Separate

Selectable from
Three Torch Types

TM Manipulators That Support Both External & Through-Arm Torch Cable Routing

Payload on Wrist Axis
TS-800, TS-950, TL-1800: 8 kg
TL-2000: 6 kg

TS Manipulators with Space Saving

TL Manipulators with Long Arm

External

Through-Arm

External
Combination with Full Digital Welding Power Source Achieves Stable and High Quality Welding

Torch type selectable to fit your application!

Separate Type | Through-Arm Type | External Type

Space saving & high payload!
TS series: TS-950
External Type | Through-Arm Type

Long-arm & high payload!
TL series
External Type

Manipulator Lineup (as of March 2019)

<table>
<thead>
<tr>
<th></th>
<th>TS series</th>
<th>TM series</th>
<th>TL series</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>800</td>
<td>950</td>
<td>1100</td>
</tr>
<tr>
<td>Separate</td>
<td></td>
<td></td>
<td>○</td>
</tr>
<tr>
<td>Through-Arm</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>External</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Payload</td>
<td>8 kg</td>
<td>6 kg</td>
<td>4 kg</td>
</tr>
</tbody>
</table>
A variety of features specialized for arc welding

**Feature 1 (TM/L)**  
**Enhanced Basic Performance**

**Increased Motion Speed**  
TM-1400: Speed of main 3 axes increased by 22% on average.  
(approx. 42'/s more than TA type)

**Extended Reach**  
TM-1400: 1437 mm (63 mm more than TA type)

**Feature 2 (TS/TMD)**  
**Arm Specialized for Welding**

**Cantilever Structure**  
makes arm compact and improves accessibility to workpieces.

In addition to Through-Arm Type and External Type,  
**A third choice—Separate Type (TM series)**

Revolutionary new type of arc welding robot with advantages of both Through-Arm Type and External Type.

**Feature 1**  
**External Flexible Conduit**

- Torch cable
- R=small
- Flexible conduit

[Conventional Type]

[Separate Type]

Gentle curve of flexible conduit between wire feeder and torch body achieves stable wire feeding.

**Feature 2**  
**Through-Arm Power Cable**

[Conventional Type]

Power cable interference can occur depending on the welding position.

[Separate Type]

Through-arm power cable reduces cable interference.

**Option**

- Internal Flexible Conduit (for wire feed)**
- Manipulator-Controller cable (control)
- Manipulator-Controller cable (motor power)
- Welding power cable
- Gas hose (with valve)

**For use with drum packing wire only.**

**High Wire Feedability**

**Less Cable Interference**

**Feature 3 (TM/L)**  
**Structure Specialized for Welding**

**Clean Cable Management!**

An example of circumferential welding

**Suppresses twist of wire!**

New type welding robot achieves even higher quality welds.
Advanced Hardware and Software Improve Performance

**GIII controller with high performance**

- Faster CPU reduces start-up time to **about 30 seconds**.
  (50% reduction from previous model)
- Optional memory allows storing 800,000 teaching points in addition to the standard 40,000 points.

**Teach pendant with enhanced operability**

**Same basic operation procedure with G2 Series model**

- Easy to use Windows based operation

**Operating function key**

- Light weight design under 1 kg (0.99 kg) giving you less stress during teaching
- Liquid crystal LED back light improving impact resistance
- USB and SD memory interface realizing great expandability
- Increased number of function keys (four to eight), enabling same action with less key strokes during teaching

**Improved maintainability**

- Swivel rack in the case makes maintenance easy and saves space.
- Cables with connectors on both ends reduce Cable exchange time.
**Standard Features**

**Weaving Function (6 patterns)**
You just have to teach the starting point, amplitudes, turning points and ending point. Teaching time will be reduced.

**Parallel Shift + RT Axis Rotating**
Teaching time of same workpieces is reduced.

**Torch Angle Display (Teach Pendant)**
Torch angle is displayed on the screen, making it possible to reduce teaching time and obtain consistent bead appearance.

**Overlap Function (CO₂/MAG welding)**
In case of interruption during welding, the torch is stepped back by reboot and resumes the welding from the welding end point.

