# CIGWELD WeldSkill 180 – Inverter Welder (STICK/MMA & LIFT-TIG)

Single-phase 240 V inverter welder, 15 A plug. Per CIGWELD: duty cycle STICK 180 A @ 20%, TIG 180 A @ 40%; generator requirement 7.5 kVA. Supplied with 4 m electrode holder and work leads.

## PRE-START CHECKS

- Electrical test-and-tag label present and in date (AS/NZS 3760); plug, lead and housing undamaged.
- Electrode holder, work clamp, leads and Dinse connectors undamaged, insulated and tight.
- Machine ventilation openings clear; case undamaged.
- Work area clear of flammables (or covered); fire extinguisher at hand; hot-work permit if required on site.
- Adequate ventilation or fume extraction available.

## HOW TO OPERATE – BASIC STEPS

1. With the machine OFF, connect electrode holder and work lead to the terminals per the electrode polarity (see manual/electrode packet).
2. Attach the work clamp to clean bare metal close to the weld.
3. Plug into a 15 A outlet (no 10 A adaptors) and switch on; select STICK or LIFT-TIG mode and set current to suit the electrode/material.
4. Strike the arc (STICK: scratch/tap; LIFT-TIG: touch and lift). Observe duty cycle – if the thermal overload trips, leave the machine on to cool.
5. Switch off, remove electrode from holder and let work cool before handling.

## KEY HAZARDS

- Electric shock – never touch electrode or live parts; keep dry; don't weld standing in water.
- Arc radiation (eye "flash" and skin burns) – screen others.
- Welding fumes (carcinogenic) – use local exhaust ventilation and/or RPE.
- Burns, sparks, fire (hot work), gas cylinder hazards if TIG.

## REQUIRED PPE

- Welding helmet with correct shade filter, leather welding gloves, flame-resistant clothing (no synthetics), leather boots, safety glasses under the helmet; RPE for fumes as required.

## REFUELLING / POWER / CHARGING

- Mains 240 V 15 A single-phase via RCD-protected outlet. If using a generator, it must be at least 7.5 kVA per CIGWELD.

## STORAGE & RETURN

- Switch off and unplug; allow to cool. Coil leads neatly; return in the carry case with all leads and holder.
- Return with all accessories supplied. Report any damage, fault or near-miss at return – do not attempt repairs.

## MANUFACTURER MANUAL & SDS

- **Manual:** CIGWELD WeldSkill 180 Operating Manual: cigweld.com.au – WeldSkill 180 Operating Manual (PDF)
- **SDS:** No SDS for the machine. Obtain the SDS for the electrodes/filler and shielding gas you use from their supplier (see packaging).

**Licence / competency:** No licence required in WA for welding, but the operator must be trained and competent; hot-work and fume controls under the WHS (General) Regulations 2022 (WA) apply.

**EMERGENCY: call 000** (Police/Fire/Ambulance) • Poisons Information 13 11 26 • Breakdown or help: see the Contact page at foothillshire.com.au • Site first aider / supervisor: _____

**IMPORTANT – READ BEFORE USE.** This sheet is a summary only and does not replace the manufacturer's operator manual. The hirer must read, understand and follow the manufacturer's manual and all warning labels before use, and must ensure every operator is trained, competent and – where required – licensed for this equipment and task, as required by the Work Health and Safety Act 2020 (WA) and the Work Health and Safety (General) Regulations 2022 (WA). Do not use equipment that is damaged, untagged or out of inspection date – stop and contact Foothills Hire. Foothills Hire is a business name held by Foothills Industries Group Pty Ltd, ABN 38 688 848 302.