Dynasty® 280 Series

Industrial Applications
- Precision Fabrication
- Heavy Fabrication
- Pipe and Tube Fabrication
- Aerospace
- Aluminum Ship Repair
- Anodized Aluminum Fabrication

Processes
- AC/DC TIG (GTAW)
- Pulsed TIG (GTAW-P)
- Stick (SMAW)
- Air Carbon Arc (CAC-A)

Input Power
- 208–575 V, 1-Phase or 3-Phase Power

Amperage Range
- 1–280 A (DC)
- 2–280 A (AC)

Rated Output
- 200 A at 28 V, 60% Duty Cycle

Net Weight
- 52 lb. (23.6 kg)

Quick Specs

Update and expand. Front panel memory card data port provides the ability to easily update software and expand product features. Visit MillerWelds.com/TIGSoftware for the latest software updates and expansions.

Pro-Set™ eliminates the guesswork when setting weld parameters. Use Pro-Set when you want the speed, convenience and confidence of preset controls. Simply select the feature and adjust until Pro-Set appears on the display.

Sleep timer conserves electricity. This programmable feature will power down the machine if it sits idle for a specific time.

AC TIG Features
- Balance control provides adjustable oxide removal which is essential for creating the highest quality aluminum welds. DX models provide extended ranges.
- Frequency controls the width of the arc cone and can improve directional control of the arc.

AC/DC Stick Features
- DIG control allows the arc characteristics to be changed for specific applications and electrodes. Lower the DIG setting for smooth running electrodes like E7018 and increase the DIG setting for stiffer, more penetrating electrodes like E6010.
- AC frequency control adds stability for smoother welds when AC Stick welding.

DC TIG Features
- Exceptionally smooth and precise arc for welding exotic materials.

AC Waveforms
- Advanced squarewave, fast freezing puddle, deep penetration and fast travel speeds.
- Soft squarewave for a soft buttery arc with maximum puddle control and good wetting action.
- Sine wave for customers that like a traditional arc. Quiet with good wetting.
- Triangular wave reduces the heat input and is good on thin aluminum. Fast travel speeds.

DC Stick Features
- Hot Start™ adaptive control provides positive arc starts without sticking.
- AC frequency control adds stability for smoother welds when AC Stick welding.
- Stick-Stuck detects if the electrode is stuck to the part and turns the welding output off to safely and easily remove the electrode. Menu selectable.

Power source is warranted for 3 years, parts and labor.

Miller Electric Mfg. Co.
An ITW Welding Company
1635 West Spencer Street
P. O. Box 1079
Appleton, WI 54912-1079 USA

Equipment Sales US and Canada
Phone: 866-931-9730
FAX: 800-637-2315
International Phone: 920-735-4554
International FAX: 920-735-4125

MillerWelds.com

ISO 9001
Registered Quality System
## Specifications

(Subject to change without notice.)

<table>
<thead>
<tr>
<th>Welding Mode</th>
<th>Input Power</th>
<th>Welding Amperage Range</th>
<th>Rated Output</th>
<th>Amps Input at Rated Load Output, 50/60 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIG (GTAW)</td>
<td>3-phase</td>
<td>2–280 A (AC) 1–280 A (DC)</td>
<td>235 A at 19.4 V, 60% duty cycle</td>
<td>19 17 10 9 7 7.0 6.7</td>
</tr>
<tr>
<td></td>
<td>1-phase</td>
<td>2–280 A (AC) 1–280 A (DC)</td>
<td>235 A at 19.4 V, 60% duty cycle</td>
<td>33 30 17 15 12 6.9 6.8</td>
</tr>
<tr>
<td>Stick (SMAW)</td>
<td>3-phase</td>
<td>5–280 A</td>
<td>200 A at 28 V, 60% duty cycle</td>
<td>22 20 11 10 8 8.2 7.9</td>
</tr>
<tr>
<td></td>
<td>1-phase</td>
<td>5–280 A</td>
<td>180 A at 27.2 V, 60% duty cycle*</td>
<td>34 31 17 15 12 7.1 7.0</td>
</tr>
</tbody>
</table>

* Refer to owner's manual for 208 V output ratings and duty cycle.  **Low OCV sense voltage for Stick and Lift-Arc™ TIG.

