CIGWELD Professional:
When welding is your business
At CIGWELD we distinguish ourselves from our competition through superior featured, dependable products, technical innovation and excellence in customer service and technical support.

Our Professional Transmig Range is proof of this commitment to deliver quality equipment that exceeds expectations. A wealth of features and options make this equipment the perfect choice for the serious welding professional.

The CIGWELD Transmig Portable Inverter range
The CIGWELD Transmig Series multi process welding systems deliver 3-in-1 MIG, Stick and TIG capability from one integrated system.

The CIGWELD range of Inverter welding power sources are fully featured and deliver outstanding arc characteristics thanks to advanced embedded microprocessor technology and digital control.

Equipped standard is a compliant VRD (voltage reduction device), which greatly improves operator safety in the field or workshop. This fully integrated VRD technology all but eliminates the risk of electric shock from the secondary welding circuit.

Combine all these market leading features into a compact, efficient, portable inverter design with a full range of packaged accessories and you have the ultimate fully featured professional range for construction, mining, shipbuilding and other industrial applications.

The CIGWELD Transmig Synergic Pulse Range
The CIGWELD Synergic Pulse MIG’s range from 320 Amps to 500 Amps and are designed for precision MIG welding of steel, aluminium, stainless steel and other weldable materials.

With remote control ability, exceptional out-of-position welding, effortless TIG-like weld appearance, deeper weld penetration and robot compatibility, the Transmig SP range will exceed your welding expectations ensuring perfect starts and no more spatter!

All of these benefits and more makes the Transmig SP Range ideal for heavy duty high quality welding applications such as: aluminium boat fabrication, mining, wine tanks, automotive components, pipe welding, construction machinery and maintenance and repairs.

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Contents

MULTI PROCESS INVERTERS
- TRANSMIG 350i  4
- TRANSMIG 450i  6
- TRANSMIG 550i  8

HEAVY DUTY MIG
- TRANSMIG 400HD  10

SYNERGIC PULSE
- TRANSMIG 320SP  11
- TRANSMIG 400SP  12
- TRANSMIG 500SP  13
- SYNERGIC PULSE  14

WIREFEEDERS
- TRANSMIG VA4000  16
- TRANSMIG VAF-4  17
- DATA TABLE  18
- NOTES  19

Symbol reference chart

- Suitable for stick welding (MMAW)
- Suitable for TIG welding (GTAW)
- Suitable for MIG welding (GMAW/FCAW)
- Suitable for Gouging (CAG)
- Number of phases (input)
- Input voltage
- Voltage Reduction Device
- Pulse

- AC: Alternating current
- DC: Direct Current
- CC: Constant Current
- CV: Constant Voltage
- Inverter
- Maximum output current
- Tweco No.5 Connection
- Four Roll

3
The Cigweld Professional Transmig 350i is a three phase multi process welding inverter that is capable of performing GMAW/ FCAW (MIG), MMAW (Stick) and GTAW (Lift TIG) welding processes. The unit is equipped with an integrated voltage reduction device (VRD applicable in stick mode only), digital voltage and amperage meters, and a host of other features in order to fully satisfy the broad operating needs for medium fabrication and heavier maintenance applications. The unit is also fully compliant to Australian Standards AS 60974.1 and AS 1674.

The Transmig 3-in-1 Inverter is ideal for heavy-duty high quality welding applications such as: fabrication, ship building, construction, mining, manufacturing, pipe welding and maintenance and repairs.

### Specifications

#### Processes
- MIG (GMAW/FCAW), Stick (MMAW), Lift TIG (GTAW)

#### Supply Voltage
- 415V +/- 15%

#### Current Range (MIG Mode)
- 40-350A

#### Duty Cycle (40°C, 10mins)
- MIG (GMAW/FCAW): 350A@60%, 31.5V
- STICK (MMAW): 350A@60%, 34.0V
- TIG (GTAW): 350A@60%, 24.0V

#### Recommended Generator
- 18kVA

#### Weight
- Power source: 72kg

#### Power Source Dimensions
- 580 H x 350 W x 640 D mm

### Features
- Full multi process capabilities: MIG (GMAW / FCAW), Stick (MMAW), Lift TIG (GTAW)
- Standards Compliant Voltage Reduction Device (VRD)
- Fully compliant to AS 60974.1 & AS 1674
- Digital Voltage & amperage meters
- Enclosure rated to IP23S
- Fan on demand
- Welding setup program storage (10 programs)
- 3 Year Limited Warranty*

* Conditional Warranty - Refer to operating manual for full details.

