

ESAB CaB 300S

A Column and Boom for cost efficient weld mechanization

For industrial production with good profitability, the mechanization is the answer.

CaB 300S might be the solution to increase the profitability on your welding.

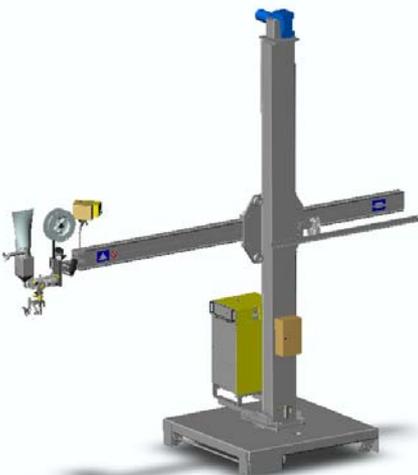
A proven product has been further improved.

The new improvements:

- Pulse encoder controlled welding motion, as well as wire feed.
- Electrically designed to fit either welding with or without camera supervision.
- Joint tracking with camera supervision.
- Option for built in flux feed/gas feed control into remote control.
- Universal anti-tipping device to fit several types of rail.
- A larger selection of adapted welding heads.

The design

The CaB 300S is designed to handle the automated demands in the industrial environment. The column is eccentric, which means that the welding head is always lined up in the centre of the carriage. This to be able to weld round objects with turning rolls on the same rail. The CaB 300S can reach over high and long distances, both vertically and horizontally. The $\pm 180^\circ$ column rotation facility provides a total action radius. The CaB 300S can be prepared for or without camera supervision. This will decide the placement of the control box, PEK.



CaB 300S

The 4x4 m size, 4m stroke both vertically and horizontally, is capable to carry 150 kg load at the end of the rack and pinion driven boom. Sufficient to carry a fully equipped head for high productive submerged-arc or gas metal arc welding.

Productivity...

The A2 or A6 welding systems with Process Controller PEK are easily combined with CaB 300S to control longitudinal or circumferential welding. A built-in swivel bracket at the end of the boom can position the welding head either for welding speed from the boom or from the mobile concrete carriage. Choose a rectifier or transformer of the power source family, LAF or TAF, and a complete welding station has quickly been assembled - a very cost efficient and highly productive piece of equipment.

...and safety

The low control voltage makes it possible to weld in damp and confined areas. An Anti-fall guard which immediately locks the boom in the event of breakdown. Universal anti tilting device that fits for SJ50, A45, A55 and A65 rails are included to prevent collision accidents.

Technical data, Column

Effective working range (m)	3	4	5
Boom height A (max mm)	4070	5070	6070
using movable carriage (min mm)	930	930	930
Boom height B (max mm)	3955	4855	5955
using concrete stand (min mm)	815	815	815
Boom height C (max mm)	3750	4750	5750
using stationary foot plate (min mm)	610	610	610
Total height D			
using movable carriage (mm)	5170	6170	7170
Total height E			
using concrete stand (mm)	5055	6055	7055
Total height F			
using stationary foot plate (mm)	4850	5850	6850
Lifting speed (m/min)	0.7	0.7	0.7
Total load on column platform (max kg)	600	600	600

Technical data, Boom

Extension G (max mm)	3580	4580	5580
(min mm)	540	540	540
Permissible loads			
-total (max kg)	300	220	150
-one end (max kg)	240	150	75
Cross-sectional diameter H (mm)	325	325	325
Welding speed (m/min)	0.1-2.0	0.1-2.0	0.1-2.0
Transport speed (m/min)	2.0	2.0	2.0

Technical data, Concrete rail carriage

Track width L , inside to inside (mm)	1730
Width x length (mm)	2060x2330
Height I (mm)	365
Welding speed (m/min)	0.1-2.0
Transport speed (m/min)	2.0
Total weight (kg)	1670