### Performance Data

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>235 A, 60%</td>
<td>200 A, 60%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>200 A, 100%</td>
<td>160 A, 100%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-phase*</td>
<td>280 A, 25%</td>
<td>280 A, 10%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>235 A, 60%</td>
<td>180 A, 60%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>200 A, 100%</td>
<td>160 A, 100%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Refer to owner's manual for 208 V output ratings and duty cycle.

### Coolmate™ 1.3 Cooler

- Dynasty® models with CPS turn Coolmate 1.3 on and off
- Power indicator light
- Fluid level sight window
- Rustproof polyethylene-molded coolant tank and filler spout
- 1/4-HP motor is thermally protected to guard against overheating
- Efficient fin and tube heat exchanger
- Factory-set pressure relief valve (55 PSI) maintains consistent pressure during operation
- Filter and coolant filling spout are conveniently located
- Brass-body, positive displacement rotary vane pump provides consistent coolant flow and pressure rating with long pump-life expectancy

<table>
<thead>
<tr>
<th>Input Power</th>
<th>Maximum Current Draw</th>
<th>Maximum Cooling Capacity</th>
<th>Rated Cooling Capacity</th>
<th>Tank Capacity</th>
<th>Dimensions</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>115 VAC, 60 Hz</td>
<td>4.7 A (60 Hz)</td>
<td>3400 W (11,600 BTU/hr.)</td>
<td>1330 W (4540 BTU/hr.)</td>
<td>1.3 gal. (4.9 L)</td>
<td>H: 11.25 in. (286 mm) W: 10.375 in. (264 mm) D: 24 in. (610 mm)</td>
<td>43 lb. (20 kg)</td>
</tr>
</tbody>
</table>

**IP23 rating** — This equipment is designed for outdoor use. It may be stored, but is not intended to be used outside during precipitation unless sheltered. Operating temperature range is 14 to 104°F (-10 to 40°C). Storage temperature range is -22 to 149°F (-30 to 65°C). Portions of the preceding text are contained in EN 60974-1: “Welding power sources for arc welding equipment.” Certified by Canadian Standards Association to both the Canadian and U.S. Standards. All CE models conform to the applicable parts of the IEC 60974 series of standards.
Weldcraft® W-280 (WP-280) TIG Torch

- Two-piece torch head and exclusive Super Cool™ Technology provides additional surface area to increase cooling efficiency and capacity
- Torch body includes an anti-rotation feature and multi-position locking to prevent handle movement during welding and improve operator control
- Secure mechanical fittings and connections minimize leakage

<table>
<thead>
<tr>
<th>Cooling Method</th>
<th>AC Rating</th>
<th>DC Rating</th>
<th>Consumables</th>
<th>Electrode Range</th>
<th>Cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water-cooled</td>
<td>195 A, 100% duty cycle</td>
<td>280 A, 100% duty cycle</td>
<td>13N</td>
<td>.020–1/8 in. (0.5–3.2 mm)</td>
<td>Three-piece</td>
</tr>
</tbody>
</table>

