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SEMIAUTOMATIC COMPACT WELDING MACHINES WITH STEP ADJUSTMENT

A series of industrial semiautomatic welding equipment with built-in wire feeder, suitable for professional and industrial applications.

COMPACT power sources, in their innovative and user friendly design, ensure excellent welding characteristics on any material, aluminium and stainless steel included, by granting a very stable arc in any welding position. Robust and easy-to-use, COMPACT power sources are suitable to be used in industry, fabrication work, car body repair, agriculture and maintenance.

COMPACT SYN

COMPACT SYN power sources represent an evolution towards the simplification process of the welding

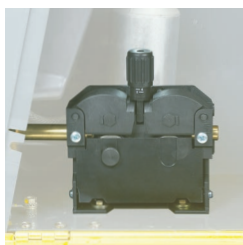
operations by allowing, in a user friendly way, also non expert users to very easily adjust the welding parameters. Equipped with an innovative synergic control, based on the most modern microprocessor digital technology, this series of machines has got several pre-set welding programs which, depending on used material, gas and wire diameter, will automatically select the best parameters according to the preset welding voltage.

The synergic function may be easily excluded by changing the way of setting of the welding parameters like in traditional MIG's. Depending on used material thickness, an easy-to-read table shows in which position to set both commutator switches to automatically obtain the best welding result.

- QBS Feeding Motor Quick Brake System for constant and repeated arc striking
- Arc striking always precise thanks to the digital control
- Excellent MIG/MAG welding characteristics on any material and with any gas
- Metallic main structure with shockproof fibre compound front panel
- Control panel protected against accidental hits
- Robust handle integrated into the chassis for easy manoeuvrability
- Integrated cylinder carriage and robust wheels for an easy manoeuvrability
- Double inductance connection for a better welding pool in any position (COMPACT 364 - 410 and COMPACT 3600 - 4100 SYN)



COMPACT 240M - 270 - 310



COMPACT 364 - 410
COMPACT SYN 3100 - 3600 - 4100



- Large inner lodging to easily accommodate also metallic coils (300mm Ø max.)
- Professional feeding system to ensure a precise and constant wire feeding

COMPACT

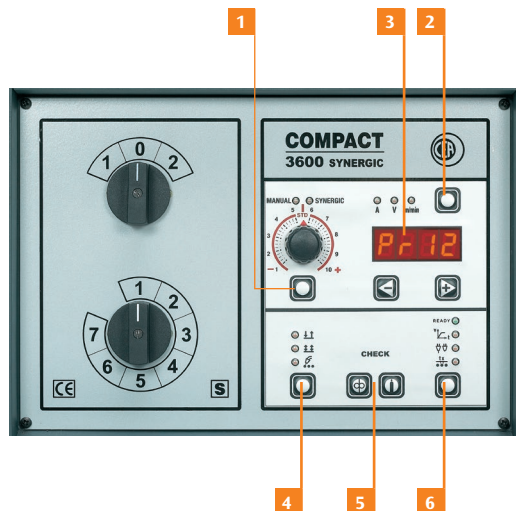


- Mains switch and welding voltage range switch (COMPACT 364 - 410 and COMPACT 3600 SYN COMPACT 4100 SYN)
- Voltage adjustment commutator switch
- Voltage fine adjustment switch (COMPACT 364 - 410 and COMPACT 3600 SYN COMPACT 4100 SYN)
- 2 - 4 time mode selector switch
- Spot timer
- Welding wire burnback adjustment
- Motor ramp adjustment for a precise arc striking





COMPACT SYN



CONTROL PANEL

1. Welding “process” selector: Manual / Synergic:

- Synergic - best welding parameters are adjusted in a synergic way according to the chosen program
- Manual - the panel potentiometer adjusts the wire speed like in the traditional equipment

2. “Display” selector Voltmeter/Ammeter • Wire speed

3. Digital display to show preset welding programs and also acting as a Voltmeter/ Ammeter with wire speed display and Hold Function of the last read value

