

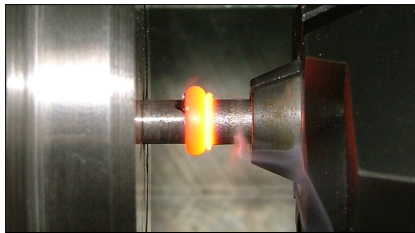
GATWICK FULLY AUTOMATIC FRICTION WELDING MACHINE FOR BI-METAL ENGINE VALVES



NC4000 with automatic part feeding of valve heads and stems

Features:

- Quick Change Tooling
- Flash Removal via shearing or turning
- Repeatable welding
- Concentricity (TIR) better than 0.2 with CpK 1.67
- Floor to floor welding including flash removal in under 10.0 seconds
- Full NC closed loop control in ALL axis
- ASI bus Technology
- 100% in process weld quality check
- Fully Automatic and manual version
- Ideal for all steel and titanium applications.



NC4000 Specification

Max Weld Area	78 mm ²
Total Connected Power	37 kW
Spindle Speed	1000-6000 rpm (1 rpm Variable)
Max. Depth Spindle Backstop	250mm
Travel Head Stroke	200mm
Maximum Hydraulic pressure	140 bar
Maximum Force	3,000 Kg
Typical production rate	300/hour (Manual)
 400/hour (Automatic)
Minimum Bar Capacity	4mm Diameter
Max weld diameter	10 mm Diameter (Alloy Steel)
Component type	"Pin to Pin" or "Head to Pin"



Typical Engine Valves after welding Head to Pin

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