

• Optional parts

■ Extension cable

| | 5m | 10m | 15m | 20m |
|--|------------|------------|------------|------------|
| Control cable of wire feeder side (10-pin) | BKCPJ-1005 | BKCPJ-1010 | BKCPJ-1015 | BKCPJ-1020 |
| Control cable for analog remote controller (6-pin) | BKCPJ-0605 | BKCPJ-0610 | BKCPJ-0615 | BKCPJ-0620 |
| Control cable for digital panel | BKCAN-0509 | BKCAN-0514 | BKCAN-0519 | BKCAN-0524 |

* No standard power cable (2m) is required when using an extension cable.
 * If you use an automatic machine or a current value close to the rated current, use a one-rank thicker cable.
 * According to the extension wiring regulations, the power cable is 60mm² for 400A or less, and 80mm² for 500A or less. (For a rated duty cycle of 50%)

■ Voltage detection cable

| | 5m | 10m | 15m | 20m |
|-------------------------|----------|----------|-----|----------|
| Voltage detection cable | K5791G00 | K5416N00 | - | K5791E00 |

■ Voltage detection adaptor

When using CBT-EX (DC low spatter), attach it to the wire feeder (CM -743U).

| Part name | Part No. |
|---------------------------|----------|
| Voltage detection adaptor | K5952E00 |



How To Install

■ Welding torch

• MIG welding torch for stainless steel and steel

| Part name | Model | BT3510-xxUT |
|-----------------------|-------|-------------------|
| Applicable wire dia. | mm | (0.9), (1.0), 1.2 |
| Specified max current | A | 300A |
| Duty cycle | % | 30% |
| Cooling method | | Air cooling |
| Cable length | m | 3m, 4.5m, 6m |

■ Remote controller

• Analog remote controller

| Part name | Part No. |
|------------------------------|----------|
| Analog remote controller(3m) | K5804S00 |



• Conversion cable for conventional analog remote controller (K5416Z00)

| Part name | Part No. |
|------------------|----------|
| Conversion cable | K8116E00 |

• Digital remote controller
(One set of the following three items are needed.)

| Part name | Model |
|---------------------------------------|------------------------------------|
| Digital remote controller (Main unit) | E-2452 |
| CAN communication cable | BKCAN-0410(10m) BKCAN-0420(20m) |
| BKCAN conversion connector | K5810B00 |

* Software update is necessary.
 Please contact your dealer for details.

■ Voltage detection line for welding torch

Prepare it when using CBT-EX (DC low spatter) with a MIG torch for stainless steel.

| Part name | Part No. |
|-------------------------|----------|
| Voltage detection cable | K5791G00 |

■ Cooling water circulator

| Part name | Model / Part No. |
|--------------------------|------------------|
| Cooling water circulator | WTCB-M1 |

* When using a water-cooled welding torch with WB-M502, prepare a water-cooling kit (K5848A00) in addition to the above. Contact your dealer or OTC's sales office to install the water cooling kit.

■ TIG solenoid valve kit

| Part name | Part No. |
|------------------------|----------|
| TIG solenoid valve kit | K8197A00 |

* Conversion cable (BKPJT-60R2) is separately required for WB-M502/P502L.

■ Panel for wire feeder

• Analog panel

Current/voltage setting and inching can be operated in the same way as with analog remote controller.

| Part name | Part No. |
|------------------|----------|
| Analog panel | K8028A00 |
| Conversion cable | K8116E00 |



* Control cable BKCPJ-06** is separately required.
 * Function switching by F2 cannot be used.

• Digital panel

Such operations as current/voltage setting, inching, and storage/reading of parameter setting can be made in the same way as a digital remote controller.

| Part name | Model |
|---------------|--------|
| Digital panel | E-2628 |



* Control cable BKCAN-05** is separately required.



Same reliable design.
 New improved interface.

WBII P500L WBII P400L WBII P350L
 WBII M350 WBII P400 WBII M500



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OTC- 8 REV 11/21

Welding's EVEN BETTER Electronic Engine



- WBII P500L
- WBII P400L
- WBII P350L
- WBII M350
- WBII P400
- WBII M500



Welbee III NANOTECHNOLOGY

OTC DAIHEN invested over 10 million dollars and 6 years to develop welding's best electronic engine - Welbee, our custom LSI ASIC chip. Delivering an industry leading 20nsec response time, that is 50 million arc adjustments every second of the weld! 4X faster response than our nearest competitor! This enables our clean welding results including support for CO2 welding and the reduction and elimination of expensive Helium gas. Better welds enabled by better technology, for the welder.



be tough

Same great low-maintenance durability

■ Welbee side-flow structure

| High dust resistance

Sensitive electronic components are separated and isolated from damaging dust accumulation.

| Easy maintenance

Cooling fans adjust to accommodate duty cycle and ambient air temperature. Blow-out with compressed air can be performed without removing covers.