**Arc Start Retry (CO₂/MAG welding)**
Detecting a failure of arc start, the robot automatically starts arc ignition again.

---

**Optional Features**

**“Weld Navigation” allows easy parameter setting**

**Easy setting with Teach Pendant**

**Two Easy Steps:**
1. Select weld joint. The figure changes according to the joint.
2. Select plate thicknesses. That's all!

**The right parameters automatically**
Leg length and weld speed are also adjustable. Weld Navigation recalculates weld current and voltage according to the changes.

**Weld Navigation**

**Model:** 350iZ4

**Arc Sensor**
The sensor corrects deviation from the taught weld line by detecting weld current changes during weaving welding.

**Touch Sensor**
The welding wire touches the workpiece and compensates a workpiece position error, which reduces jig costs.

---

**Expansion**

**Multi-Mechanism Control**
Controls maximum 6 groups of robots and external axes in parallel.

**Cooperative Multi-Robot Control**
Allows cooperative control between two robots.

**Units**
- Analog I/O Expansion Unit
- Relay Connection Unit
- Terminal Block Conversion Unit
- External Power Input Unit
CO₂/MAG/MIG welding robot system selectable to fit your application

Full Digital CO₂/MAG welding machines GZ4 series

(Super-imposition Control)

Equipped with TAWERS's SP Control Praised by Many of Our Customers

SP-MAG benefits:

- Reduced spatter (Reduced removal work)
- Shorter short-circuit cycle suited for high speed welding
- Shorter arc length for good bead appearance

Good bead appearance and low spatter even in high speed welding

Note: Optional parts are necessary to connect GZ4 to robot.

MAG welding (220 A)
- Joint: Fillet  
  Base metal: Mild steel SPCC (t:2.3 mm)  
  Weld current: 220 A
- Weld speed: 100 cm/min  
  Wire size: 1.2 mm (YM-50MT)
- Shielding gas: MAG (80 % Ar + 20 % CO₂)

MIG welding (180 A)
- Joint: Fillet  
  Base metal: SUS304 (t:1.5 mm)  
  Weld current: 180 A
- Weld speed: 80 cm/min  
  Wire size: 1.2 mm (Y308LS)
- Shielding gas: MIG (85 % Ar + 5 % O₂)

Full Digital Controlled Welding Machine

CO₂/MAG/MIG Welding Machine Lineup for High Quality Welds

350GZ4  500GZ4  350VR1TA1  500VR1TA1  400VP1TA1
Optional Functions Effective for Medium and Thick Plates

Medium/Thick Plate Welding System

Functions effective for medium/thick plate welding

- **Groove Touch Sensor**
  - YA-1VPWS1T01
- **Arc Sensor**
  - MNU method (for medium/thick plates)
  - Sequence commands
- **Thick Plate Welding Function**
  - YA-1UPMB1
- **Flexible Multi-Cooperative Robot Function**
  - External Axis Harmonious Function
  - YA-1UPHA1
- **Other options**


Consult us for details.

**Examples**

**How Touch Sensor works**
- Touches base metal and determines line to be welded.
- Detects positioning error and determines line to be welded again.

**How Arc Sensor works**
- Detects misalignment or distortion and compensates it.

**Groove Touch Sensor Function**
- Senses groove width and center, and compensates misalignment.

**Variable Weaving Function**
- Thick Plate Welding Function (YA-1UPMB1)
- Supports changes of groove width.
- Controls deposited metal amount and maintains uniform bead height.
Robotic TIG welding system selectable to fit your application