**TIG Upgrade Chart**

<table>
<thead>
<tr>
<th>Why Upgrade?</th>
<th>Syncrowave 250</th>
<th>Dynasty 280</th>
<th>Dynasty 280 DX</th>
<th>Dynasty 280 Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness Capacity</td>
<td>.015 – 3/8 in. Aluminum</td>
<td>.012 – 3/8 in. Aluminum</td>
<td>The Dynasty 280 has a lower bottom end, and can weld thinner metals.</td>
<td></td>
</tr>
<tr>
<td>Duty Cycle</td>
<td>200 A, 60%</td>
<td>235 A, 60%</td>
<td>Weld longer at higher amperages. At 200 A the Dynasty 280 can weld continuously.</td>
<td></td>
</tr>
<tr>
<td>High Frequency Arc Starting</td>
<td>Continuous HF</td>
<td>Start Only HF</td>
<td>HF on Start Only limits HF interference issues during the weld.</td>
<td></td>
</tr>
<tr>
<td>Precision Controls</td>
<td>Digital and Dial %</td>
<td>All Digital</td>
<td>Precise adjustments can be made with all-digital controls for greater quality control and repeatability.</td>
<td></td>
</tr>
<tr>
<td>Confusion on Where to Set the Controls?</td>
<td>Trial and Error</td>
<td>Pro-Set™ eliminates the guesswork when setting weld parameters.</td>
<td>Select the feature and adjust until Pro-Set appears in display. Pro-Set is available for Balance, Frequency, Pulse and DIG parameters.</td>
<td></td>
</tr>
<tr>
<td>AC Frequency Control (Aluminum TIG)</td>
<td>Fixed at 60 Hz</td>
<td>Variable 70 – 150 Hz</td>
<td>Variable 20 – 400 Hz</td>
<td>Higher frequencies provide better arc control and faster travel speeds.</td>
</tr>
<tr>
<td>AC Balance Control (Aluminum TIG)</td>
<td>45 – 68% Electrode Negative</td>
<td>60 – 80% Electrode Negative</td>
<td>50 – 99% Electrode Negative</td>
<td>Greater electrode negative helps to produce welds with less etching for more aesthetic looking welds.</td>
</tr>
<tr>
<td>AC Waveforms (Aluminum TIG)</td>
<td>Soft Squarewave</td>
<td>Soft Squarewave</td>
<td>Advanced Squarewave = Travel faster Soft Squarewave = Maximum puddle control Sine Wave = Traditional characteristics Triangular Wave = Reduced heat input</td>
<td></td>
</tr>
<tr>
<td>Weld Aluminum with Pointed Tungsten (Aluminum TIG)</td>
<td></td>
<td></td>
<td>Extended Frequency and Balance controls permit welding aluminum with pointed tungsten. The benefits are reduced heat input into your part, smaller weld beads, better starting, more control of the arc and faster travel speeds.</td>
<td></td>
</tr>
<tr>
<td>Portability</td>
<td>378 lb. (172 kg) Crane or Cart</td>
<td>52 lb. (23.6 kg) Carry or Cart</td>
<td>Easier to move because of size and weight. Don’t have to wait for a crane operator.</td>
<td></td>
</tr>
<tr>
<td>Power Flexibility</td>
<td>Manual Link, 208/230/460 V 1-Phase Only</td>
<td>Auto-Line™, 208 – 575 V 1-Phase or 3-Phase</td>
<td>Auto-Line allows the unit to operate on any voltage. 1-phase or 3-phase. Even generators!</td>
<td></td>
</tr>
<tr>
<td>Insight</td>
<td>N/A</td>
<td>N/A</td>
<td>Insight Core™ Insight Centerpoint™</td>
<td>Ensures weld quality, records and maintains weld data and tracks productivity.</td>
</tr>
</tbody>
</table>
### Dynasty 280 Control Panel

<table>
<thead>
<tr>
<th>1. Standby Switch</th>
<th>7. Memory Card Port</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Voltmeter Display</td>
<td>8. Activity Indicator</td>
</tr>
<tr>
<td>3. Ammeter Display</td>
<td>9. Encoder Control</td>
</tr>
<tr>
<td>5. AC TIG Process Menu Parameters</td>
<td>11. DC TIG Process Menu Parameters</td>
</tr>
<tr>
<td>Amperage 2 – 280 A**</td>
<td>Amperage 1 – 280 A**</td>
</tr>
<tr>
<td>Balance* 60 – 80%</td>
<td>Pulse* Off – 250 PPS</td>
</tr>
<tr>
<td>Frequency* 70 – 150 Hz</td>
<td>Postflow Auto/Off – 50 seconds</td>
</tr>
<tr>
<td>Postflow Auto/Off – 50 seconds</td>
<td></td>
</tr>
<tr>
<td>6. AC Stick Process Menu Parameters</td>
<td>12. DC Stick Process Menu Parameters</td>
</tr>
<tr>
<td>Amperage 5 – 280 A</td>
<td>Amperage 5 – 280 A</td>
</tr>
<tr>
<td>DIG* Off – 100%</td>
<td>DIG* Off – 100%</td>
</tr>
</tbody>
</table>

*Pro-Set parameter selectable. **Amperage range is tungsten size dependent.

