



# JJ SALES & SERVICE



[www.jjsalesandservice.com](http://www.jjsalesandservice.com)



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# JJ Sales & Service

Industrial Automation Simplified

## **ABOUT US**

At JJ Sales & Service, we pride ourselves on being a trusted leader in the field of industrial equipment and automated solutions. With over 30 years of experience, we have built a reputation for delivering cutting-edge welding and cutting tools, equipment, and systems that empower industries to achieve excellence and efficiency.

Our commitment to quality, innovation, and customer satisfaction has made us a preferred partner for industries seeking reliable solutions. As a company, we have consistently evolved to meet the dynamic demands of modern manufacturing, earning recognition as a provider of world-class automation and technical expertise.

### **Our core areas of specialization include:**

- Welding and Cutting Equipment
- Automated Welding Systems
- Special Purpose Welding Solutions
- Welding Consumables
- Equipment Service and Maintenance
- Technical Consultancy
- Industrial Automation Solutions

At JJ Sales & Service, we don't just deliver products; we deliver solutions. Our unwavering focus on innovation and customer success has enabled us to make a global impact, becoming a name synonymous with excellence and expertise in the industry.

Experience the difference with JJ Sales & Service—where innovation meets reliability.

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## Panasonic India – Fully Thyristorised MIG/MAG Welding Machine:

Thyristor Based Welding Machine with rugged construction, excellent arc characteristics with less spatter & high immunity from input fluctuations are ideal choice for outdoor use



### Key Features

- Synergic Mode (unified mode) is available for easy setting of current and voltage
- Fresh tip treatment and burn – back time control are adjustable.
- Secondary short circuit protection is a standard function.
- Arc sensitivity is selectable by changing the tap of the reactor
- Crater current and crater voltage control on front panel.
- Works on 50-60 Hz frequency in power supply.
- Welding base metals Mild steel, Medium/High carbon steel, Low alloy Steel.

## Technical Specification

Technical Parameter	Units	250KR2	400KR2	500KR2
Rated input voltage	Volts	415, + 10%, -10%		
Phase/Frequency	No./Hz	3ph/50-60		
Input Power@60% duty cycle	KVA/KWA	9.5/7.9	21/19	31.9/28.1
Rated Current Range	Amps	50-250	60-400	60-500
Rated Output Range	Volts	15-27	16-39	16-45
Duty Cycle	%	60	60	60
Ingress Protection	Class	IP21S	IP23	IP23
Insulation	Class	H Class		
Weight	Kg	94	149	158



# Panasonic

## India - Full Digital Controlled IGBT Inverter Based MIG/MAG Welding System



### Key Features of RX1 Series

- Inverter-based digital wave control GMAW and FCAW welding outfit
- Higher efficiency and higher power factor results in greater power saving.
- Designed to work even under high ambient temperatures up to 50C.
- Unique design of three layer and four room dust-free structure.
- Parameter Locking is possible.
- Fresh tip treatment & burn back time control are adjustable.
- Welding base metals Mild steel, Medium? High carbon steel , Low alloy steel.

## Technical Specification

Technical Parameter	Units	250RX1	400RX1	500RX1
Rated input voltage	Volts	415, + 15%, -20%	415, + 10%, -12%	
Phase/Frequency	No./Hz	3ph/50-60		
Input Power@60% duty cycle	KVA/KWA	8/7.7	16.2/15.6	-
Input Power@100% duty cycle	KVA/KWA	-	-	23.1/22.2
Rated Current Range	Amps	50-250	50-430	60-550
Rated Output Range	Volts	12-33	16.5-35.5	17-41.5
Duty Cycle	%	60	60	100
Insulation	Class	H Class		
Weight	Kg	44	52	60

# 400RY1- IGBT

## Based MIG/MAG Welding Machine

### Key Features

- The Successor to the RX1 series
- MS+SS welding software.
- Dynamic Arc Characteristics –Soft arc thin metal and Hard arc for thick metal
- Power factor>0.9
- Digitally controlled waveform enables superior arc characteristics
- Gas check, Wire diameter selection and Gas selection switch on the front panel



### Technical Specification

Technical parameter	Units	400RY1DJK
Control method	-	Digital IGBT control
Rated Input /No. of phases	-	3- phase AC 415, +/-20% , + 10%
Rated power frequency	Hz	50/60
Rated input capacity	KVA/KW	18.7/16.2
Output characteristics	-	CV (Constant voltage characteristics)
Rated output current	AMP	DC 400
Rated current adjustable range	AMP	DC 50-430
Rated duty cycle	%	60
Applicable welding method	-	CO <sub>2</sub> MAG, MIG
Applicable wire size ( dia)	mm	0.8 , 1.0, 1.2
Weight	Kg	56.5

## 280RK- Digital Inverter Co2/MAG/ Stick Welding Machine (for thin carbon steel plate)

### Key Features

- An ideal selection for thin plate industries such as-Agriculture Metal furniture Bi-cycle and Case & Cabinet etc
- Multiple application modes: Rapid Mode , Tack Welding , Standard Mode, Manual Welding Mode
- The intelligent crater function can match crater with welding current, making operation easier

### Technical Specification

Technical parameter	Units	350GR5
Control method	-	Digital IGBT control
Rated Input /No. of phases	-	3- phase AC 380V, +/-25% , (285V to 475V)
Rated power frequency	Hz	50/60
Rated input capacity	KVA/KW	10.1/9.6
Rated output current	A	DC 280
Rated duty cycle	%	60
Rated output no-load voltage	V	DC 63
Output current range	A	DC 50-350
Weight	Kg	35





# 350/500GR5

Mild Steel / Stain less steel  
Full Digital Inverter MIG/MAG  
Welding Machine



## Key Features

- Root welding control technology
- Short circuit transfer, stable arc, low heat input , suitable for thin plate gap welding.
- Full range of welding wire: 0.6mm to 1.6mm.
- 4-Roll 2 Drive wire feeder.
- Wire feeder with digital display of Amp/Volt.
- Self adjustment of arc length even when changing wire extension length supports to achieve excellent weld bead.

## Technical Specification

Technical parameter	Units	350GR5	500GR5
Control method	-	Digital IGBT control	
Rated Input /No. of phases	-	3- phase AC 415, +/-27% , + 10% (304V-456V)	
Rated power frequency	Hz	50/60	
Rated input capacity	KVA/KW	17.6/13.5	29.9/23.9
Rated output current	A	DC 350	DC 500
Rated duty cycle	%	60	100
Rated output no-load voltage	V	DC80	DC80
Output current range	A	DC 40-30	DC 60-500
Welding method	-	CO <sub>2</sub> /MAG/Stainless steel MIG	
Memory	-	100- channels welding parameter storage	
Weight	Kg	68	110

## 400 AT3DJR/DJG/DJE

IGBT Inverter controlled DC Arc Welding System

### Key Features

- Suitable for all kind of acid, basic stainless steel, cellulosic and low hydrogen alloy electrode
- High ambient temperature resistance up to 50c for 400AT3
- Unique design of three layer and four room dust-free structure
- Voltage Reduction Device (VRD) <12 V DC

### Technical Specification

Technical parameter	Units	400AT3DJR/DJG/DJE
Control method	-	IGBT control
Rated Input /No. of phases	-	3- phase aC 415, +/-20%
Rated power frequency	Hz	50/60
Rated input capacity	KVA/KW	17.6/16.7
Rated output current	A	400
Rated dut cycle	%	60
Rated output no-load voltage	V	DC 63
Output current range	A	DC 20-410
Voltage Reduction Device(VRD)	Volt	<12VDC
Welding method	-	MMA
Weight	Kg	43



## 400AT3DJT (DC TIG / DC MANUAL)

IGBT Controlled DC TIG Welding System

### Key Features

- More consistent ac start with high reliability
- High-frequency (HF) arc start for for non-contact arc initiation
- Adjustable current down slope time

### Technical Specification

Technical Parameter	Units	400AT3DJT
Rated input voltage	Volts	415, + -20%
Phase/Frequency	No./Hz	3 Phase / 50-60
Input KVA@60% duty cycle	KVA/KW	17.60/16.7
Rated Output Current	Amps	20-410
Rated Duty Cycle	%	60
Ingress Protection	Class	IP23
Insulation	Class	H
Weight	Kg	45





## 350/500FD2

Full Digital Pulse MIG/MAG Welding System  
(specialized model for Aluminium MIG welding)



### Key Features

- The high quality aluminium MIG welding of both thin and middle thick aluminium plate
- The wire feeder motor equipped with high-precision encoder
- Instant and stable arc ignition
- Single pulse welding for medium and thick aluminium materials.
- Dual pulse welding for thin plate and vertical welding.

### Technical Specification

Technical parameter	Units	350FD2	500FD2
Control method	-	Digital IGBT control	
Rated Input/No. of. Phase	-	3 Phase AC 380V	
Rated power frequency	Hz	50/60	
Rated input capacity	KVA/KW	17.6/13.5	29.9/23.9
Rated output current	A	DC350	DC500
Rated duty cycle	%	60	60
Rated output no-load voltage	V	DC 80	DC 80
Output current range	A	DC 40-30	DC 60-500
Welding method	-	MIG Aluminium	
Memory	-	100-channels welding parameter storage	
Weight	Kg	124	133

# 350/500/630FR2

Digital Inverter Co2/MAG/Stick  
Welding/Gouging Machine  
(Gouging in case of 630FR2 only)



## Key Features

- CO2/ MAG Welding
- Shielded metal arc welding / Gouging
- High-performance wire feeding system (IVF:40 meter extension cable okay)
- Phase lack protection
- Output short circuit protection

## Technical Specification

Technical parameter	Units	350FR2	500FR22	630FR2
Control method	-	Digital IGBT control		
Rated Input/No. of. Phase	-	3 Phase AC 415V, -30%, +13% (290V-470V)		
Rated power frequency	Hz	50/60		
Rated input capacity	KVA/KW	13.5/13	23.3/22.4	31.8/30.4
Rated output current	A	350	500	630
Rated duty cycle	%	60	100	100
Rated output no-load voltage	V	DC 70	DC 70	DC 69
Output current range	A	40-430	60-550	60-630
Weight	Kg	54	60	76.5



### Key Features

- AC balance control-cleaning width adjustment
- AC balance control-bias current adjustment
- AC balance contrl-AC frequency adjustmnt
- AC standard TIG mode
- Mixed TIG mode / Pulse control

## 350/500WX5

Full Digital Pulse AC/DC TIG Welding Machine

### Technical Specification

Technical parameter	Units	350WX5	500WX5
Control method	-	Digital IGBT control	
Rated Input/No. of phase	-	3 Phase AC 380V	
Rated power frequency	Hz	50/60	
Rated input capacity	KVA/KW	16.6/13.5	29.5/22.5
Rated output current	A	TIG: 350 Stick : 300	TIG : 500 Stick : 400
Rated duty cycle	%	35	60
Rated output no-load voltage	V	DC 62	DC 70
Output current range	A	DC TIG: 4- 350 AC TIG : 10-350 Stick 10-300	DC TIG : 5-500 AC TIG : 20-500 Stick 20-400
Pulse Frequency	Hz	0.1-500	
AC Frequency (AC TIG)	Hz	30-100 (factory setting 70)	
Welding method	-	MIG Aluminium	
Memory	-	100 channels for storing and ecalling	
Weight	Kg	74	128



