

AUGMENTED VIRTUAL REALITY WELDING SIMULATOR

MT-413C



Specification:

- It includes welding torches for GMAW/FCAW, SMAW and GTAW and standard accessories. Ultimate simulation software license for GMAW, SMAW, FCAW-G, FCAW-S and GTAW for standard carbon steel, stainless steel and aluminum models, AWM and E-Learning (LMS) module.
- Support for positioning welding templates in different positions including 6GR.
- Developed with the most common parts in the oil and gas industry in mind.

Description:

- Augmented Virtual Reality (visual, sensory and auditory) welding simulator for the GMAW, / FCAW, SMAW and GTAW welding processes, with a computer in the form of a welding inverter and a definitive simulation software license.

Simulator specifications:

The simulator has at least the following features:

- Supply voltage: 220V/AC
- Material: carbon steel, stainless steel and aluminum
- Welding sequence: 1/2, 1/3, 1/4 bead
- Number of steps: 1, 2 and 3 (pulling and pushing)
- Bead deposition technique: straight, triangle, zig-zag, swing and circular
- Wire gauge: 0.8mm; 1.0mm; 1.2 mm
- Range of model thicknesses: at least 3, 6 and 10mm
- Screen resolution: a: HD LCD 1024 x 768 x XGA
- External screen connection available for any resolution.



CE



It includes:

- Augmented reality reading mask(s) (Two 800x600/640/480 AR helmet cameras)
- 4.8" LC HD AR vision module up to 1280x800, with ultra-low video distortion, 24-bit true color
- AWM and E-Learning module (LMS)
- electrode holder
- 1 TIG torch
- 1 MIG
- MAG torch (Gas tube, gasless tube and solid)
- Kit of at least 5 simulation parts (overlapping joints, tube-flat, tube, top, angle, top- to-top and flat) developed on the basis of models of the most common parts in the oil and gas industry
- Support for positioning and fixing the simulation parts that given welding simulation in at least positions 1F to 4F and 1G to 6G (6GR) (the most common part in the oil and gas industry)
- Welding training manual integrated into the simulator
- Router for connection to the trainer's software, with modules, records of trainees' data, their performance and classification, including remote control of the virtual room.

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INERT GAS WELDING MACHINE (MIG-MAG)

MTK-8074

Specification:

- Air-cooled torch - Appliance data
- Gas cylinder volume max. 50 liters
- Dimensions and weight: Length approx. 1030 mm, Width/depth approx. 605 mm, Height approx. 845 millimeters
- Approximate weight: 125kg
- Duty cycle: at IMAX. 40°C 60%
- Current at 60% DC 40°C: 230 A
- Current at 100% DC 40°C: 180 A Electrical data:
- 400 V supply voltage and electrical connections
- Input current 8.1 kVA Power consumption
- MIG/MAG: 8.1 kVA;
- Electrode: 12 kVA
- Current adjustment range: MIG/MAG 10 - 230 A; Electrode 20 - 230 Wire feed
- Weld able steel wires: 0.8 - 1.2 mm;
- Weld able stainless steel wires: 0.8 - 1.2 mm;
- Weld able aluminum wire 1.0 - 1.2 mm Wire feet unit: 4 rolls
- Speed: 0 - 24 m/min
- Wire feed rollers/drivers: 4 Argon/CO2 pressure reducer
- Ground cable and welding torch



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TIG WELDING MACHINE OR TIG AC/DC INVERTER – ELECTRODE

MT-19025J

Specification:

- Duty cycle at I_{max}. 40°C: electrode 40%, in I_{max}. 40°C TIG DC 40 % (I_{max}. 250A: electrode 250A in I_{max} TIG DC 250A)
Current at 100% DC 40°C electrode: 130 A,
- Current at 100% DC 40°C TIG DC: 130 A,
- Electrical data: - Supply voltage: 230 V
- Mains frequency: 50 Hz
- Electrical connections: TIG input current: A
- Total output: 19.5 A
- Total output power: 6.6 KVA
- Total power: TIG: 4.5 kVA
- Weld able electrodes: 1.6 - 4.0 mm

Power consumption:

- Electrode: 6.6 kVA TIG DC: 4.5 kVA,

Adjustment range:

- Electrode: 10 - 200 A
- TIG DC: 10 - 200 A,

Cables:

- Welding cable: 3m x 16mm² with electrode holder; (or 3m long and 16mm² section) Grounding cable 3m x 16mm² with 200 A grounding terminal.
- Carrying case (Same comment as above).



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TIG AC/DC INVERTER

MT-564W

Specification:

- Device data
- Pulse frequency: 0.5 - 1000 Hz, ignition High frequency, air/water torch cooling
- Dimensions (approximate) and weights: Length: 580 mm; Width/depth: 190 mm; Height: 350 mm; Weight: 15.5 kg
- Duty cycle, at I_{max}. 40°C/TIG/DC/60%, at I_{max}. 40°C/Electrode/35%, Current at 100% DC/40°C/TIG/DC/155 A; Current at 100% DC/40°C/Electrode/110 A,



Electrical data:

- Input current TIG AC/(110V/230V) - 31/20.1 A
- TIG input current DC/(110V/230V) - 32/22.1 A
- Input current Electrode AC/(110V/230V) - 36/28.4 A
- Input current DC electrode/(110V/230V) 40/32,8 - A Supply voltage: 90 - 275 V
- Mains frequency: 50 Hz, Weld able electrodes: 1.6 - 4.0 mm,
- Power consumption: TIG DC - 5 kVA; Electrode - 7.3 kVA
- Adjustment range: TIG DC (5 - 200 A) and Electrode (5 - 200 A)
- Other accessories: 4 m gas hose incl; quick connector; welding torch; 2 mm, 4 mm and 6 mm TIG burner; pressure reducer; XXL W welding mask; 3 m x 25 mm² earth cable with earth terminal.