### Ordering Information

<table>
<thead>
<tr>
<th>Product</th>
<th>Part No</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRANSMIG 350i power source</td>
<td>W1005352</td>
</tr>
<tr>
<td>TRANSMIG 350i plant</td>
<td>W1005350</td>
</tr>
</tbody>
</table>

### Power Source Contents

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRANSMIG 350i power source</td>
<td>Operating manual</td>
</tr>
</tbody>
</table>
Plant Contents

- Transmig 350i Inverter Power Source
- Transmig VAF-4 wirefeeder with 8m interconnection lead fitted
- Tweco Professional No.4 MIG Torch 3.6m
- Comet Professional Argon regulator / flowmeter
- Feed roll: 0.9 / 1.2mm V groove (fitted)
- Electrode holder with 5m lead
- Work clamp with 5m lead
- Trolley
- Operating manual

Optional Accessories

- Tweco Professional No.4 MIG Torch 3.6m  717201
- Tweco Professional No.4 MIG Torch 4.5m  717335
- TIG Torch 26V, gas valve, flex neck, 4m, 10 pin  W4014602
- Heavy Duty Trolley with inbuilt cylinder carrier  W4015500
- Heavy Duty Transmig Roll Cage  W4015600
- TRANSMIG VAF-4 wirefeeder, 19pin, 110VAC  706965
- TRANSMIG VA4000 wirefeeder, 19pin, 110VAC  706954
**Specifications**

**Processes**
MIG (GMAW/FCAW), Stick (MMAW), Lift TIG (GTAW)

**Supply Voltage**
415V +/- 15%

**Current Range (MIG Mode)**
40-450A

**Duty Cycle (40°C, 10mins)**
MIG (GMAW/FCAW): 450A@60%, 36.5V
STICK (MMAW): 450A@60%, 38.0V
TIG (GTAW): 450A@60%, 28.0V

**Recommended Generator**
25kVA

**Weight**
Power source: 72kg

**Power Source: Dimensions**
580 H x 350 W x 640 D mm

**Features**
- Full multi process capabilities: MIG (GMAW / FCAW), Stick (MMAW), Lift TIG (GTAW)
- Standards Compliant Voltage Reduction Device (VRD)
- Fully compliant to AS 60974.1 & AS 1674
- Digital Voltage & amperage meters
- Enclosure rated to IP23S
- Fan on demand
- Welding setup program storage (10 programs)
- 3 Year Limited Warranty*

* Conditional Warranty - Refer to operating manual for full details.

**Ordering Information**

<table>
<thead>
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<td>TRANSMIG 450i power source</td>
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<td>TRANSMIG 450i plant</td>
<td>W1005450</td>
</tr>
</tbody>
</table>

**Power Source Contents**

TRANSMIG 450i power source, operating manual

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The Cigweld Professional Transmig 450i is a three phase multi process welding inverter that is capable of performing GMAW/FCAW (MIG), MMAW (Stick) and GTAW (Lift TIG) welding processes.

The unit is equipped with an integrated voltage reduction device (VRD applicable in stick mode only), digital voltage and amperage meters, and a host of other features ideally suited to the fabrication industry.

The unit is also fully compliant to Australian Standards AS 60974.1 and AS 1674.

The Transmig 3-in-1 Inverter is ideal for heavy-duty high quality welding applications such as: fabrication, ship building, construction, mining, manufacturing, pipe welding and maintenance and repairs.
Plant Contents

- Transmig 450i Inverter Power Source
- Transmig VAF-4 wirefeeder with 8m interconnection lead fitted
- Tweco Professional Supra XT MIG Torch 4m
- Comet Professional Argon regulator / flowmeter
- Feed roll: 0.9 / 1.2mm V groove (fitted)
- Electrode holder with 8m lead
- Work clamp with 8m lead
- Trolley
- Operating manual