# ARC WELDING ROBOTS

(06 Axis Articulated)

Towers: Robotic Systems with Integrated Welding Power Source Technology



## SUPER ACTIVE TAWERS

MTS-CO / SP-MAG II / Normal Pulse /  
Lift Start / HD Pulse / Active CO / Active Mag /  
Active Start HBC / High Speed Welding /  
Extremely Low Spatter



## TAWERS

MTS-CO / SP-MAG II /  
Normal Pulse / Lift Start /  
HD Pulse



## ACTIV TAWERS

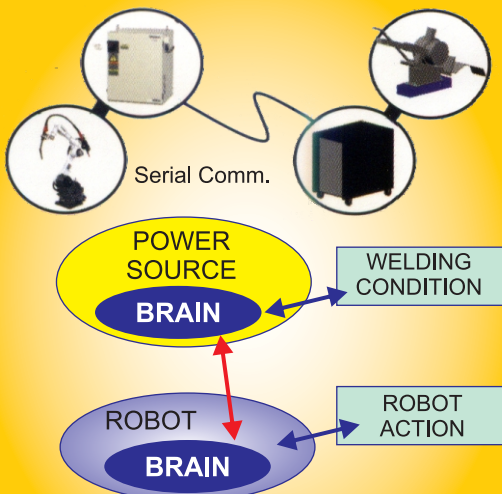
MTS-CO / SP-MAG II /  
Normal Pulse / Lift Start /  
HD Pulse / Active CO /  
Active Mag / Active Start

# WORLD'S FASTEST

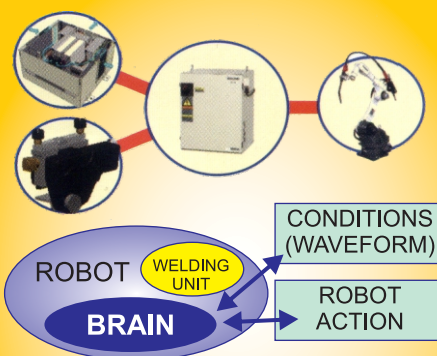
## FUSION TECHNOLOGY

[Regular digital communication]

[TAWERS]



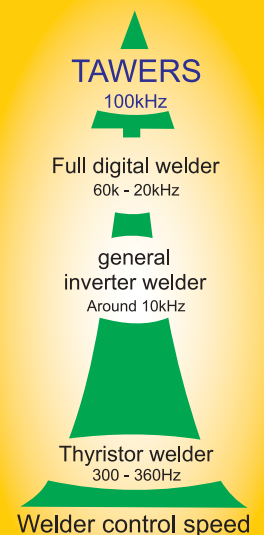
Serial Communication  
(Slow Speed Communication)



Busbar Communication  
(250 times faster)  
Benefit to customer:  
Faster Welding & Enhanced Quality

## PRECISE WAVEFORM CONTROL

[World's Fastest Inverter Circuit]





Manipulator General Specifications								
Model		TM-1100	TM-1400	TM-1600	TM-1800	TM-2000	TL-1800	TL-2000
Type		Short arm	Standard arm	Middle arm	Long arm	Long arm	Long arm	Long arm
Structure		6 axis articulated						
Payload		6 kg		4 kg	6 kg		8 kg	6 kg
Maximum Reach		1 163 mm	1 437 mm	1 639 mm	1 809 mm	2011 mm	1801 mm	1.999 mm
Minimum Reach		418 mm	404 mm	513 mm	430 mm	550 mm	383 mm	491 mm
Working Range		745 mm	1 033 mm	1 126 mm	1.379 mm	1461 mm 0	1.418 mm	1.508 mm
Max. Motion Speed	RT (Rotating trunk)	2257s		2107s	195/s		1957s	
	UA (Upper arm)	2257s		2107s	195/s		195/s	
	FA (Forearm)	2257s		215/s	205/ s		205/ s	
	RW (Rotating wrist)	425/s		425/s	425/s		385/ s	
	BW (Bending wrist)	425/s		425/s	425/s		375/ s	
	TW (Twisting wrist)	629/s		629/s	629/s		624/ s	
Position Repeatability		±0.08 mm				±0.10 mm	±0.08 mm	±0.15 mm
Motors	Total Power	3400 W			4 700 W		5 050 W	
	Brakes	All axes						
Mounting		Floor/Ceiling						
Weight		156 kg	170 kg	180 kg	215 kg	217 kg	215 kg	216 kg

### Controller/ Welder Specification

Model	WG III (Towers)	WGH III (High Power Towers)
Memory	40000 points	
Position Control	Software servo control	
External Memory	<b>Tech Pendant:</b> one SD memory card slot, two USB 2.0 ports (USB 2.0, Hi-Speed not supported)	
Control axes	6 axes simultaneously (Max. 27 axes)	
Input and Output	<b>Input :</b> 40 points (Optionally expandable up to 2048 points) <b>Output :</b> 40 points (Optionally expandable up to 2028 points)	
Input Power	3 phase, 200 V AC+20 V AC 22 KVA, 50/60 Hz	3 phase, 200 V AC+20 V AC 30.5 KVA, 50/60 Hz
Welding Process	CO2 /MAG/Stainless Steel MIG/Pulse MAG/Stainless pulse MIG	
Output Current Range	30 to 350 A DC	30 to 450 A DC
Output Voltage Rag	12 to 36 V DC	12 to 42 V DC
Duty Cycle	<b>CV :</b> 80%@350A <b>Pulse:</b> 60%@350A	100%
Dimensions	553mmx550mm1181mm (WDH)	553mmx550mm1407mm (WDH)
Weight	135 kg	171 kg

# Arc Welding System

# TAWERS WG4

## New Generation

The TAWERS-WG4 Arc Welding System is suitable for CO<sub>2</sub>, MAG, MIG and Stainless Steel welding applications.

## Key features

Highly accurate and efficient welding experience

Easier to use with touch panel and 3D display

For manufacturing where everything is connected

Cables arranged on the back to save space

## WG4 Arc Welding System

The New Generation

Optimum welding processes are achieved by utilising an integrated inverter power source within the robot controller, ensuring complete synergy within the common control system.

- Improvement in manipulator control performance
- Teach Pendant touch panel adopted
- Improved maintainability
- IOT Industry standard I/F adoption
- Compliance with international standards for functional safety

## Specifications

Memory Capacity	40,000 points
Position Control Method	Software Servo System
External Memory I/F	TP: SD memory card slot x 1 USB2.0 (Hi-speed supported) x2
Number of control axes	Simultaneous 6 axes (max. 27 axes)
Other Input/Output Signal	Dedicated Signal: Input 6 points, Output 8 points General purpose signal: Input 40 points, Output 40 points Safety Input/Output: Input 8 points, Output 8 points
Input Power Supply	3-phase, AC200 V (+-10%), 50 Hz/60 Hz (+-2%)
Input Cable	14 mm <sup>2</sup> (AWG6) or more
Ground Cable	14 mm <sup>2</sup> (AWG6) or more
Applicable Welding Method	CO <sub>2</sub> /MAG/Stainless Steel MIG Pulse MAG/Stainless Steel pulse MIG
Output Current	30 A-350 A DC
Output Voltage	12 V-36 V DC
Rated Duty Cycle	10 Minute Cycle CO <sub>2</sub> /MAG/Stainless Steel MIG: 80% Pulse MAG/Stainless Steel pulse MIG:60 %



# Hardware and software have evolved significantly



## Maximize Robotics Potential with Multi-Core CPU

High-speed control with multi-core and single core performance improvement.



## Enhanced Teach Pendant with Touch Panel and 3D Display

Intuitively Operate with Touch Panel. Enable 3D Display with Open GL Integration.



## Improved motion accuracy

Improved motion command trajectory for improved trajectory accuracy backlash correction and deflection correction have been developed for all models, and trajectory accuracy during high-speed welding.



## Cable Arrangement

Optimized cable configuration enables space-saving without compromising large volume.



## Reduce Takt Time with Improved Acceleration and Maximum Speed on Each Axis

Welding is also enhanced, for example with one process reducing spattering by up to 62% to improve quality.



## Safety Technology that Complies with International Standards

Functional Safety, Safety I/O & External Axes





# PANASONIC TAWERS TECHNOLOGY

## SOME BENEFITS OF PANASONIC TAWERS WELDING TECHNOLOGY (INCLUDING BUT NOT LIMITED TO)

BUSZ COMMUNICATION =  
NO INTERFACE

64 BIT CPU

140-250 TIMES FASTER  
THAN THE CONVENTIONAL  
SYSTEM

REAL TIME COMMUNICATION  
BETWEEN THE POWER SOURCE  
AND THE ROBOT CONTROLLER

MAXIMUM FLEXIBILITY  
OF WELDING PROCESSES

REDUCTION OF  
PRODUCTION COSTS

HIGH PROCESSING  
SPEED

OPTIMUM ACCESSIBILITY  
THANKS TO THE  
SLIM CONSTRUCTION

FAST AND  
EFFICIENT

Panasonic  
robot controller

EVERYTHING FROM ONE HAND

**TAWERS™**  
The Arc Welding Robot System

Fusion of robots,  
robot controller,  
power source and  
servo wire feed to  
a complete system.  
Faster, better and  
worldwide unique.

**Panasonic**

Everything from  
one manufacturer

Panasonic  
robotmanipulators

Panasonic  
softwares

USER-FRIENDLY  
HANDLING

WELD DATA  
MONITORING  
AND RECORDING

EASY CREATION OF  
WELDING PARAMETERS  
THROUGH WELD  
NAVIGATOR

PANASONIC DTGS G2 & G3  
OFFLINE PROGRAMMING  
SOFTWARE

TAWERS 100 KHZ INVERTER  
TECHNOLOGY

5 VIRTUAL WELDING  
PROCESS:  
CO<sub>2</sub> / MAG / Stainless steel  
MIG / Pulse MAG / Stainless  
pulse MIG

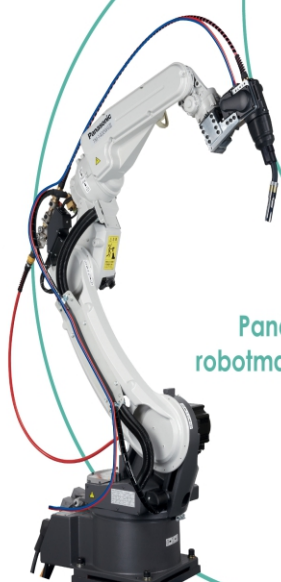
SPATTER REDUCED  
WELDING

HEAT INPUT  
REDUCED WELDING

THIN AND THICK PLATE  
WELDING  
WITH ONE POWER SOURCE



Panasonic  
power sources



One system, one supplier, for EVERY SOLUTION

# THYRISTOR BASED SUBMERGED ARC WELDING

## FEATURES

- High welding performance based on unique design.
- High reliability.
- 100% duty cycle at 1000 Amps & 70% duty cycle at 1200 Amps.
- Suitable for long-time high current welding.
- Special dust proof structure avoids the abnormal failure of electric component.
- Suitable for high power supply fluctuation.
- Suitable for high ambient temperature.
- CC/CV DC output Optional.