Dust intrusion into electronic parts can be reduced by approx.
98%



Same great model line-up, only better.

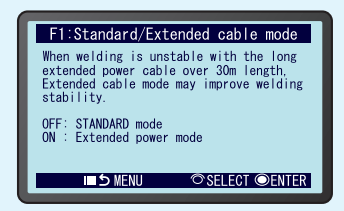
be smart

New and improved operator control panel

Easier to access welding info

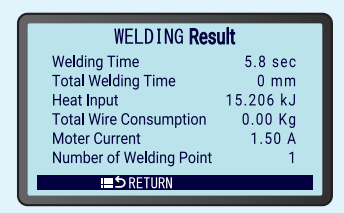
| Detailed function display

Settings, functions and errors are displayed in detail reducing the need for an operation manual.



| Welding results display

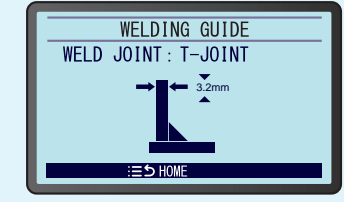
Welding results including time, wire consumption, heat input and more are displayed at the conclusion of each weld.



Ease of Use Improvements

| Built-in welding guide

Welding conditions can automatically be set simply by selecting the joint type and plate thickness. This function supports the setting of conditions for those who are unfamiliar with welding work.



| Improved Current / Voltage digital display

140% larger than prior model for improved visibility.

| Easy-to-read LCD panel

Text font size and background color are adjustable to improve visibility.

* Welding conditions are guidelines and do not guarantee welding results.

DC Pulse / Wave pulse

WBII P500L WBII P400L WBII P350L

Welbee pulse welding has been refined improving welding of steel, stainless steel and aluminum.

Better pulse welding for all materials

Mild steel

No special technique is required to obtain beautiful welding results with less spatter and uniform bead toes.

Welding conditions

- Welding current: 115A
- Arc voltage: 23.1V
- Plate thickness: 0.8
- Wire dia.: $\phi 0.045"$
- Travel speed: 24in/min
- Shielding gas: 80%Ar+20%CO₂



Stainless steel

Controlled droplet transfer enables to obtain good weld beads even with highly viscous stainless steel wire's molten droplets.

Welding conditions

- Welding current: 115A
- Arc voltage: 21.0V
- Plate thickness: 0.8
- Wire dia.: $\phi 0.045"$
- Travel speed: 24in/min
- Shielding gas: 98%Ar 2%O₂

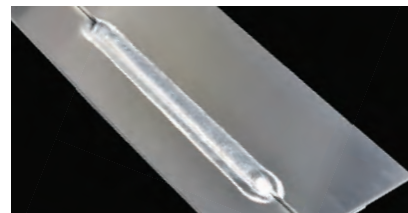


Aluminum

Beautiful weld beads can be obtained by suppressing the generation of fine particle spatter.

Welding conditions

- Welding current: 55A
- Arc voltage: 18.5V
- Plate thickness: 0.8
- Wire: Hard aluminum $\phi 0.045"$
- Travel speed: 14in/min
- Shielding gas: 100%Ar



AI-enhanced Smart pulse welding NEW

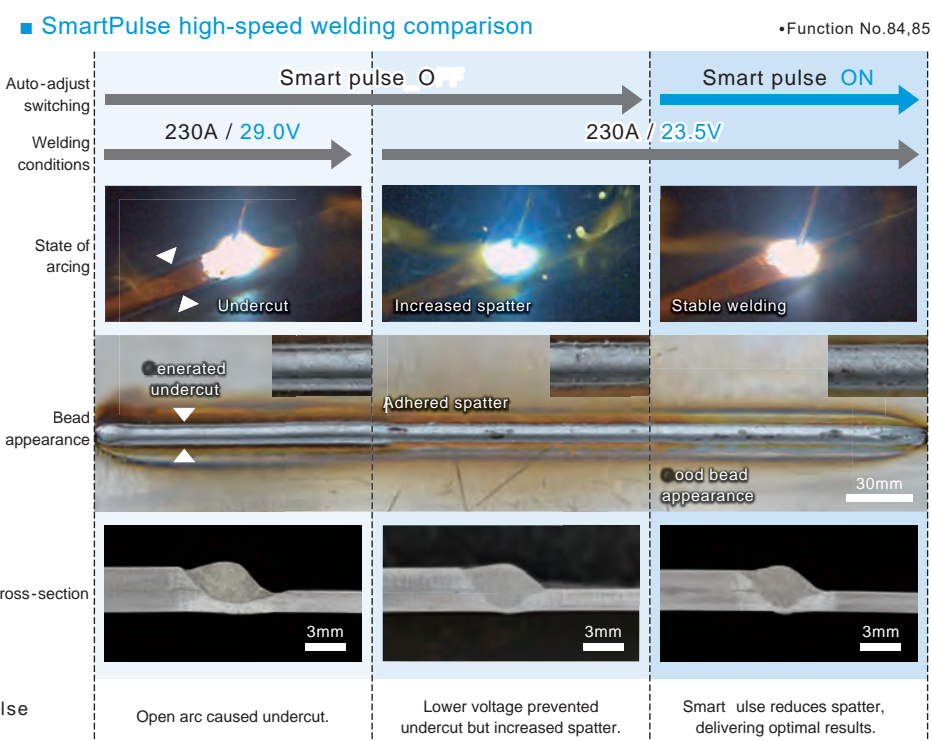
OTC DAIHEN has implemented AI-enhanced pulse welding with automatic adjustment of the welding waveform for optimal, high-speed welding.

