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.

**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

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**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 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

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**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

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