## INDUSTRY & APPLICATION

- H Beam line of Pre Engineering Building & Railway Girder.
- Long & Cir Seam Welding of Pressure Vessles, Tanks, Pipe etc
- Railway & Bridge Girder
- Wear plate Cladding
- EOT Cranes
- Electric Pole
- Shipbuilding



## TECHNICAL SPECIFICATION

Control Mode	Thyristor
Mains supply	415V $\pm$ 20%, 3Ph, 50Hz
Rated input power	89 KVA
Rated no load voltage	75V
Output current range	200 – 1200A
Full load rating	1200A / 70%
Continuous load	1000A / 100%
Protection class	IP21S
Insulation class	200 Deg C
Dimensions, L x W x H	880 x 590 x 925 mm
Weight	330 Kg



## MZC-1200Z TRACTOR

### MZC-1200Z

This is a tractor mounted SAW Head suitable for operating with ZD5-1200EJ and KID-1200 Power Sources. This is most commonly used for linear welding applications.

### FEATURES

Touch Sense – precise control of retracting during arc start ensures 100% ignition rate  
Parameter Preset – welding voltage, current and speed

Stick Out Control – stable welding current in case of stick out variation, improved reliability  
Non Explosive Arc Start – smooth arc start eliminates weld defects and delivers perfect weld  
4-Roll Drive – smooth and reliable wire feeding

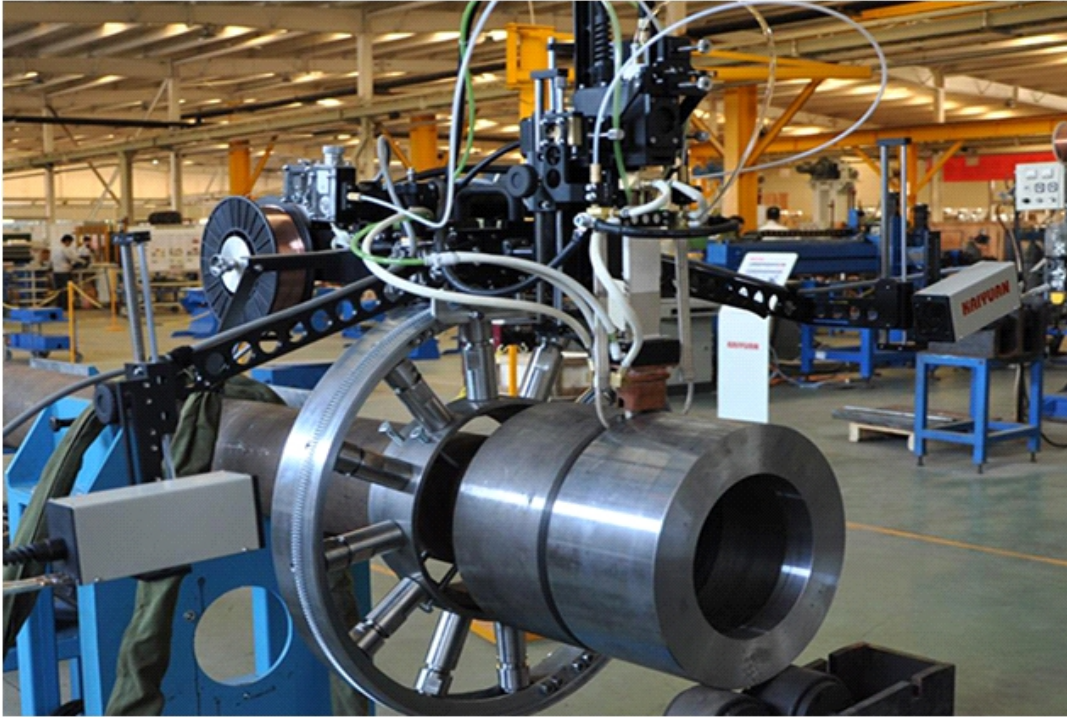
### APPLICATION SEGMENT

Single wire SAW with solid / cored wire

Wire diameter	: 2.4 – 4.8 mm
Arc striking mode	: Retracting
Wire feed speed	: 35 – 330 cm/min
Welding speed	: 15 – 125 cm/min
Parameter adjustment range	
Cross Beam around vertical axis	: $\pm 90$ Deg
Cross Beam height	: 70 mm
Torch inclination	: $\pm 45$ Deg
Tractor Head inclination	: $\pm 45$ Deg
Tractor Head distance (longitudinal, transverse, front and rear)	: 100 x 100 x 70 mm
Flux capacity	: 6 Litres
Wire reel capacity	: 25 Kg
Dimensions, L x W x H	: 1080 x 480 x 740 mm
Weight, Kg (excluding wire)	: 55 Kg



## NARROW GAP TIG



### FEATURES

Unique electrode oscillation to guarantee side wall penetration and increase weld efficiency

High quality welding

High efficiency welding.

Low heat input welding.

3-directional AVC tracking, automatic operation.

### SPECIFICATION

Max. weld thickness	:	150mm (Horizontal), 600mm(flat)
Groove width	:	9-10mm
Deposition speed	:	35~60g/min
Weld speed	:	50-300mm/min
Pass No. per layer	:	One pass
Wire diameter	:	1.2mm
Wire feed speed	:	0.2~6.8m/min

# NARROW GAP SAW



## FEATURES

Oscillating tip, left-mid-right three position welding position, oscillating assembly is stable and reliable.  
Chromium Zirconium Copper contact tip, alloy copper material torch soft connection with good conductive, those can increase life span.

Torch body is made of stainless steel and plasma paint technology,

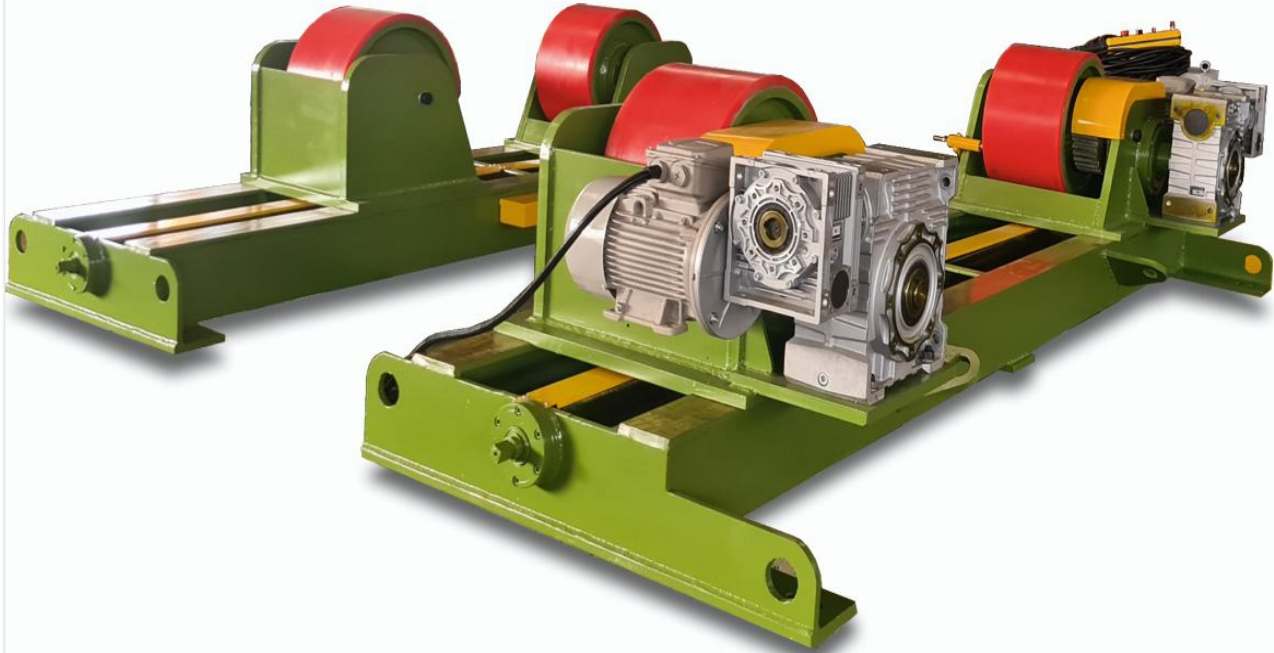
Automatic flux feeding and recovery and sensors to sense sidewall variations.

## SPECIFICATION

Max. weld thickness	:	400mm
Groove angle	:	1°~2°
Groove width	:	18-30mm(18-22mm at bottom)
Pass No. per layer	:	Two passes(One pass at first layer)
Wire diameter	:	3.0/4.0mm
Wire feed speed	:	60~180mm/min
Deposition speed	:	5~10kg/h
Torch oscillating range	:	$\leq \pm 3.5^\circ$
Torch oscillating precision	:	$\leq \pm 0.5^\circ$
Horizontal tracking precision	:	$\leq \pm 0.5^\circ$
Vertical tracking precision	:	$\leq \pm 0.2\text{mm}$
Cross slide strokes	:	$\leq \pm 0.5\text{mm}$
Highest heated temperature	:	350
Min. diameter for internal welding	:	1500mm



# WELDING ROTATORS/ TURNING ROLLS



The welding rotator is a versatile and indispensable tool designed to improve the efficiency, accuracy, and safety of welding processes. Ideal for handling cylindrical work pieces, such as pipes, tanks, and pressure vessels, the welding rotator facilitates smooth rotation and steady positioning, enabling high-quality welds with minimal manual intervention.

## KEY FEATURES

### Adjustable Speed Control:

- Offers precise speed adjustment to match welding requirements, ensuring consistent weld quality.
- Smooth operation with variable speed ranges to accommodate different workpiece sizes and welding applications.

### Load Capacity:

- Engineered to handle heavy-duty loads, our welding rotators can support workpieces from a few hundred kilograms up to several tons. Robust construction ensures reliable performance under demanding conditions.

### Control System:

- Equipped with user-friendly controls for easy operation and monitoring. Includes remote control options or enhanced convenience and safety.

### Durable Build:

- Constructed with high-quality materials to withstand harsh industrial environments.
- Long-lasting performance with minimal maintenance requirements.

### Safety Features:

- Includes emergency stop buttons and overload protection systems to ensure operator safety.
- Stable base design to prevent tipping or shifting during operation.



# WELDING POSITIONERS



At SRT, we are committed to enhancing welding efficiency and precision. Our state-of-the-art welding positioner, equipped with both rotating and tilting axes, is designed to meet the diverse needs of modern manufacturing. This innovative solution ensures that welders can achieve high-quality welds with minimal effort, reducing production time and increasing overall productivity. Whether you're working with complex assemblies or standard components, our welding positioner provides the versatility and control required for exceptional results.