Advantages include elimination of undercut and reduction of adhered spatter, delivering a higher quality weld with a consistent appearance.

Welding conditions

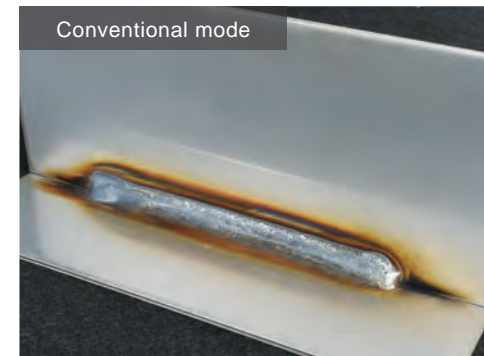
- Welding mode: Mild steel DC pulse
- Plate thickness: 1/16"
- Wire dia.: $\phi 0.045"$
- Travel speed: 60in/min
- Shielding gas: 80%Ar-20%CO₂

*1 The Rule Base is a method of processing data based on the input rules.
* Automatic machine mode of mild steel pulse is supported only.



Improved stainless steel waveform delivers beautiful bead appearance. NEW

The soft arc created by our new waveform realizes stable droplet transfer while suppressing the weld scale. Also, the short arc length improves arc position aiming and manipulation.



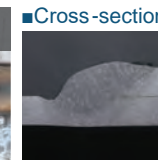
Welding conditions

- Welding current: 200A
- Arc voltage: 26.7V
- Plate thickness: 0.08
- Wire dia.: $\phi 0.045"$
- Travel speed: 40in/min
- Shielding gas: 98%Ar 2%O₂

Option

Improved support for low slag wires NEW

Low-slag wire is now supported, eliminating the unstable arc in high speed welding. This mode reduces problems such as meandering, undercut, and large spatter adhesion caused by low Si wire.



Welding conditions

- Welding current: 270A
- Arc voltage: 27.8V
- Base metal: galvanized steel 45g/m², 0.09in
- Wire diameter: $\phi 0.045in$
- Travel speed: 51.2in/min
- Shielding gas: 80%Ar+20%CO₂

Spatter adhesion and undercut occur

Good weld bead with no defects

S- /

WBII P400 WBII P400L WBII P500L

Optimum aluminum welding mode for medium thick plate NEW

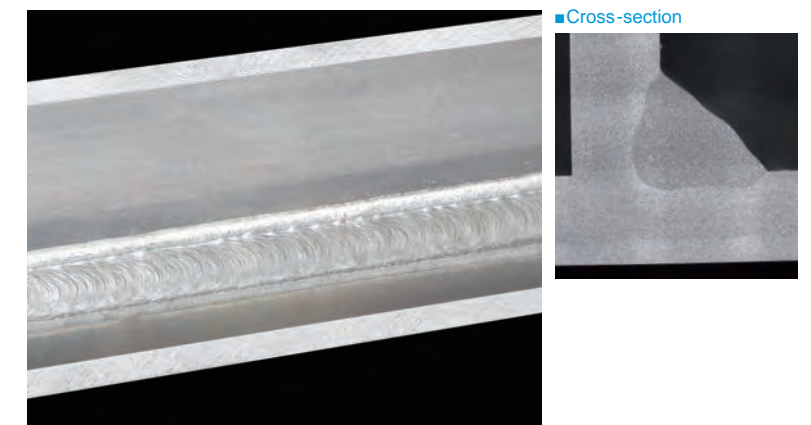
In aluminum welding in the medium and high current ranges, the arc tends to become unstable, which causes such problems such as bead meandering and poor penetration. OTC DAIHEN developed S- / is resistant to this disturbance, keeping the welding current constant for beautiful weld beads with consistent penetration.

* Applicable only to hard aluminum wire with a diameter of 1/16in

Welding conditions

- Welding current: 280A
- Plate thickness: 0.4in
- Wire: Hard aluminum, $\phi 1/16in$

- Travel speed: 16in/min
- Shielding gas: 100%Ar



CBT-EX (DC Low Spatter)

Controlled Bridge Transfer - Expanded

WBII P500L WBII P400L WBII P350L

Low-Spatter L-ode powered by Welbee's precision control

Spatter can be reduced by up to 80% in low, medium and high current ranges. Less weld spatter on the base metal means less post-weld cleanup prior to assembly or finishing. Less post-weld cleanup means more parts in less time.