Optional Accessories

- Tweco Professional No.4 MIG Torch 3.6m 717201
- Tweco Professional No.4 MIG Torch 4.5m 717335
- Tweco Professional Supra XT MIG Torch 4m SE4004M16
- TIG Torch 26V, gas valve, flex neck, 4m, 10 pin W4014602
- Heavy Duty Trolley with inbuilt cylinder carrier W4015500
- Heavy Duty Transmig Roll Cage W4015600
- TRANSMIG VAF-4 wirefeeder, 19pin, 110VAC 706965
- TRANSMIG VA4000 wirefeeder, 19pin, 110VAC 706954
**Specifications**

**Processes**
MIG (GMAW/FCAW), Stick (MMAW), Gouging (CAG), Lift TIG (GTAW)

**Supply Voltage**
415V +/- 15%

**Current Range (MIG Mode)**
40-550A

**Duty Cycle (40°C, 10mins)**
- MIG (GMAW/FCAW): 550A@60%, 41.5V
- STICK (MMAW): 550A@60%, 42.0V
- TIG (GTAW): 550A@60%, 32.0V

**Recommended Generator**
35kVA

**Weight**
Power source: 72kg

**Power Source: Dimensions**
580 H x 350 W x 640 D mm

**Features**
- Full multi process capabilities: MIG (GMAW / FCAW), Stick (MMAW) / Gouging (CAG), Lift TIG (GTAW)
- Standards Compliant Voltage Reduction Device (VRD)
- Fully compliant to AS 60974.1 & AS 1674
- Digital Voltage & amperage meters
- Enclosure rated to IP23S
- Fan on demand
- Welding setup program storage (10 programs)
- 3 Year Limited Warranty*

* Conditional Warranty - Refer to operating manual for full details.

**Ordering Information**

TRANSMIG 550i power source  W1005552
TRANSMIG 550i plant  W1005550

**Power Source Contents**

TRANSMIG 550i power source, operating manual

The Cigweld Professional Transmig 550i is a three phase multi process welding inverter that is capable of performing GMAW/ FCAW (MIG), MMAW (Stick) / Gouging (CAG) and GTAW (Lift TIG) welding processes.

The unit is equipped with an integrated voltage reduction device (VRD applicable in stick mode only), digital voltage and amperage meters, and a host of other features that are perfect for welding environments that demand high output and require the flexibility of multiple processes.

The unit is also fully compliant to Australian Standards AS 60974.1 and AS 1674.

The Transmig 3-in-1 Inverter is ideal for heavy-duty high quality welding applications such as: fabrication, ship building, construction, mining, manufacturing, pipe welding and maintenance and repairs.
Plant Contents

Transmig 550i Inverter Power Source
Transmig VA4000 wirefeeder with 15m interconnection lead
Tweco Professional No.5 MIG Torch 3.6m
Comet Professional Argon regulator / flowmeter
Feed roll: 1.3 / 1.6mm V groove (fitted)
Electrode holder with 8m lead
Work clamp with 8m lead
Trolley
Operating manual

Optional Accessories

Tweco Professional No.5 MIG Torch 3.6m 717211
Tweco Professional No.5 MIG Torch 4.5m 717212
TIG Torch 26V, gas valve, flex neck, 4m, 10 pin W4014602
Heavy Duty Trolley with inbuilt cylinder carrier W4015500
Heavy Duty Transmig Roll Cage W4015600
TRANSMIG VA4000 wirefeeder, 19pin, 110VAC 706954
The Transmig 400HD MIG Welding plant has been designed to increase the productivity of the metal fabrication industry. Performance, ruggedness and simplicity have been combined in this versatile MIG welding plant. Solid wires up to 1.6mm, diameter can be run at high duty cycles together with the ability to provide high deposition performance with flux cored wires of up to 2.4mm.

**Specifications**

- **Processes**
  - MIG (GMAW/FCAW)
- **Supply Voltage**
  - 415V +/- 10%, 32A supply lead
- **Current Range**
  - 30-400A
- **Duty Cycle (40°C, 10mins)**
  - 400A@50%
- **Recommended Generator**
  - 20kVA
- **Weight**
  - 222kg
- **Power Source Dimensions**
  - 830mm(H) x 550mm(W) x 1000mm(D)

**Features**

- 36 fine welding voltage control settings
- Trigger latching
- Heavy duty design and construction
- Dual inductance
- Voltage and amperage meters
- 4 roll wirefeeder
- 3 Year gold warranty*

*Conditional Warranty - Refer to operating manual for full details.