## KEY FEATURES

### 360-Degree Rotation:

- Enables precise positioning of the workpiece, ensuring consistent and high-quality welds.

### Variable Speed Control:

- Allows for the adjustment of rotation speed to suit different welding requirements and materials.

### High Load Capacity:

- Designed to handle heavy and bulky workpieces, making it ideal for a wide range of applications.
- Adjustable Tilt Range: Offers a tilting angle from 0° to 135°, providing optimal access to various welding positions.

### Smooth and Stable Tilt Movement:

- Ensures accurate and stable positioning, reducing the risk of welding defects.

### Easy Angle Adjustment:

- Simple controls for quick and effortless angle adjustments during welding operations.

### Ergonomic Controls:

- Intuitive and easy-to-use control panel for seamless operation.

### Robust Construction:

- Built with high-quality materials to withstand the rigors of industrial use.

### Safety Features:

- Includes emergency stop buttons and overload protection for operator safety.

### Quick Setup and Changeover:

- Minimize downtime with fast and efficient setup and changeover processes.

### Improved Weld Quality:

- Consistent and precise positioning leads to superior weld quality and reduced rework.

# COLUMN & BOOM MANIPULATORS

Our Column & Boom Manipulators are designed to provide superior control and efficiency in welding applications. Built for precision, durability, and adaptability, our manipulators are the ideal choice for industries ranging from automotive to heavy fabrication.

## KEY FEATURES

### Precision Movement:

- Smooth and accurate vertical and horizontal motion for optimal weld positioning.

### Robust Construction:

- Heavy-duty design made with high-quality materials for long-term durability and reliability.

### Versatility:

- Suitable for a wide range of applications including pipe welding, tank welding, and structural steel fabrication.

### Ease of Operation:

- Intuitive controls reduce operator fatigue and increase productivity.

### Safety & Stability:

- Integrated safety features including emergency stop buttons and overload protection. Also it has Stable base design ensures safe operation even with the heaviest loads.

## APPLICATIONS

**Heavy Fabrication:** Ideal for large structures such as bridges, ships, and industrial equipment. **Pipe**

**Welding:** Perfect for welding cylindrical components with precision and ease for L Seam & C Seam. **Tank Welding:** Facilitates the welding of tanks and pressure vessels, ensuring high-quality seams. **Automotive & Aerospace:** Supports complex welding tasks in automotive frames and aerospace components.





### **APPLICATIONS**

**"Special-purpose trolley ( Up to 550 Ton) for power transformer shifting for VPD processing."**

**Welding/Fabrication:** Moving large structures for welding.

**Material Handling:** Transporting goods across plant sections.

**Assembly Lines:** Automating heavy component movement.

**Surface Treatment:** For blasting and painting booths.



# MULTI-VANE VACUUM PUMPS

The Multi-Vane Vacuum pumps are single-stage, heavy-duty rotary vane vacuum pumps of high pumping capacity. The pump's high capacity, coupled with its ability to handle harsh environmental conditions make it suitable for a Central Vacuum System applications.

## APPLICATIONS

- Glass Forming
- Drying and Degassing
- Thermoforming
- Extrusion
- Ceramics, Bricks and Tiles
- Metal and Plastic forming
- Pick & Place
- Surface Coating
- Electrical winding



## FEATURES

- Pumping Capacity Range: 250 m<sup>3</sup>/hr to 3240 m<sup>3</sup>/hr
- Ultimate Pressure: 0.5 mbar
- High pumping speed over operating pressure range (450 mbar – 0.5 mbar)
- Very high water vapor tolerance by ensuring high operating temperatures
- Air cooling system through an aluminum radiator and electric fan thermostat for operating without cooling water
- No coolant consumption thanks to the closed-loop lubrication circuit and high efficiency separation element
- Durability and efficiency guarantee by the special aluminum alloy vanes that ensure constant performances even after tens of thousands of hours of operation
- Limited footprint thanks to the compact layout designed to minimize the space needs
- Fully automatic operation: intake valve regulated by safety vacuum switch, coolant temperature control, thermostat and auxiliary control switches
- Coolant separator and recovery for clean air exhaust without treatment
- Control panel complete with main power switch, easy to operate

# OIL LUBRICATED VACUUM PUMP



Toshniwal Vacuum Pump (TMS Series) are single-stage, rotary vane vacuum pumps with a unique Oil re-circulation and gas ballast circuit. These rotary vane vacuum pump employ a robust design and provide superior operational reliability that make them an Industry standard in the Indian sub-continent. The pump's lubrication system is rated for continuous operation at high intake pressures making it extremely adaptable and suitable for most rough vacuum operations (pump down to 0.5 mbar pressure). Toshniwal is the only make in India manufacturer for a CE certified Oil Lubricated Rotary Vane Vacuum Pump.

## APPLICATIONS

Pharmaceutical Industry: Vacuum distillation and Vacuum Drying applications  
Food Industry: Vacuum packaging and bottle filling applications  
Automotive Industry: Vacuum Impregnation and Vacuum Drying  
Glass and Plywood manufacturers: Pick & Place application  
Heat treatment  
Oil purification  
Paper, Plastic, Rubber and Glass Processing

## FEATURES

- Pumping Capacity Range: 15m<sup>3</sup>/hr to 300 m<sup>3</sup>/hr
- Ultimate Pressure: 0.5 mbar
- High pumping speed over absolute pressure range (1000 mbar – 0.5 mbar)
- Designed to handle fluctuating pressures.
- Air-cooled
- Built in Anti suck-back system
- High vapor tolerance by unique gas ballast and Oil filter mechanism
- Non-polluting pump with oil re-circulation system
- Easily serviceable at client site by client team

# DUO ROTARY VANE VACUUM PUMP

The Duo rotary vane pump is a highly efficient Oil-sealed, Rotary Vane Vacuum pump designed as a backing pump for high vacuum pump. Employing a unique design, this pump offers superior vacuum while providing a higher resistance to oil contamination and quieter operation.



## FEATURES

- Pumping Capacity: 120 m<sup>3</sup>/hr
- Ultimate Pressure: 6x 10<sup>-3</sup> mbar
- Double Stage Vacuum Pumps
- Compact and rugged design
- Advanced lubricating system
- Quiet Operation with negligible vibration
- Easy maintenance and usage

## Applications

Most suitable as a backing pump for high vacuum pumps

Quiet operation and negligible vibration makes it suitable for noise sensitive environments

Degassing applications

Cryogenic Packaging applications Vacuum insulation

# ROTARY PISTON VACUUM PUMPS

Toshniwal manufactured TPP series Rotary Piston Vacuum pumps are multi-stage, heavy-duty Vacuum pumps. They are designed and fabricated for withstanding harsh and demanding applications where high resistance to abrasion and corrosion is required. These industrial grade pumps are better able to handle solvents, water vapor, corrosive gases and even small particulates than most other alternatives. The TPP series are pumps of choice for those looking for a durable, trouble-free, long lasting vacuum solution.

## FEATURES

- Pumping Capacity Range: 85m<sup>3</sup>/hr, 250m<sup>3</sup>/hr and 500m<sup>3</sup>/hr
- Ultimate Pressure: < 1.2 x 10<sup>-3</sup> mbar
- Extremely durable design & construction
- Minimal maintenance and Process downtime
- High tolerance to condensable vapor
- High tolerance to abrasive and corrosive vapors

## APPLICATIONS

- Metallurgical Heat treating
- Vacuum coating
- Degassing
- Transformer drying
- PET and polymer processing
- Chemical processing





# NIBBLER



Progressively adjustable beveling angle from 20°-55°

Processes pipe with a minimum inside diameter of 30 mm

Roller guide reduces vibration for comfortable machining and longer cutter life

Processing of T- and double T-carriers

Machine available as electric-version

Applications

Lock smiths

Steelwork

Machine manufacturing

Shipbuilding

Railroad cars

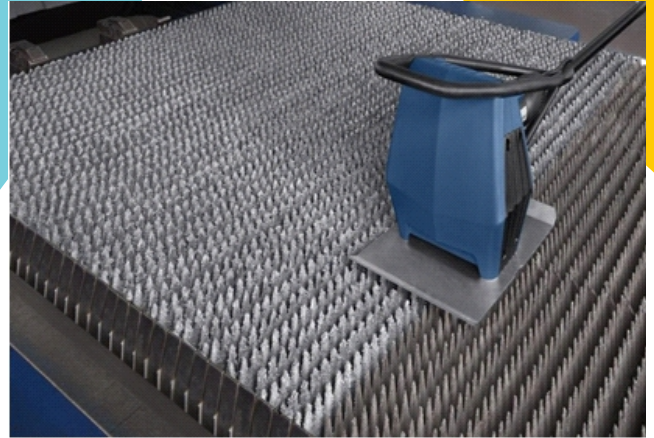
Job Shops for sheet metal working

## MAXIMUM CHAMFER LENGTHS

MAX. CHAMFER LENGTH, STEEL 400 N/MM <sup>2</sup>	:	15 mm
MAX. CHAMFER LENGTH, STEEL 600 N/MM <sup>2</sup>	:	9 mm
MAX. CHAMFER LENGTH, STEEL 800 N/MM <sup>2</sup>	:	6 mm
RADII SMALLEST RADIUS	:	55 mm
GENERAL WORKING SPEED	:	2 m / min
STROKE RATE WITH NOMINAL LOAD	:	370 RPM
NOMINAL POWER CONSUMPTION	:	2600 W
SHEET THICKNESS	:	4 mm - 160 mm
WEIGHT WITH HANDLE, WITHOUT CABLE	:	16.5 kg

## Tru Tool TSC 100 SLAT CLEANER

SLAT MACHINE	: 2 mm – 3.9 mm
MAXIMUM SLAG THICKNESS	: 25 mm
MINIMUM DISTANCE BETWEEN SLATS	: 33.5 mm
GENERAL	
NOMINAL POWER CONSUMPTION	: 1700 W
WORKING SPEED (MAX)	: 8 m/min
DIMENSIONS	
LENGTH	: 2104 mm
HEIGHT	: 342 mm
WEIGHT	: 18 KG



## Tru Tool TPC 165 PANEL CUTTER



MAXIMUM PANEL THICKNESS	:165 mm
MAXIMUM INDIVIDUAL MATERIAL THICKNESS FOR STEEL UP TO 400 N/MM	:0.9 mm
INSULATION MATERIAL	:Polyurethane foam, polyisocyanurate foam
SMALLEST POSSIBLE OPENING BY PIERCING	:340 mm x 340 mm
GENERAL	
WORKING SPEED (MAX)	:4 m/min
CUTTING TRACK WIDTH	:4 mm
NOMINAL POWER CONSUMPTION	:1600 W
DIMENSIONS	
LENGTH	:493 mm
HEIGHT	:231 mm
WEIGHT	:9.6 kg

## 10 KW Mild Steel Messer Cnc Plasma Cutting Machine Multitherm Pro, 450 Volts, Automation Grade: Fully-automatic

- Higher productivity with 24 m/min positioning speed and Acceleration 0.04g.
- High machine accuracy with Digital AC Servo motor & planetary gear box.
- Robust gantry with LM guides in Y-axis ensures stable and reliable cutting.
- Compact Plasma bevel head for weld preparation parts.
- Easy to use Global controller with Windows interface compatible for IOT features.

