



TIG PRODUCT GUIDE



DIVERSION™ (AC/DC)

For the personal user who wants to achieve basic operations with an easy-to-understand machine.

| INDUSTRIES | | |
|------------|------------------|-----|
| METAL ART | AUTO RESTORATION | DIY |

DIVERSION 180

- Home hobbyist
- Easy to understand



KEY PRODUCT FEATURE:

ONLY 50 lbs.

MAXSTAR® SERIES (DC)

From thin tube and MRO to large pipe and tank fabrication, this family of products is ideal for steel and stainless steel applications.

| INDUSTRIES | | | |
|-----------------|----------------|--------------|--------|
| FOOD & BEVERAGE | PETRO CHEMICAL | SHIPBUILDING | PHARMA |

MAXSTAR 161 STL and STH

- Maintenance and repair
- Portability is paramount



KEY PRODUCT FEATURE:

ONLY 13 lbs.

MAXSTAR 210 and 280

- Precision fabrication
- Steel and stainless steel are primary materials
- Shop and portable applications



KEY PRODUCT FEATURE:



MAXSTAR 400 and 800

- Heavy fabrication
- Steel and stainless steel are primary materials
- Shop and fixed automation applications



KEY PRODUCT FEATURES:



SYNCROWAVE® SERIES (AC/DC)

Designed for light to heavy manufacturing on all materials including aluminum for general applications.

| INDUSTRIES | | |
|---------------|-------------------------------|---------------------|
| MANUFACTURING | GENERAL FABRICATION/JOB SHOPS | VOCATIONAL TRAINING |

SYNCROWAVE 210

- Basic operations
- Welds all materials including aluminum
- Easy to use
- Light industrial applications



KEY PRODUCT FEATURES:



SYNCROWAVE 300 and 400

- High-volume and heavy manufacturing
- Welds all materials including aluminum
- General applications



KEY PRODUCT FEATURE:



DYNASTY® SERIES (AC/DC)

Provides precision fabrication with ultimate versatility on all materials including aluminum for both shop and portable applications.

| INDUSTRIES | | | |
|------------|-----------------|--------------------------|---------------------------|
| AEROSPACE | TRUCK & TRAILER | EXOTIC METAL FABRICATION | BOAT & MARINE ACCESSORIES |

DYNASTY 210 and 300

- Pinnacle welding applications
- Precision and control for thin to medium materials
- Shop and portable applications



KEY PRODUCT FEATURES:



DYNASTY 400 and 800

- Heavy fabrication
- Welds all materials including aluminum
- Precision shop and automated applications



KEY PRODUCT FEATURES:



Which TIG Welder is Right for You?

AC/DC TIG WELDERS

180
DIVERSION™
Personal

210 300 400
SYNCROWAVE®

Personal Personal
Light Industrial Light Industrial
Light Industrial Industrial

210 300 400 800
DYNASTY®

Personal Personal
Light Industrial Light Industrial
Light Industrial Industrial

DC TIG WELDERS

161

Personal
Light Industrial

210

Personal
Light Industrial

280

Personal
Light Industrial
Industrial

400

Light Industrial
Industrial

800

Light Industrial
Industrial

| What Level of Parameter Adjustments Are Needed? | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Simplified Parameter Adjustments* | X | X | X | X | X | X | X | X |
| Advanced Parameter Adjustments** | | | | | X | X | X | X |
| What Material Are You Welding? | | | | | | | | |
| Steel/Stainless Steel | X | X | X | X | X | X | X | X |
| Aluminum | X | X | X | X | X | X | X | X |
| What Material Thickness Are You Welding? | | | | | | | | |
| Less than .020" | | | | | X | X | | |
| .020" - 1/8" | X | X | X | X | X | X | X | X |
| 1/8" - 3/16" | X | X | X | X | X | X | X | X |
| Up to 1/4" | | X | X | X | X | X | X | X |
| Up to 3/8" | | | X | X | | X | X | X |
| Up to 5/8" | | | | | | X | X | |
| Up to 1" | | | | | | | X | X |
| How Much Input Power Do You Need? | | | | | | | | |
| Single Phase | X | X | X | X | X | X | X | X |
| Three Phase | | | X | X | X | X | X | X |
| Does The Machine Need to be Portable? | | | | | | | | |
| Yes: Multi-Site | X | | | | X | X | | |
| No: In-Shop Use | X | X | X | X | X | X | X | X |

| | | | | |
|---|---|---|---|---|
| X | X | X | X | X |
| X | X | X | X | X |
| | | | | |
| X | X | X | X | X |
| | | | | |
| | X | X | | |
| X | X | X | X | X |
| X | X | X | X | X |
| | | | | |
| | X | X | X | X |
| | | | | |
| X | X | X | X | X |
| X | X | X | X | X |

* (Balance, Frequency, DC Pulsing)

** (Balance, Frequency, Waveshaping, Independent Amperage/Waveshaping)