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2.1. **FUNDAMENTAL SAFETY INSTRUCTIONS**

Read this service manual carefully and observe cautionary references before putting this Air knife unit into operation and before carrying out any maintenance on the unit.

2.1.1. **Explanation of Symbols and Reference**



This symbol is placed before all regulations concerning safety where danger to life and limb can occur during work. It is especially important that these regulations are observed and that extreme care is taken. For their own protection, inform all other users of these safety regulations. Observe all general safety and accident prevention regulations as well as the those laid down in this service manual.

Attention !

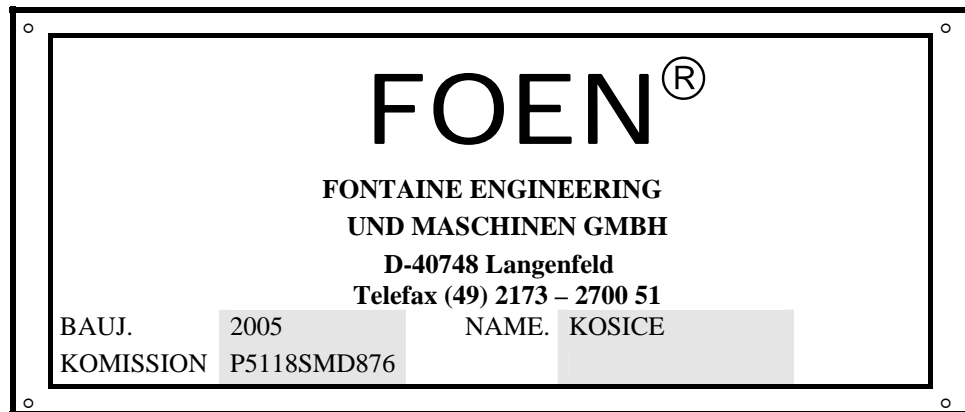
This symbol is placed by text where considerable attention must be paid to recommendations, regulations, references and the correct sequence of work so that damage and/or destruction of the air knife unit and/or other equipment is prevented.

2.1.2. Spare parts

Safe and reliable operation of the air knife unit is guaranteed only with FOEN® original spare parts. When ordering spare parts always state our REFERENCE-NO. (KOSICE CGL #3– P5118SMD876). See the nameplate on the head pieces of the air knife rigs. All spare parts can be ordered from:

*Fontaine Engineering und Maschinen GmbH
Industriestrasse 28
D-40764 Langenfeld Rhld.*

Tel.: + 49-2173-2700-0



* *POS.-NR.: means Air Knife Rig 1 or 2*

2.1.3. Basic operation and designated use of the machine

Attention !

The service manual must always be available at the air knife unit's place of use.

The machine is designed exclusively for hot dip coating. Using the machine for purpose other than those mentioned above is considered contrary to its designated use. The manufacturer cannot be held liable for any damage resulting from such use. The risk of such misuse lies entirely with the user.

The machine has been built in accordance with state-of-the-art standards and the recognised safety rules. Nevertheless, its use may constitute a risk to life and limb of the user or of third parties, or cause damage to the machine and to other material property.

The machine must only be used in technically perfect condition in accordance with its designated use and the instructions set out in the operating manual, and only by safety-conscious persons who are fully aware of the risks involved in operating the machine. Any functional disorders, especially those affecting the safety of the machine, should therefore be rectified immediately.

Operating the machine within the limits of its designated use also involves observing the instructions set out in the operating manual and complying with the inspection and maintenance directives.



Work on power driven systems may only be carried out by trained or specialised personnel.



Work on electrical system and equipment of the air knife unit may only be carried out by a skilled electrician or by instructed personnel under the supervision and guidance of a skilled electrician and in accordance with electrical engineering rules and regulations.

Before work is carried out on electrical systems, carry out the following measures in the sequence shown:

- 1. Switch off all phases (pull out the mains power supply plug)*
- 2. Ensure the unit cannot be switched on again*
- 3. Check that no voltage is present.*

The electrical equipment of machines is to be inspected and checked at regular intervals. Defects such as loose connections or scorched cables must be rectified immediately.

Explanation of the warning label on the air knife unit:



Before any maintenance work is carried out, barred the way for unauthorised personnel to the machine



Always wear the prescribed ear protectors !



Always wear the prescribed safety glasses !



Use protective equipment wherever required by the circumstances or by law !



Use always the safety overall on the air knives. Especially when using hot nitrogen !



Use always the prescribed safety glasses on the platforms and for the transport of the equipment !



Use the breath protection on the air knives when using hot nitrogen !



Warning ! Do not touch hot surfaces !



This symbol identifies environmental care measures.



Do not stand underneath hanging loads.

2.1.4. Environmental protection



Dispose of all used materials and parts accumulating during operation, maintenance and repair of the air knife unit according to environmental care regulations !.

2.1.5. Copyright

The copyright of this service manual is the property of the Fontaine Engineering und Maschinen GmbH. This service manual is intended for operating personnel, maintenance personnel and supervisory personnel use only. It contains instructions and technical diagrams that may not be copied, either completely or partly, distributed or evaluated by unauthorised persons for the purpose of competition, or divulged to any other third party.

2.2. **Machine Acceptance**

2.2.1. Preliminary controls

When the air knife unit is taken directly from the works or from a carrier's depot or when it is delivered by a carrier, the delivery and/or dispatch documents must first be checked to ensure that the equipment ordered has been received. All packs comprising the supply, unless otherwise specified when ordering, are marked with the FOEN[®] order number. The packaging or the equipment itself, if it is visible, must be checked for any obvious signs of damage incurred during handling and transport. If such damage is found, this evidence must be put directly to the carrier and it must be ensured that the carrier notes this clearly on the delivery document before signing it. FOEN[®] must also be informed promptly to avoid any disagreements and to guarantee rapid and satisfactory settlement of any damages.

2.2.2. Unloading and handling

The addressee is responsible and liable for unloading operations and shall therefore entrust supervision thereof to appropriately qualified personnel with one of our FOEN[®]-supervisor, selected on the basis of the size of the machinery and the difficulty presented by the operation.

2.2.3. Checks

A check shall be made promptly that all the equipment received corresponds to the order and any irregularities shall be advised to FOEN[®] immediately for the necessary corrective action.