Cutting Thickness	More Than 30 mm
Automation Grade	Fully-automatic
Power	10 KW
Voltage	450 Volts
Material	Mild Steel
Phase	3 Phase
Minimum Order Quantity	1

### KEY FEATURES:

- Positioning speed 24 m/min & acceleration 0.04g helps to reduce cycle time.
- Digital servo AC drives with precision gear boxes in X & Y axis.
- Robust beam with LM guides to ensure superior cut quality.
- Compact in design and fully concealed cables & hoses.
- Automatic gas regulation system – Eliminates manual intervention for setting the gas flow.
- Symmetric wheel housing design & parking space for unused torches increases the cutting width.
- Reliable height control for longer nozzle life and high-quality cuts.
- Messer hole technology (Hypertherm True hole for Hypertherm cases) for accurate inner contours
- Various Marking techniques like Plasma, Powder & Punch marking helps avoiding post cutting operations (Optional)





## OmniMatFiber

MINIMUM MAINTENANCE  
MAXIMUM CUT PERFORMANCE



The OmnimatFiber excels in high positioning speeds and accuracy because of its rigid construction and linear guides User friendly CNC control for better performance Positive Bilateral longitudinal drives for good acceleration Low maintenance costs and long operating life. Fiber lasers work with continuous glass fibers with no deflecting mirrors and gas purging.

### OmniMatFiber

Track Gauge	4000	5000	6000	7000
Working Width	3000	4000	5000	6000
Total Width	5100	6100	7100	8100

### TECHNICAL DATA

- Travel Speeds: up to 35 mtr/min
- Working length: unlimited
- Cutting processes available: Laser cutting and Marking
- Laser power available: 1000 W / 2000 W / 3000 W / 4000 W / 6000 W

## Fiberblade V

EFFICIENT, STABLE, SUPERIOR AND HIGHLY PRODUCTIVE



Benefits from Messer high speed technology New generation Global control system with simple and user friendly HMI. Equipped with verified database Compatible with a few OEM NCX code Minimum downtime Configurable with material handling and storage systems

### Fiberblade V

Model	3015	4020	6020
Working width (mm)	1525	2025	2025
Working length (mm)	3050	4050	6350

### TECHNICAL DATA:

- Cutting system with fiber laser
- Travel speed : upto 120m/min (169m/min simultaneous axis)
- Acceleration : 1.5G
- Laser process available: Laser cutting and marking- Laser power available: 3000w to 10,000W

# Inverter Drawn Arc Stud Welding Machines

The compact i12 is a lightweight, digital portable Inverter drawn arc stud welder and is capable of welding from M3 up to M12 studs

## Features & Advantages

- Light weight
- Weld current and weld time can be set
- Reduction in Input Kva of machine
- Constant current power source ensures consistent weld quality
- Smart digital display provides easy viewing of parametres
- Faster arc response because of Inverter technology makes it more reliable and repeatable
- Excellent performance on coated sheets

## Applications

- Automobile
- Farm Equipment Insulation in Shipbuilding
- Transformer Tank Manufacturing
- Boiler Stud Welding Heat Exchangers
- Heavy Fabrications
- Earth Moving Equipment
- Power Plants Refractory
- Anchor Welding



	MODEL i12	MODEL i16
Stud welding range	M3 to M12	M3 to M16
Welding current	800 Amps Max	1200 Amps Max
Welding time	10 to 400 ms	10 to 600 ms
Power	415v 3 Phase 50Hz	415v 3 Phase 50Hz
Welding Cable	5 Meter	5 Metre
Welding Material	Mild steel, Stainless steel	Mild steel, Stainless steel
Welding Gun	Gap type	Gap type
Display	LCD Graphic	LCD Graphic
Self Diagnosis	Over hear, Input error and Internal fault	Over hear, Input error and Internal fault
Control Logic	Microcontroller based	Microcontroller base

# Welding Data Logger

## DATA LOGGER XIII (ALX III) PORTABLE (ALX/0540)

The Arc Logger XIII (ALX III) weld monitoring data logger is available in three configurations and all units are supplied as a single channel system as standard. The Portable and the Workstation systems can be upgraded to monitor up to four channels simultaneously and the RS system to two Channels.

Up to four simultaneously monitored channels (depending on model)

Wire feed speed

Gas flow

Travel speed

Type 'K' contact temperature

Laser depth

Multi-channel temperature

Wireless networking connectivity

Wireless transducers and sensors connectivity



## Welding Applications & Techniques

Our monitoring systems are TIG High Frequency protected and used with:

MMA applications

MIG applications

TIG (AC/DC) applications

Sub arc applications

Flux core applications

Manual welding systems

Semi-automatic welding systems

Fully automatic welding systems

Robotic welding systems



## Welding Applications & Techniques

Our monitoring systems are TIG High Frequency protected and used with:

- MMA applications
- MIG applications
- TIG (AC/DC) applications
- Subarc applications
- Fluxcore applications
- Manual welding systems
- Semi-automatic welding systems
- Fully automatic welding systems
- Robotic welding systems



The Mini **Arc Logger 4.0 (MAL 4.0)** weld monitoring data logger can monitor one channel. Using the standard software package, the system can monitor voltage, current, wire feed speed, travel speed, gas flow, temperature, purge oxygen levels, plus automatic head input and energy calculations.

Optional Pulse Reporting software makes it easy to monitor and report complex welding pulses.

With non-intrusive probes, the Mini Arc Logger 4.0 monitors voltage, and current as standard with additional options including:

Wire feed speed

Gas flow

Travel speed

Type 'K' contact temperature

Laser depth

Multi-channel temperature

Wireless networking connectivity

Wireless transducers and sensors connectivity

## Applications & Techniques

Our monitoring systems are TIG High Frequency protected and are for use with:

MMA applications

MIG applications

TIG (AC/DC) applications

Sub arc applications

Flux core applications

Manual welding systems

Semi-automatic welding systems

Fully automatic welding systems

Robotic welding systems



## Set and record travel speed rates with precision.

Improve welding quality and consistency

Reduce production costs

Increase productivity

Facilitate in-process quality control

Validate welding speed

Provide valuable process costing data

Easy to use and mount

The Travel Speed Meter (TSM) is a portable, battery-powered monitor available in Standard or Advanced models. It enables

pre-production setting and recording of travel speed rates for automated welding processes.

The monitor also measures welding time in seconds, providing valuable process costing data.

The tachometer transducer is fitted with a purpose-designed mounting plate that allows for a variety of fixing possibilities.

The compact design also makes it easy to mount. The instrument can then be used for in-process quality control monitoring and validation of welding speed.



## Accurate electrode feed rates, every time.

Predictable welding current for a specific wire size and feed speed

Easy to mount and use

Real-time data

Data logging available

Wire type and diameter selection

Choice of 3-wheel or 2-wheel tachometer

The Wire Feed Meter 2 (WFM2) is a portable, battery-powered monitor that allows you to set and record consumable electrode feed rates for automated welding processes. This ensures a predictable welding current for a specific wire size and feed speed, whether you choose the Standard or Advanced model.

The tachometer transducer is designed to be self-supporting on the monitored wire, thanks to its purpose-designed mounting cradle. Its compact design allows for easy mounting between the consumable spool and pinch rollers in most wire feed systems. This makes it ideal for in-process quality control monitoring and validation of wire feed rates.

The wire speed tachometer comes with grooved-idler wheels that ensure all wire diameters are held by the tachometer. The wheels are easily changed by the operator, making it a versatile and user-friendly tool.



Rental gas flow meters include TVC's Gas Flow Meter 2 (GFM2) and Nozzle Flow Meter 3 (NFM3) for accurate welding gas flow measurement.

#### GFM2

The Gas Flow Meter 2 (GFM2) can be used at the torch nozzle or downstream of the regulator to measure all shielding gases and gas mixes.

Peak gas flow displays for gas consumption analysis and flow results. Data logging facility captures pressure data, temperature, and surge data.

Connects to any TVC welding data logging system, providing a permanent record of gas flow measurements.

#### NFM3

Measures shielding gases and gas mixtures gas flow right at the welding torch nozzle. Peak gas flow displays for gas consumption analysis.

Connects to any TVC welding data logging system.



## Purge monitoring that's simple and effective.

Easy to transport and use

Can be used with all inert purging gases for a wider range of applications

Saves time and money

Simple, single-button operation

High accuracy and reliability

Can be used for continuous monitoring or spot checks  
Competitively priced

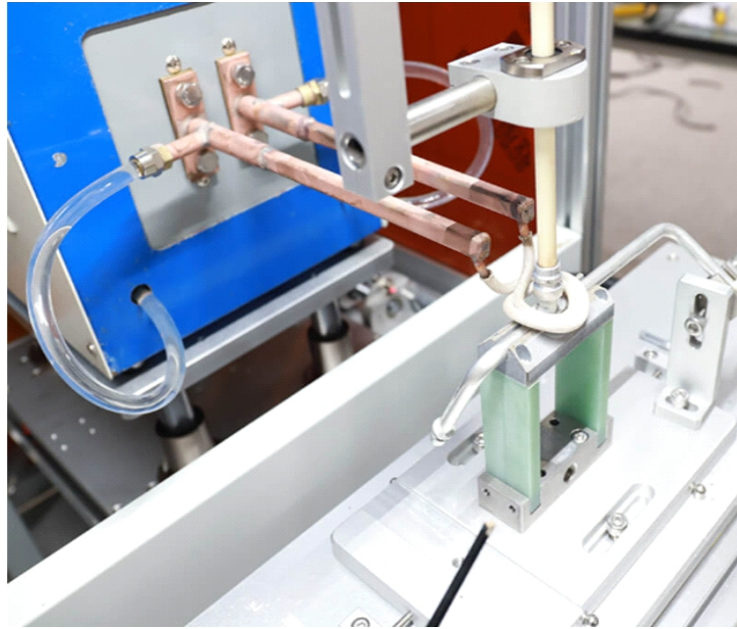
This compact, handheld device is battery-powered and easy to use, making it the perfect solution for any welding application. The BPM offers high accuracy and reliability, while still being competitively priced.

With the BPM, you can be confident that your welds will be free of porosity, cracks, and other defects.

The BPM's non-depleting optical oxygen cell offers superior accuracy, reliability, and longevity.



# INDUCTION EQUIPMENT OR ALUMINIUM BRAZING



HCGP induction equipment for aluminum brazing is suitable for variety shape of parts brazing such as tube, profile, distributor, plate etc.

## Features:

- Precise temperature control: In collaboration with the manufacturer, we have jointly developed infrared thermometers with a measurement accuracy of  $\pm 1\%$  Measuring range for aluminum material.
- Closed-loop control system with PID controller, achieving precise temperature control during induction heating process.
- Accurate heating: Heating time can be accurate to 0.1 seconds.
- Data Storage: Multiple process parameters storage with one-click for data retrieval. Induction coil design with years aluminum brazing experience, only the target heating area heated without hurt base material of workpiece.
- Well-designed workpiece fixtures enable more stable and precise aluminum brazing quality.

