CORPORATE DOSSIER



ONE OF THE MOST INTELLIGENT MACHINES EVER



EMBRACING FRICTION

The tough ones are born out of tough times. Diamonds are formed when carbon deposits undergo intense temperature and pressure. Steel is created by melting iron ore at a very high temperature. Harsh conditions bring out the best.

When surfaces of two disparate metals undergo friction, the heat thus produced plasticises the metal surfaces; with a certain amount of lateral upset (force) a bonding between the two metals occurs at molecular level. This bonding is stronger than any other bonds created through conventional welding. That's friction welding.

BONDING AT FRICTION POINT







SME TOP 100 AWARD



Partnership with MTI, US



Appreciation by Forbes & Company



Appreciation by Godrej Aerospace for BrahMos Project



Recognition by DRDL

LEADERSHIP

Since 2002, FWT have been an established brand in the friction welding industry. Starting small, growing steadily, year on year, one thing that FWT has never missed out on is Leadership Development.

Be it in contract manufacturing, introducing newer technologies to Indian market, building world-class machines, setting benchmark for high-quality in process, product and people or leveraging collaborations, the firm has deployed passion, self-confidence & boldness to stay way ahead of its times.

LEADERSHIP THROUGH CORE VALUES









RESPONSIBILITY

INDUSTRIES







Cutting Tools Agriculture & Trucking

Nuclear



Aerospace &

Defence





Oil Refineries /

More



EXCELLENCE

United we rise; divided...

Bonds so strong, we just cannot be divided...

Since its inception, FWT had understood the real difference between "building machines" and "building the best machines ever".

Excellence has never been a choice, but a mandate. It is always planned for right from the beginning, followed throughout the process and continues to be the most striking element of FWT machines after years since their deployments at client locations.

Our expertise in delivering excellence, has helped us win some of the most prestigious clients who required highest quality, versatility & B-R-E-A-K-T-H-R-O-U-G-H technology for their mission-critical applications



Tests conducted on friction-welded components



Machining measurement accuracy for machine building



FAROARM® is the registered product of FARO Technologies, Inc.

PRACTICES

POKA YOKE

5S

STANDARDIZE 5 1 SUSTAIN
SHINE 4 2 SORT
3
SET IN ORDER

CERTIFICATIONS









FACTS MACHINES

Committed to provide strategic advantage to our clients through excellence and leadership in technology

WORLD-CLASS DIRECT-DRIVE ROTARY FRICTION WELDING MACHINES







INDIA | USA | UK | POLAND | TURKEY
ITALY | CHINA | ROMANIA | MEXICO



FACTS COMPONENTS









AEROSPACE & DEFENCE | AUTOMOTIVE | CUTTING TOOLS | ELECTRICITY | NUCLEAR PLANTS | PUMP & VALVE | OTHERS...



SIMPLICITY

Convenient dashboard for parameterisation

We believe in the 'Simplicity is the ultimate sophistication' principle. Our software engineering team develop operator console software such that application & operation specific parameters once configured within the machine, get the job done with consistent weld quality throughout the batch. It requires near zero human intervention. The optional programmable robots take care of loading the job, and unloading the welded ones. The dashboard is highly intuitive and requires only a few minutes of training.

FWT Machines, built using Poka Yoke, are extremely safe to operate. They have inbuilt intelligence to pre-empt and resolve any unexpected errors or breakdowns. FWT's Remote Diagnostics and Troubleshooting makes it convenient for the technical team to address the issues from anywhere and anytime.











FEATURES

Industry 4.0 ready

Total Safety
User-based locks
Multiple Geometries
Clean & Intuitive
Quality & Reliability
Advanced Parameter Configuration
Graphical Interface
Historic & Live Data and Analytics
Cp/Cpk configuration







AWARDS

EXCELLENCE IN RESEARCH & INNOVATION **ENTREPRENEUR'S** INTERNATIONAL FORUM



G.S. PARKHE AWARD FOR INNOVATION IN ENTREPRENEURSHIP

MCCIA, PUNE





FIRST GENERATION SUCCESSFUL **ENTREPRENEUR AWARD**

MCCIA, PUNE



INNOVATION

EXEMPLARY INDUSTRIALIST ANNA TALWALKAR MEMORIAL



INDIA SME FORUM



INDIA'S SMALL GIANT AWARD INDIA'S TOP 100 SME'S AWARD **INDIA SME 100 FORUM**





FORUMS

VALUABLE SUPPORT FOR ROBOLUTION TAL, INDIA



CERTIFICATE OF APPRECIATION WELDFAB TECH TIMES



INSPIRING PROJECT AWARD WELDFAB TECH TIMES



OTHERS



RESEARCH & DEVELOPMENT

Innovation has been the driving force for FWT. It's research-oriented approach isn't just for educational purposes, but also to innovate and deploy advanced technology within its friction welding machines.

FWT's R&D programs have been acknowledged by several prestigious institutes and organisations such as DRDL, Godrej Aerospace & BARC, among others.

- FWT-50 machine has been world's first ever versatile machine to manufacture multiple size and multiple geometric bimetallic components for defence application - BrahMos Super Sonic Ramjet Missiles
- Formula to derive the minimum motor power required to run a friction welding machine, and the reason behind it
- Cp/Cpk parameterisation programming for consistent weld-quality





TRUSTED BY









































































































FWT are our Green-Channel vendors with zero defects

RAVI PREM COO Forbes & Company Ltd.



FWT build world-class machines & are great technology innovators

AMOL LAHOTI
HEAD STRATEGIC SOURCING
Gabriel India Ltd.



FWT has a lot of knowledge in friction welding

BOB BESSESALES DIRECTOR
MTI, USA



GET IN TOUCH

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