**Ordering Information**

- **TRANSMIG 400HD Remote Plant**
  - Part No. 704685

**Plant Contents**

- Transmig 400HD power source
- Tweco Professional No. 4 MIG Gun
- 4R wirefeeder
- Regulator/Flowmeter
- Worklead 8m
- Wheeling kit
- Roll on Cylinder Carrier
- 0.9/1.2mm Feed Roll
- Cable Storage Hook
- Operating manual

**Spare Parts & Accessories**

- **Tweco No. 5 Torch Adaptor**
  - Part No. 704630
- **Supra XT MIG Torch 4m**
  - Part No. SE4004M16
- **Feed Roll 0.6/0.8mm V Groove (Hard Wire)**
  - Part No. 7977729
- **Feed Roll 0.8/1.0mm V Groove (Hard Wire)**
  - Part No. 7977344
- **Feed Roll 0.9/1.2mm V Groove (Hard Wire)**
  - Part No. 7977703
- **Feed Roll 1.2/1.6mm V Groove (Hard Wire)**
  - Part No. 7977346
- **Feed Roll 0.8/0.9mm U Groove (Soft Wire)**
  - Part No. 7977733
- **Feed Roll 1.0/1.2mm U Groove (Soft Wire)**
  - Part No. 7977730
- **Feed Roll 1.2/1.6mm U Groove (Soft Wire)**
  - Part No. 7977348
- **Feed Roll 0.8/0.9mm Knurl Groove (Flux Cored)**
  - Part No. 7977734
- **Feed Roll 1.2/1.6mm Knurl Groove (Flux Cored)**
  - Part No. 7977347
- **Feed Roll 1.6/2.0mm Knurl Groove (Flux Cored)**
  - Part No. 7977372
- **Feed Roll 2.0/2.4mm Knurl Groove (Flux Cored)**
  - Part No. 7977451
- **Feed Roll 2.8/3.2mm Knurl Groove (Flux Cored)**
  - Part No. 7977553
- **Geared Roller Kit**
  - Part No. 705061
- **Idler Roller Kit**
  - Part No. 705062
Specifications

Processes
MIG (GMAW/FCAW), Synergic non-pulse, Synergic Pulse; TwinPulse®, TIG (GTAW), Stick (MMAW), Gouging (CAG)

Supply Voltage
415V +/- 10%

Current Range
5-350A

Duty Cycle (40°C, 10mins)
MIG (GMAW/FCAW): 320A@35%, 30V
STICK (MMAW): 320A@35%, 32.5V
TIG (GTAW): 320A@35%, 22.5V

Recommended Generator
15.1kVA

Weight
35kg

Power Source Dimensions
498mm(H) x 340mm(W) x 740mm(D)

Features

- Full Multi process capabilities:
  MIG (GMAW/FCAW), Synergic non-pulse, Synergic Pulse; TwinPulse®, TIG (GTAW), Stick (MMAW), Gouging (CAG)
- 90 synergic non-pulse/ synergic pulse programs
- 100 independent, user-defined, frequently used welding jobs
- MIG TwinPulse®, providing effortless TIG-like weld appearance
- Programmable scratch-start TIG
- Standards-compliant built-in voltage reduction device (VRD) in MMAW mode
- One Touch Control, set the material thickness, then start welding
- Manual MIG mode, enables 2-knob conventional welding controls
- User-friendly controls plus 2-line digital display, enabling easy set-up in all weld modes
- 3 Year Limited Warranty*

* Conditional Warranty - Refer to operating manual for full details.

Ordering Information

TRANSMIG 320SP Compact W1000100

Plant Contents

Transmig 320SP power source
Feed rolls: 0.9-1.2mm V groove (2), Pressure rolls (2)
Shielding Gas Hose Assembly
Operating manual

The portable Transmig 320SP, with an integrated 4-roll wire feed system, outputs 320 amp DC at only 35kg - the ideal Synergic MIG for quality welding applications, such as:
- aluminium boat fabrication or repair
- stainless steel tank and pipe fabrication.
Mobile car trolley is available as an optional extra.

