Machine Name : Boring and milling machine

Brand : Nicholas

Machine Model : DIANA 35

Stock No. : 4810845

Ex-factory Date : 2011



Main Technical Parameters:

CNC System: Heidenhain
Three-Axis Travel: 3500 x 1000 x 1000 mm
Worktable Size: 3800 x 900 mm
Maximum Load: 6,500 kg
Spindle:
Type: ISO 50
Power: 22 kW
Speed Range: 20-3000 rpm
Fast Traverse Speed (X/Y/Z): 20,000 mm/min
Tool Magazine: 30 tools, ATC
Configuration: Hydraulic Tool Clamping
Milling Head: Automatic Indexing UDG40, with 2.5° indexing





PamtonSchnell





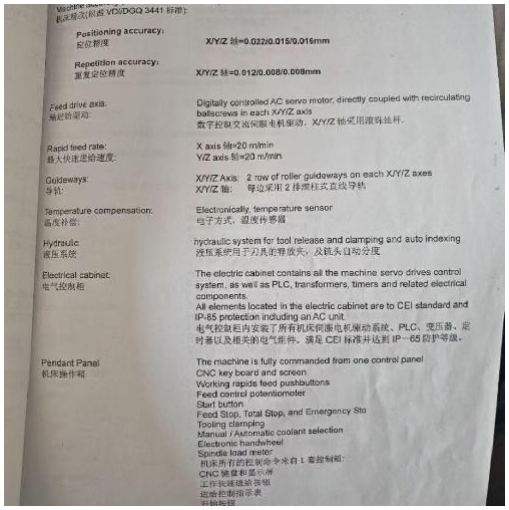


BED-TYPE CNC MILLING MACHINE
MODEL: DIANA 35
C/W Heidenhain ITNC 530 controller with standard equipment

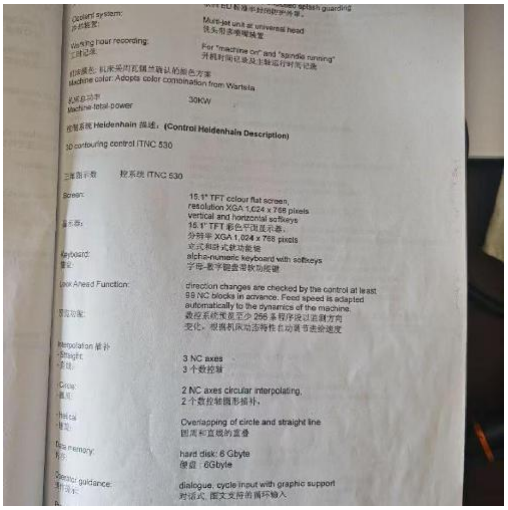
Table size: 工作台面积	3800mmX900mm
T Slots T 型槽	5x22mm (H12, 间距 with distance between=200mm)
Traverse range: 行程	Longitudinal 纵向: X =3500 mm Cross 横向: Y =1000 mm Vertical 垂向: Z =1000 mm
Machine Dimensions 机床占地尺寸(长，宽，高)	约 9114mmX5070mmX2803mm
Machine Net Weight 机床净重	约 17000 kg
Max. Carrying load on the table 工作台最大承载重量：	6500Kg

DIANA-35 的技术参数
UDG 型万能四轴式自动分度铣头
AUTO INDEXING MILLING HEAD UDG-40

Spindle Taper 主轴锥度	ISO-50 (DIN 69871)
Distance of front bearing Diameter 主轴前端直径	85mm
Pull stud 拉钉规格	DIN 69872
Spindle speed range 主轴转速范围：	20~3000rpm
Full power of 22 Kw 恒功率 (22 kW) 时	550~3000 rpm
Constant torque at 382 Nm	20~55Drpm



Positioning accuracy: 定位精度	X/Y/Z 轴=0.022/0.015/0.016mm
Repetition accuracy: 重复定位精度	X/Y/Z 轴=0.012/0.008/0.008mm
Feed drive axis: 轴进给驱动:	Digitally controlled AC servo motor, directly coupled with recirculating ballscrews in each X/Y/Z axis 数字控制交流伺服电机驱动，X/Y/Z 轴采用滚珠丝杆。
Rapid feed rate: 最大快速进给速度:	X axis 轴=20 m/min Y/Z axis 轴=20 m/min
Guideways: 导轨:	X/Y/Z Axis: 2 row of roller guideways on each X/Y/Z axes X/Y/Z 轴: 导边采用 2 排滚柱式直线导轨
Temperature compensation: 温度补偿:	Electronically temperature sensor 电子方式，温度传感器
Hydraulic 液压系统	hydraulic system for tool release and clamping and auto indexing 液压系统用于刀具的释放夹，及铣头自动分度
Electrical cabinet: 电气控制柜	The electric cabinet contains all the machine servo drives control system, as well as PLC, transformers, timers and related electrical components. All elements located in the electric cabinet are to CEI standard and IP-65 protection including an AC unit. 电气控制柜内安装了所有机床伺服电机驱动系统、PLC、变压器、定时器以及相关的电气部件。满足 CEI 标准并达到 IP－65 防护等级，
Pendant Panel 机床操作箱	The machine is fully commanded from one control panel CNC key board and screen Working rapids feed pushbuttons Feed control potentiometer Start button Feed Stop, Total Stop, and Emergency Sto Tooling clamping Manual / Automatic coolant selection Electronic handwheel Spindle load meter 机床所有的控制命令来自 1 套控制箱： CNC 键盘和显示屏 工作快速进给按钮 进给控制电位计 启动按钮



Coolant system:	Multi-jet unit at universal head
Working hour recording:	For "machine on" and "spindle running"
Machine color: Adopts color combination from Wartsila	
Machine total power	30kW
控制系统 Heidenhain 描述：(Control Heidenhain Description)	
3D contouring control ITNC 530	
三维显示数	控系统 ITNC 530
Screen:	15.1" TFT colour flat screen, resolution XGA 1,024 x 768 pixels vertical and horizontal softkeys 15.1" TFT 彩色平面显示器， 分辨率 XGA 1,024 x 768 pixels 垂式和水式软功能键
Keyboard:	alpha-numeric keyboard with softkeys 字母-数字键盘带软功能键
Look Ahead Function:	direction changes are checked by the control at least 88 NC blocks in advance. Feed speed is adapted automatically to the dynamics of the machine. 最控系统预见至少 88 条程序段以达就方向变化，根据机床动态特性自动调节进给速度
Interpolation 差补	3 NC axes 3 个数控轴
Circle:	2 NC axes circular interpolating, 2 个数控轴圆形插补，
Overlapping of circle and straight line 圆周和直线的重叠	
Data memory:	hard disk: 6 Gbyte 硬盘：6Gbyte
Operator guidance:	dialogue, cycle input with graphic support 对话式，图文支持的循环输入