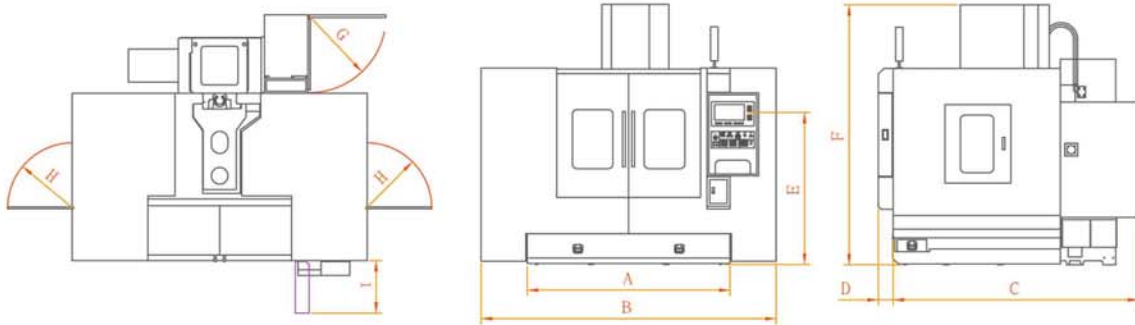


EmL-510 - 610

NCT[®]

EmL-510 - 610



EmL-610 - 610 machine dimension

	A	B	C	D	E	F	G	H	I
EmL-510	2000	2000	2140	165	1650	2460	R835	R655	570
EmL-610	2160	2160	2270	165	1650	2550	R835	R655	570

Manufacturer

NCT[®]

NCT IPARI ELEKTRONIKAI Kft.

H-1148 Budapest, Fogarasi út 7.

Tel: (+36-1) 46-76-300 Fax: (+36-1) 46-76 309

nct@nct.hu

www.nct.hu

Distributor



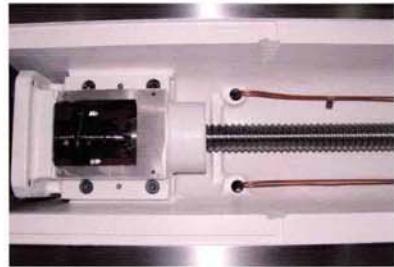
HIGH SPEED AND ACCURACY

VERTICAL MACHINING CENTRE

Eml-510 - 610

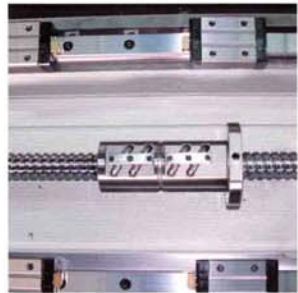
RIGID MEEHANITE CASTING

- Main frame of meehanite casting is annealed & stress relieved
- Stability / heavy loading / high accuracy
- No vibration



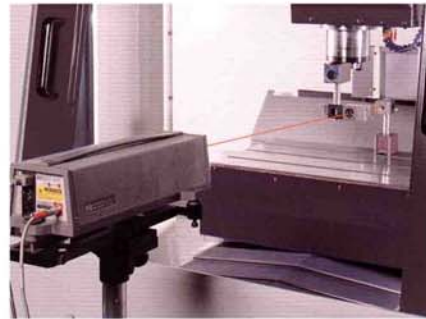
DIRECT DRIVE BETWEEN MOTOR AND BALLSCREWS

- Ballscrews supported and preloaded over high precision bearings
- Initial preload preservation
- Life Grease
- High stability security



LINEAR GUIDE WAYS

- Telescoping steel XYZ way covers protect ways & ball screws from dust & coolant
- High accuracy linear guide ways recirculating ball bearing and guide way
- Digital HPSC drive control



CONTROL

- Positioning and repeatability precision control
- Interpolation precision control

