



# GenS FWS



## 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
- Quick installation – robot, positioner and controls on unitized base

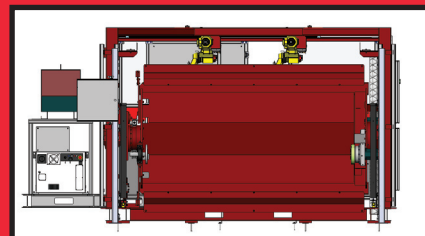
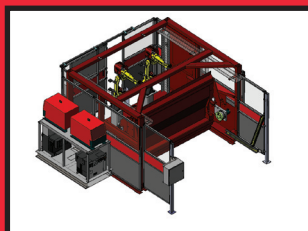
### • Reliability

- 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

*With its slim design, the GenS FWS, a servo driven ferris wheel system, can handle 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 4.0 seconds
Minor axis – dual servo driven trunnions	
Tool length	1.5-meters (59-inches)
Tool swing diameter	1.0-meters (39-inches)
Weight capacity	600-kilograms (1,322-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**  
1.5-meters (59-inches) to 2.5-meters (98-inches)
- Tool swing diameter **SD**  
1.0-meters (39-inches)
- Load height **LH**  
.86-meters (34-inches)
- Cell width **CW**  
2913-mm (115-inches) to 4604-mm (182-inches)
- Cell depth **CD**  
4360-mm (172-inches)
- Cell height **CH**  
2514-mm (99-inches)

## Standard Capacity Specifications

- Weight capacity  
600-kilograms (1,322-lbs) to 1,000-kilograms (2,200-lbs)
- Engineering specifications for 600-kilogram and 1,000-kilogram capacity per station
  - Main axis
    - Out of balance – Station A to Station B 300-kilograms
    - 180-degree index time under 4.0 seconds
  - Minor axis
    - 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 2.0 seconds

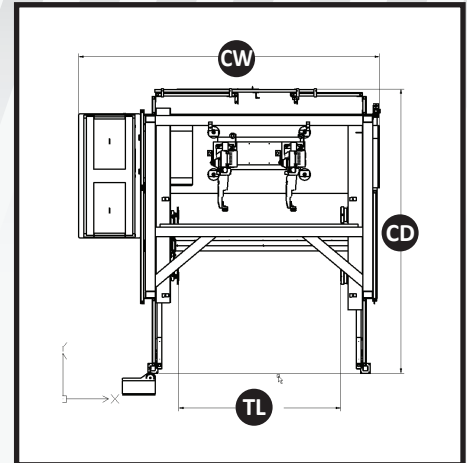
## Standard Platform Options

- Tool length 2.0-meters, 2.5-meters
- Weight capacity 1,000-kilograms
- Power track cable carrier
- Smoke hood and extraction system
- Off-line programming
- Installation
- Training programs (basic, advanced, maintenance, off-line, CRAW)
- Intelligence Center™

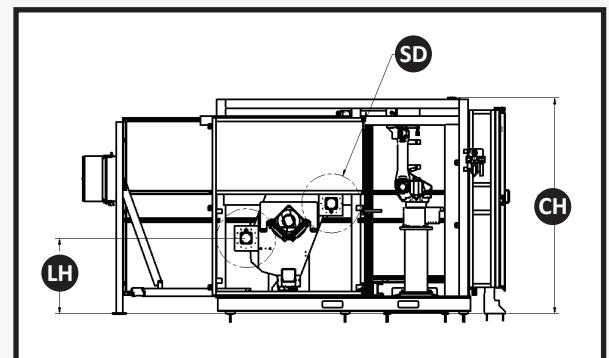
## Standard Component Options

- 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.*