Model Selection Guide

<table>
<thead>
<tr>
<th>Type</th>
<th>Material</th>
<th>Filler wire dia. (mm)</th>
<th>Welding power source</th>
<th>Robot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autogenous TIG (no filler)</td>
<td>Stainless steel</td>
<td>–</td>
<td>300BZ3</td>
<td>TS-800, TS-950, TM-1100, TM-1400, TL-1800</td>
</tr>
<tr>
<td></td>
<td>Stainless steel Aluminum</td>
<td>–</td>
<td>300BP4, 500BP4</td>
<td></td>
</tr>
<tr>
<td>Filler TIG</td>
<td>Stainless steel</td>
<td>1.2</td>
<td>300BZ3</td>
<td>TS-800, TS-950, TM-1100, TM-1400, TL-1800</td>
</tr>
<tr>
<td></td>
<td>Stainless steel Aluminum</td>
<td>1.2</td>
<td>300BP4, 500BP4</td>
<td></td>
</tr>
<tr>
<td>Rotary filler TIG</td>
<td>Stainless steel</td>
<td>1.2</td>
<td>300BZ3</td>
<td>TL-1800</td>
</tr>
<tr>
<td></td>
<td>Stainless steel Aluminum</td>
<td>1.2</td>
<td>300BP4, 500BP4</td>
<td></td>
</tr>
</tbody>
</table>

Notes:
- An external axis controller is necessary for rotary filler TIG welding.

Features of Rotary TIG Filler Unit

- Optimum welding position
- High precision filler wire feed
- Improved workpiece accessibility

TIG welding torch lineup

- YT-TCT201
  - Air-cooled
  - 35 % duty cycle at 200 A

- YT-TCT401
  - Water-cooled
  - 60 % duty cycle at 400 A

Full Digital Controlled Welding Machine

TIG Welding Machine Lineup That Offers High Quality Welding

- AC/DC TIG welding machine
  - 300BP4

- DC TIG welding machine
  - 300BZ3
Various welding styles

[TW axis: Hollow arm]
Torch type selectable between through-arm and external

[Separate wire feeder] Free layout

Improve small work productivity

●Space saving
48% smaller footprint
(example of one customer, compared with our TM-1100)
Floor/Wall/Ceiling mount
(Ceiling mount type is special specification.)

●High speed despite 8 kg payload
Maximum motion speed: 540°/s
(average for all axes)

Dimensions & Work Envelope

For working envelope of point O, consult us.
(Unit: mm)

Short Type
TS-800

Short Type
TS-950

Manipulator General Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>TS-800</th>
<th>TS-950</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Short arm</td>
<td>Short arm</td>
</tr>
<tr>
<td>Structure</td>
<td>6 axis articulated</td>
<td>6 axis articulated</td>
</tr>
<tr>
<td>Payload</td>
<td>8 kg</td>
<td>8 kg</td>
</tr>
<tr>
<td>Maximum Reach</td>
<td>841 mm</td>
<td>971 mm</td>
</tr>
<tr>
<td>Minimum Reach</td>
<td>159 mm</td>
<td>190 mm</td>
</tr>
<tr>
<td>Working Range</td>
<td>682 mm</td>
<td>781 mm</td>
</tr>
<tr>
<td>Max. Motion Speed</td>
<td>RT (Rotating Trunk) 326°/s</td>
<td>RT (Rotating Trunk) 326°/s</td>
</tr>
<tr>
<td></td>
<td>UA (Upper Arm) 326°/s</td>
<td>UA (Upper Arm) 326°/s</td>
</tr>
<tr>
<td></td>
<td>FA (Forearm) 510°/s</td>
<td>FA (Forearm) 510°/s</td>
</tr>
<tr>
<td></td>
<td>RW (Rotating Wrist) 518°/s</td>
<td>RW (Rotating Wrist) 518°/s</td>
</tr>
<tr>
<td></td>
<td>BW (Bending Wrist) 1,040°/s</td>
<td>BW (Bending Wrist) 1,040°/s</td>
</tr>
<tr>
<td>Position Repeatability</td>
<td>±0.05 mm</td>
<td>±0.05 mm</td>
</tr>
<tr>
<td>Motors Total Power</td>
<td>2,100 W</td>
<td>2,100 W</td>
</tr>
<tr>
<td>Brakes All axes</td>
<td>All axes</td>
<td>All axes</td>
</tr>
<tr>
<td>Mounting Floor/Ceiling<em>1/Wall</em>2</td>
<td>Floor/Ceiling<em>1/Wall</em>2</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>55 kg</td>
<td>56 kg</td>
</tr>
</tbody>
</table>

*1: Ceiling mount type is factory optional.
*2: Setting by service personnel is necessary. *Working range of RT axis is limited.
### Manipulator General Specifications

