

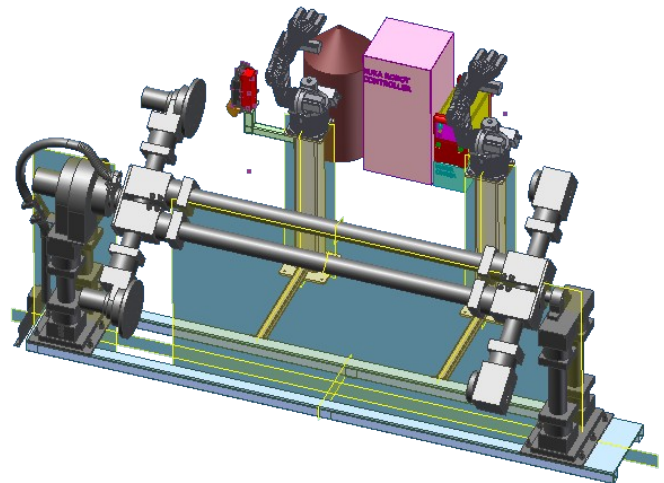
RobUST Kuka Double Turnover Positioner Dual Robotic Welding System

RobUST pre-engineered welding systems incorporates industry leading technology from Kuka Robotics and Fronius USA into a modular designed robotic cell. The RobUST cell goes beyond previous offerings and is the first system that factors in all challenges with manufacturers today and meets industrial guidelines. The RobUST system offers a complete workflow solution, *addresses floor space, low and high volume fabricator, quick change tooling options, and modular wiring over field bus.*

Standard Cell Features/Advantages

- Kuka (6) Axis Welding Robot
- 1400mm Reach
- Optional 1900mm Reach Robot
- Device Net
- **Modular** Cell Configuration
- (2) Welding Stations 1800mm Length
- **Meets ANSI/RIA R15.06-1999 Safety Standards**
- **(1) Robotic Servo Work Positioners**
 - 250/500/750/1000kg Servo Head/Tail Stock
 - 400-800mm Swing Radius
 - 800-3000 Between Face Plates
- **MTBF** 80,000 Hours on robot and controller
10,000 & 20,000 hour maintenance intervals
 - *Single point power drop for all electricals*
- **Kuka Robot Controller (KRC)**
 - The KRC robot controller makes programming easier with its Microsoft Windows Interface. It is expandable, can be integrated into networks via a bus, and contains ready-made software packages - all factors which point the way to the industrial automation of the future.

Tooling & Part Size
32D x 32L x 32 Dia
61D x 118L 61 Dia



Key Welding Cell Advantages

- **Common Base Configuration**
- **Compact Size & Modular** for easy access to load / unloading
- **61 inch swing diameter** available on Servo positioner 12 - 15 inches larger than other positioner cells
- **Operator load high** optimized for ergonomics
- **Robot Programming** is accessible from the rear of the cell
- **Quick Change Tooling Option** (*15 min to change fixture*)
 - *2 methods of quick change tooling*
 - *Quick plug and play on fixture electrical and pneumatics*

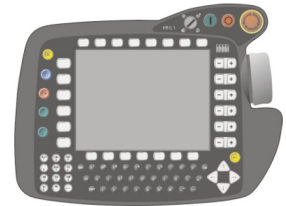
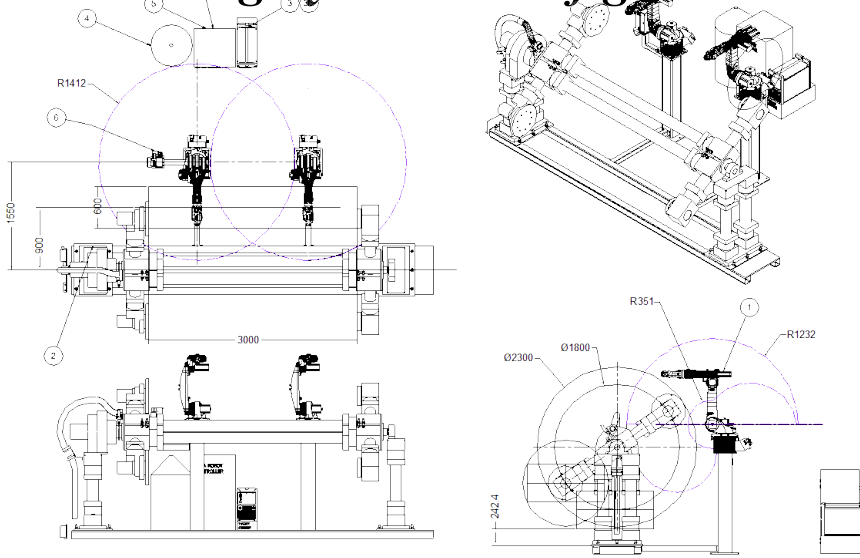
Fronius Digital Revolution

- **400 Amp CV Inverter Welding Power Supply**
 - Mild Steel Fronius TS 4000 (*Standard*)
 - Stainless steel Fronius TPS 4000 (*Optional*)
 - Aluminum Fronius TPS 4000 (*Optional*)
 - TIG & Plasma (*Custom Configuration*)
- Constant ARC length control
- Most applications on thin gauge material uses .045 welding wire
- Syncro Pulse on Fronius TPS 4000
- **CMT (Cold Metal Transfer MIG Welding)**
 - Cold Metal Transfer Steel/Stainless Steel Aluminum
 - Minimum spatter w/spatter free ignition for penny layer (TIG weld seam appearance)
 - Uses .045 Welding Wire
 - Steel & Aluminum can be welded together
 - Low Thermal Heat Input



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Welding System - Configuration & Specifications



Ergonomically Designed - Features an 8in full-graphics color display

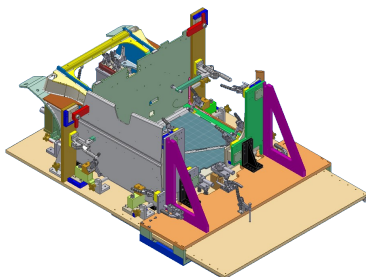
Available Options

- Torch Cleaning Stations
- Fume Extraction & Hoods
- Water Cooled Torch
- Aluminum Welding Packages
- Stainless Steel Welding Packages
- CMT (Cold Metal Transfer MIG)
- Twin Wire Welding Systems
- Touch sensing
- Thru the Arc Tracking
- Field Bus Options
- PLC Packages

Engineering Services

- Welding Analysis
- Cycle time studies
- Reach Studies
- Tooling & Fixturing Design
- Robotic Programming
- PLC & Safety Controller Programming
- Turnkey Solutions
- On Site Engineering and Technician Services

PARTS LIST			
ITEM	QTY	DESCRIPTION	STANDARD/OPTION
1	2	KUKA KR5 ROBOT	STANDARD
2	1	KUKA KP3-V2H250/500/750/1000 HS TS	STANDARD
3	2	FRONIUS POWER SUPPLY TS 4000	STANDARD
3A	2	FRONIUS TPS 4000 / CMT HIGHER AMPERAGE, STEEL, STAINLESS STEEL & ALUMINUM AVAILABLE	OPTION
4	2	BULK WELDING WIRE DRUM	OPTION
5	2	ROBOT KUKA CONTROLLER	STANDARD
5A	2	ROBOT TEACH PENDANT	STANDARD
5B	3	EXTERNAL SERVO AXIS	STANDARD
5C	2	FIELD BUS CARD D-NET	STANDARD
6	1	TORCH CLEANING STATION	OPTION



*Kuka (6) Axis Robot
1400mm Reach*