LIQUID COOLANT MAIN SPINDLE

- 8000 rpm, 12000 rpm with belt drive
- 24000rpm with built in spindle motor
- High torque and rigidity
- Simple cheap maintenance
- Life time lubrication, bearing protection by press air
- Main Spindle temperature control by 2 circuits digital controlled liquid cooler
- >8KN tool pulling force



SPECIFICATION	Eml-510	Eml-610
TABLE		
Table size [mm]	600 x 320(23.6"x 12.6")	800 x 450(31.5"x 17.71")
T-slot of table (Size x Q' ty x distance) [mm]	14 x 3 x 100 (0.6"x 3 x 3.9")	18 x 3 x 100 (0.71"x 3 x 3.9")
Max. load capacity [kg]	300Kg (660 lbs)	400Kg (880 lbs)
TRAVEL		
X Travel [mm]	510(20")	610(24")
Y Travel [mm]	410(16")	460(18")
Z Travel [mm]	460(18")	510(20")
Spindle nose to top of table [mm]	127 ~ 587 (5"-23")	125 ~ 635(5" ~ 25")
Column surface to center of table	225 ~ 635 (9"-25")	323~783(12.7"-30.8")
SPINDLE		
Spindle taper	SK40 (op. CAT40, BT40, ISO30)	SK40 (op. CAT40, BT40, ISO30)
Spindle speed	8000 (op-1. 12000 belt drive op-2. 24000 motorspindle)	8000 (op-1. 12000 belt drive op-2. 24000 motorspindle)
Spindle power continous/max. [KW]	7/10.5 (op-2. 8.5/10.2)	7/10.5 (op-2. 8.5/10.2)
Spindle torque continous/max.. [Nm]	68/102 (op-1. 45/68) (op-2. 12/15)	68/102 (op-1. 45/68) (op-2. 12/15)
Spindle center to column front surface [mm]	430 (17")	553 (21.77")
FEED RATE		
Rapide feed rate X/Y/Z [m/min]	30/30/24	30/30/24
Feed rate X/Y/Z [m/min]	30/30/24	30/30/24
AUTOMATIC TOOL CHANGER		
No. of tools	12/ genoa type (op. 20/ arm)	16/genoa type (op.24/ arm)
Max. tool diameter [mm]	100 (3.94")	100 (3.94")
Max. tool length [mm]	300 (11.8")	300(11.8")
Max. tool weight [kg]	6 (13.2 lbs)	6 (13.2 lbs)
ACCURACY		
Positioning accuracy [mm]	± 0.008	± 0.008
Repeatability [mm]	± 0.003	± 0.003
Resolution [mm]	± 0.0005	± 0.0005
MACHINE DIMENSION		
Machine weight [kg]	2800 (4840 lbs)	4000 (8800 lbs)
Machine dimension (LxWxH) [mm]	2000 x 2400 x 2200	2200 x 2760 x 2300
Power requirement [KVA]	15	15

Technical modifications reserved

OPTIONS

- 12000 RPM / SK40
- 24000 RPM / ISO30 built-in motorspindle
- Cooling through tool (6BAR, 30BAR, 70BAR)
- 20 (Eml-510) and 24 (Eml-610) tools arm type tool changers
- Chip conveyor (screw type, belt type)
- Cooler liquid cleaning with paper filter
- Climate for electrical cabinet
- Tool and workpiece measuring in the working area
- 4. and 5. rotating shafts
- WINDOWS, HARD DISC, USB ETHERNET
- integrated in CNC
- Graphic way dialog programming
- VECTOR programing integrated in CNC
- 4D, 5D programing by EdgeCam software
- Extended long term accuracy by HEIDENHAIN linear scale

NCT CONTROLLER

- 15" color LCD graphic display
- Selectable language
- 100% FANUC like programming and operating
- HSHP (High Speed high precision Contouring)
- Smoothing interpolation
- Rigid Taping
- By parameter selectable language of screen and dialogue
- Program memorised 16MB
- Max 20 memorysed programs
- High speed graphical test
- EnDat absolut scaling
- Event history and evaluation