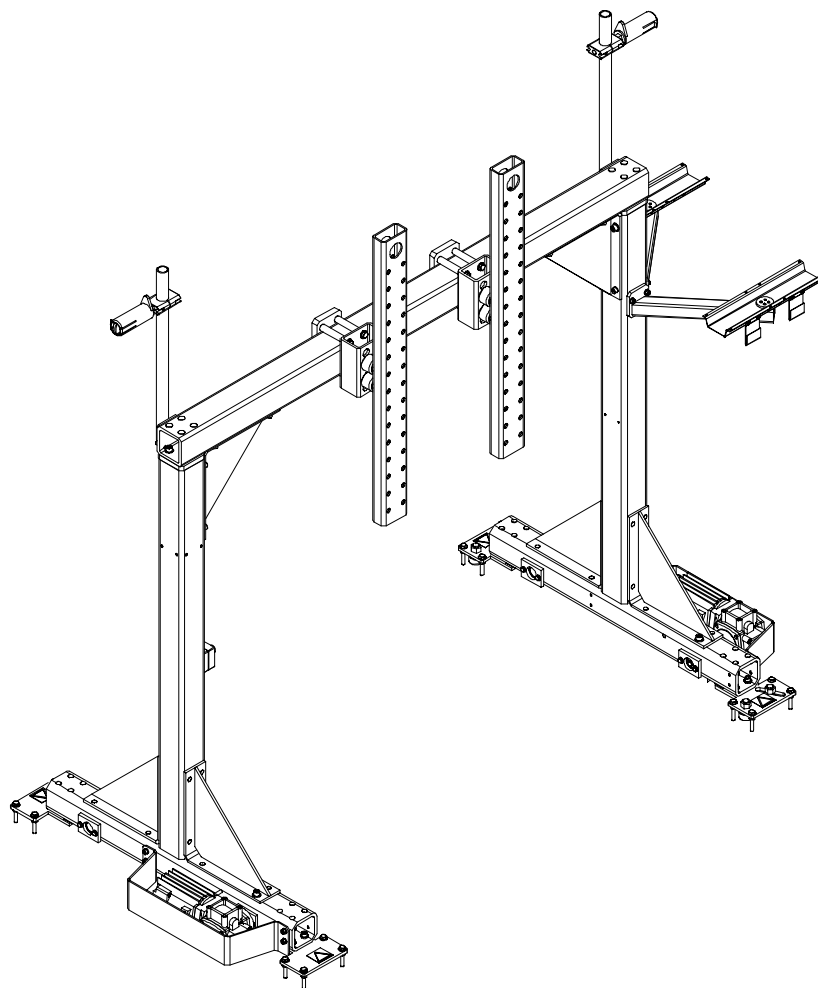


# ***MechTrac 1730/ 2100/ 2500/ 3000***



**Bruksanvisning  
Brugsanvisning  
Bruksanvisning  
Käyttöohjeet  
Instruction manual  
Betriebsanweisung**

**Manuel d'instructions  
Gebruiksaanwijzing  
Instrucciones de uso  
Istruzioni per l'uso  
Manual de instruções  
Οδηγίες χρήσεως**

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Rätt till ändring av specifikationer utan avisering förbehålles.  
 Ret til ændring af specifikationer uden varsel forbeholdes.  
 Rett til å endre spesifikasjoner uten varsel forbeholdes.  
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 Rights reserved to alter specifications without notice.  
 Änderungen vorbehalten.  
 Sous réserve de modifications sans avis préalable.  
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### **FÖRSÄKRAN OM ÖVERENSSTÄMMELSE**

ESAB AB Welding Automation, 695 81 Laxå, Sverige, försäkrar under eget ansvar att svetsutrustning MechTrac 1730/ 2100/ 2500/ 3000 från serienummer 0243 är i överensstämmelse med standard EN 60292 och EN 60204 enligt villkoren i direktiv (89/392/EEG) med tillägg (93/68/EEG).