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TIG INVERTER WEAR PARTS KIT

MT-419P

Specification:

- Nozzle nut,
- Gas nozzle: sizes 4, 5, 6 and 7
- Tungsten electrode W green and Wc20 gray (10 of each)



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AUTOMATIC WELDING HELMET WITH CASSETTE FILTER

MT-159F

Specification:

- Switching response time: 0.3 ms Brightness time: 250 - 800 ms
- UV/IR protection
- Protection level: 16 (permanent) Shade protection level: 4 Solar cells
- Battery type: Replaceable lithium battery (CR2450), Number of sensors 4
- Display window dimensions: Width - 98 mm; Height - 43 mm
- Cassette length 122 mm, Cassette width 125 mm, Cassette height 9 mm



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EXHAUST FAN

MT-966A

Specification:

- Average smoke/dust volumes Exhaust allowing 360-degree mobility
- Three-meter extraction arm for safe operation
- Safe operation due to filter monitoring and filter replacement via a maintenance port
- Dimensions and weight: Length approx. - 785 mm; Width/depth approx. - 730 mm; Height approx. - 950 mm;
- Weight approx. - 106 kg
- Electrical data: Drive motor power - 1.1 kW;
- Supply voltage - 400 V;
- Mains frequency - 50 Hz;
- Extraction performance 1100 m³/h;
- Extraction arm type - hinged sleeve; 2-stage filtration, with pre-filter and main filter;
- Area approx. - 17 m²;
- Sound pressure level 70db(A)



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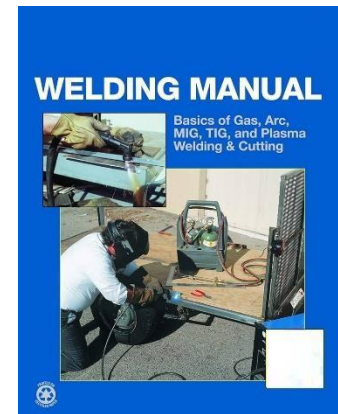
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BIBLIOGRAPHY FOR WELDING

MT-300G

Specification:

- Set of technical welding books on the following subjects:
- Welding Technology
- Manual Welding Processes Welding
- MIG-MAG Welding Manual



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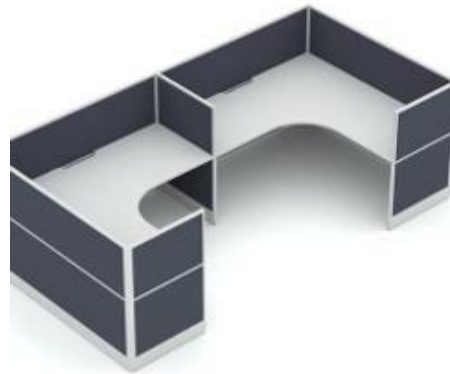


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INSTRUCTOR'S WORKSTATION

MT-814Q



Specification:

- 1 x aluminum multimedia table with a "C" shaped base with approximate dimensions of 1600x800x760mm (WxDxH)
- It is multi-layered, well-compacted fine chipboard in accordance
- It is adjustable in height and have extruded aluminum profile legs with an epoxy resin coating.
- 1 padded swivel chair with armrests, adjustable to any height by means of a gas lift column.

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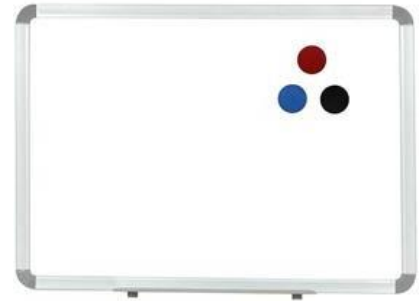


CE



MAGNETIC BOARD

MT-345E



Specification:

- White color and lacquered steel surface,
- Grey aluminum frame, 1800 x 1200 mm,
- With a set of 10 markers of each color (blue, red, black) and an eraser.

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LABORATORY ACCESSORY KIT

MT-659G

Specification:

- 1 bin 20L - black in stainless steel or aluminum
- 1 60L waste bin - silver color - stainless steel, with dimensions: approx. 770 x 340 x 260 millimeters
- 1 key cabinet to store 36 mixed keys for maintenance work
- 1 multiple socket outlet, with LED power switch.



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WALL-MOUNTED FIRST AID KIT MT-614C

Specification:

Composed of:

- 2 Bandages 40 x 60 cm,
- 2 Bandages 60 x 80 cm,
- 6 packs of Aluderm compresses, medium size, 4 packs of Aluderm compresses, large size, 6 Wound Stop bandages, 4 m x 6 cm,
- 6 Wound Stop bandages, 4 m x 8 cm,
- 2 sets of 4 eye pads, 1 variety of Band-Aids,
- 2 sets of 4 gloves, large, vinyl,
- 1 Set of instructions



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INTERACTIVE WHITEBOARD

MT-478D

Specification:

- 86 Inches, 20 Touch Points Android
- 11.0+ Windows10 (Off)
- Quad-Code Android Cpu Processor True Uhd 4k 3840*2160 Pixels
- Integrated All-Channel Annotation Software Two Secure Handles For Easy Installation Triple- Section Crossover Speaker With 30w Anti-Glare Glass To Protect Eyes
- With Wall Bracket
- Pc Ops With Ssd I5--10400/4g/128g



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