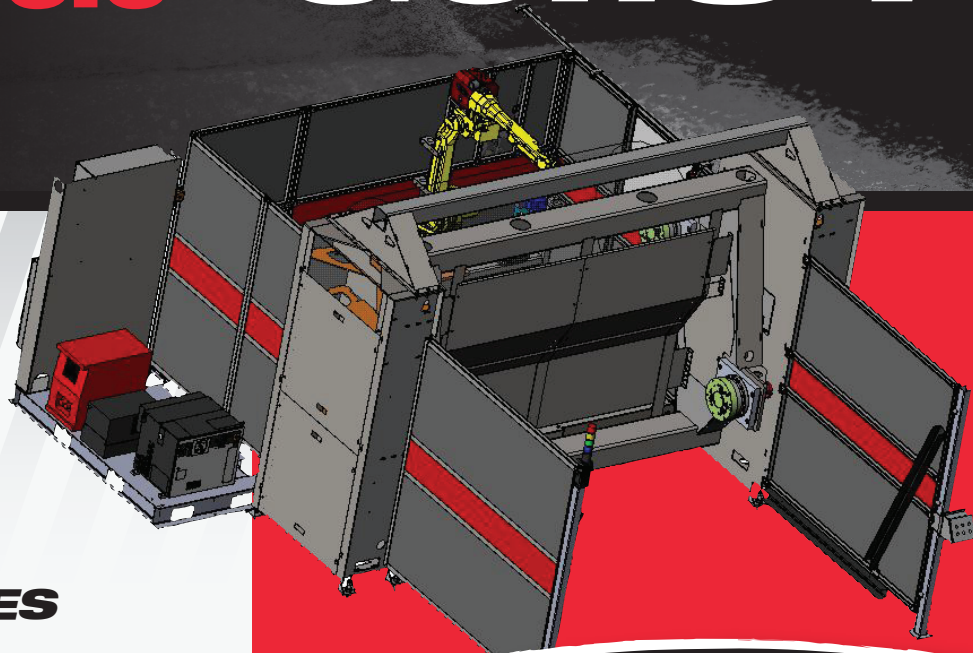




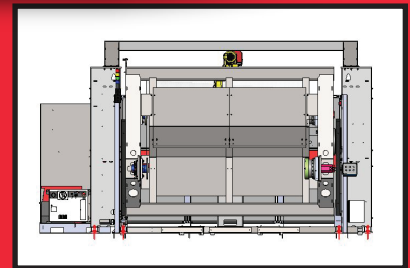
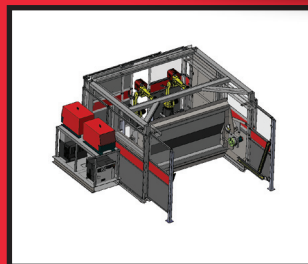
# GenS FW



## KEY FEATURES

- **Productivity**
  - Fast index time reduces overall cycle time
  - Multiple robot configurations
  - System design allows for multiple in-line system layout – progressive processing application
- **Functionality**
  - High utilization of robot work envelope
  - Safer robot programming
  - Reduces required floor space
- **Reliability**
  - Pre-engineered, proven design
  - Single source responsibility
  - 24-hour support service
- **Flexibility**
  - Able to accommodate large tool lengths, swing diameters and high weight capacity
  - Easily configured to meet application requirements

*The GenS FW, a servo-driven ferris wheel system, can handle larger medium to high volume production parts that require repositioning during the weld cycle.*



### Base Positioner Configuration

Main axis - servo driven	
Main sweep index time	3.0 to 4.5 seconds
Minor axis – dual servo driven trunnions	
Tool length	2.5-meters (98-inches)
Tool swing diameter	1.25-meters (49-inches)
Weight capacity	1,000-kilograms (2,200-lbs)

### Base Component Configuration

FANUC ArcMate 100iC or Panasonic 1400  
Lincoln i400 or Miller Auto Axxess 300  
Tregaskiss, Binzel or TBi air-cooled through arm torch  
Genesis torch alignment package  
Safety package (includes light curtains, gate interlock and barriers)  
Genesis Allen-Bradley controls package with L1 processor  
Rotary ground