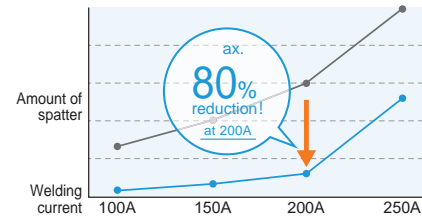
Welding conditions

- Welding current 200A • Travel speed 20 in/min
- Wire dia.: ϕ 0.045in • Shielding gas CO₂
- Welding time: 2.5min

| Welding method | Comparison of spatter during welding | Large spatter particles that have to be removed (0.5mm or larger) |
|-------------------------|--------------------------------------|---|
| CO ₂ welding | | |
| Welbee II CBT-EX | | |

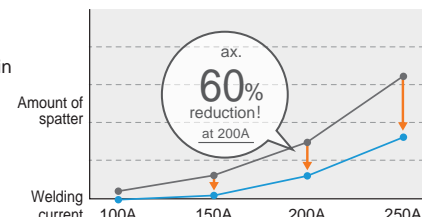
CO₂ welding

Low spatter comparable to those in A welding can be achieved even in CO₂ welding.



A welding

Spatter can be minimized in A welding.



DC welding

Common to the series

Line control for DC welding on all materials and current ranges.

Delivers uniform weld beads with consistent appearance under adverse conditions such as varying arc length and high-speed welding. Reliable results during manual, semi-automatic and automatic operation.

| | |
|----------------------------------|--|
| <p>Thin plate</p> | <p>Uniform and beautiful beads with little spatter</p> <p>Welding conditions</p> <ul style="list-style-type: none"> • Welding current 120A • Arc voltage 16.9V • Plate thickness 1/16in • Wire dia.: ϕ0.035in • Travel speed 18in/min • Shielding gas AR/CO₂ |
| <p>Medium thick plate</p> | <p>Stable arc realizes flat weld beads even at high current.</p> <p>Welding conditions</p> <ul style="list-style-type: none"> • Welding current 300A • Arc voltage: 35.0V • Plate thickness: 0.35in • Wire Mild steel flux cored ϕ0.045in • Travel speed: 14in/min • Shielding gas CO₂ |

Convenience and stability provided by extension mode

Stable and reliable results in extended applications

Welding conditions

- Welding current: 250A • Arc voltage 29.0V • Plate thickness: 1/4in
- Wire dia.: ϕ 0.045in • Travel speed 16in/min • Shielding gas CO₂

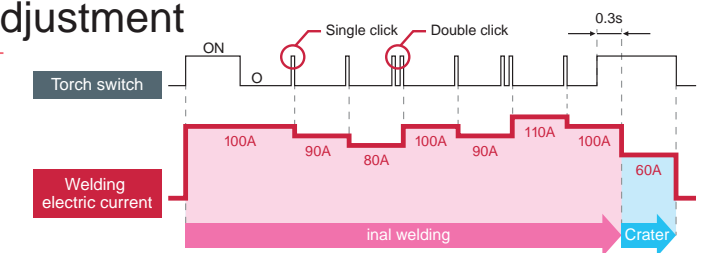
| | Standard mode | Extension mode |
|--------------------|---------------|----------------|
| Cable length 131ft | | |

Smart function

Common to the series

Torch triggered welding current adjustment

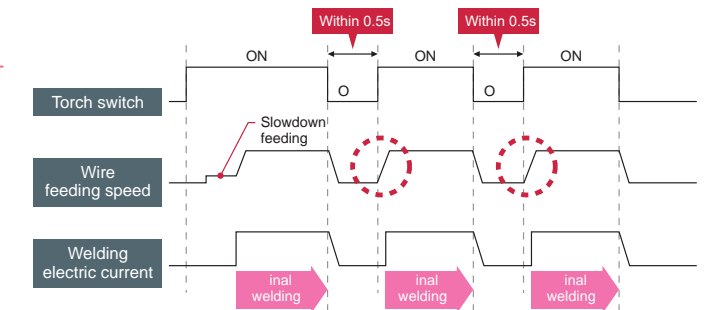
You can increase or decrease the output current by any preset amount of change by operating the torch switch single click/double click. If you want to change the input heat during welding in accordance with sheet-thickness changes, you can change the welding conditions without suspending your welding work.



* You cannot use this function when the analog remote controller is connected.

