

Machine Name : Boring and milling machine

Brand : Nicholas

Machine Model : DIANA 35

Stock No. : 810845

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

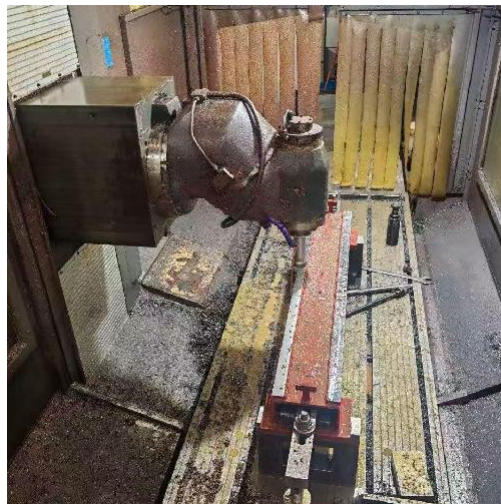
Fast Traverse Speed (X/Y/Z): 20,000 mm/min

Tool Magazine: 30 tools, ATC

Configuration: Hydraulic Tool Clamping

Milling Head: Automatic Indexing UDG40, with 2.5° indexing





海德汉 (TNC530 控制系统, 并配有标准配置) BED-TYPE CNC MILLING MACHINE MODEL DIANA 35 CWW Heidenhain TNC 530 controller with standard equipment	
Table size: 工作台面积	3800mmX3000mm
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 垂直: Z=1000 mm
Machine Dimensions 机床占地尺寸(长, 宽, 高)	约 9114mmX5670mmX2803mm
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 刀头能回转头式自动分度铣头 AUTO INDEXING MILLING HEAD UDG-46	
Spindle Taper 主轴锥度	ISO-50 (DIN 69871)
Distance of front bearing Diameter 主轴承直径	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 最大功率 (22 KW) 时	500-3000 rpm
Constant torque at 382 Nm 最大扭矩 382 Nm	20-550rpm

Machine model 机床型号: VDI/DIN 3441 标准	
Positioning accuracy: 定位精度	XYZ 轴: ±0.022/0.015/0.016mm
Repetition accuracy: 重复定位精度	XYZ 轴: ±0.012/0.008/0.008mm
Feed drive axis: 进给驱动轴	Digitally controlled AC servo motor, directly coupled with recirculating ball screws 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 30m/min Y/Z axis 20m/min
Guideways: 导轨	XYZ Axis: 2 row of roller guideways on each X/Y/Z axes XYZ 轴: 每轴采用 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 液压系统用于刀具松开/夹紧, 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-55 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元件。满足 CEI 标准并达到 IP-55 防护等级。
Pendant Panel 机床操作柜	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 Stop Tooling clamping Manual / Automatic coolant selection Electronic handwheel Spindle load meter 机床所有的控制命令来自 1 套控制柜: CNC 键盘显示器 工作进给/快速进给按钮 进给控制电位器 启动按钮

Client system: 客户系统	
Machine color recording: 记录机床颜色	Machine color: Adopt color combination from Wartsila 机床颜色: 采用瓦锡兰公司颜色组合
Machine total power 机床总功率	30KW
海德汉 Heidenhain 系统: (Control Heidenhain Description) ISO contouring control TNC 530	
Screen: 显示器	15.1" TFT colour flat screen, resolution XGA 1,624 x 1,280 pixels vertical and horizontal softkeys 15.1" TFT 彩色液晶显示屏 垂直/水平软键
Keyboard: 键盘	Machine color: Adopt color combination from Wartsila 机床颜色: 采用瓦锡兰公司颜色组合
Look Ahead Function: 前瞻功能	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. 数控系统提前至少 88 个程序段以预测方向变化, 根据机床动态特性自动调节进给速度
Interpolation: 插补	3 NC axes 3 个坐标轴
Circle: 圆弧	2 NC axes circular interpolating, 2 个坐标轴圆弧插补
Helical: 螺旋	Overlapping of circle and straight line 圆弧和直线的重叠
File memory: 文件存储器	hard disk: 6 Gbyte 硬盘: 6Gbyte
Distance guidance: 距离引导	dialogue, cycle input with graphic support 对话式, 图文支持的循环输入