Optional Accessories

Smart Torch MW5800 4m PML36004MD
Tweco Professional No. 4 MIG Torch 3.6m OTWX412/3545
Supra XT SE400X4M16
Remote Control RC20 W4000000
Mobile Car Trolley W4000300
Kit Socket for RC20 W4001100
Specifications

Processes
MIG (GMAW/FCAW), Synergic non-pulse, Synergic Pulse; TwinPulse®, TIG (GTAW), Stick (MMAW), Gouging (CAG)

Supply Voltage
415V +/- 10%

Current Range
5-400A

Duty Cycle (40°C, 10mins)
MIG (GMAW/FCAW): 400A@50%
STICK (MMAW): 400A@50%
TIG (GTAW): 400A@50%

Recommended Generator
19.4kVA

Weight
91.3kg

Power Source Dimensions
855mm(H) x 445mm(W) x 1116mm(D)

Features

• Full Multi process capabilities:
  MIG (GMAW/FCAW), Synergic non-pulse, Synergic Pulse; TwinPulse®, TIG (GTAW), Stick (MMAW), Gouging (CAG)
• 90 synergic non-pulse/ synergic pulse programs
• 100 independent, user-defined, frequently used welding jobs
• MIG TwinPulse®, providing effortless TIG-like weld appearance
• Programmable scratch-start TIG
• Standards-compliant built-in voltage reduction device (VRD) in MMAW mode
• One Touch Control, set the material thickness, then start welding
• Manual MIG mode, enables 2-knob conventional welding controls
• User-friendly controls plus 2-line digital display, enabling easy set-up in all weld modes
• Separate digital volt and ammeter display
• System available for gas cooled MIG torches or water cooled MIG torches.
• 3 Year Limited Warranty*

The Transmig 400SP, with a separate 4-roll wire feeder system and 10M interconnection, outputs 400 amp DC – the ideal Synergic MIG for high-quality welding applications, such as:
• aluminium boat fabrication
• wine tanks
• automotive components
• machinery, including construction machinery
• pipe welding
• custom job shops
• maintenance repairs
• construction
• mining
• general steel, stainless steel, and aluminium fabrication.

Systems available for gas cooled MIG torches or water cooled MIG torches. The Transmig 400SP power source, part no. W1000200, has a built-in water recirculator.

Optional Accessories

Smart Torch ML 3600 4m Gas Cooled PML36004MD
Smart Torch MW5800 4m Water Cooled PMW58004MD
Supra XT SE400X4M16
Interconnection Assembly gas cooled, 70mm², 1m W4000400
Interconnection Assembly gas cooled, 70mm², 10m W4000401
Interconnection Assembly Water Cooled, 70mm², 1m W4000500
Interconnection Assembly Water Cooled, 70mm², 10m W4000501
Interconnection Assembly Robotic Water Cooled, 70mm², 10M W4000502
Mobile Car Trolley W4000300
Kit Socket for RC20 W4001100
Swivel Unit K14 W4001000
MIG/TIG Coolant 5L W4001400

* Conditional Warranty - Refer to operating manual for full details.
Specifications

Processes
MIG (GMAW/FCAW), Synergic non-pulse, Synergic Pulse; TwinPulse®, TIG (GTAW), Stick (MMAW), Gouging (CAG)

Supply Voltage
415V +/- 10%

Current Range
5-500A

Duty Cycle (40°C, 10mins)
MIG (GMAW/FCAW): 500A@60%
STICK (MMAW): 500A@60%
TIG (GTAW): 500A@60%

Recommended Generator
26.1kVA

Weight
100.8kg

Power Source Dimensions
855mm(H) x 445mm(W) x 1116mm(D)

Features

• Full multi-process capabilities:
  MIG (GMAW/FCAW), Synergic non-pulse, Synergic Pulse; TwinPulse®, TIG (GTAW), Stick (MMAW), Gouging (CAG)
• 90 synergic non-pulse/synergic pulse programs
• 100 independent, user-defined, frequently used welding jobs
• MIG TwinPulse®, providing effortless TIG-like weld appearance
• Programmable scratch-start TIG
• Standards-compliant built-in voltage reduction device (VRD) in MMAW mode
• One Touch Control, set the material thickness, then start welding
• Manual MIG mode, enables 2-knob conventional welding controls
• User-friendly controls plus 2-line digital display, enabling easy set-up in all weld modes
• Separate digital volt and ammeter display
• 3 Year Limited Warranty*

Optional Accessories

Smart Torch MWS800 4M PMW58004MD
MIG Torch MW5800 W4000100
Interconnection Assembly Water Cooled, 95mm², 1m W4000600
Interconnection Assembly Water Cooled, 95mm², 10m W4000601
Interconnection Assembly Automation Water Cooled, 95mm², 10m W4000602
Remote Control HR 911 W4000100
Swivel Unit K14 W4001000
MIG/TIG Coolant 5L W4001400

* Conditional Warranty - Refer to operating manual for full details.