High-speed tack start

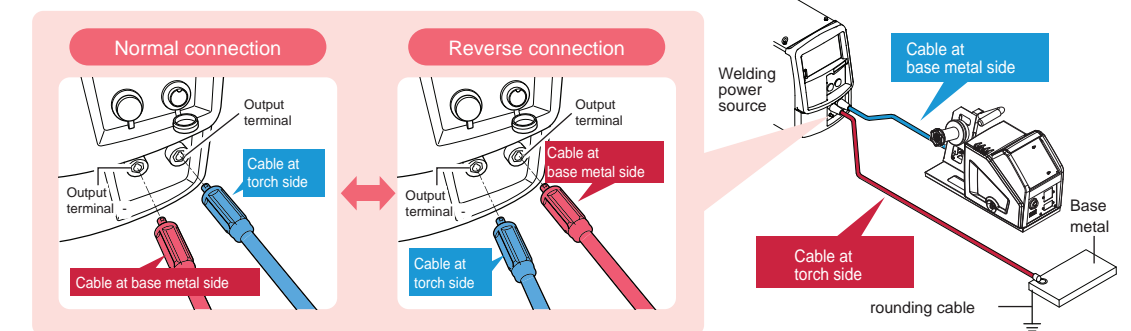
Slow wire feed can be overridden if the torch trigger is pulled within 1/2 second of previous weld, speeding up your tack welds and expanding your productive output.



Straight polarity DCEN mode

NEW

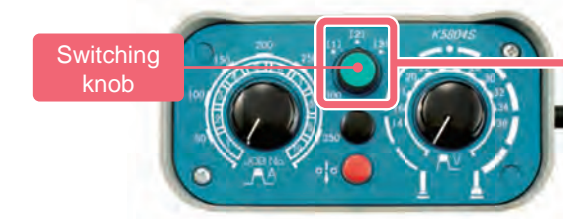
By setting the function number 38, welding can be performed with straight polarity DCEN - electrode negative, including galvanized steel welding.



Evolved multifunction remote controller

NEW

OTC DAIHEN's NEW multifunction remote controller supports selected assignment of 6 commonly used functions to the selector switch.




| 2 | Functions | Remote controller switching knob | | |
|---|--------------------------------|----------------------------------|-------------------------|--------------------|
| | | [1] | [2] | [3] |
| 1 | Crater setting | Crater O | Crater ON with pulse | Crater ON No pulse |
| 2 | as check | O | O | ON |
| 3 | Constant penetration | O | O | ON |
| 4 | Tack start | O | O | ON |
| 5 | Read out of welding conditions | O | O | ON |
| 6 | Welding process | P400L II P500L II | CBT-EX (DC low spatter) | DC pulse |
| | | P400 II | DC pulse | DC wave pulse |
| | | M350L II M350 II M500 II | CBT-EX (DC low spatter) | DC |


IoT functionality, machine-connected control and integrated quality control

C-based access to recorded welding data

With the USB port equipped as standard, various data can easily be read. By using the Smart Wave Viewer from DAIHEN website, you can easily graph the welding data on your PC.



You can easily edit and manage data by using USB.




- Welding waveform display screen
- CSV file output

| 1 | A | B | C | D |
|----|------|-----|------|-----|
| 2 | 0 | 42 | 53.8 | 1.8 |
| 4 | 100 | 0 | 25.3 | 2.1 |
| 6 | 200 | 130 | 12.3 | 2.1 |
| 8 | 300 | 166 | 11 | 2.1 |
| 10 | 400 | 132 | 13.1 | 2.1 |
| 12 | 500 | 106 | 15.4 | 2.1 |
| 14 | 600 | 100 | 16.5 | 2.1 |
| 16 | 700 | 113 | 16.5 | 2.1 |
| 18 | 800 | 11 | 14.9 | 2.1 |
| 20 | 900 | 125 | 14.2 | 2.1 |
| 22 | 1000 | 115 | 15.2 | 2.1 |
| 24 | 1100 | 125 | 14.6 | 2.1 |
| 26 | 1200 | 150 | 12.3 | 2.1 |
| 28 | 1300 | 141 | 13.4 | 2.1 |
| 30 | 1400 | 11 | 14.9 | 2.1 |

* Various software can be downloaded for free from OTC H .
<https://www.daihen.co.jp/products/welder/software/>

Access to the downloading site



- List of data that can be output
 - Simple data log Current, voltage, wire feed setting and actual measurement
 - Abnormal log Recording the past 10 abnormal codes
 - Welding conditions
 - Welding result management Weld points, Wire consumption, Total welding time, Welding monitoring, Total operating time
 - Internal function setting values

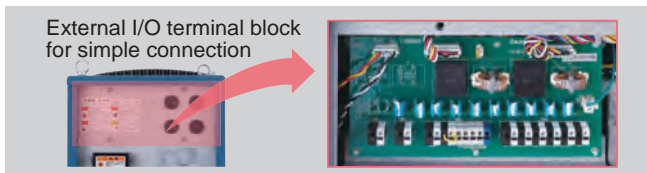
Easy connection to external devices



A lineup of interfaces are abundantly available for connecting to other robots. A wide range of options are available according to particular communication specifications.

| Connection method | Format |
|-------------------|-----------|
| Analog | I R-101WB |
| EtherNet/IP | I R-800EI |
| RO IBUS | I R-800 B |
| DeviceNet | I R-800DN |
| RO INET | I R-800 N |