### User Menu (Hold Menu button three seconds.)

**AC TIG**
1. Start = HF/Lift Arc
2. Tungsten Size = .020 – 1/8 in. or .05 – 3.2 mm
3. Remote Trigger = STD/HOLD/OUTPUT ON

**DC Stick**
1. Start = Lift Arc/HF
2. Tungsten Size = .020 – 1/8 in. or .05 – 3.2 mm
3. Remote Trigger = STD/HOLD/OUTPUT ON

### Tech Menu (Hold Menu button five seconds.)

**AC TIG**
1. Start = HF/Lift Arc
2. Tungsten Size = .020 – 1/8 in. or .05 – 3.2 mm
3. Remote Trigger = STD/HOLD/OUTPUT ON

**DC Stick**
1. Start = Lift Arc/HF
2. Tungsten Size = .020 – 1/8 in. or .05 – 3.2 mm
3. Remote Trigger = STD/HOLD/OUTPUT ON

**User Menu** (Hold Menu button three seconds.)

**AC TIG**
1. Standby Switch
2. Voltmeter Display
3. Ammeter Display
4. Output Contactor “On” Indicator
5. AC TIG Process Menu Parameters
   - Amperage 2 – 280 A**
   - Balance* 60 – 80%
   - Frequency* 70 – 150 Hz
   - Postflow Auto/Off – 50 seconds
6. AC Stick Process Menu Parameters
   - Amperage 5 – 280 A
   - DIG* Off – 100%

**Tech Menu** (Hold Menu button five seconds.)

**AC TIG**
1. Standby Switch
2. Voltmeter Display
3. Ammeter Display
4. Output Contactor “On” Indicator
5. AC TIG Process Menu Parameters
   - Amperage 2 – 280 A**
   - Balance* 60 – 80%
   - Frequency* 70 – 150 Hz
   - Postflow Auto/Off – 50 seconds
6. AC Stick Process Menu Parameters
   - Amperage 5 – 280 A
   - DIG* Off – 100%
7. Memory Card Port
8. Activity Indicator
9. Encoder Control
10. Menu Ranges
11. DC TIG Process Menu Parameters
   - Amperage 1 – 280 A**
   - Pulse* Off – 250 PPS
   - Postflow Auto/Off – 50 seconds
12. DC Stick Process Menu Parameters
   - Amperage 5 – 280 A
   - DIG* Off – 100%
13. Process Selector

*Pro-Set parameter selectable. **Amperage range is tungsten size dependent.

**User Menu** (Hold Menu button three seconds.)

**Tech Menu** (Hold Menu button five seconds.)
Dynasty 280 DX Control Panel

1. Standby Switch
2. Voltmeter Display
3. Ammeter Display
4. Polarity AC/DC
5. Process/Arc Starting TIG: HF Impulse, Lift-Arc
   STICK: Adaptive Hot Start
6. Output Control Standard Remote,
   2T Trigger Hold,
   Output ON
7. Pulser Control
   Pulses per Second* DC: 0.1–500 PPS
   AC: 0.1–500 PPS
   Peak Time* 5–95%
   Background Amps* 5–95%
8. Memory Card Port
9. Activity Indicator
10. Encoder Control
11. Amperage Button
12. AC Waveshape
   Balance* 50–99% EN
   Frequency* 20–400 Hz
13. Gas/DIG
   Preflow 0.0–25.0 seconds
   Postflow Auto/Off–50 seconds
   DIG* Off–100%
14. Sequencer Control
   Initial Amps AC: 2–280 A
   DC: 1–280 A
   Initial Slope 0.0–25.0 seconds
   Weld Time 0.0–999 seconds
   Final Slope 0.0–25.0 seconds
   Final Amps AC: 2–280 A
   DC: 1–280 A

*Pro-Set parameter selectable.

