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Okamoto
Emerging Abrasives Technology

Okamoto announces a fully New model UPZ-210Li Profile Grinder

Buffalo Grove, Illinois: May 1st, 2006 Okamoto Corporation has announced UPZ-210Li, new style of profile grinder that provides ultra high-level precision grinding for carbide or punch profile jobs. It will be exhibited at IMTS 2006 in McCormick Center from September 6 to 13, 2006 (**Booth number B-6830**).



Picture-1: UPZ-210Li

General Description of UPZ-210Li

The new UPZ-210Li was designed for ultra precision profile grinding of stamping punch narrow pitch connector parts for IC industry. The machine is equipped linear motor drive instead of hydraulic cylinder and achieve 300 reciprocation as 20mm table stroke.

Advantage for Linear motion

The advanced linear system eliminates ball screw issue (back rush, pitching, yawing problems) as well as thermal expansion.

Table high speed reciprocation allow high efficiency grinding, less thermal issue due to continuously infeed, particularly micro profile workpiece. Also system have following advantage vs Optical Profile Grinding Machine ;

- 1) Horizontal type easy to Loading & Unloading
- 2) Supply enough coolant to minimize workpiece thermal expansion and improve surface finish.
- 3) Set up multiple workpiece per load



Picture-2: On Machine Image Processing System

Equipped with CCD Camera for Image Processing

It is difficult to re-mount the same alignment after measuring workpiece at out side machine for compensation process, this machine features measuring profile on machine without remove part via CCD camera system together with 0.1 μ m increment longitudinal movement in closed loop (option).

As feature ;

- 1) Improve repeatability, minimized personal equation.
- 2) Auto focus system by CCD camera
- 3) 100 – 1000 magnification for CCD camera

UPZ-210Li Specification

Size Of Chuck	: 6.8"x4 "
Table Load Capacity (On the Chuck)	: 11 lbs
Longitudinal Speed	: 0.32 – 98.4ft/min
Grinding Wheel Size (O.D.)	: 2.75" (6" Option)
Grinding Spindle Motor	: 3 hp
Footprint (L x D x H)	: 40" x 90" x 75"
Machine Weight (lbs)	: 12,566 lbs

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