Simply open the access panel on the back of the welding power source to connect easily to external equipment



Wire feeder for robot

| Wire feeder model | Wire dia. (mm) | Wire dia. (in) |
|---------------------------|--------------------------------|---|
| C RE- 42 | 0.8 , 0.9, 1.0, 1.2, 1.4 , 1.6 | 0.0315 , 0.0354, 0.0394, 0.0472, 0.0591, 0.0630 |
| Type of wire | Solid wire, Flux cored wire | |
| Wire feeding speed | m/min 22 | |
| External dimensions WxDxH | mm 195x215x235 | |
| Weight | kg No cable is included. | |

* or using the wire diameters given in parentheses, optional parts are required.

Option C-based and connected Welbee weld monitoring

Data from up to 100 welding power sources can be collectively monitored on a PC to support quality control.

Capable of checking the operating status of the welding power sources even at a remote location.

On the collected monitoring screen, you can monitor not only the operating status of each welding power source but also errors and warnings at a glance.



Visualized welding results.

Welding data can be organized in an easy-to-understand manner for each worker, work, and welding power source, which can be used for planning and reviewing the work processes.



Monitoring parameters * Check the instruction manual for details.

| | | | |
|--------------------------|-------------------------------------|--------------------------|--------------------------|
| Welding current Setting | Welding voltage Setting | Welding current measured | Welding voltage measured |
| Wire feed speed measured | Starting signal | Primary input voltage | Motor current |
| Various error codes | Power source's interior temperature | AN rotation speed | Wire feed load rate |

Access to the detailed condition of the welding power sources.

On the individual monitoring screen, welding current, arc voltage, and wire feed conditions can be checked and also welding abnormalities can be detected immediately by setting the upper and lower limits.



Quality control and traceability

Welding data is automatically graphed and the results can be checked at a glance. Welding results are stored in a database and can easily be retrieved.



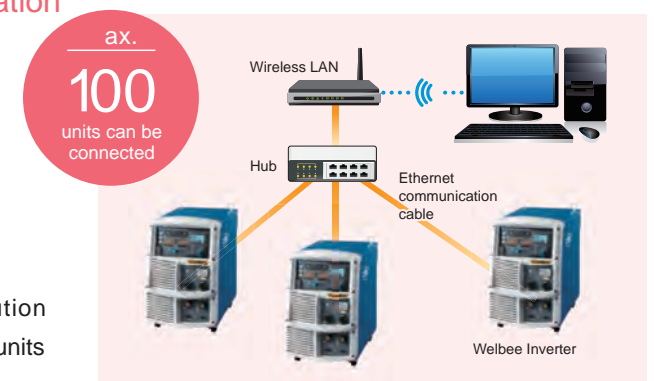
Welbee welding monitor's system configuration

Standard configuration

- Extension board kit for welding power source
- Welding monitor software for PC

Items to be prepared by customer

- PC Ethernet connectable
 - Supported OS Windows 8.1, 10
 - Required memory capacity min. 8 GB
 - Display min. 32bit color / min. 1920 x 1080 resolution
- Ethernet communication hub when connecting multiple units
- Ethernet communication cable
- Wireless LAN interface for wireless connection

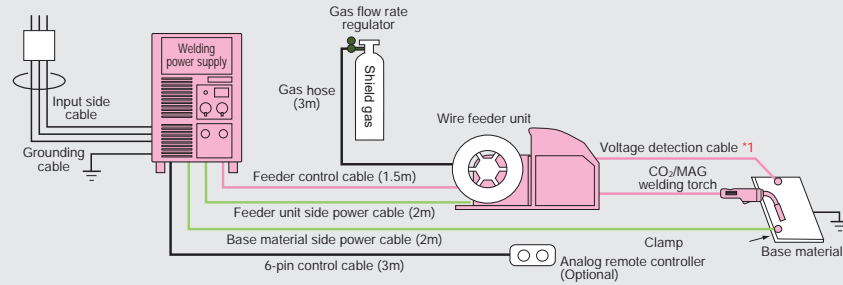


* The number of connectable devices may be limited depending on your PC and communication environment.
 * When you use the extension board kit E-2560, you can use the latest welding monitor by preparing only the PC software. - 496 -

Specification

Connection diagram

- The parts in this color are standard components. (CO₂/MAG air cooling specification)
- The parts in this color are components of WCD-300 or WCL-500 optional kits
- *1 Use the K5791G00 voltage detection cable (5m) attached to the welding power supply unit. (Only for Low spatter model)
The voltage detection cable is not necessary when you do not use the CBT-EX (low-spatter) mode.



Wire feeder with maximized safety, operability and durability

For steel and stainless steel



For aluminum



*1 For CBT-EX (DC low spatter), the voltage detection adapter (K5952E00) is required.
* When you use a pack wire, prepare the guide adapter (K5977J04).

