

Closed Loop Stepping Systems Success Story

Industry	: Industrial machine
Application	: Laser Diamond Cutting Machine Laser processing of rough diamonds (Sawing, 4P, 5P and Blocking)
Product	: SANMOTION Model No. PB PB4D003P based 4-axis integrated driver, 1. PBM423DXK based customized motor 2. - 4. PBM603DXK based customized motor
Quantity	: 2400 axes/year (4 axes/machine)
Use	: 1. Laser focusing axis, 2. tilting axis and 3-4. X-Y table axis
Request	: Reduce machine vibration and noise problems.
Solution	: Based on the machine evaluations at customer's factory, we adjusted the settings of our products to meet customer's special requirements.
Merit	: Size of customer's machine is reduced by using PB 4-axis integrated driver. By adopting closed-loop control system, machine reliability is increased and quality of diamond surface processing is improved. Positioning time is reduced and machine takt time is shortened.

