

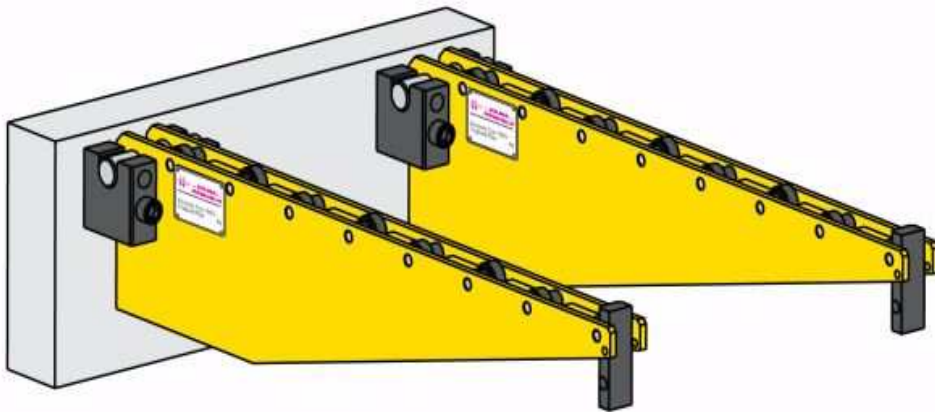
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# Operating Instructions

including installation and assembly instructions  
for incomplete machines as per Machinery Directive 2006/42/EC

Carrying consoles

Typ 8.1835.xxxx



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# OPERATING INSTRUCTIONS

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**In order to ensure safe operation for the intended purpose, please read the operating manual before installation and before putting the carrying consoles into operation for the first time!**

## 1 Safety information

### 1.1 General

The safety of Hilma-Römheld carrying consoles has been thoroughly checked. They are designed for use as specified in the technical data. If all technical information is not observed, the safety of the operator and the proper functioning of the machine may be put at risk. Unauthorised modification or alterations to Hilma-Römheld carrying consoles is prohibited for reasons of safety. If this instruction is not observed, our guarantee will be invalid.

### 1.2 Field of application

Hilma-Römheld carrying consoles are intended for use on presses or similar machines.

### 1.3 Operating characteristics

Hilma-Römheld carrying consoles must not be used outside the limits specified in the technical data (see catalogue, product group 8)

**Attention: Overloading the carrying consoles may cause their destruction!**

### 1.4 Temperatures

The maximum operating temperature for standard-type carrying consoles is 100°C. For higher temperatures, special design must be used.

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## **1.5 Important safety information**

- Carrying consoles should only be installed using the fasteners supplied with the consoles (observe tightening torques)
- Compare the loading capacity of the carrying consoles with the weight of the die
- Secure the die against unintended sliding (falling down),
- Keep your hands away from the area of the roller table (pinch hazard)

Before putting the carrying consoles into operation, the operator must be fully trained. Young people under 16 years old should not be allowed to operate the clamps. Staff over 16 years old are allowed to operate the consoles under supervision as part of their apprenticeship. The operating instructions must be readily accessible. The operator must inform third parties of any danger in the working area.

## **Design and function**

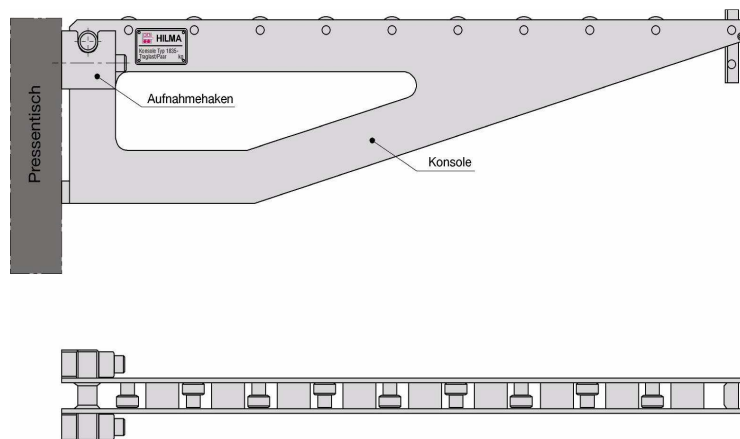
### **2.1 Design**

The carrying console consists of a console body, carrying rollers and fasteners, adapted to the specific type of console.

### **2.2 Functional description**

#### **Carrying console, hanging type**

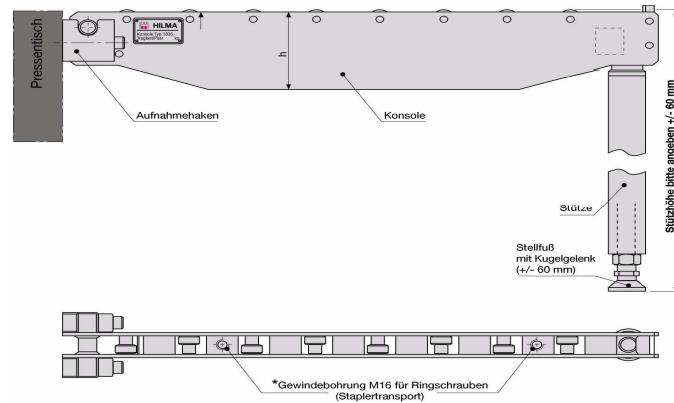
The carrying console is hung in the hooks on the front of the press and is supported from the lower table area.



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## Carrying console, supported type

The carrying console is hung in the hooks on the front of the press. At the front, the console is provided with vertically adjustable feet.