The Transmig 500SP, with a separate 4-roll wire feeder system and 10M interconnection, outputs 500 amp DC – the ideal Synergic MIG for heavy-duty, high-quality welding applications, such as:
• aluminium boat fabrication • wine tanks • automotive components • stainless steel fabrication • automotive components • construction machinery • pipe welding • custom job shops • maintenance repairs • construction • mining • general steel, stainless steel, and aluminium fabrication.
Intelligent one touch control at your fingertips

Our intelligent One Touch Control delivers the perfect welding parameters for both synergic non-pulse welding and synergic pulse welding over a wide range of different gas/wire/material thickness combinations. And now setting the optimum welding conditions is as simple as selecting the material thickness.

How does it work?

In synergic non-pulse MIG mode the One Touch Control links the wire feed speed to the arc voltage eliminating the guesswork to achieve the optimum welding parameters.

When synergic pulse mode is selected, the One Touch Control adjusts all the pulse parameters — such as pulse height, pulse width, pulse frequency, background power and wire feed speed — via the micro-processor, giving you the perfect pulse welding performance.

Perfect starts

An amplified power level is applied to the welding arc at the beginning of the weld bead to ensure that start defects are a thing of the past.

No more spatter

Micro-processor control of wire speed, weld current and voltage, in conjunction with synergic (non-pulse)/synergic pulse programs, ensures precise control and adjustment for the duration of the welding process. This eliminates spatter, and downtime for cleaning the workpiece.

With its ability to adjust in milliseconds, the synergic Transmig SP series provides clean, spatter-free operation from start to finish, every single time.

Intelligent pulsing

Droplets of molten filler metal are transferred across the arc by expertly tailored current pulse parameters — to achieve spatter-free welding for the selected gas/wire/material combination.

The pulse forces the droplet off the end of the wire, transfers it across the arc and into the weld pool. The program is optimised to vary the pulse height and frequency, thus ensuring that the size and time of the transferring droplet is accurately controlled. This produces a spray-like arc over the entire welding power range.

Spatter-free ignition sequence:

<table>
<thead>
<tr>
<th>Contact</th>
<th>Ignition</th>
<th>Upslope control</th>
<th>Arc stabilising</th>
<th>Pulsing begins</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.000 seconds</td>
<td>0.0001 seconds</td>
<td>0.050 seconds</td>
<td>0.200 seconds</td>
<td>0.300 seconds</td>
</tr>
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</table>
CIGWELD’s Synergic Pulse MIG Range: The Benefits

Ranging from 320 to 500 amps, each Transmig SP is the ultimate power source designed for precision MIG welding of steel, aluminium, stainless steel, steel and other weldable materials.

Look at the benefits of choosing CIGWELD:

• Spray transfer welding permitted at lower-than-normal average weld currents
• No spatter or undercut in the majority of welding applications
• Precise control of welding power, to assure bead shape and root penetration rivaling TIG welding
• High energy arc produced, that virtually eliminates the risk of lack of fusion
• Improved arc control for out-of-position welding and more effective welding of thin materials, with all the advantages of spray transfer
• Optimised pulse programs for gas/wire combinations
• TwinPulse® capabilities
• 100 welding programs accessible via the Smart MIG torch
• Smart controls improving productivity, in an ergonomically designed control panel
• Integrated water recirculator are built into some models for water cooled torches
• Durable, robust, proven design and construction.

No more end craters!
Automatic reduction of welding energy (down slope) at the completion of the weld ensures a sharp wire end, crater is eliminated and a perfect start-up to the next weld is assured.

Remote control on torch
Welding voltage and wirespeed are controlled directly from the Smart torch ensuring fast and flexible control.