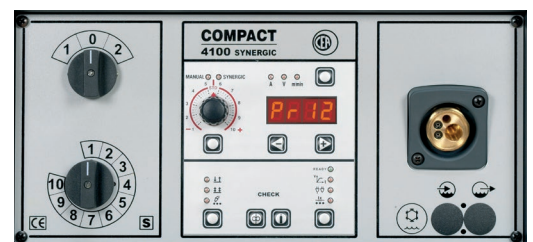
4. Welding “mode” selector: 2/4 Stroke • Spotting

5. Selector: Gas Purge • Wire Inch

6. Adjustment” selector: Motor Ramp • Burn-back • Spot Timer

ENERGY SAVING (COMPACT 4100 SYN)

The built-in Energy Saving function, integrated in COMPACT 4100 SYN, activates both the power source fan motor and the torch water cooling only when necessary, thus obtaining a significant energy saving, and ensuring less maintenance for the power source, thanks to reduced airborne contaminants.



TECHNICAL DATA		COMPACT				
		240M	270	310	364	410
Single phase input 50/60 Hz	V	230	---	---	---	---
Three phase input 50/60 Hz	V	---	230/400	230/400	230/400	230/400
Input Power @ I ₂ Max	kVA	11,9	12,0	13,3	17,3	18,5
Delayed Fuse (I ₂ @ 60%)	A	25	16/10	25/16	25/20	35/20
Power Factor / cos φ		0,96	0,96	0,96	0,96	0,96
Efficiency Degree		0,58	0,67	0,70	0,68	0,77
Open circuit voltage	V	22 - 50	17 - 38	18 - 43,5	18,5 - 45	20 - 44
Adjustment positions	N°	7	10	10	14	20
Current range	A	50 - 250	25 - 250	30 - 300	45 - 350	60 - 400
Duty cycle at (40°C)	A 100%	110	140	170	200	240
	A 60%	150	180	225	260	300
	A 35%	200	250	300	350	400
	A 20%	250	---	---	---	---
Wires	Ø mm	0,6 - 1,2	0,6 - 1,2	0,6 - 1,2	0,6 - 1,2	0,6 - 1,6
Standards		EN 60974-1 • EN 60974-5 • EN 60974-10 •				
Protection Class	IP	23 S	23 S	23 S	23 S	23 S
Dimensions	↗ mm	860	860	860	860	1060
	→ mm	540	540	540	540	600
	↑ mm	790	790	790	790	780
Weight	kg	59	67	70	83	109

TECHNICAL DATA		COMPACT		
		3100 SYN	3600 SYN	4100 SYN
Three phase input 50/60 Hz	V	230/400	230/400	230/400
Input Power @ I ₂ Max	kVA	13,3	17,3	18,5
Delayed Fuse (I ₂ @ 60%)	A	25/16	25/20	35/20
Power Factor / cos φ		0,96	0,96	0,96
Efficiency Degree		0,70	0,68	0,77
Open circuit voltage	V	18 - 43,5	18,5 - 45	20 - 44
Adjustment positions	N°	10	14	20
Current range	A	30 - 300	45 - 350	60 - 400
Duty cycle at (40°C)	A 100%	170	200	240
	A 60%	225	260	300
	A 35%	300	350	400
Wires	Ø mm	0,6 - 1,2	0,6 - 1,2	0,6 - 1,6
Standards		EN 60974-1 • EN 60974-5 • EN 60974-10 •		
Protection Class	IP	23 S	23 S	23 S
Dimensions	↗ mm	860	860	1060
	→ mm	540	540	600
	↑ mm	790	790	780
Weight	kg	71	83	110



ACCESSORIES

- IR 14 water cooling equipment (COMPACT 410 and COMPACT 4100 SYN)

Other voltages available on request

These power sources are built for industrial environment use. EMC (CISPR 11): class A