---

### **OVERENSSTEMMELSEERKLÆRING**

ESAB AB Welding Automation, S- 695 81 Laxå, Sverige, erklærer på eget ansvar, at svejseudstyr MechTrac 1730/ 2100/ 2500/ 3000 fra serienummer 0243 er i overensstemmelse med standarden EN 60292 og EN 60204 ifølge betingelserne i direktiv (89/392/EØF) med tillæg (93/68/EØF).

---

### **FORSIKRING OM SAMSVAR**

ESAB AB Welding Automation, S-695 81 Laxå, Sverige, försikrer på eget ansvar at sveiseutstyr MechTrac 1730/ 2100/ 2500/ 3000 fra serienummer 0243 er i overensstemmelse med standard EN 60292 og EN 60204 i følge vilkårene i direktiv (89/392/EF) med tillegg (93/68/EF).

---

### **VAATIMUSTENMUKAISUUSVAKUUTUS**

ESAB AB Welding Automation, S-695 81 Laxå, Ruotsi, vakuuttaa omalla vastuullaan, että hitsauslaitteisto MechTrac 1730/ 2100/ 2500/ 3000 alkaen sarjanumerosta 0243 täyttää standardin EN 60292 ja EN 60204 vaatimukset direktiivin (89/392/ETY) ja sen lisäysten (93/68/ETY).

---

### **DECLARATION OF CONFORMITY**

ESAB AB Welding Automation, S-695 81 Laxå, Sweden, gives its unreserved guarantee that welding equipment MechTrac 1730/ 2100/ 2500/ 3000 from serial number 0243 complies with standard EN 60292 and EN 60204, in accordance with the requirements of directive (89/392/EEC) and addendum (93/68/EEC).

---

### **ZULASSUNGSNACHWEIS**

ESAB AB Welding Automation, S-695 81 Laxå Schweden, bestätigt hiermit in Eigenverantwortung, daß der Schweißausrüstung MechTrac 1730/ 2100/ 2500/ 3000 ab Seriennummer 0243 dem Standard EN 60292 und EN 60204 gemäß den Bedingungen der Direktive (89/392/EEG) mit Zusatz (93/68/EEG).

---

### **CERTIFICAT DE CONFORMITÉ**

ESAB AB Welding Automation, S-695 81 Laxå, Suède, certifie que l'équipement de soudage MechTrac 1730/ 2100/ 2500/ 3000 à partir du numéro de série 0243 est conforme à la norme EN 60292 et EN 60204 selon les conditions de la directive (89/392/CEE) avec additif (93/68/CEE).

---

### **VERKLARING VAN OVEREENSTEMMING**

ESAB AB Welding Automation, S-695 81 Laxå Zweden, verklaart geheel onder eigen verantwoordelijkheid dat lasuitrusting MechTrac 1730/ 2100/ 2500/ 3000 van het serienummer 0243 in overeenstemming is met norm EN 60292 en EN 60204 conform de bepalingen in richtlijn (89/392/EEG) met annex (93/68/EEG).

---

### **DECLARACIÓN DE CONFORMIDAD**

ESAB AB Welding Automation, S-695 81 Laxå, Suecia, garantiza bajo propia responsabilidad que el equipo de soldadura MechTrac 1730/ 2100/ 2500/ 3000 a partir del número de serie 0243 concuerda con la norma EN 60292 y EN 60204 conforme a la directiva (89/392/CEE) con el suplemento (93/68/CEE).

---

### **DICHIARAZIONE DI CONFORMITA**

ESAB AB Welding Automation, S-695 81 Laxå Svezia, dichiara sotto la propria responsabilità che un apparecchio per saldatura MechTrac 1730/ 2100/ 2500/ 3000 con numero di serie a partire da 0243 è conforme alla norma EN 60292 e EN 60204 come previsto dalla direttiva (89/392/CEE) e successive integrazioni (93/68/CEE).

---

### **DECLARAÇÃO DE CONFORMIDADE**

ESAB AB Welding Automation, S-695 81 Laxå Suécia, garante sob responsabilidade própria que o equipamento de soldadura MechTrac 1730/ 2100/ 2500/ 3000 a partir do número de série 0243 está em conformidade com a norma EN 60292 e EN 60204 segundo os requisitos da directiva (89/392/CEE) com o suplemento (93/68/CEE).

