

**WOULD  
YOU LIKE TO  
PARTNER WITH A  
COMPANY THAT IS  
MAKING A HUGE  
DIFFERENCE TO ITS  
CUSTOMERS?**

Our Electrical Upsetting Machine reduced rejection rates to ~0.1% from 2 to 3%  
*- for a leading automotive component manufacturer*



Replaced 3 different testing machines with a Single Test Rig (1.5 to 1000 bar) for testing all 5 actuators of aircraft landing gear  
*- for a leading aerospace tier-1 supplier*



Testing geological samples for compression and torsion at 5000 bar and 1300°C  
*- for a premier technical institute*



Machining ball pins to 4μ sphericity and surface finish of 0.1μ Ra  
*- for leading automotive component manufacturers*



**ETA**  
*driven by innovation*



AN ISO 9001: 2008 CERTIFIED ORGANISATION  
[www.etatechnology.in](http://www.etatechnology.in)

# ETA - YOUR INNOVATIVE TECHNOLOGY PARTNER

## Our customers choose us for:

- Cost-effective & advanced technology solutions
- Reliable after-sales service & long term upgrade options
- Higher productivity - minimal rejection rates
- Energy efficient design

ETA thrives on creating simpler solutions to some of the most challenging engineering problems. Our machines are recognised for repeatability, high precision, energy efficiency and durability.

Our after-sales support team is always responsive and proactive to quickly resolve issues. Our flexible technology upgradation option frees up critical capital for our customers to pursue other growth plans.

Our dedicated R&D team focusses on continuous innovation to blend functionality with contemporary technologies. Our innovations continue to help achieve greater efficiency, better quality & higher productivity. The team comprises of a healthy mix of young & curious minds to lead engineers with decades of experience.

"Some of the world's leading OEMs & component manufacturers in automotive/ aerospace use ETA's Friction Welding Machines, Electrical Upsetters, Test Rigs & SPMs to produce hi-precision components."



## FRICITION WELDING MACHINES:

- Capacity - 1.5 to 300 ton
- Consistent quality of output
- Fully automated operation
- Industry leading accuracy of weld length and orientation
- Energy efficient design
- Short cycle time
- Real-time feedback



**200T** - Horizontal Friction Welding Machine with built in Deflash, manual loading & unloading



**3T** - Friction Welding Stir Machine



**20T** - Dual Sliding Head Friction Welding Machine with Built-in CNC Deflash Unit

◀ Axle Housing Production Cell

## ELECTRICAL UPSETTING MACHINES:



**ACHIEVE  
THE  
PERFECT  
BULB  
SHAPE**

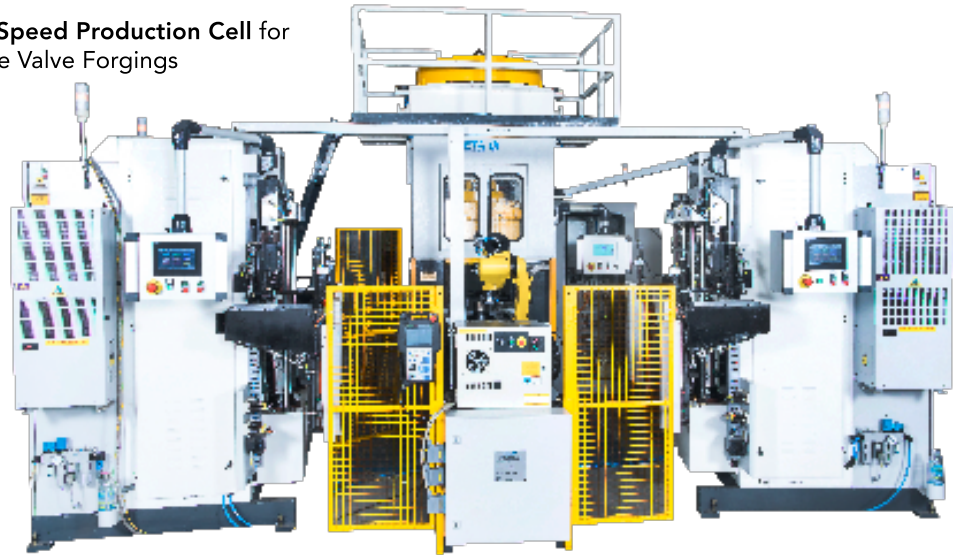
- Capacity: 12 to 300kVA
- Near 'ZERO' rejection
- Repeatable & perfect Bulb shape
- A low foot print - 1.5 x 1M
- IGBT driven control
- Complete automation

**125kVA** - Single Head Horizontal Hydraulic Up-setter with Manual Loading & Unloading



**20kVA** - Twin Head Servo Electrical Upsetters with Pneumatic Auto load

**High Speed Production Cell for Engine Valve Forgings**



# TEST IT RIGHT

## SIMULATION & TEST RIGS:

We manufacture a variety of

Test Rigs for:

- Automotive
- Aerospace
- Railways
- Marine/ Navy

**Applications include:**

- Endurance
- Torque
- Durability
- Noise &
- Leakage tests on automotive steering systems, ball joints, brakes, aircraft landing gear...

Electro Hydraulic Force Exciter



Aircraft Landing Gear Actuation Simulator



3-Axis Durability Test Rig



## SPECIAL PURPOSE MACHINES:

We offer a wide spectrum of Special Purpose Machines for manufacturing high quality:

- Engine Valves
- Ball Joints
- Shafts
- Gear Pumps, etc.

### Benefits:

- Fully automated process
- Best-in-class accuracy & repeatability



Ball Turning & Burnishing Machine

Valve Straightening Machine



Duplex Milling Machine

Parallelism and straightness  $8\mu$  and surface finish  $0.3\mu$  Ra



# WE SERVE



We offer advanced technology solutions to:

- Automotive
- Defence
- Aerospace
- Ship Building
- Railways
- Nuclear Energy



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**27**  
YEARS OF  
EXCELLENCE

EXPORTED TO  
**20+**  
COUNTRIES