User Menu (Press Gas and Amperage buttons.)
1. Tungsten Size = .020 – 1/8 in./GEN or .05 – 3.2 mm
2. Remote Trigger = 3T/4T/4TL/4TLE
3. Wave Form = SOFT/ADVS/SINE/TRI
4. Stick Hot Start = ON/OFF

Tech Menu (Hold Gas and Amperage buttons five seconds.)
1. Arc Time 0.0 – 9999 hours
   0.0 – 59 minutes
   0 – 999,999 cycles
   Resettable
2. Error Log = Error event recorder
3. Sleep Timer = 1/5/10/15/30/45MIN/1HR
4. Stick Stuc = OFF/ON
5. OCV = LOW/NORM
6. Cooler Power = AUTO/OFF (only on Dynasty models with CPS)
7. Weld Timers = OFF/ON
8. Locks = OFF/1–4
9. Meter Display
10. External Pulse Control = OFF/ON
11. Machine Reset
12. Software Number
13. Serial Number
14. Insight (DX with Insight model only)
## Dynasty 280 Models/Packages

### Build an Air-Cooled Package
Select desired stock number for each step.

<table>
<thead>
<tr>
<th>Step #1 • Select Dynasty</th>
<th>Step #2 • Select Contractor Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dynasty 280</td>
<td>Foot Control Contractor Kit</td>
</tr>
<tr>
<td>#907 550</td>
<td>#301 309</td>
</tr>
<tr>
<td>Dynasty 280 (CPS)</td>
<td>Fingertip Control Contractor Kit</td>
</tr>
<tr>
<td>#907 537</td>
<td>#301 311</td>
</tr>
<tr>
<td>Dynasty 280 DX</td>
<td></td>
</tr>
<tr>
<td>#907 551</td>
<td></td>
</tr>
<tr>
<td>Dynasty 280 DX (CPS)</td>
<td></td>
</tr>
<tr>
<td>#907 514</td>
<td></td>
</tr>
<tr>
<td>Dynasty 280 DX w/Insight(CPS)</td>
<td>#907 514 003</td>
</tr>
</tbody>
</table>

Dynasty comes with adjustable shoulder strap, 8-ft. power cord (no plug), quick reference guide and two 50-mm Dinse-style connectors.

### Build a Water-Cooled Package
Select desired stock number for each step.

<table>
<thead>
<tr>
<th>Step #1 • Select Dynasty TIGRunner® and Coolant</th>
<th>Step #2 • Select Remote Control</th>
<th>Step #3 • Select Torch Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dynasty 280 (CPS) TIGRunner® #907 537 002</td>
<td>Wireless Foot #300 429</td>
<td>W-250 (WP-20) Kit #300 185</td>
</tr>
<tr>
<td>Dynasty 280 DX (CPS) TIGRunner® #907 514 001</td>
<td>RFCS-14 HD Foot #194 744</td>
<td>W-280 (WP-280) Kit (recommended) #300 990</td>
</tr>
<tr>
<td>Dynasty 280 DX w/Insight (CPS) TIGRunner® #907 514 004</td>
<td>RCC-14 E/W Fingertip #151 086</td>
<td>W-375 Kit #301 268</td>
</tr>
</tbody>
</table>

Low-Conductivity Coolant #043 810
(Must be ordered in quantities of four.)

Dynasty TIGRunner comes with 8-ft. power cord (no plug), quick reference guide, Coolmate™ 1.3 and Small Runner™ cart.

