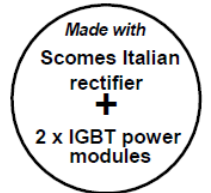
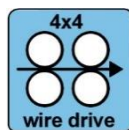
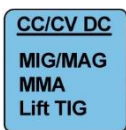


300A-500A Compact MIG - Industrial – Ci Pro models

*Exceptional welding performance yet perfectly simple to use & operate.
Built to be rugged & reliable in industry, with a 25+ year life expectancy.*

- 3 phase 400V or 230V single phase.
- Air cooled or water cooled.

Superb performance with all materials, steel,
Stainless steels, flux cored, metal cored,
hardox, aluminium & alloys.



Key features of all models.

- ✓ Infinitely variable weld power from 20A to max power with absolute precision.
- ✓ Digital displays show set values prior to welding & precise values when welding.
- ✓ Super smooth low spatter MIG welding with perfect welds & instant arc starts without popping.
- ✓ Unique DAP control allows operator full control over welding characteristics from CV through to CC.
- ✓ Infinitely variable inductance (DAP control) fine tune the arc to your exact requirement.
- ✓ Reversible polarity, 2T/4T function, adjustable burnback
- ✓ Auto compensation for extension cables up to 100M & voltage fluctuations etc.
- ✓ Generator friendly with built in protection from over & under voltage, over temp, over current, WC fault etc.
- ✓ High efficiency design, 15/19W standby + fan on demand reduces running costs & helps the environment.
- ✓ Save £100's each year on running costs compared to older transformer MIG.
- ✓ High duty cycle - 60% to keep you welding all day long.
- ✓ Rugged case design with galvanised chassis & front panel bash protection.
- ✓ Built using simple reliable technology - minimum parts = longest life & easy servability.



Models & basic specifications

3 phase 400V models	Output range	Duty cycle @ 40C	Rec fuse 'D' type	Min generator size for 100% duty rating	Idle power	Max OCV	Weight approx..
Ci 303 pro	20-330A	300A@60%, 230A@100%	16A	6.5KVA	19W	70V	51kg
Ci 403 pro	20-430A	380A@60%, 295A@100%	16/20A	10KVA	19W	70V	56kg
Ci 503 pro	30-530A	480A@60%, 370A@100%	20/32A	15KVA	19W	75V	61kg

1 phase 230V models	Output range	Duty cycle @ 40C	Rec fuse 'D' type	Min generator size for 100% duty rating	Idle power	Max OCV	Weight approx..
Ci 301 pro	20-330A	300@60%, 230A@100%	32A	7KVA	15W	70V	53kg
Ci 401 pro	20-430A	380@60%, 295A@100%	32/45A	10KVA	15W	70V	57kg
Ci 501 pro	30-530A	480@60%, 370A@100%	45/63A	16KVA	15W	75V	63kg

PTO for more information.

We have applied 40 years engineering expertise to give you tough, reliable welding machines built for a very long life. No microprocessor or over complex circuitry is fitted. A cooling chamber is used to prevent ingress of debris to the PCB. We don't parallel 20 or 30 IGBTs we fit only **2 IGBT power modules & a traditional style SCOMES Italian rectifier for the output circuit** – minimum parts & maximum reliability! Mechanically these are also just as rugged. Built on a galvanised steel chassis with heavy duty wheels & castors. Front panel bash protection is provided by 100kg rated outer handles.

TECARC Ci models are simpler to use than an old style transformer MIG, with infinitely variable welding volts & amps controls. just one knob to set the welding power & another to set wire speed. A digital meter shows set welding power prior to welding, with exact values shown during welding. This can toggle between welding volts & welding current.
All can be easily calibrated for welding compliance with BS EN IEC60974-14 & BS EN1090.

Despite the simplicity we have included features to give you superb MIG welding characteristics, with low spatter, instant arc starting (no popping or delays). The DAP knob gives complete control over the output inductance & arc characteristics, from a soft warmer arc with almost no spatter to a colder fast arc where it's possible to plough in huge amounts of wire. Ci models have our F44 wire drive system, this comprises a Swedish made high torque motor & a tough 4 roll wire drive plate in cast aluminium with all metal gears & rollers. Guaranteed to provide consistent hour after hour reliable welding every day. In addition, you get superb super smooth welding performance on MMA stick welding. The arc force can be adjusted as needed, built in hot start & anti stick down makes these a pleasure to use. Plug in one of our TIG torches & your TIG welding. Full on/off control & gas is via the torch switch. Lift arc starting current is set using the DAP control. Super smooth TIG welding from 20A upwards, gas post flow time can be adjusted up to max 10 seconds if needed.

For all welding processes the polarity can be swapped in seconds if needed.

We make everything we can 'in house' including inverter transformers, inductors, coils & all PCBs, we even draw our own copper litz wire. From a serviceability point our machines are simple, no need for an Electronic Degree! these can be maintained by any competent welding service Technician. In fact, we can diagnose almost any issue over the phone in minutes with any person able to use a multi-meter. Welding equipment is never used in perfect conditions, damp, dirty workshops are the norm! Many machines fail due to these conditions, particularly low-cost imports. Good US or EU made machines should give you a far greater lifespan. Over the years we have seen almost every fault possible; we know what works & lasts well. When you buy a TECARC MIG you can be sure it will perform superbly & last a very long time.

Main options & accessories.

Input voltage, 315V, 440V, 480V, 525V	Longer cables on input or earth.	350A & 450A models on request.	Pulse MIG model option	Calibration certificate to BS EN IEC60974-14
MIG torches air & water cooled 	Spool gun torches 	Push pull torches, air & water cooled. 	TIG torches, air & water cooled 	MMA torch leads up to 50M 

Water cooling – super efficiency WC can be specified for 400A & 500A models.

Up to 2KW of torch cooling capacity but consuming less than 100W of power means class leading performance, typically 4 times as efficient as most competitors & also nearly silent. We include a torch protection circuit & adjustable post running time. Water cooling can be switched off easily if using an air cooled torch.

Power source case size 330Wx550Hx620L (with wheels & gas bottle tray fitted overall 460Wx680Hx840L)
Input cable & earth lead are 3M standard.
Compliance with BS IEC60974-1, WEE/HD0071UZ, EU2019/1784, CE & UKCA marked.
Electrical efficiency 86% for 3 phase, 84% 1 phase.

**Our long term warranty & back up – 3 year warranty + 5 years on main transformer & all coils.
100% spares availability & service support for a minimum of 20 years from purchase.
'Invest in the best' quality made British welding equipment**