TECNA® has designed a range of portal welders that advance the production standards known to date. The monobloc metal frame gives the machine extreme rigidity. TECNA atomic diffusion bonding machines have extraordinary operating characteristics combined with an extreme simplicity of use. Thanks to cutting-edge sensors and components, the repeatability of the geometry and of the electrical parameters are firmly guaranteed and documented. In any working area, regardless of the forces applied, we guarantee a precise and constant parallelism of the moving working surfaces. Self-learning of the working dimensions, adjustment and memorization of the welding cycle time to over 5 minutes and storage up to 1000 different part numbers. Real Energy Savings and cutting-edge safety systems. Monitoring and detection systems for component malfunction and preventive maintenance programs. Option for production synchronization with additional machinery in a combined work process cell.

TECNA presents a new range of hydraulically operated portal welding machines

HYDRAULIC1500 - HYDRAULIC4000 - HYDRAULIC6000

A REVOLUTION IN ATOMIC DIFFUSION BONDING MACHINES

THE REVOLUTION HAS BEGUN!

UNBEATABLE FOR PRECISION AND REPEATABILITY

FORGET EVERYTHING YOU KNOW ABOUT ATOMIC DIFFUSION BONDING MACHINES: FROM TODAY, THINGS WILL NEVER BE THE SAME.

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Accident prevention safety brake for automatic locking of suspended masses

Electronic position and pressure transducers for perfect repeatability of the stored production cycles

‘SELF-LEARNING WORKING DIMENSIONS’ device for a quick adjustment to different product parts

‘LOAD SENSING’ hydraulic drive with proportional control enabling efficient use of energy in the planned production cycles

Storage of up to 1000 different part numbers

Adjustment and storage of the ‘welding cycle’ time to over 5 minutes

System of ‘CONSISTENT PARALLELISM’ for precise parallelism in any working area of the work surface regardless of the applied force

Preventive maintenance program for component modification with remote diagnosis and remote control

‘DRY LUBRICATED’ sliding parts to avoid the pollution of work surfaces

Electronic position and pressure transducers for perfect repeatability of the stored production cycles

Hydraulic circuit equipped with ‘RER’ (real energy savings)

H1500 H4000 H6000

Welding max. power kVA 2x250 2x400 2x630

Supply voltage kVA 400 400 400

Frequency Hz 50 50 50

Secondary nominal voltage v 11.75 10.6 9.5

Secondary thermal current at 100% A 18.000 36.000 50.000

Maximum force at the electrodes at 250 bar - standard kN 150 400 600

L mm 3700 4100 5000

D mm 820 870 950

H mm 2800 2890 3000

X mm 650 800 900

Y mm 450 600 600

Work surface up to 900x600 mm

Accident prevention safety systems with photoelectric double barriers

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