### Water-Cooled Packages
Use a single stock number to order a complete preconfigured system.

<table>
<thead>
<tr>
<th>Select Water-Cooled Complete Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dynasty 280 (CPS) Complete with Foot Control #951 466</td>
</tr>
<tr>
<td>Dynasty 280 DX (CPS) Complete with Foot Control #951 468</td>
</tr>
<tr>
<td>Dynasty 280 DX (CPS) Complete with Wireless Foot Control #951 469</td>
</tr>
</tbody>
</table>

Comes with:
- 8-ft. power cord (no plug)
- Quick reference guide
- Coolmate™ 1.3 #300 972
- Coolant (4 one-gallon bottles of #043 810)
- Small Runner™ cart #301 318
- Remote control #194 744 (foot) or remote control #300 429 (wireless foot)
- W-280 (WP-280) torch kit #300 990 (see page 7 for contents)
**Genuine Miller Accessories**

**Small Runner™ Cart #301 318**
Designed for Dynasty/Maxstar 210 and 280 with Coolmate 1.3 cooler. Cart features single-cylinder rack, foot pedal holder, two cable/torch holders, and two TIG filler rod holders.

**Coolmate™ 1.3 #300 972 120 VAC**
1.3-gallon cooler designed to cool torches up to 280 amps.

**Performance TIG Gloves**
- #263 345 X-Small (Women’s)
- #263 346 Small (Women’s)
- #263 347 Medium
- #263 348 Large
- #263 349 X-Large
Completely unlined, goat grain leather with triple-padded palm.

**Memory Cards**
- Memory Card Expansion #301 151 14-Pin Automation Expansion
  Provides the ability to access common automation functions through the 14-pin connection.
- #301 152 14-Pin Modbus® Expansion
  Provides the ability to access basic and advanced functions through the 14-pin connection.
- #301 235 Independent AC Expansion
  Allows EP and EN amperages and waveforms to be set independently to precisely control heat input to the work and electrode.
- Memory Card (Blank) #301 080
  A blank, commercially available memory card used for transferring software updates and expandable features from your computer to the machine.

**TIG Torches, Kits and Connectors**

**Contractor Kits**
- #301 309 150 A RFCS-14 HD Foot Pedal Kit
- #301 311 150 A RCCS-14 Fingertip Kit
All-in-one TIG/Stick welding kit comes with either a RFCS-14 HD foot control or RCCS-14 fingertip control, Weldcraft™ A-150 TIG torch, 200-amp Stick electrode holder and 300-amp work clamp with 15-foot (4.6 m) cables, flow gauge regulator with 12-foot (3.7 m) gas hose, gas hose coupler, AK2C torch accessory kit and TIG torch connector.

**Weldcraft™ A-200 (WP-26) TIG Torch**
- #WP-26-12-R (12 ft.)
- #WP-26-25-R (25 ft.)
200-amp air-cooled torch. Torch body gas valve models also available.

**Air-Cooled TIG Torch Connectors**
- #195 379 A-200 (WP-26)
- #195 378* All others
50-mm Dinse-style for one-piece air-cooled torch. *A-80 (WP-24) torches require #195 379 connector.

**Water-Cooled TIG Torch Connector #195 377**
50-mm Dinse-style with water return line. For use with all Weldcraft™ water-cooled torches.

**Remote Controls and Switches**
- **Wireless Remote Foot Control #300 429**
  For remote current and contactor control. Receiver plugs directly into the 14-pin receptacle of Miller machine. 90-foot (27.4 m) operating range.
- **RFCS-14 HD Foot Control #194 744**
  Maximum flexibility is accomplished with a reconfigurable cord that can exit the front, back or either side of the pedal. Foot pedal provides remote current and contactor control. Includes 20-foot (6 m) cord and 14-pin plug.
- **RCCS-14 Remote Contactor and Current Control #151 086**
  East/west rotary-motion fingertip control attaches to TIG torch using two hook-and-loop fasteners. Includes 26.5-foot (8 m) control cord and 14-pin plug.
- **RCCS-14 Remote Contactor and Current Control #043 688**
  North/south rotary-motion fingertip control attaches to TIG torch using two hook-and-loop fasteners. Includes 26.5-foot (8 m) cord and 14-pin plug.
- **RMS-14 On/Off Control #187 208**
  Momentary-contact switch for contactor control. Rubber-covered pushbutton dome switch ideal for repetitive on-off applications. Includes 26.5-foot (8 m) cord and 14-pin plug.
- **RMLS-14 Switch #129 337**
  Momentary- and maintained-contact rocker switch for contactor control. Push forward for maintained contact and backward for momentary contact. Includes 26.5-foot (8 m) cord and 14-pin plug.
- **RHC-14 Hand Control #242 211 020**
  Miniature hand control for remote current and contactor control. Dimensions: 4 x 4 x 3.25 inches (102 x 102 x 83 mm). Includes 20-foot (6 m) cord and 14-pin plug.
- **Wireless Remote Hand Control #300 430**
  For remote current and contactor control. Receiver plugs directly into the 14-pin receptacle of Miller machine. 300-foot (91.4 m) operating range.