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Short arm</td>
<td>Standard arm</td>
<td>Middle arm</td>
<td>Long arm</td>
<td>Long arm</td>
<td>Long arm</td>
<td>Long arm</td>
</tr>
<tr>
<td>Structure</td>
<td>6 axis articulated</td>
<td>6 axis articulated</td>
<td>6 axis articulated</td>
<td>6 axis articulated</td>
<td>6 axis articulated</td>
<td>6 axis articulated</td>
<td>6 axis articulated</td>
</tr>
<tr>
<td>Payload</td>
<td>6 kg</td>
<td>4 kg</td>
<td>6 kg</td>
<td>8 kg</td>
<td>6 kg</td>
<td>6 kg</td>
<td>6 kg</td>
</tr>
<tr>
<td>Maximum Reach</td>
<td>1 163 mm</td>
<td>1 437 mm</td>
<td>1 639 mm</td>
<td>1 809 mm</td>
<td>2 011 mm</td>
<td>1 801 mm</td>
<td>1 999 mm</td>
</tr>
<tr>
<td>Minimum Reach</td>
<td>418 mm</td>
<td>404 mm</td>
<td>513 mm</td>
<td>430 mm</td>
<td>550 mm</td>
<td>383 mm</td>
<td>491 mm</td>
</tr>
<tr>
<td>Working Range</td>
<td>745 mm</td>
<td>1 033 mm</td>
<td>1 126 mm</td>
<td>1 379 mm</td>
<td>1 461 mm</td>
<td>1 418 mm</td>
<td>1 508 mm</td>
</tr>
<tr>
<td>Max. Motion Speed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RT (Rotating trunk)</td>
<td>225°/s</td>
<td>210°/s</td>
<td>195°/s</td>
<td>195°/s</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UA (Upper arm)</td>
<td>225°/s</td>
<td>210°/s</td>
<td>197°/s</td>
<td>197°/s</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FA (Forearm)</td>
<td>225°/s</td>
<td>215°/s</td>
<td>205°/s</td>
<td>205°/s</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RW (Rotating wrist)</td>
<td>425°/s</td>
<td>425°/s</td>
<td>425°/s</td>
<td>425°/s</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BW (Bending wrist)</td>
<td>425°/s</td>
<td>425°/s</td>
<td>425°/s</td>
<td>425°/s</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TW (Twisting wrist)</td>
<td>629°/s</td>
<td>629°/s</td>
<td>629°/s</td>
<td>629°/s</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Position Repeatability</td>
<td>±0.08 mm</td>
<td>±0.10 mm</td>
<td>±0.08 mm</td>
<td>±0.15 mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motors</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Power</td>
<td>3 400 W</td>
<td>4 700 W</td>
<td>5 050 W</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brakes</td>
<td>All axes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mounting</td>
<td>Floor / Ceiling*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>156 kg</td>
<td>170 kg</td>
<td>180 kg</td>
<td>215 kg</td>
<td>217 kg</td>
<td>215 kg</td>
<td>216 kg</td>
</tr>
</tbody>
</table>

*Ceiling mount type is factory optional.
**Controller Specifications**

<table>
<thead>
<tr>
<th></th>
<th>GIII</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
<td>GIII</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>W 553 mm x D 550 mm x H 681 mm</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>60 kg</td>
</tr>
<tr>
<td><strong>Memory Capacity</strong></td>
<td>40 000 points</td>
</tr>
<tr>
<td><strong>Position Control</strong></td>
<td>Software servo control</td>
</tr>
<tr>
<td><strong>External Memory</strong></td>
<td>Teach Pendant: one SD memory card slot, Two USB 2.0 ports (USB 2.0 Hi-Speed not supported)</td>
</tr>
<tr>
<td><strong>Control Axes</strong></td>
<td>6 axes simultaneously (Max. 27 axes)</td>
</tr>
<tr>
<td><strong>Input and Output</strong></td>
<td>Input: 40 points (Optionally expandable up to 2048 points) Output: 40 points (Optionally expandable up to 2048 points)</td>
</tr>
<tr>
<td><strong>Input Power</strong></td>
<td>3 phase, 200/220 VAC±20 V, 3 kVA, 50/60 Hz</td>
</tr>
</tbody>
</table>

*1: Protruding portions not included.
*2: Teach pendant and connection cables not included.
Great material handling capability! Coordinated multi-robot movement for flexible system without jig.

