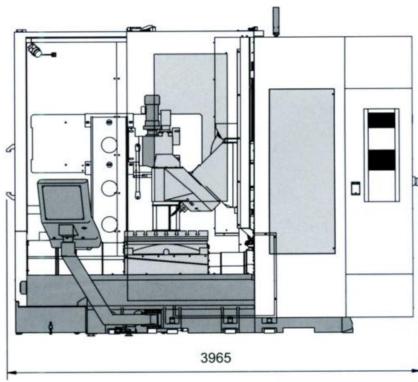
1. TOP VIEW



2. FRONT VIEW

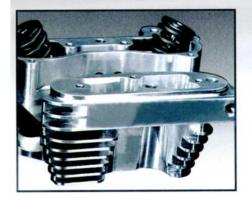


3. SIDE VIEW



APPLICATIONS

▶ The milling center can be used not only the typical various turbo impeller industries but also servicing aerospace aviation, automotive, medical and mould industries etc.



1. CYLINDER

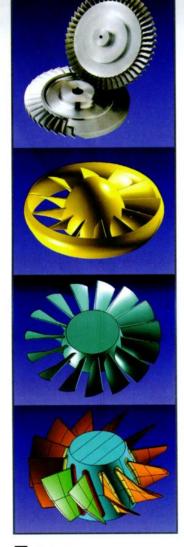


2. SHAFT



3. MOULD





4. WHEEL





6. TURBO IMPELLERS 10-BLADES 16-BLADES

MACHINE SPECIFICATIONS

ROTARY TABLE	table dimension T slots (width x No. x pitch) height of table to floor maximum load of fixed table index increment	1000mm x 800mm 18mm x 7mm x 100mm 1000mm 1500kg 0.001° x 180,000
TRAVEL	XYZ	1000mm x 800mm x 700mm
TILTING SPINDLE	spindle taper spindle speed RPM spindle front bearing diameter spindle center to slideway cover spindle to table (vertical) index increment	BT#40 (HSK-A63) 14000rpm (18000rpm, 24000rpm) 70mm (65mm) 700mm 100mm - 800mm 0.001° x 180,000
AUTOMATIC TOOL CHANGER	tool capacity max. length / diameter / weight tool to tool time required tool balance	40 (52) 300mm / Ф 120mm / 7kg 3 seconds 2.5G
MOTORS	main spindle motor power (S1 /S6) X / Y / Z / B / C axis motor torque	29.3 / 35kw (opt see page 9) 27/48/48/1320/48Nm
FEEDRATE	axis rapid feed cutting feedrate	24m / min 20m / min
ROLLER GUIDEWAYS	XYZ	2 pcs. x 55mm x 4 bearings / axis
BALLSCREWS	X / Y / Z axis diameter X / Y / Z axis pitch transmission precision class	50mm 12mm direct coupling C3, 0.008mm/ 300mm
LUBRICATION SYSTEM	pump motor tank capacity	25w x 2 pcs 4l x 2 pcs
COOLANT SYSTEM	pump motor tank capacity	4 bar 400 l
WEIGHT	net	15000kg

STANDARD FEATURES & ACCESSORIES

- 1. FULL SPLASH GUARD WITH TOP ROOF
- 2. PROGRAMMABLE COOLANT SYSTEM 8. RS-232 TERMINAL INTERFACE PORT
- 3. AUTOMATIC LUBRICATION SYSTEM 9. MACHINE & CONTROL MANUALS
- 4. SPINDLE AIR BLAST SYSTEM
- 5. WORK ALARM, INDICATON LAMPS
- 6. SPINDLE WATER COOLER

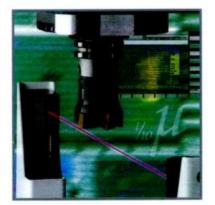
- 7. LEVELLING BOLTS & PADS

- 10. TOOLBOX WITH SPANNERS & WRENCHES
- 11. CHAIN TYPE CHIP CONVEYORS + 2 SCRCW CHIP AUGERS
- 12. 3 AXIS LINEAR SCALES + 2 AXIS ROTARY ENCODERS

OPTIONAL ACCESSORIES:



TOOL PROBE



TOOL LASER MEASUREMENT



WORK PLECE PROBE



COOLANT THUR SPINDLE DEVICE





Thanks for your attentions.



