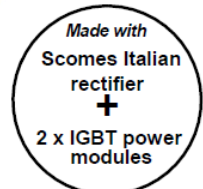
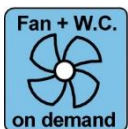
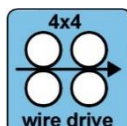
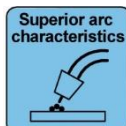
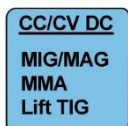


300A-500A industrial SWF MIG range – Si Pro models

*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, 19/22W idle + fan & WC pump 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.
- ✓ S44 wire feeder 4x4 drive, tough & rugged design.
- ✓ Wire feeder display holds welding values after finish of weld.
- ✓ Rugged power source case design with galvanised chassis & front panel bash protection.
- ✓ Built using simple reliable technology - minimum parts = longest life & best servability.

✓ Reasonable purchase cost ✓ Lower running costs ✓ Long life ✓ joy to use

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 standard on both the power source & wire feeders. Interconnection cables are sheathed in a resistant rubber cover; a cable clamp holds the interconnectors at the rear of the feeder so it can be dragged across workshop floors without pulling cables out. Interconnector cables can exit the power source at the front panel for maximum reach or the rear panel for neatness, a storage compartment at the left side can hold up to 5M of excess cable length.

TEC ARC Si models are simpler to use than an old style transformer MIG, with welding volts & amps controls on the wire feeder. just one knob to set the welding power & another to set wire speed. A dual display digital meter shows set welding power prior to welding, with exact values shown during welding. The actual welding values are displayed for 3 seconds after welding finishes. **All models & feeders can be easily calibrated for welding compliance with BS EN 60974-14 & 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 infinite 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. The S44 & all other feeder options have a geared 4 roll wire drive & Swedish made high torque motor, this ensures consistent hour after hour reliable welding.

In addition, you get superb super smooth welding performance on MMA stick welding. The arc force level 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.

For all welding processes the polarity can be reversed 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 TEC ARC MIG you can be sure it will perform superbly & last a very long time.

Models & basic specifications

3 phase 400V models	Output range	Duty cycle @ 40C	Rec fuse 'D' type	Min generator size for 100% duty rating	Max OCV	Idle power	Power source weight apx.
Si 303 pro	20-330A	300A@60%, 230A@100%	16A	6.5KVA	70V	22W	52kg
Si 403 pro	20-430A	380A@60%, 295A@100%	16/20A	10KVA	70V	22W	57kg
Si 503 pro	30-530A	480A@60%, 370A@100%	20/32A	15KVA	75V	22W	62kg

1 phase 230V models	Output range	Duty cycle @ 40C	Rec fuse 'D' type	Min generator size for 100% duty rating	Max OCV	Idle power	Power source weight apx.
Si 301 pro	20-330A	300@60%, 230A@100%	32A	7KVA	70V	19W	54kg
Si 401 pro	20-430A	380@60%, 295A@100%	32/45A	10KVA	70V	19W	58kg
Si 501 pro	30-530A	480@60%, 370A@100%	45/63A	16KVA	75V	19W	64kg

Power source case size 330Wx550Hx620L (with wheels & gas bottle tray fitted overall 460Wx680Hx840L)

Input cable, earth lead & interconnection cables are all 3M standard.

Compliance with BS IEC60974-1, WEE/HD0071UZ, EU2019/1784, CE & UKCA marked

Electrical efficiency – 86% 3 phase models, 84% single phase models

Water cooling – super efficiency WC can be specified for Si 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.

S44 wire feeder - rugged, ultra-compact feeder built on a 2.5mm galvanised steel chassis.

Fitted with a spool cover, swivel kit & castors as standard. An ergonomically designed handle is fitted to allow weight balancing of wire spool for easy transportation. The interconnection cables are in a tough rubber sheath & are secured with a metal clamp to prevent pull out. Double digital displays on the S44 wire feeder show set values & actual values whilst welding & holds these for 3 secs after welding. Interconnection cables up to 25M can be supplied.

PTO for options & accessories.

Main options & accessories.

Wire feeder – 3 options, see below.	Interconnection cables to 25M.	Castors under wire feeder.	Outriggers to push castors wider.	Swivel kit under wire feeder.
Input voltage, 315V, 440V, 480V, 525V	Zipper cover on intercons instead of rubber sheath.	Longer cables on input or earth.	350A & 450A models on request.	Pulse MIG model option
Calibration certificate to BS EN IEC60974-14 Compliance with EN1090	MIG torches air & water cooled 	Push pull & spool gun torches. 	TIG torches 	MMA torch leads 

Wire feeder comparison chart

MIG-FEED 44
Optional wire feeder.
Shown with castors fitted.



S44 standard wire feeder
Shown with castors & outriggers fitted.



SITE-FEED 44
Optional suitcase wire feeder



Note: all wire feeders offer the same functions and welding performance.

Wire feeder	MIGFEED 44	S44 (standard supply feeder)	SITEFEED 44
Main features	Our most rugged wire feeder, ultra tough front crash protection & extra tough clamp system for interconnection cables at rear. All controls & dual digital display are on the front panel.	Compact & tough wire feeder, with front control crash protection & rear interconnection clamp. Easy to carry. A & Volts controls & dual digital display on front, 2T/4T, inch & burnback controls inside door.	Suitcase style with sealed door & best portability. Front crash protection. Interconnections clamped well at rear. Very tough rugged case. A & Volts controls & dual digital display on front, 2T/4T, inch & burnback controls inside door.
Best for	Use on workshop floor in heavy industry.	All round use. Use on top of power source, on workshop floor or on a boom.	All harsh conditions such as construction sites, offshore etc Easiest feeder to carry.
Wire drive motor & feed system	Swedish made 24V high torque motor + 4 roll F44 drive	Swedish made 24V high torque motor + 4 roll F44 drive	Swedish made 24V high torque motor + 4 roll F44 drive
Option for swivel kit to mount on top of power source.	Yes but not preferred.	Yes	No
Option for castors fitted	Yes 50mm or 75mm with outriggers.	Yes 50mm or 75mm with outriggers	No
Option for castor outriggers	Yes – preferred for best stability	Yes – preferred for best stability	No
Option to mount on boom	Yes	Yes	No
Option for different wire drive	Yes, F4, F40, F400 etc	No	Some possible
Weight approx.	16kg	13kg	11kg
Size in mm, including spool cover, excluding castors	250W x 680L x 415H	210W x 550L x 415H	210W x 550L x 420H

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