---

### **ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ**

Η εταιρεία ESAB AB Welding Automation, S-695 81 Laxå, Σουηδία, δηλώνει ότι τα μηχανήματα Ηλεκτροσυγκόλλησης MechTrac 1730/ 2100/ 2500/ 3000 από τον αριθμό σειράς 0243 και έπειτα, συμμορφώνονται με το πρότυπο EN 60292 και EN 60204 σύμφωνα με τις απαιτήσεις της οδηγίας (89/392/EEG) και του παραρτήματος (93/68/EEG).

---

Laxå 2003-04-11



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# 1 SAFETY

---

## 1.1 General

Users of ESAB welding equipment have the ultimate responsibility for ensuring that anyone who works on or near the equipment observes all the relevant safety precautions. Safety precautions must meet the requirements that apply to this type of welding equipment. The following recommendations should be observed in addition to the standard regulations that apply to the workplace.

All work must be carried out by trained personnel well-acquainted with the operation of the welding equipment. Incorrect operation of the equipment may lead to hazardous situations which can result in injury to the operator and damage to the equipment.

1. Anyone who uses the welding equipment must be familiar with:
  - its operation
  - location of emergency stops
  - its function
  - relevant safety precautions
  - welding
2. The operator must ensure that:
  - no unauthorised person is stationed within the working area of the equipment when it is started up.
  - no-one is unprotected when the arc is struck
3. The workplace must:
  - be suitable for the purpose
  - be free from draughts
4. Personal safety equipment
  - Always wear recommended personal safety equipment, such as safety glasses, flame-proof clothing, safety gloves.
  - Do not wear loose-fitting items, such as scarves, bracelets, rings, etc., which could become trapped or cause burns.
5. General precautions
  - Make sure the return cable is connected securely.
  - Work on high voltage equipment **may only be carried out by a qualified electrician.**
  - Appropriate fire extinguishing equipment must be clearly marked and close at hand.
  - Lubrication and maintenance must **not** be carried out on the equipment during operation.



# WARNING



**ARC WELDING AND CUTTING CAN BE INJURIOUS TO YOURSELF AND OTHERS. TAKE PRECAUTIONS WHEN WELDING. ASK FOR YOUR EMPLOYER'S SAFETY PRACTICES WHICH SHOULD BE BASED ON MANUFACTURERS' HAZARD DATA.**

**ELECTRIC SHOCK - Can kill**

- Install and earth the welding unit in accordance with applicable standards.
- Do not touch live electrical parts or electrodes with bare skin, wet gloves or wet clothing.
- Insulate yourself from earth and the workpiece.
- Ensure your working stance is safe.

**FUMES AND GASES - Can be dangerous to health**

- Keep your head out of the fumes.
- Use ventilation, extraction at the arc, or both, to take fumes and gases away from your breathing zone and the general area.

**ARC RAYS - Can injure eyes and burn skin.**

- Protect your eyes and body. Use the correct welding screen and filter lens and wear protective clothing.
- Protect bystanders with suitable screens or curtains.

**FIRE HAZARD**

- Sparks (spatter) can cause fire. Make sure therefore that there are no inflammable materials nearby.

**NOISE - Excessive noise can damage hearing**

- Protect your ears. Use earmuffs or other hearing protection.
- Warn bystanders of the risk.

