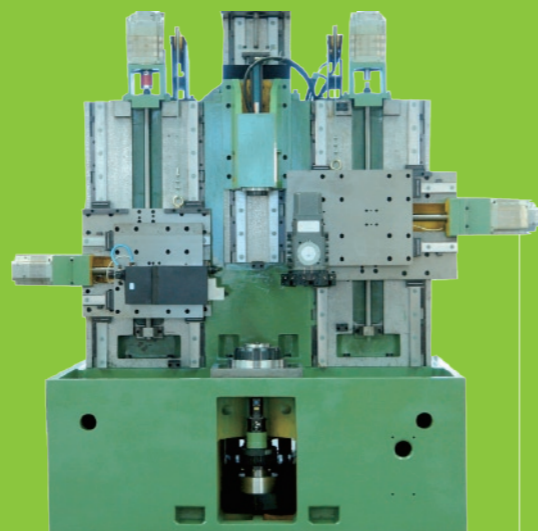


# ECK2540



ECK2540光机



ECK2540  
数控活塞外圆加工中心

长沙一派数控机床有限公司

## ECK2540

数控活塞异形外圆车床  
CNC For Piston Contour

### 功能简介 | Brief Introduction of Functions

- 本机床采用立式布局，左右溜板结构，一次装夹中完成活塞异形外圆、环槽、顶面和环槽异形角的加工；
- 配置西门子840D系统和西门子交流伺服系统；
- 配置三刀直线伺服刀架（一派数控专利产品），该机床可加工中凸变椭圆或其它复杂形状的活塞外圆，三个刀具采用不同的材质或形状，分别车削活塞裙部、头部（镶圈）和油槽；
- 配置八工位刀塔；
- 活塞曲面数据由“一派活塞曲面数据处理软件”（一派数控软件著作权产品）生成，该软件能编辑活塞所要求的各种异形外圆，包括标准椭圆、椭圆叠加偏心圆、偏心椭圆、旋转椭圆或离散数据拟合等；
- 配置自主开发的直线伺服控制板，通过OEM软件嵌入到840D控制系统，实现自由编程，提高加工精度和加工稳定性。
- The lathe has a vertical layout with the configuration of left and right slide carriage, which can machine the piston excircle, ring grooves, top surface and abnormality edge chamfering of ring grooves in the course of one fixing;
- Equipped with SIEMENS 840D NC system and SIEMENS AC servo system;
- Equipped with three cutter spacings linear servo cutter saddle (patent product of EPOCH NC), the lathe can process the convex irregular ellipse or other special shaped piston excircle, As the saddle has three cutters which are made of different materials or shapes, it can turn the piston skirt, piston head (with Ni-Fe ring), and oil groove;
- Equipped with toolholder turret with eight positions;
- The piston curved surface data are produced by "Epoch Piston Curved Surface Data Processing Software" (copyright product of EPOCH NC), which can edit all kinds of special excircles required by the piston including standard ellipse, ellipse overlapped eccentric circle, eccentric ellipse, and rotary ellipse, or the discrete data fitting and so on;
- Equipped with the linear servo control panel developed completely by EPOCH NC, embedded to 840D NC system by OEM software, achieving free programming and improving the working accuracy and stability.

### 主要技术指标 | Main Technical Indexes

活塞直径 Piston Diameter (mm)	Φ200~Φ450
活塞长度 Piston Length (mm)	200~500
活塞最大椭圆度 Maximum Ellipticity of Piston (mm)	3.0
Z轴行程 Z axis stroke (mm)	550
X1轴行程 X1 axis stroke (mm)	135
主轴精度 Spindle Precision Accuracy (mm)	0.003
主轴速度 Spindle Speed (rpm)	50~1500
直线伺服电机重复定位精度 Repeated Positioning Accuracy of Linear Motor (mm)	0.001
直径公差 Diameter Tolerance (mm)	ΦD±0.006
粗糙度 Surface Roughness (μm)	Ra0.8
仿形轮廓度 Profile Accuracy (标准椭圆 Standard ellipse) (mm)	±0.005
环槽侧面平面度 Plane Accuracy of the Ring Groove Side Face (mm)	0.008
主机外形尺寸 Machine Dimensions (长×宽×高 L × W ×H) (mm)	3030×2500×2600