

## ESAB Tandem Welding Heads

### For optimum productivity

In today's industrial development, the rate of productivity has been brought more and more into focus as a decisive parameter for raising profitability.

This requires submerged-arc welding heads designed for maximum flexibility to perform to the individual needs of the welding industry.

ESAB has designed a number of highly versatile tandem welding heads aimed for extremely productive sub-arc welding. There are two basic versions of our range of tandem welding heads,

#### **A6S Tandem Master**

With an adjustable +90°-interval turning bracket and cross slide, the A6S' design is optimal for welding across multiple perpendicular axis'. The automatic joint tracking is kept intact no matter which direction welding occurs. (Important for cylindrical objects where both longitudinal and circumferential welding are needed.)

#### **A6DS Tandem Master**

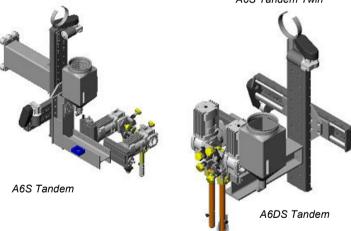
This welding head has an adjustable ±90°-interval turning bracket and fixed cross slide. The A6DS is perfect for applications requiring automated welding of long weld joints. For example, when sub-arc welding long beams, use the A6 DC to weld one seam, rotate the head 180° and then weld the other seam. There's no need to return the manipulator to its starting point which wastes time.

Furthermore, by installing this head onto an ESAB CaB M-model manipulator and using the Shift Option it is possible to weld in multiple directions through this simple weld head adjustment. The Shift Option facilitates this process by shifting control of the horizontal tracking motion to the boom. This provides the operator with the ability to weld in three different directions in combination with the welding head rotation. In all directions, the automatic joint tracking still remains intact.

Both the A6S and A6DS are equipped with two A6 welding torches for DC/DC, DC/AC or AC/AC welding operation. While taking advantage of direct current (DC) control (good weld penetration) and alternating current (AC) control (high welding deposition rate), ESAB sets the stage for high quality and high output productivity. With ESAB's Twin-Wire and synergic Cold-Wire welding technology the focus on productivity is further expanded.



A6S Tandem Twin



The A6S Tandem Welding Heads connect easily to ESAB's range of thyristor controlled power supplies. With each welding head, ESAB's PEH microprocessor-based Process Controller controls and stores all welding parameters and can be quickly and accurately programmed via menus. Up to ten weld parameter files can be stored and called-up eliminating time consuming adjustments by the operator during welding. For close monitoring during welding, the heat input is also displayed.

Together with ESAB's range of CaB 460 and 600 column and boom models, these welding heads provide a very versatile welding system which mold to most any standard and special welding application.

## Technical data Basic modules A6S Tandem Master

A6 feed unit HD-type for wire 3.0-6.0 mm (2 pcs.)

Horizontal motorised slide with double runners L=355 mm (1 pc.)

Vertical motorised slide with double runners L=595 mm (1 pc.)

PEH, process controller (2 pcs.)

Flux hopper, 10L incl. bracket (1 pc.)

Cable holder (1 pc.)

Welding head (2 pcs.), each head has:

 A6 manual slide L=90 mm (1 pc.)
 (0154 465 880)

 A6 circular slide (1 pc.)
 (0671 171 580)

 Insulators (4 pcs.)
 (0278 300 180)

Main bracket with mounting flange

for cross slide assembly (1 pc.) (0810 786 880) Swivel bracket for rotating head 90° (1 pc.) (0334 549 880)

Total weight approx. 215 kg (excl. PEH, wire and flux)

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Horizontal motorised slide with double runners L=355 mm (1 pc.)

Vertical motorised slide with double runners L=595 mm (1 pc.)

PEH, process controller (2 pcs.)

Flux hopper, 10L incl. bracket (1 pc.)

Cable holder (1 pc.)

Welding head (2 pcs.), each head has:

A6 manual slide L=90 mm (1 pc.) (0154 465 880)
A6 circular slide (1 pc.) (0671 171 580)
Insulators (4 pcs.) (0278 300 180)
Swivel bracket for rotating head 90° (1 pc.) (0809 873 880)

Total Weight approx. 190 kg (excl. PEH, wire and flux)

#### Accessories

Twinkit LD (one kit per torch)	0809 934 880
Twinkit HD (one kit per torch)	0809 934 881
Bump protection	0451 404 880
GMD, joint tracking	0417 142 880
Pilot lamp, light bulb	0153 143 885
Pilot lamp, laser diode	0457 788 884
Bracket, (straight) for wire	0334 318 880
Brake hub, for wire reel	0146 967 880
Wire reel, plastic, 30 kg	0153 872 880
Wire reel, steel fixed width, 30 kg	0416 492 880
Wire reel, steel flexible width, 30 kg	0449 125 880

#### **Ordering information**

A6DS Tandem Master (gear ratio 156:1)	0809 939 880
A6DS Tandem Master (gear ratio 74:1)	0809 939 881
A6S Tandem Master (gear ratio 156:1) A6S Tandem Master (gear ratio 74:1)	0809 940 880 0809 940 881

Part numbers in parentheses are included in the package.

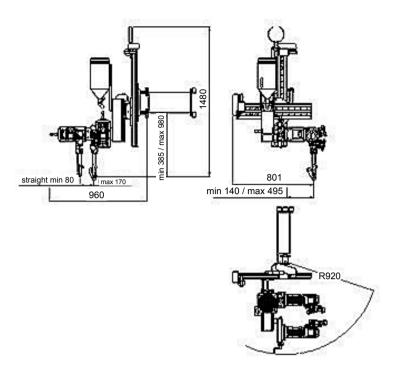
Customised solutions are available. Please contact your local ESAB representative for further information.



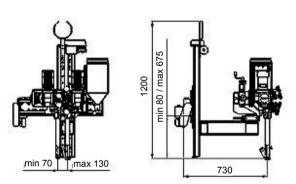
# ESAB AB Welding Equipment SE-695 81 LAXA SWEDEN Phone: +46 584 81000 Fax +46 584 411721 E-mail: info@esab.se

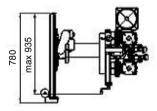
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#### **A6S Tandem Master**



#### **A6DS Tandem Master**





ESAB reserves the right to alter specifications without prior notice ESAB is approved according to ISO 9001:2000