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.

**Innovation and Experience from Your Single Source**

**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 Axcess 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
**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

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