*1 When selecting the CBT-EX mode (DC low spatter), use the voltage detection cable K5791G00 (5m) (optional) with the welding power source WB-M352L/P402L/P502L.

Standard configuration

| General brand name | Welbee Inverter M350L II | | Welbee Inverter M350 II | | Welbee Inverter M500 II | | Welbee Inverter P400 II | | | Welbee Inverter P400L II | | | Welbee Inverter P500L II | | | | |
|---------------------------|---------------------------------|-------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|--------------------------|----------------------------|---------------------------------|--------------------------|--------------------------|----------------------------|---------------------------------|-------------------------|-----------------------------------|--------------------------|----------------------------|
| Welding power source | WB-M352L | | WB-M352 | | WB-M502 | | WB-P402 | | | WB-P402L | | | WB-P502L | | | | |
| Usage | CO ₂ /MAG Air cooled | CBT-EX (DC low spatter) | CO ₂ /MAG Air cooled | CO ₂ /MAG Air cooled | CO ₂ /MAG Air cooled | CO ₂ /MAG Air cooling | Aluminum MIG, Air cooled | Aluminum MIG, Water cooled | CO ₂ /MAG Air cooled | CBT-EX (DC low spatter) | Aluminum MIG, Air cooled | Aluminum MIG, Water cooled | CO ₂ /MAG Air cooled | CBT-EX (DC low spatter) | CO ₂ /MAG Water cooled | Aluminum MIG, Air cooled | Aluminum MIG, Water cooled |
| Wire feeder | CM-743U | | CM-743U | | CM-743U | | CM-743U | | | CM-743U | | | CM-743U | | | | |
| Welding torch | BT3510-30UT (45)(60) | BT3500V-30UT *1 | BT3510-30UT (45)(60) | BT5000-30UT (45)(60) | BT5000-30UT (45)(60) | BT3510-30UT (45)(60) | BTA300-30UT (40) | BTAW400-30UT (40) | BT3510-30UT (45)(60) | BT3510V-30UT (40) *2 | BTA300-30UT (40) | BTAW400-30UT (40) | BT5000-30UT (45)(60) | BT3510V-30UT *2 | BTW500-30UT (45)(60) | BTA300-30UT (40) | BTAW500-30UT (40) |
| Powew cable | WCD-300 | | WCD-300 | | WCL-500 | | WCD-300 | | | WCD-300 | | | WCL-500 | | | | |
| Regulator/Flow meter kits | | | | | | | | | | | | | | | | | |

*1 When selecting the CBT-EX mode (DC low spatter), attach the voltage detection adapter (K5952E00) to the wire feeder CM-743