Selectable weld programs
The Tiptronic stores the exact welding settings for each application in their correct sequence. With just the touch of a button you can call up 100 different welding settings.

Remote control
Each parameter can be remotely controlled and operated from a distance of up to 25 metres from the power source. Ideal for automatic or semi automatic welding fixtures.

Why choose the Transmig SP series over conventional MIG equipment?

• Exceptional out-of-position welding for steel, stainless steel and aluminium
• Effortless TIG-like weld appearance on aluminium and stainless steel with TwinPulse®
• Deeper weld penetration
• Accurate penetration on sheet metal
• Superior welding characteristics on hard-facing and high-alloy steels
• The ability to use larger-than-normal diameter wires on thin base material, providing a cost saving on wire and superior feedability
• Transfer in the vertical up position giving smoother welds, better control and deeper penetration
• Improved edge wetting in synergic pulse mode

Complete arc-length control
Steady, consistent arc length is crucial for quality weld results. Digital arc length control monitors the progress of the weld and detects any deviations within a fraction of a second. Adjustments are made instantaneously ensuring the arc length remains steady for the duration of the welding procedure.

Arc length control examples
Constant arc length due to change in stick-out. Constant arc length due to change in material height.

Remote control
Both the Transmig 400SP and 500SP Automation are easily connected to automation systems. Simply access stored jobs directly from a pendant or controller to obtain a clear, efficient automation solution.

Robot compatible
Analogue or digital interface is automatically selected. The internal CAN-Bus can also be docked to common Bus-systems. Robot interface is supported via software and no hardware changes required.

Computer connectable
The range is fully digital for ease of future upgrades and service Connection to a PC allows the use of Job Tool to manage welding jobs data and to monitor electronic diagnostics and service status.
Specifications

Supply Voltage
115 volt AC

Duty Cycle (40°C, 10mins)
500A@100%

Wire Spool Size
15kg or 25kg

Wire Diameter
(Hard) 0.6 - 1.6mm
(Cored) 1.2 - 3.2mm
(Soft) 0.8 - 2.0mm

Weight (without cable)
18.5kg

Power Source: Dimensions
310 H x 335 W x 513 D mm

Features

- Heavy duty 4 roll feeder assembly
- Gas solenoid operation
- Digital meters for wire speed, voltage (preset & actual) & arc current
- Feed force monitor display
- Adjustable timing for pre-flow, post flow & burnback
- Inch switch, purge switch, trigger latch switch & spot timer control
- Tweco No. 5 torch connection
- Adjustable run in and ramp up speeds to match power source start characteristics
- Ground fault protection, electronic motor protection & input circuit breaker
- Embedded micro processor
- Compact, lightweight, excellent performance
- 3 year limited warranty*

Ordering Information

TRANSIG VA4000 706954

Plant Contents

TRANSIG VA4000 wire feeder
Operating manual

The Transmig VA4000 is a heavy duty, compact, 4 roll wire feeder designed for high duty cycle welding environments. When used with the appropriate accessories the unit is capable of running MIG wires up to 3.2mm in diameter.

Key features include outstanding speed control through built in load compensation, quick change feed rolls without tools, a rotatable feed head to limit the bends in the gun cable and a welding gun with quick disconnect. Ground fault protection, electronic motor protection and an input circuit breaker are all designed to keep the unit running in tough conditions.

Spare Parts & Accessories

Tweco® Professional No.5 MIG torch, 3.6 metre 717211
Tweco® Professional No.5 MIG torch, 4.5 metre 717212
Tweco® Professional No.4 MIG torch adaptor 870394
Tweco® Professional No.5 MIG torch adaptor 870395
1.2 metre interconnection 19 pin to 19 pin 706955
10 metre interconnection 19 pin to 19 pin 706956
15 metre interconnection 19 pin to 19 pin 706957

Optional Accessories

Hard wire: 0.6mm V Groove 375980-071
0.8/0.9mm V Groove 375980-050
0.9/1.2mm V Groove 375980-070
1.3/1.6mm V Groove 375980-052
Soft wire: 0.9mm U Groove 375980-072
1.2mm U Groove 375980-073
1.6mm U Groove 375980-074
Flux cored: 0.8/0.9mm V Knurl 375980-050
1.2mm V Knurl 375980-083
1.3/1.6mm V Knurl 375980-057
2.0mm V Knurl 375980-058
2.4mm V Knurl 375980-059
2.8mm V Knurl 375980-060
3.2mm V Knurl 375980-061

