



SUPERCOMBINATA SC1 40/1

PORTABLE LINE BORING AND ROTARY WELDING MACHINE

(from Ø 42 mm to Ø 400 mm)

The **SUPERCOMBINATA** series for Line Boring and Overlay Welding have been manufactured in order to respond to the ever increasing demand for on-site machining and welding repairs within the mining and heavy plant sectors.

Our Line Boring Machines are extremely versatile, in respect to conventional machines, in reducing downtime and labour costs.

Due to the machines' portability, repairs can be carried out on site, thus eliminating the need to transport heavy plant equipment back to the workshop. The model **SUPERCOMBINATA SC1 40/1** has a **1800W - 4 geared motor** and its working range is from **Ø 42 mm to Ø 400 mm**. By means of extra equipment the diameter range can be increased to **Ø 600 mm or reduced down to Ø 22 mm**.

Furthermore the **SUPERCOMBINATA SC1 40/1** can be equipped with additional accessories to make the following applications:

- **FACING**
- **BORING**
- **MILLING**
- **THREADING**
- **FLANGE FACING**
- **SEEGER CIRCLIPS**

Elsa's range of Line Boring & Rotary Welding Machines are compatible with any MIG/MAG power source with an Euro connection.

EXTRA KITS

Code	Description
Kit for Line Boring	
KEP00187	Ø 22 mm - Ø 50 mm
KEP00188	Ø 32 mm - Ø 100 mm
Kit for Line Boring and Overlay Welding	
KED00180	Ø 400 A 600 mm
Kit allows the end user to Flange Face and create Circlip Grooves	
KES00186	Ø 48 mm - Ø 255 mm
KES00200	Ø 56 mm - Ø 400 mm
Kit for Threading	
KFL00928	Ø 120 mm - Ø 350 mm

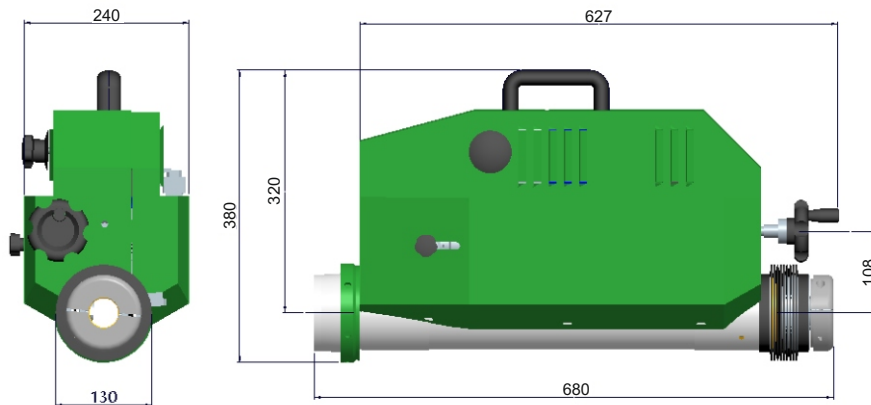
ACCESSORIES

Code	Description
AE000487	JOINT FOR BORING BAR (A) Ø 40 mm
AE000448	JOINT FOR BORING BAR (B) Ø 40 mm
AE030015	SISTEMA CAM
AE003017	BORING BAR Ø 40 X 3000 mm
SG00123	TOOL HOLDER RIGHT Ø 12x40 mm
SG00102	TOOL HOLDER LEFT Ø 12x100 mm
SG00127	TERMINAL LAUNCH min. Ø30 mm max. Ø50 mm
COT90201	LONG CONTACT TIP Ø 1,0 mm
COT90202	SHORT CONTACT TIP Ø 1,0 mm

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PORTABLE LINE BORING AND ROTARY WELDING MACHINE

(from Ø 42 mm to Ø 400 mm)



- Geared transmission
- Permanent lubrication
- Synchronous feed & rotation motion enables a smoother rotary welding mode
- Conical supports
- Telescopic welding torch
- 110 V power supply also available on request

TECHNICAL DATA SHEET

Diameters:

BORING BAR DIAMETER	mm Ø 40
BORING BAR LENGTH	mm 2200
IN LINE BORING	mm Ø 42 - Ø 400
EXTERNAL BORING	Kit optional
INTERNAL WELDING	mm Ø 42 - Ø 400
EXTERNAL WELDING	mm Ø 42 - Ø 400
DRILLING	mm Ø 10 - Ø 45
TAPPING	mm Ø 10 - Ø 45
THREADING	Kit optional
FACING	Kit optional

Rotation Motor

AC Motor single phase				
Power at rated speed 1800 W				
Output torque at the bar 400 Nm with 95 rpm				
Speed:	1° speed	2° speed	3° speed	4° speed
	95 rpm	150 rpm	320 rpm	510 rpm
Output torque:	200	120	65	40

Feed Motor

DC Motor	
Power at rated speed 90 W	
Max. Speed 11 rpm	
Electromechanical feed system	
Manual/Automatic feed	

Welding technology

Spiral (continuous with variable step)
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Longitudinal stroke

Unlimited with steps of 350 mm

Electronic control panel

Voltage - 220 V 50/60 Hz
Main switch
Emergency switch
Inverter cw/cww feed
Inverter cw/cww rotation
Potentiometer adjustment rotation rpm
Potentiometer adjustment feed rpm
Electrical absorption 2000 W

Dimensions

Length: 680 mm
Width: 240 mm
Height: 380 mm
Weight central unit: 41 kg

STANDARD EQUIPMENT

N° 1	MAIN UNIT
N° 1	ELECTRONIC CONTROL PANEL
N° 1	BORING BAR Ø 40 X 2200 mm
N° 1	BORING BAR Ø 40 X 1100 mm
N° 1	BORING BAR EXTENSION 520 mm
N° 1	TELESCOPIC WELDING TORCH
N° 1	LANCE FOR EXTERNAL WELDING
N° 1	LANCE EXTENSION 100 mm
N° 5	LANCE EXTENSION 35 mm
N° 4	LONG NOZZLE
N° 4	SHORT NOZZLE
N° 5	LONG CONTACT TIP Ø 0,8 mm
N° 5	SHORT CONTACT TIP Ø 0,8 mm
N° 1	BOX WITH 10 CUTTING EDGES
N° 1	TOOL HOLDER RIGHT Ø 12x100 mm
N° 1	TOOL HOLDER LEFT Ø 12x60 mm
N° 1	SPECIAL TOOL HOLDER LEFT Ø 12x40 mm
N° 1	TOOL HOLDER FOR BORING FROM Ø 100 TO 400 mm
N° 2	MAIN BAR SUPPORT
N° 2	ADDITIONAL SUPPORT
N° 1	SPINDLE CENTRING KIT
N° 1	SPINDLE CENTRING KIT FOR BLIND HOLES
N° 1	DIAL GAUGE
N° 1	DIAL GAUGE SUPPORT
N° 1	TELESCOPING GAUGE Ø 12 mm
N° 12	BRACKET FOR FLANGES
N° 1	CABLE CONTROL PANEL/MACHINE
N° 1	POWER CABLE 220V/CONTROL PANEL
N° 1	BORING MACHINE STAND
N° 1	COMPLETE SET OF WRENCHES