## Advantages:

- Aluminum Brazing machine with induction offer better joint quality duo to its reliability, repeatability.
- High heating efficient increase throughput of brazing.
- PLC control and data storage of induction equipment improve the brazing process.
- Precise management of heating temperature ensure better quality of aluminum brazing.

## APPLICATION



ALUMINUM BRAZING



COPPER BRAZING



STEEL BRAZING



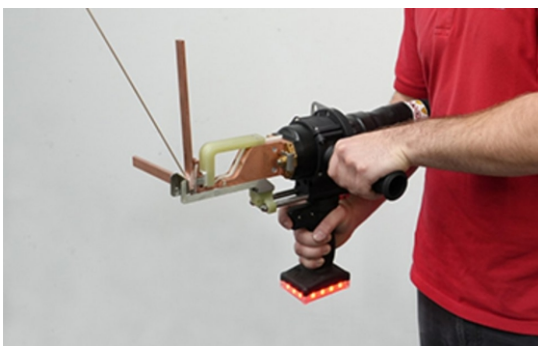
## MIND-S 1000 Induction Hardening Machine

### Specifications MIND-S 1000

- NC movement axes in X, Y and Z direction
- HMI operator guidance via mask input on Siemens 840D CNC control.

Industry 4.0 process and machine data acquisition with eQC (eldec Quality Control).

- Optimum accessibility to the work area for set-up and cleaning
- Minimum floor space (800 x 2600 mm)
- Integrated machine control cabinet and generators (HF and MF)
- Integrated re-cooling system
- Work area enclosure



## Heat Controller

Active feedback enables the reproducibility of the hand-held induction heating processes for the first time.

When the preset heating time or temperature (only in combination with a pyrometer) is reached with the Heat Controller, a multi-coloured LED light signal, a vibration signal or an acoustic signal is optionally activated – this can also be combined.

## MIND-S 250 Hardening Machine

### Specifications MIND-S 250

- All In One: Integrated machine control cabinet and generators (HF and MF)
- All In One: Integrated re-cooling system
- Work area enclosure
- NC movement axes in X, Y and Z direction
- HMI operator guidance via mask input on Siemens 840D CNC controller
- Optimum accessibility to the work area for set-up and cleaning
- Minimum floor space (800 x 2600 mm)





# Anest Iwata Mother son High Efficiency APM Screw Air Compressor



## Unique designed two layer oil cooled PM motor

The double-layer oil-cooled shell design uses the air compressor cooling system to cool the motor through the liquid channel, ensuring low-temperature operation of the motor in the whole frequency range and preventing high-temperature lead to demagnetization. The PM motor adopts high-temperature permanent magnet material resistant to 180 degrees Celsius, which effectively ensures that the permanent magnet unit does not demagnetize. The IP65 motor is ideal for dusty or poor environments. The PM motor does not use traditional bearings making the motor maintenance-free

## Energy saving

In the case of a small amount of air used or no air used, the system goes to sleep to achieve maximum energy savings. During sleep, when you use compressed air again, the inverter will respond quickly and starts immediately.

## New Air end profile

The super profile increases the compression area so that the performance of the Airend is better than the standard one. Thanks to its excellent safety and reliability, plus high energy efficiency make it the best choice for replacing traditional Airend on the market.

## Original "Taper" connection

The Airend and the motor are connected by the Taper connection method. It is convenient and quick to install and disassemble. It does not need to be adjusted, and it is not easy to damage the motor and internal parts, which greatly reduces the maintenance cost.

## Latest touch screen PLC

The latest touch screen PLC realizes the real intelligent control for your compressor, Time table running makes your compressor start/stop automatically as you want, more functions have been included to help the easy management of your compressor, we also could support remote control and monitoring with your permission.

## Technical Specification

Model	kW	HP	Capacity (m3/min)	Pressure (Bar)	Noise Level (dB)	Dimensions (mm)	Outlet size	Weight kg
AIM 30 APM - 7	22	30	3.7	7	70	1200 x 800 x 1100	Rc 1	350
AIM 30 APM - 8			3.6	8				
AIM 30 APM - 10			3.0	10				
AIM 50 APM - 7	37	50	6.2	7	74	1300 x 900 x 1270	Rc 1 1/2	520
AIM 50 APM - 8			6.1	8				
AIM 50 APM - 10			5.6	10				
AIM 60 APM - 7	45	60	7.4	7	73	1300 x 950 x 1370	Rc 1 1/1	620
AIM 60 APM - 8			7.3	8				
AIM 60 APM - 10			6.8	10				
AIM 75 APM - 7	55	75	10.4	7	77	1800 x 1200 x 1550	Rc 2	1000
AIM 75 APM - 8			10.1	8				
AIM 75 APM - 10			8.5	10				
AIM 100 APM - 7	75	100	13.3	7	77	1800 x 1200 x 1550	Rc 2	1100
AIM 100 APM - 8			12.9	8				
AIM 100 APM - 10			11.8	10				

# Anest Iwata Motherson RECIPROCATING AIR COMPRESSORS



## Air Cooled Reciprocating Oil Lubricated Compressors

Significant savings in power consumption

Very Less noise and vibration Levels

Very Less oil carry over

Tried and tested in extreme Indian tropical conditions

Exported all over the world including Japan and USA

## Key Application Areas

Auto Workshops / Oil/Gas Station / Rice and Pulse Mills / LCMS/GCMS/NMR / Construction Segment / Painting / Power, Steel & Infrastructure / Printing / Packaging / Brick making machines / Fire Fighting / Tannery / Mining / Sugar Plants / Stretch Blow Moulding / CNC/VMC machine / Garment / Tyre Shop / Knitting & Hosiery / Pollution Control Equipment / General Industry

## Technical Specification

Model	Power		Piston Displacement		Operating Pressure	Tank Size	Overall Dimension	Weight	Outlet size
	HP	KW	CFM	LPM	Bar	Litres	LXWXH [mm]	Kg	Inch
TLT30C-12-9E	3	2.2	10.4	294	12	90	1305x440x775	145	½"
TLT30C-12-18E	3	2.2	10.4	294	12	180	1580x475x920	170	½"
TLT30C-12-22E	3	2.2	10.4	294	12	220	1590x515x980	195	½"
TLT50C-12-18E	5	3.7	17.3	490	12	180	1580x475x925	180	½"
TLT50C-12-22E	5	3.7	17.3	490	12	220	1590x515x990	205	½"
TLT50C-12-28E	5	3.7	17.3	490	12	280	1600x565x1040	235	¾"
TLT75C-12-22E	7.5	5.5	27.3	773	12	220	1590x530x1030	260	¾"
TLT75C-12-28E	7.5	5.5	27.3	773	12	280	1600x570x1075	290	¾"
TLT75C-12-50E	7.5	5.5	27.3	773	12	500	1910x670x1180	350	¾"
TLT100C-12-22E	10	7.5	33.3	941	12	220	1590x565x1125	295	½"
TLT100C-12-28E	10	7.5	33.3	941	12	280	1600x600x1170	315	¾"
TLT100C-12-50E	10	7.5	33.3	941	12	500	1910x670x1275	380	¾"
TLT150C-12-28E	15	11	52	1472	12	280	1600x770x1180	365	¾"
TLT150C-12-50E	15	11	52	1472	12	500	1910x830x1280	430	¾"
TLT200D-12-50E	20	15	72.4	2050	12	500	1910x790x1400	480	1"



# Ultra Max II 495 PC

The **Ultra Max II 495 PC** Pro airless sprayer brings the leading technology and performance of Graco's larger Ultra Max II models into a compact design that is lightweight (34 lbs) and easy to transport while providing more torque, even pressure delivery and faster cleaning to finish jobs faster.

Increased Productivity. Unmatched Reliability. Graco's Mid size Electric airless sprayers make it easier to get more work done in a day with increased flow and production rates.

## **Durable Endurance Chromex Piston Pump**

Lasts 2X longer than the next leading brand

Chromex rod and hardened stainless steel cylinder

Long Life V-Max Blue Packings

Faster cleaning with the QuikAccess intake valve

## **SmartControl with Digital Display**

Even pressure delivery on every job

Constantly monitors performance and adjusts motor speed to match your spraying needs

Measure sprayer gallons, hours and pressure

Provides support messages and diagnostic support

## **MaxPower Motor**

Proven power and performance for all painting applications High-torque brush less design

## **Advantage Drive**

The longest lasting drive Hardened steel gears provide extremely quiet operation

## **ProConnect One-Part Pump Replacement System**

Eliminate costly downtime

Pump swaps in minutes – no tools, pins or parts to lose

## **FastFlush High-Flow Cleaning System**

More spraying & less cleaning

4X faster cleaning with ½ the water

## **Easy Out Pump Filter**

Easy Maintenance & Less Clogging

Exclusive inside-out filtering process ensures a quality finish

## **Swivel Inlet Suction Hose**

Easily reaches paint buckets





# Ultra Max II 795

The **Ultra Max II 795** Standard Series electric airless sprayer has a 2.2 hp brush-less DC motor to handle multiple guns and includes the industry-proven Chromex pump with 2X life, SmartControl 4.0, BlueLink Job & Sprayer Management System, the lightweight and easy-to-use Contractor PC gun and more.

Everyday Reliability. Standard Series large electric airless sprayers are the industry standard for residential and commercial contractors looking for proven reliability to spray a wide variety of coatings with a variety of tip sizes on larger jobs.

## **Endurance Chromex Piston Pump**

Lasts 2X Longer than competing pumps

Repack the pump in minutes with the new Quik Pak Cartridge System

Faster cleaning with the Quik Access intake foot valve

## **Smart Control 4.0 with Pro Guard Protection System**

Precision pressure control

Lowest dead band at any pressure delivers a consistent spray fan without pressure fluctuation

ProGuard prevents electrical damage from extreme job site power conditions

WatchDog Pump Protection System automatically prevents pump damage if material supply is too low

## **Blue Link Job & Sprayer Management App**

Streamline Your Business

Track every sprayer: Exact location & hourly productivity

Know job progress: On demand productivity facts and reporting from anywhere

Maximise uptime: Set maintenance schedules, alerts, & job site notes

## **MaxPower Motor**

Get more work done

Proven performance for all painting applications

High-torque brush-less design. Never need to replace brushes.

## **Advantage Drive**

The longest lasting drive

Hardened steel gears provide extremely quiet operation

## **FastFlush 2 System**

Fast cleaning now even FASTER

Clean the pump 6X faster using ½ the water

High-velocity fluid flow delivered with 60% higher motor speed



# GRACO 390 PC

Introducing the first and only cordless high performance stationary paint sprayer. Designed to deliver all the performance of a corded 390 PC airless sprayer along with the freedom from power cords, electrical outlets or generators. Experience the power and freedom to spray every job faster.