**3m ARM WELDING ROBOT**

- Conventional technologies “GⅢ controller & Wire feeder” are adopted
  High quality welding in combination with Full Digital welding power source
- Realize the simple system (External axis is unnecessary)
- Suitable for larger work (application example)

**Manipulator General Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>HH020L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Payload</td>
<td>20 kg</td>
</tr>
<tr>
<td>Structure</td>
<td>6 axis articulated</td>
</tr>
<tr>
<td>Working Range</td>
<td></td>
</tr>
<tr>
<td>RT (Rotating trunk)</td>
<td>±180 °</td>
</tr>
<tr>
<td>UA (Upper arm)</td>
<td>+180 ° ~ -65 °</td>
</tr>
<tr>
<td>FA (Forearm)</td>
<td>+260 ° ~ -160 °</td>
</tr>
<tr>
<td>RW (Rotating wrist)</td>
<td>±195 °</td>
</tr>
<tr>
<td>BW (Bending wrist)</td>
<td>±135 °</td>
</tr>
<tr>
<td>TW (Twisting wrist)</td>
<td>±360 °</td>
</tr>
<tr>
<td>Max. Motion Speed</td>
<td></td>
</tr>
<tr>
<td>RT (Rotating trunk)</td>
<td>175°/s</td>
</tr>
<tr>
<td>UA (Upper arm)</td>
<td>175°/s</td>
</tr>
<tr>
<td>FA (Forearm)</td>
<td>180°/s</td>
</tr>
<tr>
<td>RW (Rotating wrist)</td>
<td>360°/s</td>
</tr>
<tr>
<td>BW (Bending wrist)</td>
<td>380°/s</td>
</tr>
<tr>
<td>TW (Twisting wrist)</td>
<td>600°/s</td>
</tr>
<tr>
<td>Position Repeatability</td>
<td>±0.15 mm</td>
</tr>
<tr>
<td>Maximum Reach</td>
<td>3281 mm</td>
</tr>
<tr>
<td>Weight (Approx.)</td>
<td>535 kg</td>
</tr>
</tbody>
</table>
Tilt-Rotate Positioners  
High-Speed Type R Series

- 1.8 times faster maximum speed compared with the conventional models.
- Smallest-in-class footprint of 780 × 500 mm. (300 kg payload model)
- Easier installation with three selectable cable outlet positions.

### Specifications

<table>
<thead>
<tr>
<th>Name</th>
<th>Positioner unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>YA-1RJC62</td>
</tr>
<tr>
<td>Applicable Robot</td>
<td>Panasonic robots TM/TL series with G3/GWB controller</td>
</tr>
<tr>
<td>Payload</td>
<td>300 kg</td>
</tr>
<tr>
<td>Max. Speed</td>
<td>Rotation 190.0°/s (31 r/min)</td>
</tr>
<tr>
<td></td>
<td>Tilt 125.5°/s (20 r/min)</td>
</tr>
<tr>
<td>Operating Range</td>
<td>Rotation -3 600° to +3 600° (with multi-rotation data reset function)</td>
</tr>
<tr>
<td></td>
<td>Tilt -135° to +135°</td>
</tr>
<tr>
<td>Allowable Moment</td>
<td>Rotation 323 N·m</td>
</tr>
<tr>
<td></td>
<td>Tilt 882 N·m</td>
</tr>
<tr>
<td>Position Repeatability</td>
<td>±0.05 mm (R=250 mm)</td>
</tr>
<tr>
<td>Hollow Shaft Diameter</td>
<td>55 mm</td>
</tr>
<tr>
<td>Allowable Welding Current</td>
<td>500 A @ 60 % duty cycle</td>
</tr>
<tr>
<td>Weight</td>
<td>285 kg</td>
</tr>
<tr>
<td>Applicable Welding Process</td>
<td>CO₂/MAG/MIG/TIG</td>
</tr>
<tr>
<td>External Axis Controller Type</td>
<td>Internal/External</td>
</tr>
</tbody>
</table>

### Single-axis positioners

- Payload: 250/500 kg
- RJB 12/22
- Payload: 1000 kg
- RJB 32

### Side mount 2-axis positioners

- RJR 42
- RJR 52

---

Production Management Function

Real-Time Monitoring on PC.