**MALFUNCTION - Call for expert assistance in the event of malfunction.**

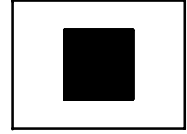
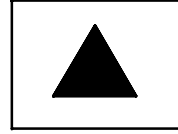
**READ AND UNDERSTAND THE INSTRUCTION MANUAL BEFORE INSTALLING OR OPERATING.**

**PROTECT YOURSELF AND OTHERS!**

## 1.2 Markings on the equipment

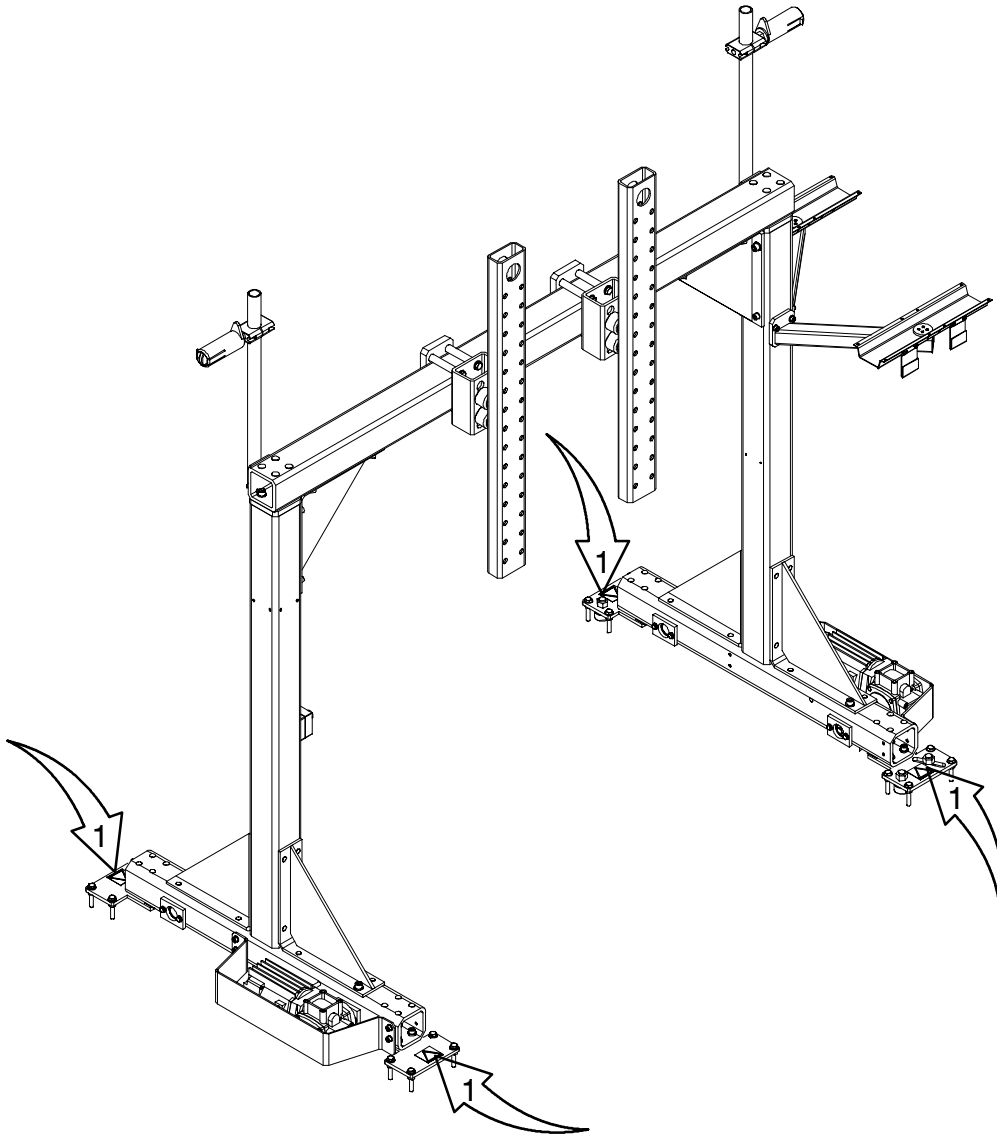
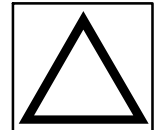
### Travel motion

These markings are placed on the gantry. Indicate the travel direction.



### Risk of getting pinched

This marking is placed on the support (1) of the gantry.



---

## **2 INTRODUCTION**

---

### **2.1 General**

MechTrac is a motor driven gantry for use together with ESAB's A2 welding equipment and power sources (LAF/TAF).