The ONLY High performance cordless paint sprayer – up to 228 bar (3,300 psi) with 0.53 mm (0.021 inch) max tip. Sprays up to 11L (3 gallons) on a single battery charge – two batteries included for all day spraying. Expanded application capability to spray anywhere!

## **Benefits You'll Appreciate on Every Job:**

Set up where you want instead of where the power is located

Consistent, all-day spraying power without power fluctuations

Deliver perfect airless finishes with extended runtime and RAC X Low Pressure Switch Tips

Eliminate competing for power with other trades

Stop wasting time dealing with long extension cords

Lightest weight makes it easier to move and transport

Experience quiet job sites with battery power instead of using noisy generators

## **Powered by DEWALT®**

High capacity 6ah FLEX VOLT batteries – spray up to 11L (3 gallons) per battery charge

Delivered complete with two batteries

Fan-cooled fast charger – recharges battery in under 60 minutes

## **Brushless DC Motor**

Powerful brushless DC motor provides extended battery run time

Lightweight, compact design allows for increased portability

## **Durable Endurance Piston Pump**

Lasts 2X longer than the next leading brand

Long Life V-Max Blue Packings, Chromex rod and hardened stainless steel cylinder

Faster cleaning with the QuikAccess intake valve

## **Pro Connect One-Part Pump Replacement System**

Eliminate costly downtime

Pump swaps in minutes – no tools, pins or parts to lose

## **Advantage Drive**

The longest lasting drive

Hardened steel gears provide extremely quiet operation and a lifetime warranty





# Ebinstock



## MAGNETIC DRILLING MACHINE

- Rated Voltage (V) : 220-240
- Power Input (W) : 1050
- Core Cutting Capacity (mm) : 12 to 35
- Core Cutting Depth (mm) : 50
- Rated Speed (RPM) : 400
- Direct Arbour (mm):19 Weldon
- Weight (kg) : 8

## DRILLING MACHINE



- Rated Voltage (V) : 220-240
- Power Input (W) : 1700
- Twist Drilling Capacity (mm) : Ø32
- Core Cutting Capacity(mm) : 55 To 65
- Weight (kg) : 6.1
- Spindle Connection : Mk3

## SAWING / CUTTING / SLITTING



- Rated Voltage (V) : 220 - 240
- Power Input (W) : 1,250
- Max Disc Diameter (mm) : 110
- Max Cutting Depth(mm) : 33.5
- No-load Speed (rpm) : 12,500
- Weight (kg): 2.8

## SANDING / MILLING / SMOOTHING



- Rated Voltage (V) : 220 - 240
- Power Input(W) : 1,400
- Grinding Disc Diameter (mm) : 125
- Thread of Work Spindle : M14
- No-load Speed (min - 1) : 9,500
- Weight (Kg) : 3.2







MODEL	DESCRIPTION / SIZE	HSN CODE	GST RATE
1/2" IMPACT WRENCH IPW/305	BODY TYPE : ALUMINIUM	8204	18%
	MAX TORQUE : 1356 NM		
	NET WEIGHT : 2.3 KG		
	HAMMER MECHANISM : TWIN		

## GROZ

### FOOT OPERATED GREASE PUMP

MODEL	DESCRIPTION SIZE		HSN	GST
FOP/10A	PRESSURE	8700 PSI	8413	5%
	DELIVERS	UPTO 2 GM/STROKE		
	BUCKET CAPACITY	10 KG		



## Pneumatic Chipping Hammer PRO P25

### Features

- High power-to-weight ratio
- Robust steel housing for rough handling
- Comfortable grip and controllable impact
- Wide Range of Chisels
- Coming in D Handle design
- Available in Hex or R Bushing Types

### Technical Specifications

Imperial Metric

Design & Functions

PRO	Yes
Dampening	Not applicable
SCIP	5bb0a6e1-0adc-4c8f-b454-34b66e23b3ea
Bushing type	Hex
Noise & vibrations	
Vibration uncertainty	2.9 m/s <sup>2</sup>
Vibration value	8 m/s <sup>2</sup>
Vibration standard	ISO28927-10
Sound standard	ISO15744



## Chisel

### Features

- Slagging welds
- Trimming concrete & demolition
- Sheet-metal cutting
- Fettling castings

### Benefits

- Robust and durable
- Hardened steel
- Long usage
- Possibility to forge into desired shape



# Flexible Anti Corrosion Epoxy Coating

## Flexible solvent free epoxy coating for metal & concrete surface

**Star Blaze 37B01** is a full of solids and is meant for high build ups. The solvent free epoxy has a high elongation and thus is flexible and offers excellent sealing & waterproofing on metal roofing together with chemical attack, corrosion, and impact & abrasion resistance.

### APPLICATIONS:

Water proofing & protection of metal roofs

- Galvanized - Welded
- Pre-Fabricated
- Asbestos

Metal pipe flange flexible anti- corrosion coating



### TECHNICAL PROPERTIES:

Color & Appearance	Off white/grey, Viscous Liquid
Curative	Proprietary adduct
Specific Gravity	1.20 + 0.15
Mixing Ratio by wt.	100 : 30 (Part A : Part B)
Pot Life	30-35 minutes @25OC
Touch Dry	2-3 hours @ 25°C
Tack Free	10-14 hours @ 25°C
Full Cure (Time to Service)	7day's @ 25°C
Full Cure (Time to Service)	45
Pull off adhesion on concrete (ASTM D454)	>500 psi (concrete failure)
Pull off adhesion on MS Surface* (ST2 /ST3)	>800 psi (Cohesive failure)
Tensile strength (ASTM D638)	>5500 psi
Tensile elongation %	>60%
Abrasion resistance (ASTM D4060)	
Scratch resistance (ASTM D5778)	Excellent – 2.0 kgs
Humidity resistance	Passes 5000 hours
Gloss (ASTM D523)	>80@ 60 degree angle
Temperature resistance – Dry	Upto 90°C
Salt spray resistance (ASTM B117)*	Passes 1000 hours

### PROCEDURE OF APPLICATION

#### Surface Preparation:

1. Metal surfaces external use : ST 2 /ST 3 + RL 500PF Primer or SA 2.5 blasting. Ensure surfaces are clean & dry Primer: StarBlaze 31B01.
2. Concrete /masonry : Apply only to clean, dry and sound concrete, Masonry Substrates that are free of all coatings, sealers, curing compounds, oils, greases or any other contaminants. Primer: Star Blaze 75C01 & Screed: Star Blaze 33B01

New concrete should be cured a minimum of 28day

Concrete that has been contaminated with chemicals or other foreign matter must be neutralized or removed. Remove any latence or weak surface layers.

Ideally concrete should have a minimum surface tensile strength of at least 300 PSI per ASTM D4541.

Surface profile shall be CSP-3 to CSP-5 meeting ICRI (International Concrete Repair Institute) standard guideline #03732 for coating concrete, producing a profile equal to 60- grit sand paper or coarser. Prepare surface by mechanical means to achieve this desired profile.

Moisture vapor transmission should be 3 pounds or less per 1,000 square feet over a 24 hour time period, as confirmed through a calcium chloride test, as per ASTM E-1907. Quantitative relative humidity (RH) testing, ASTM F-2170, should confirm concrete RH results

#### Mixing guidelines:

It is strongly recommended that full units be mixed, or else proper weighing & mixing should be carried out

1. Add part 'B' into part 'A'.
2. Mix thoroughly with screwdriver or similar tool (continuously scrape material away from sides and bottom of container) until uniform.



## Floor sealer coating

Oil & water sealer for concrete & flooring.

**Starblaze 75C01** is a “MCU” technology based, non-toxic water & oil tolerant concrete sealing agent which penetrates into contaminated concrete, seals & protects new & worn-out concrete floors /walls, against spillages & seepages. The sealer is composed of an organic, chemically reactive, catalyzed compounds, which allow deep penetration on damp & oily surfaces and seals the capillary voids of the concrete / floors



### Special Features: -

The sealing action prevents any moisture and vapor to penetrate thus preventing the below structures especially the re-bar.

Can be used for negative and positive side application.

Penetrates up to 2 inches thick concrete.

Used as a base layer providing high bonding strength for application of corrosion & UV resistant coating solutions.

Improves the flexural and tensile strength of the concrete structure.

Prevents formation of rust and water-borne contaminant stains, decreasing maintenance costs.

Prevents lichen, moss and fungus growth on the surface.

### Application Areas:

DG room floors & Compressor base.

Oil-soaked workshop floor repairs.

Concrete Bridges & Tanks.

Marine & Offshore cooling towers & structures.

Paper, Sugar & Chemical industry components & structures.

Floors & roofs requiring prevention of fungi, moss & lichen formations.

Hydro power plants concrete structures

### Technical Properties:

Type	1K liquid
Density	0.96±0.03 kg/ Liter
Flash Point	>25°C
Solids content	50±2%
Coverage(theoretical)	5.0 sqmtr/ Liter @100μ DFT
Humidity resistance (ASTM-D4585)	1000Hrs
Adhesion on concrete (ASTM D4541)	>500psi (Concrete failure)
Temperature resistance	Up to 120°C
Adhesion on Steel & wood	Excellent
Corrosion resistance – salt spray (ASTM B117) (with system)	>500 Hrs.
pH resistance – atmospheric	5.5 pH to 12.5 pH (Top coat beyond this range)
Gasoline resistance	Good
Drying time (set to touch)	20-30 min@ 1.5mil dry film
Functional cure	90-120min
Full cure	72 hrs.

## STEEL REPAIR (HS) PUTTY

### High tensile strength repairing epoxy

Star blaze 41A01 is a machinery steel filled eparchy-based putty which can with stand temperature up to 1200 C.

#### PROPERTIES: -

COMPOSITION - EPOXY RESIN STEEL-FILLED

SPECIFIC PROPERTIES - PUTTY.

COLOR AFTER CURING - DARK-GREY.

PACK SIZE - 0,5 KG SET.

MIXING RATIO BY WEIGHT - 8:1

POT LIFE AT +20°C MIN - 60.

TEMPERATURE RESISTANCE FROM / TO °C - UPTO 120° C.

CURE TIMES (IN HOURS)

HANDLING STRENGTH - 16.

FINAL HARDNESS – 24

MEAN STRENGTH AT +20° C ACC TO DIN 53281-83

COMPRESSIVE M PA - 80.

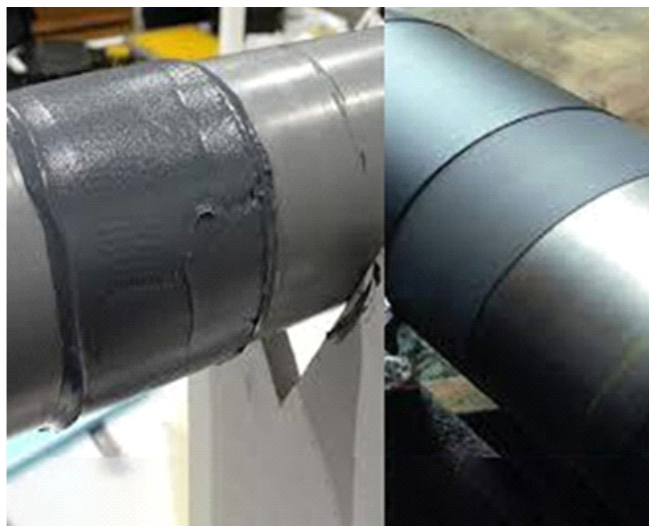
TENSILE M PA - 21.