Standard Specification

| General Name | Model # | Welbee Inverter M350L II | | | | Welbee Inverter M350 II | | | | Welbee Inverter M500 II | | Welbee Inverter P400 II | | | Welbee Inverter P400L II | | | Welbee Inverter P500L II |
|------------------------------|-----------------------|------------------------------------|-----------|-------------|-----------|------------------------------------|-----------|-------------|-----------|------------------------------------|-------------|------------------------------------|-------------|-----------|------------------------------------|-------------|-----------|------------------------------------|
| Welding power Source Model | Model # | WB-M352L | | | | WB-M352 | | | | WB-M502 | | WB-P402 | | | WB-P402L | | | WB-M502 |
| Phase(s) | | Single-phase | | Three-phase | | Single-phase | | Three-phase | | Three-phase Only | | Single-phase | Three-phase | | Single-phase | Three-phase | | Three-phase Only |
| Rated input voltage | V | 208 / 230 | 460 | 208 / 230 | 460 | 208 / 230 | 460 | 208 / 230 | 460 | 460 | 208 / 230 | 460 | 208 / 230 | 460 | 208 / 230 | 208 / 230 | 460 | 460 |
| Rated Input Current | A | 51.3 | 25 | 38.5 | 19.6 | 51.3 | 25 | 38.5 | 19.6 | 31.7 | 56.2 | 30 | 54 | 26.9 | 56.2 | 54 | 26.9 | 31.6 |
| Rated Input | kVA | 11.8 | 11.5 | 15.3 | 15.6 | 11.8 | 11.5 | 15.3 | 15.6 | 25.2 | 12.3 | 12.6 | 19.7 | 20.8 | 12.3 | 19.7 | 20.8 | 25.2 |
| 100% Output Current | A | 194 | 194 | 271 | 271 | 194 | 194 | 271 | 271 | 500 | 194 (126) | 194 (126) | 310 (283) | 310 (283) | 194 (126) | 310 (283) | 310 (283) | 387 (350) |
| Rated Duty Cycle (Pulse) | % | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 100 | 60 (40) | 60 (40) | 60 (50) | 60 (50) | 60 (40) | 60 (50) | 60 (50) | 60 (80) |
| Rated Output Current (Pulse) | A | 250 | 250 | 350 | 350 | 250 | 250 | 350 | 350 | 500 | 250 (200) | 250 (200) | 400 | 400 | 250 (200) | 400 | 400 | 500 (400) |
| Rated Load Voltage | V | 26.5 | 26.5 | 31.5 | 31.5 | 26.5 | 26.5 | 31.5 | 31.5 | 39 | 24 | 24 | 34 | 34 | 24 | 34 | 34 | 39 (34) |
| Output Current Range (Pulse) | A | 30 - 250 | 30 - 250 | 30 - 350 | 30 - 350 | 30 - 250 | 30 - 250 | 30 - 350 | 30 - 350 | 30 - 500 | 30-250(200) | 30-250(200) | 30 - 400 | 30 - 400 | 30-250(200) | 30 - 400 | 30 - 400 | 30 - 500 |
| Output Voltage Range (Pulse) | V | 12 - 26.5 | 12 - 26.5 | 12 - 31.5 | 12 - 31.5 | 12 - 26.5 | 12 - 26.5 | 12 - 31.5 | 12 - 31.5 | 12 - 39 | 12 - 26.5 | 12 - 26.5 | 12 - 34 | 12 - 34 | 12 - 26.5 | 12 - 34 | 12 - 34 | 12 - 39 |
| Max no-load Voltage | V | 78 | 70 | 79 | 70 | 78 | 70 | 79 | 70 | 81 | 78 | 70 | 92 | 80 | 78 | 92 | 80 | 94 |
| Welding programs in memory | # | 100 | | | | 100 | | | | 100 | | 100 | | | 100 | | | 100 |
| External Dimensions (WxDxH) | mm (in) | 395 x 710 x 810 (15.6 x 28 x 31.9) | | | | 395 x 710 x 810 (15.6 x 28 x 31.9) | | | | 395 x 710 x 810 (15.6 x 28 x 31.9) | | 395 x 710 x 810 (15.6 x 28 x 31.9) | | | 395 x 710 x 810 (15.6 x 28 x 31.9) | | | 395 x 710 x 810 (15.6 x 28 x 31.9) |
| Mass | kg (lbs) | 85 (187.4) | | | | 85 (187.4) | | | | 77 (170) | | 80 (176.4) | | | 80 (176.4) | | | 81 (178.6) |
| Cable kit (optional) | P/N | WCD-300 | | | | WCD-300 | | | | WCL-500 | | WCD-300 | | | WCD-300 | | | WCL-500 |
| Cable size | mm ² (AWG) | 60 (2/0) | | | | 60 (2/0) | | | | 80 (4/0) | | 60 (2/0) | | | 60 (2/0) | | | 80 (4/0) |
| Grounding Cable | mm ² (AWG) | 6 or more | | | | 6 or more | | | | 10 or more | | 6 or more | | | 10 or more | | | 10 or more |

| Wire feeder | Model | CM-743U | | | | CM-743U with K5975E00 Aluminum Kit | | | |
|-----------------------------|-------|------------------------------------|--------------------------|-------------------|--------------------------|------------------------------------|------------|------------|------------|
| Applicable wire | | Solid wire Cored wire | | | | Hard aluminum Soft aluminum | | | |
| *4 Applicable wire dia. | mm | (0.8), 0.9, 1.0, 1.2, (1.4), (1.6) | | | | (0.8), 0.9, 1.0, 1.2, (1.4), (1.6) | | | |
| Wire feed speed | m/min | 22(Max) | | | | 22(Max) | | | |
| External dimensions (WxDxH) | mm | 254 x 611 x 393 | | | | 254 x 611 x 393 | | | |
| Weight | lb | 31 | | | | 31 | | | |
| Cooling system | | Air cooling | | | | Water cooling | | | |
| Welding torch | | BT3500-30UT | BT3510-30UT | BT5000-30UT | BT3510V-30 | BTW500-30 | BTA300-30 | BTAW400-30 | BTAW500-30 |
| Rated current | A | 350 | 350 | 500 | 350 | 500 | 300 | 400 | 500 |
| *4 Applicable wire dia. | mm | (0.9), (1.0), 1.2 | (0.9), (1.0), 1.2, (1.4) | (1.2), 1.4, (1.6) | (0.9), (1.0), 1.2, (1.4) | (1.2), (1.4), 1.6 | 1.2, (1.6) | 1.2, (1.6) | (1.2), 1.6 |
| Duty cycle | % | 30 | 60 | 60 | 60 | 100 | 50 | 100 | 80 |
| Cable length | m | 3, (4.5, 6) | 3, (4.5, 6) | 3, (4.5, 6) | 3, (4.5, 6) | 3, (5) | 3,(4) | 3,(4) | 3,(4) |

*3 Eyebolts are not included in the external dimensions. *4 If you use the wire diameter in parentheses, optional part required.
*5 When selecting the CBT-EX mode (DC low spatter), attach the voltage detection adapter (K5952E00) to the wire feeder CM-743.