**Educational Materials**
To order, please call Miller Literature at 866-931-9732 or visit MillerWelds.com/resources/tools.

**Gas Tungsten Arc Welding (TIG) Publication #250 633**
Video topics include tungsten selection, setup menus, DC pulse, sequencer, balance and frequency settings.

### Tungsten

<table>
<thead>
<tr>
<th>Tungsten</th>
<th>Amp Range</th>
<th>2% Ceriated (AC/DC)</th>
<th>2% Lanthanated (AC/DC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/16 in. (1.6 mm)</td>
<td>70 – 150 A</td>
<td>WC116X7</td>
<td>WL2116X7</td>
</tr>
<tr>
<td>3/32 in. (2.4 mm)</td>
<td>140 – 250 A</td>
<td>WC332X7</td>
<td>WL2332X7</td>
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<td>1/8 in. (3.2 mm)</td>
<td>225 – 400 A</td>
<td>WC308X7</td>
<td>WL208X7</td>
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<tr>
<td>5/32 in. (4.0 mm)</td>
<td>300 – 500 A</td>
<td>WC532X7</td>
<td>WL2532X7</td>
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## Equipment and Options

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<tr>
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<tr>
<td>#907 550</td>
<td>Dynasty® 280</td>
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<tr>
<td>#907 537</td>
<td>Dynasty® 280 (CPS)</td>
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<tr>
<td>#907 551</td>
<td>Dynasty® 280 DX</td>
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<tr>
<td>#907 514</td>
<td>Dynasty® 280 DX (CPS)</td>
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<tr>
<td>#907 514 003</td>
<td>Dynasty® 280 DX with Insight (CPS)</td>
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<td>#907 537</td>
<td>Dynasty® 280 (CPS)</td>
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<tr>
<td>#907 514 001</td>
<td>Dynasty® 280 DX (CPS) TIGRunner®</td>
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<tr>
<td>#907 514 004</td>
<td>Dynasty® 280 DX with Insight (CPS) TIGRunner®</td>
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<tr>
<td>#907 546</td>
<td>Dynasty® 280 DX (CPS) Complete w/Foot Control</td>
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<tr>
<td>#951 468</td>
<td>Dynasty® 280 DX (CPS) Complete w/Wireless Foot Control</td>
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### Water-Cooled Packages

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<td>Dynasty® 280 DX with Insight (CPS) TIGRunner®</td>
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<td>#951 466</td>
<td>Dynasty® 280 DX (CPS) Complete w/Foot Control</td>
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<td>#951 468</td>
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### Software

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<td>#301 314</td>
<td>Insight Centerpoint™</td>
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<tr>
<td>#301 323</td>
<td>Advanced capability for Dynasty</td>
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<tr>
<td>#301 315</td>
<td>Standard and advanced capability for Dynasty</td>
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<tr>
<td>#301 316</td>
<td>Version 9.0 single license for Dynasty</td>
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<td>#301 256</td>
<td>Version 9.0 site license</td>
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### Accessories

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<tr>
<td>#301 318</td>
<td>Small Runner™ Cart</td>
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<tr>
<td>#300 972</td>
<td>Coolmate™ 1.3</td>
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<td>#043 810</td>
<td>TIG Coolant (Must be ordered in quantities of four)</td>
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<td>#WP-17-12-R</td>
<td>Weldcraft™ A-150 (WP-17) TIG Torch</td>
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<tr>
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<td>#195 379</td>
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<td>#300 185</td>
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</table>

### Remote Controls

See page 7

### Educational Materials

See page 7

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**Ordering Information**


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