**INNOVATION AND EXPERIENCE FROM YOUR SINGLE SOURCE**

## Standard Dimensional Specifications

- Tool length **TL**  
2.5-meters (98-inches) to 4.0-meters (157-inches)
- Tool swing diameter **SD**  
1.25-meters (49-inches) to 1.5-meters (60-inches)
- Load height **LH**  
1.0-meters (39-inches)
- Cell width **CW**  
4339-mm (171-inches) to 6721-mm (265-inches)
- Cell depth **CD**  
5515-mm (218-inches)
- Cell height **CH**  
2972-mm (117-inches)

## Standard Capacity Specifications

- Weight capacity  
1,000-kilograms (2,200-lbs) to 1,500-kilograms (3,300-lbs)
- Engineering specifications for 1,000-kilogram capacity per station
  - Gearbox rated torque 1617Nm
  - Gearbox ratio 161:1
  - Gearbox maximum moment 2940Nm
  - Motor maximum RPM 4,000
  - Motor torque output 12Nm
  - Nominal acceleration .5 seconds
  - Allowable tool out of balance torque 250Nm
  - 180-degree index time 2 seconds
- Engineering specifications for 1,500-kilogram capacity per station
  - Gearbox rated torque 4704Nm
  - Gearbox ratio 141:1
  - Gearbox maximum moment 6174Nm
  - Motor maximum RPM 4,000
  - Motor torque output 18Nm
  - Nominal acceleration .5 seconds
  - Allowable tool out of balance torque 425Nm
  - 180-degree index time 2.0 seconds
- Main axis
  - Out of balance (1,000-kilograms) Station A to Station B 500-kilograms
  - Out of balance (1,500-kilograms) Station A to Station B 750-kilograms
  - 180-degree index time under 4.5 seconds

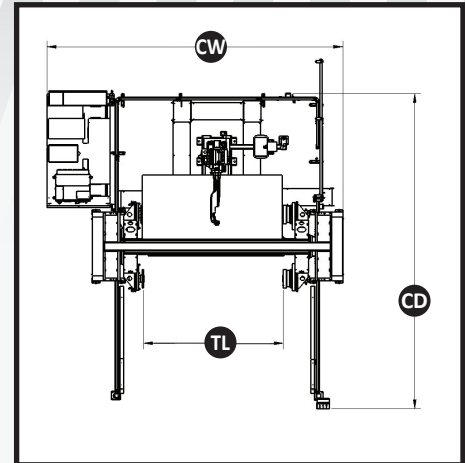
## Standard Platform Options

- Tool length 3.0-meters, 3.5-meters, 4.0-meters
- Tool swing diameter 1.375-meters, 1.5-meters
- Weight capacity 1,500-kilograms
- Power track cable carrier
- Smoke hood and extraction system
- Off-line programming
- Installation
- Training programs (basic, advanced, maintenance, off-line, CRAW)
- Intelligence Center™

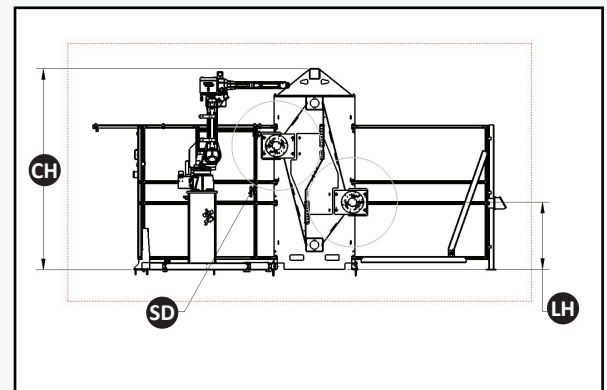
## Standard Component Options

- Robot models: FANUC, Panasonic, Motoman
- Process gear: Miller, Lincoln, Fronius, Thermadyne, Hypertherm
- Welding torches: Tregaskiss, Binzel, TBi, Fronius
- Torch cleaners: Tregaskiss, Binzel, TBi
- Controls: PanelView 1000+ Compact

## TOP VIEW



## SIDE VIEW



*Real time status, alarms, historical trends, critical parameters and automatic backup of your workcell anywhere, anytime.*