* Conditional Warranty - Refer to operating manual for full details.
Specifications

Supply Voltage
110 volt AC

Duty Cycle (40°C, 10mins)
420A@60%

Wire Spool Size
15kg or 25kg

Wire Diameter
(Hard) 0.8 - 1.6mm
(Cored) 1.2 - 2.0mm
(Soft) 1.2 - 1.6mm

Weight (without cable)
30kg

Power Source: Dimensions
294 H x 245 W x 555 D mm

Features

- Voltage control at feeder
- Remote pendant option
- ‘Spot’ welding control (0-3 sec)
- Connection supplied – Tweco 4 connection
- 8m interconnection
- Trigger latch, purge and wire inch
- 3 year limited warranty*

* Conditional Warranty - Refer to operating manual for full details.

Ordering Information

VAF-4 wirefeeder 14 pin 705700
VAF-4 wirefeeder 19 pin 706965

Plant Contents

TRANSMIG VAF-4 wire feeder
8m interconnection cables
Operating manual

Optional Accessories

Hard wire: 0.6/0.8mm V Groove 7977729
0.9/1.2mm V Groove 7977703
1.2/1.6mm V Groove 7977346
Soft wire: 0.8/0.9mm U Groove 7977733
1.0/1.2mm U Groove 7977730
1.2/1.6mm U Groove 7977348
Flux cored: 0.8/0.9mm V Knurl 7977734
1.2/1.6mm V Knurl 7977347
1.6/2.4mm V Knurl 7977372
Tweco® Professional No.4 MIG Torch 3.6m 717201
Tweco® Professional Supra XT MIG Torch 4m SE4004M16
Euro adaptor 705471
Tweco® Professional No.4 MIG Torch adaptor 704521
Tweco® Professional No.5 MIG Torch adaptor 704630

The VAF-4 Professional 4 Roll Wire Feeder is compact, light weight and easy to use wire feeder that is suitable for use on a broad range of power sources. The unit incorporates a range of features including wire inching, gas purge, trigger latching, along with standard features such as wire-speed control and spot timer control. When combined with the appropriate power source, the CIGWELD Professional VAF-4 wire feeder provides excellent performance on mild steel, flux cored, stainless steel, aluminium, silicon bronze and hard facing wires up to 1.6mm in diameter.
## Data Table

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Transmig 350i</th>
<th>Transmig 450i</th>
<th>Transmig 550i</th>
<th>Transmig VA4000</th>
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<tr>
<td>Part No.</td>
<td>W1005352 Power Source W1005350 Plant</td>
<td>W1005452 Power Source W1005450 Plant</td>
<td>W1005552 Power Source W1005550 Plant</td>
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<td>Nominal Supply Voltage</td>
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<td>Maximum kVA at Rated MIG Weld Current</td>
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<td>Welding Current Range</td>
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<td>MIG: 450A@60%, 36.5V STICK: 450A@60%, 38.0V TIG: 450A@60%, 28.0V</td>
<td>MIG: 550A@60%, 41.5V STICK: 550A@60%, 42.0V TIG: 550A@60%, 32.0V</td>
<td>MIG: 500A@100%</td>
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<td>Power Source Dimensions</td>
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<td>580mm(H) x 350mm(W) x 640mm(D)</td>
<td>580mm(H) x 350mm(W) x 640mm(D)</td>
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<td>Transmig 320SP</td>
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<td>40-420 Amp</td>
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<td>14-44 Volt</td>
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<td>42V</td>
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<td>MIG: 420A@60%</td>
<td>400A@60%</td>
<td>MIG: 270A@60% STICK: 270A@60% TIG: 270A@60%</td>
<td>MIG: 350A@60% STICK: 350A@60% TIG: 350A@60%</td>
<td>MIG: 500A@60% STICK: 500A@60% TIG: 500A@60%</td>
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<td>30kg</td>
<td>222kg</td>
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<td>91.3kg</td>
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<td>294mm(H) x 245mm(W) x 555mm(D)</td>
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<td>498mm(H) x 340mm(W) x 740mm(D)</td>
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