The control of the travel motor takes place over the PEH control unit where the desired speed can be set.

For more information regarding the A2-A6 Process Controller (PEH) see instruction manual 0443 745 xxx.

### **2.2 Technical data**

<b>Travel speed :</b>	0.2 - 2.0 m/min
<b>Maximum load :</b>	220 kg
<b>Standard rail length :</b>	3 m

Equivalent continuous A-weighted noise pressure is below 70 dB (A).

## 3 INSTALLATION

### 3.1 General

***The installation must be executed by a professional.***

Read the separate instruction manuals supplied with the different modules that are to be fitted on the gantry.

For installation of :

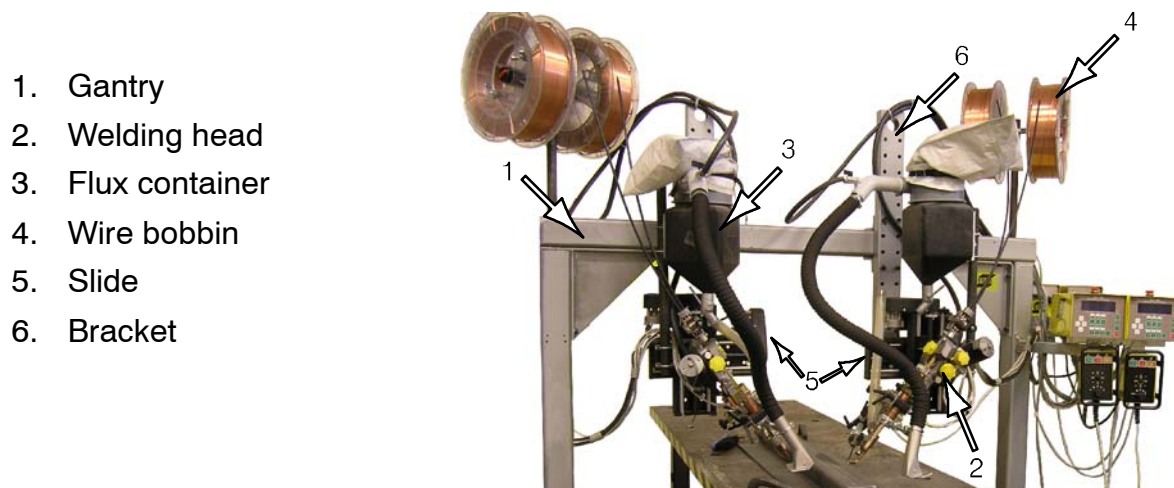
- welding head A2SFE1/ A2 SGE1 see instruction manual 0456 552 xxx
- welding head A2SGF1 see instruction manual 0449 002 xxx
- welding power source LAF 635 see instruction manual 0457 795 xxx
- welding power source LAF 800 see instruction manual 0449 014 xxx
- welding power source LAF 1000 see instruction manual 0456 512 xxx
- welding power source TAF 800 see instruction manual 0456 513 xxx

#### Voltage supply

- Disconnect the voltage supply before starting the installation!

### 3.2 Assembly/ Disassembly

The picture below shows an example of how to attach an A2 welding head, flux container, wire bobbin and slide to the gantry.



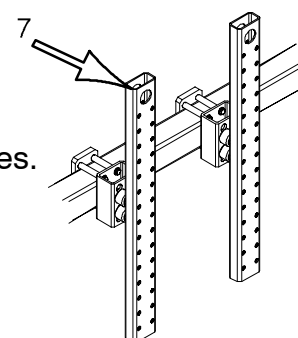
1. Gantry
2. Welding head
3. Flux container
4. Wire bobbin
5. Slide
6. Bracket

Make sure all the comprised modules are properly fastened. Loose parts falling off can involve danger and even unbalance when lifting.

Note that the maximum weight allowed on the gantry is 220 kg.

When necessary use a lifting strap for lifting the different modules.

Use a lifting device when dismantling the bracket. The lifting device is to be mounted in the holes (7) on top of the bracket.