Technical data, Concrete stand

Width x length (mm)	2060x2100
Height J (mm)	250
Total weight (kg)	1550

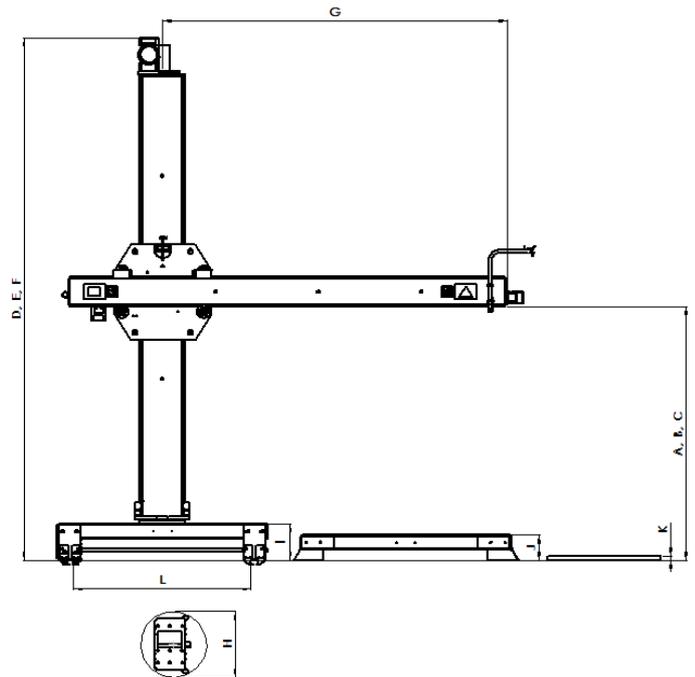
Technical data, Steel plate

Width x length (mm)	1100x1100
Height K (mm)	40
Total weight (kg)	350

Ordering information

Working range	Rail carriage mounted Part No.	Steel plate mounted Part No.	Stationary Part No.
3x3	0443 222 920	0443 227 920	0443 227 940
4x4	0443 222 921	0443 227 921	0443 227 941
5x5	0443 222 922	0443 227 922	0443 227 942
Prepared for camera:			
3x3	0443 222 930	0443 227 930	0443 227 950
4x4	0443 222 931	0443 227 931	0443 227 951
5x5	0443 222 932	0443 227 932	0443 227 952

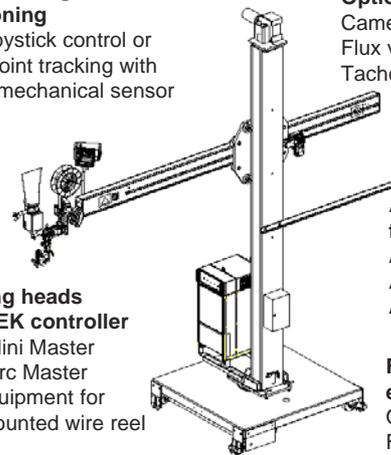
Other combinations of working ranges and foundations on request.



Approved welding equipment for CaB 300S fully adapted modules

Joint tracking and positioning
PAV Joystick control or GMH Joint tracking with electromechanical sensor

Options
Camera system
Flux valve control
Tacho regulated drives



Welding heads with PEK controller
A2 S Mini Master
A6 S Arc Master
and equipment for rear mounted wire reel

Accessories for the following systems:
A2 GMAW
A2 SAW
A6 SAW

Flux handling equipment
OPC Super
FFRS Super

Power sources

LAF 631 Arc Power	welding cable dim.	1x120 mm ²
TAF 801 Arc Power	"-	2x95 mm ²
LAF 1001 Arc Power	"-	2x95 mm ²
LAF/TAF 1251 Arc Power	"-	2x120 mm ²
LAF 1601 Arc Power	"-	3x120 mm ²

2010-03-10 / ESAB reserves the right to alter specifications without prior notice



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The ESAB group is certified according to ISO 14001 & OHSAS 18001