Effective for Monitoring Robot Operation and Production Progress.

Robot operation monitoring

Monitors robot movement and welding waveform in real time, which allows to improve welding posture and conditions.

Remote TP Viewer

Monitors Teach Pendant (TP) screen in real time, which allows to share information away from welding site.

Notes:
- An optional license is necessary for each robot.
- The network environment and devices (including PC) must be prepared by the customer.
- It is not possible to connect to the external network (e.g., connection from factory LAN to the Internet).
- WB, WGB, and G3 controllers of software version 20.00 or later are applicable. (TIG is not supported.)
Feel the excellent performance of TAWERS

FA Technical Centers

- FATC(Tangshan)
- FATC(Shanghai)
- FATC(Guanzhou)
- FATC(Jhajjar)
- FATC(Pune)
- FATC(Bangkok)
- FATC(Dusseldorf)

Other FATC: Wuhan, Queretaro, Bowin, Jakarta, Hanoi, Detroit, Columbus

Process Development

Process verification prior to system installation.
Case Examples:
- New factory weld processing
- Improvement of existing processes
- Develop new welding solutions

Welding and Robot College

We support development of highly skilled welding operators.
- Workshops:
  - Robot
  - MAG/MIG
  - TIG
  - Special training

Professional staff offer technical solutions.
- Qualifications:
  - Welding coordination personnel (including first class)
  - JIS qualified welding operators
  - Metal materials inspectors
  - International welding license holders

We provide products that are friendly to the environment.
As an earth-friendly company, Panasonic Corporation discourages the use of hazardous substances in our products. The products of Panasonic Corporation comply with the European RoHS directive.

Safety precautions
- Before attempting to use any welding product always read the manual to ensure correct use.

Panasonic

Range of Welding Equipment: MMAW | MIG/MAG | TIG | Plasma Cutting | Welding Accessories | Welding Robots

Panasonic has set up its own state-of-the-art welding equipment manufacturing facility at Jhajjar near Gurugram, Haryana, India.

For more information and service related queries please write to:
welding.info@in.panasonic.com, PeeSin.enquiry@in.panasonic.com

Panasonic India Pvt. Ltd.
(Division Company: Panasonic Smart Factory Solutions India)

Head Office: 12th Floor, Ambience Tower, Ambience Island,
NH-8, Gurugram - 122002, Haryana, India. Phone: +91-124-4871300, Fax: +91-124-4871333

Factory: Village Bid Dadri, Tehsil and District: Jhajjar - 124103, Haryana, India.
Phone: +91-9729900200

Eastern Regional Office: No 1, Vikash Towers, Dr. U N Brahmachari Street, 3rd Floor, Opp. ITC Fortune Hotel, Kolkata - 700016, West Bengal. Phone: +91-9729900200

Western Regional Office: 5th Floor, Unit No. 502 & 503, Windfall Building, Sahar Plaza Complex, Survey No. 179A to 179H, J. B. Nagar, Andheri East, Mumbai - 400058, Maharashtra. Phone: +91-9729900200

Southern Regional Office: 6th Floor, SPIC Building Annex, No. 88, Mount Road, Guindy, Chennai - 600032, Tamilnadu. Phone: +91-9729900200

Central Regional Office: Ayodhya, 119, 2nd Floor, Bajaj Nagar, Nagpur - 440010, Maharashtra. Phone: +91-9729900200

Japan Factory: 1-1, 3-chome, Inazu-cho, Toyonaka, Osaka 561 0854, Japan.

China Factory: No. 9 Qingnan Rd, Tangshan New & Hi-tech Industrial Park, Hebei, China.

Sales Offices at Ahmedabad, Bengaluru, Bhubaneswar, Mumbai and Hyderabad.

●Specifications are subject to change without notice.