FLEXURAL M PA - 34.

SHORE HARDN. D - >85.

SHRINKAGE % - <0,015

VISCOSITY WITH HARDENER MPA'S (APPROX) - 500000



#### APPLICATIONS:

- Parts damaged due to corrosion.
- Tanks subjected to corrosion.
- Machine parts & Moulds.

## ACID RESISTANT (NV) FLOOR COATING

### Novolac based acid resistant flooring

75C03 is with 100% solids consisting of Novolac resin with a UV & Moisture tolerant advanced cycloaliphatic curative coating. Outstanding resistance to both concentrated mineral acids (98% Sulfuric, 33% Hydrochloric, Aqua Regia.) as well as organic acids (Acetic acid, Fatty acids.) and also concentrated oxidizing acids (50% Nitric acid, 10% Hydrofluoric Acid). It offers an excellent protection to concrete surfaces.

#### APPLICATION AREAS:

Primary containment of effluent & waste water. / Manholes, wet wells & lift stations. / Metal treatment plants-pickling, plating, galvanizing. / Petrochemicals & fertilizer plants. / Food processing areas - dairies, breweries. / Battery storage areas. / Chemical / acid storage tank lining. / Pharmaceutical plants. / Solvent extraction systems / Sulfur & brine pits. / Tanks & vessels – neutralization tanks & clarifiers. / Pipelines & valves. / Acid sumps & drains. / Scrubbers, pumps, ducts & ID fans.

Color & Appearance	Grey, Viscous Liquid
Curative	Cycloaliphatic amine
Specific Gravity	1.4 + 0.05
Mixing Ratio	2 : 1 (Part A : Part B)
Pot Life	30-35 minutes @25OC
Touch Dry	2-3 hours @ 25OC
Tack Free	6-8 hours @ 25OC
Hard Dry	24 hour @ 25OC
Full Cure (Time to Service)	96 hours @ 25OC
Hardness, Shore D (ASTM 2240)	80
Pull – Off Adhesion (ASTM D 4541)	>8 mpa
Tensile Strength (ASTM D 638)	>25 mpa
Compressive Strength (ASTM D 695)	>110 mpa
Dielectric Constant (ASTM D 150 – 150 KHz)	3.0
Coverage	0.40 sq mtr /kg @ 1000 microns DFT.
Temperature resistance	125OC
Chemical resistance	Excellent for all type of acids.







## DOUBLE GIRDER EOT CRANE

### Features of Standard Double Girder EOT Cranes

- ▶ Manufacturing up to 150T Capacity with 35m Span
- ▶ Modular standard and customised design as per IS3177, IS 807
- ▶ Customised designs as per DIN, CMAA & FEM standards available
- ▶ Auxiliary hoist mechanism available
- ▶ Minimum Noise Creating Light Model available
- ▶ Customized speeds and dual speed available
- ▶ Heavy Duty Application (Call IV) Available
- ▶ Short-head room model available
- ▶ Customised design available for steel duty grade application as per IS4137, is807
- ▶ Approved by MN Dastue, MECON, tata consultance , NMDC, Delhi jal Board, Engineering india Ltd, DCPL, L&T, CET,SAIL,CIDC and other Gov.and Private entities

## SINGLE GRIDER EOT CRANE

### Features of Standard Single Girder EOT Crenes

- ▶ Manufacturing up to 25T Capacity with 30m Span
- ▶ Modular standard and customised design as per IS3177, IS 807
- ▶ Customsied designs as per DIN, CMAA & FEM standards available
- ▶ Minimum Noise Creating Light Model available
- ▶ Customized speeds and dual speed available
- ▶ Heavy Duty Application (Call IV) Available
- ▶ Short-head room model available
- ▶ Customised underslung cranes available
- ▶ Customised semi electronic (Semi-EOT) models available
- ▶ Customised design available for steel duty grade application as per IS4137, is807
- ▶ Approved by MN Dastue, MECON, tata consultance , NMDC, Delhi jal Board, Engineering india Ltd, DCPL, L&T, CET,SAIL,CIDC and other Gov.and Private entities





## GRANTRY CRANES

### Features of Gantry Cranes

- ▶ Manufacturing Double Girder Gantry Cranes up to 100T Capacity
- ▶ Manufacturing single Girder Gantry Cranes up to 25T Capacity
- ▶ Semi-Gantry Option Available
- ▶ Both Electric and Manual Options Available
- ▶ Auxillary hoist for Double Girder Gantry Cranes available
- ▶ All design are customised as per IS3177, IS807
- ▶ Customised designs as per DIN,CMAA &FEM standards available
- ▶ Minimum Noise Creating Kight Model available

## JIB CRANES

### Features of JIB Cranes

- ▶ Manufacturing Piller Mounted, Wall Mounted and Portable jib Cranes
- ▶ Portable Jib Cranes are our standard product and are available up to 2.5T Capacity
- ▶ Wall Mounted and Piller Mounted are Customised products and are available up to 10T Capacity
- ▶ Available in Both Electric and Manual Options
- ▶ Manufactured as per IS15419
- ▶ Customised designs as per DIN,CMAA&FEM standard available



BOILER



VESSELS



CONSTRUCTION EQUIPMENT



PIPE CLADDING



WIRE FEEDER BOOM



SHAF REBUILDING

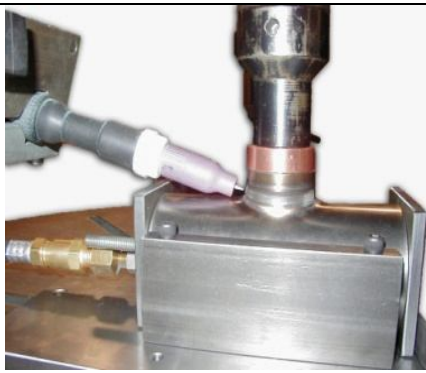


SHAFT CLADDING





SUBMERGED ARC WELDING WITH SEAM TRACKER



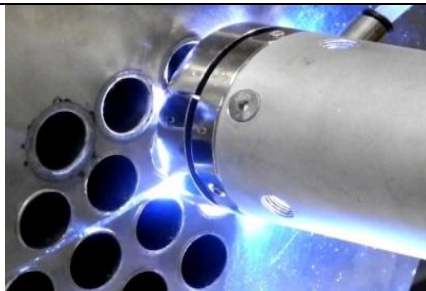
TIG WELDING AUTOMATION



PLATE CLADDING



ROBOTIZED - WELDING



TUBE TO TUBE SHEET WELDING



PIPE TO FLANGE MIG WELDING



PIPE WELDING AUTOMATION



"H" AND "I" BEAM WELDING AUTOMATION



POSITIONERS - COLUMN BOOM



SAW PIPE WELDING

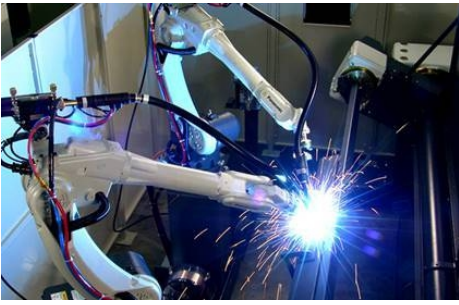


TIG WELDING AUTOMATION

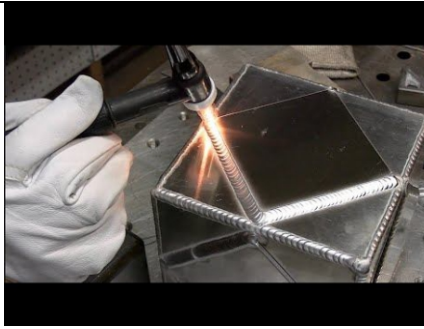


ALUMINIUM TIG WELDING





Robotic Mig Welding Automation



ALUMINIUM TIG WELDING



TIG WELDING



TITANIUM TIG WELDING



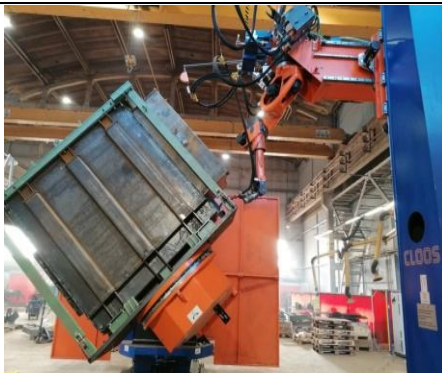
SS MIG WELDING



PIPE CLADDING



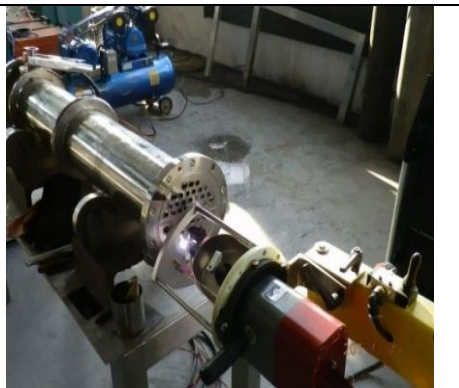
STRUCTURAL WELDING  
AUTOMATION



STATOR WELDING AUTOMATION



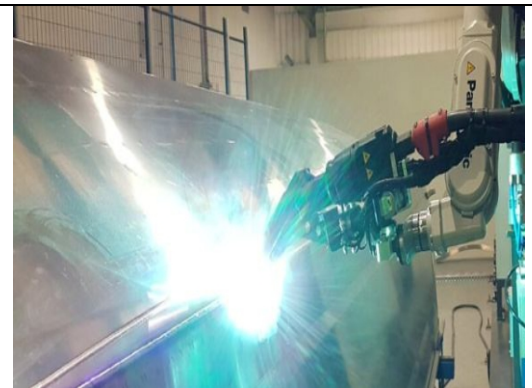
BOILER HEAT EXCHANGER



FOOD PROCESSING HEAT  
EXCHANGER



INTER BAY TRANSFER TROLLEY



ROBOTIC ALUMINIUM TIG WELDING



# JJ ROBO-TECH CENTRE

## Robotic Training and Demo

- NEED BASED SPECIAL COURSES FOR WELDERS AGAINST SPECIFIC DEMAND OF INDUSTRIES
- Welder Certification Scheme
  1. To certify a candidate with respect to his competency in carrying out Welding as per relevant code or standard.
  2. Company certification training-To comply with the desire requirements for successful certification.
- SPECIAL CUSTOMISED COURSES AGAINST SPECIFIC DEMAND OF INDUSTRIES
- CONSULTANCY SERVICES IN WELDING FOR INDUSTRIES-Preparation of WPS & PQR, Failure analysis, Quality builds up activity, Continuous Improvement by way of WELDING KAIZENS and welding of special materials.





# JJ ROBO-TECH CENTER

**Robotic Training and Demo**

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