### **3.3 External emergency stop**

For connection of the emergency stop placed on the gantry leg see the diagram on page 127.

### **3.4 Emergency stop circuit**

For connection of the emergency stop circuit between the A2-A6 Process Controller and the welding power source (LAF/TAF) see diagram on page 127.

---

## 4 OPERATION AND MAINTENANCE

---

### 4.1 General



**Caution:**

*Have you read and understood the safety information ?  
You must not operate the machine before then !*

**General safety regulations for the handling of the equipment can be found on page 46. Read through before you start using the equipment!**

**Note:**

*All warranty undertakings given by the supplier cease to apply if the customer attempts to rectify any faults on the machine during the warranty period.*

**Voltage supply**

- Disconnect the voltage supply before carrying out any maintenance work!

For operation and maintenance, see the respective manual for A2-A6 Process Controller (PEH), A2 welding equipment and power sources (LAF/TAF).

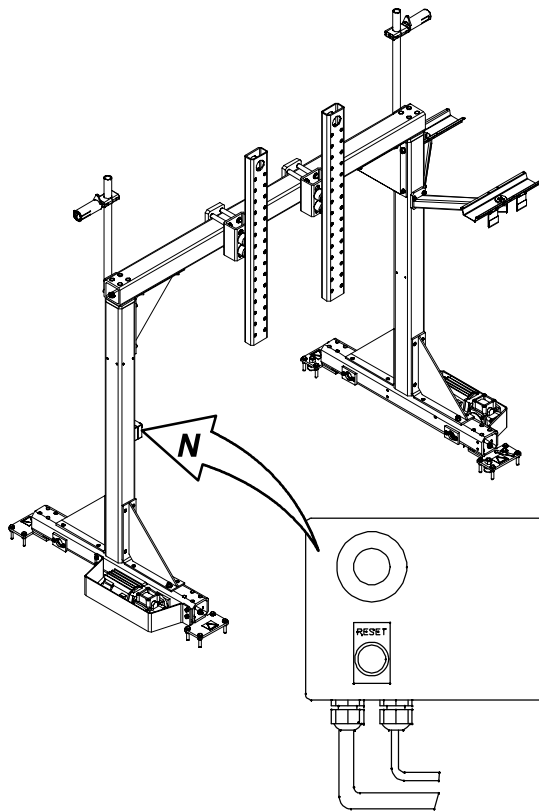
## 4.2 Emergency Stop

MechTrac is provided with an emergency stops (**N**).

### Resetting After Emergency Stop:

1. Find and eliminate the cause of the emergency stop.
2. Pull out the emergency stop button
3. Press "**Reset**".

**N.B.** An emergency stop must not be reset until the cause for the abnormal function or signal has been defined and remedied.



### Test and Check of Emergency Stop



*The function of all emergency and safety devices is to be checked regularly, at least once every month, as well as after any work has been carried out on the machine.*

### **N.B.**

Any abnormal function or signal must be defined and remedied before the welding column and boom unit is put into operation.

---

## **5 ACCESSORIES**

---

### **5.1 A2 GMAW (Gas Metal Arc Welding)**

Cooling unit OCE 2H .....	0414 191 881
Gas hose .....	0190 270 102
Water hose .....	0190 315 104

### **5.2 A2 SAW (Submerged Arc Welding)**

Conversion kit Twin .....	0413 541 882
Conversion kit A2 SAW→ MIG/MAG .....	0449 030 880
Plastic wire reel .....	0153 872 880
Steel wire reel .....	0416 492 880
Flux recovery unit A6 OPC .....	0148 140 880
Air hose .....	0190 343 102
Flux funnel .....	0145 221 881
Air drying unit A6 CRE 30 .....	0443 570 880
Pilot lamp .....	0153 143 886
Laser lamp .....	0457 788 880

---

## **6 ORDERING OF SPARE PARTS**

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Spare parts are ordered through your nearest ESAB representative, see back cover. When ordering spare parts, please state machine type and number as well as designation and spare part number as shown in the spare parts list on page 131. This will simplify dispatch and ensure you get the right part.



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