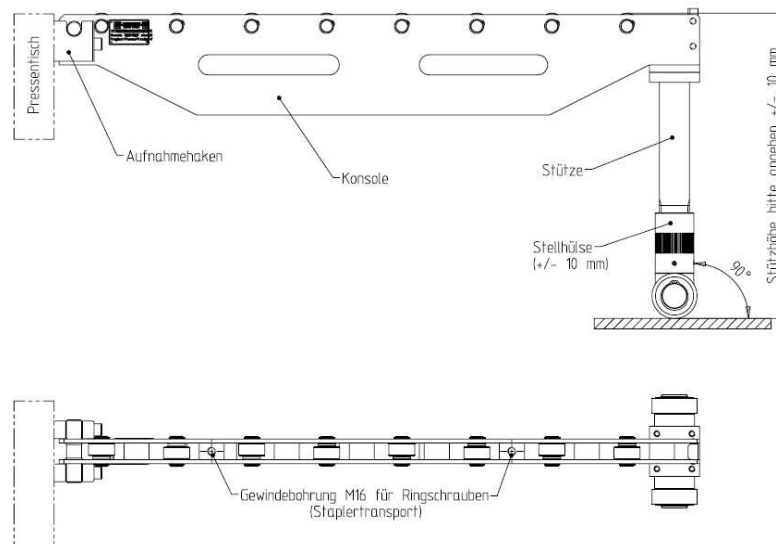


## Carrying console with roller foot

The carrying console is hung in the hooks on the front of the press. At the front, the console is provided with vertically adjustable feet with wheels.

The carrying console is aligned horizontally using the adjustable roller feet.

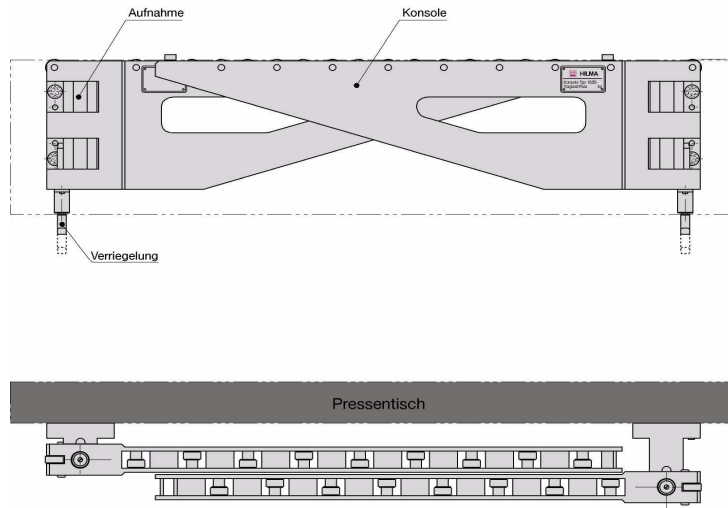
The feet should be at an angle of 90 ° to the floor.



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## Carrying console, pivoting type

The carrying console is firmly fastened to the front of the table and can be pivoted by 90° to the right or to the left. Locking is achieved using a stop bolt on the underside of the carrying console.



Please note: The loading capacity specified in the catalogue applies to a carrying console which is covered across its entire width.

## 3 Technical data, main dimensions

### Carrying console

Loading capacity / main dimensions

Overall length

Max. temperature (standard design)

see nameplate

see catalogue

depending on the type

100°C

## 4 Installation instructions, installation and putting into operation

If the incomplete machine carrying console is installed, the following minimum conditions must be complied with, in order to ensure correct assembly with other components to form a complete machine without endangering personal health and safety.

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## 4.1 Installation

- Clean the console interface prior to installation
- Only use the original hooks supplied with the carrying consoles
- Tighten the screws applying the proper tightening torque.

**Screws M 16:**

**Tightening torque: 120 Nm**

**Screws M 24:**

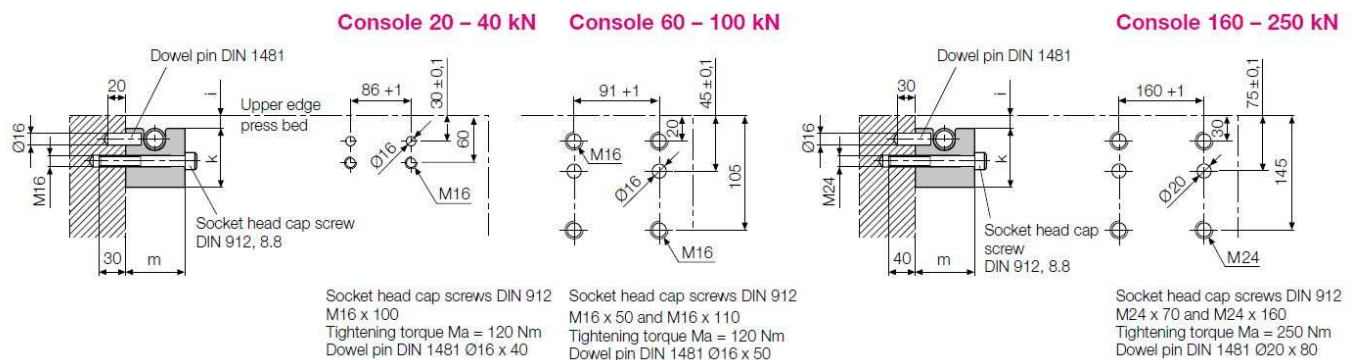
**Tightening torque: 250 Nm**

- Secure dies so that they cannot fall
- When using roller tables: adjust the vertical height of the rollers
- Rollers/ balls of roller/ ball bar and the console must be holistically on the same level
- Install locking pin
- Provide the outer edges of dies and openings in dies with chamfers, in order to prevent the consoles from being damaged.

## 4.2 Hole pattern

Dimensions for position 1.5mm above table level.

Hole pattern for hooks



Can vary with special elements.

## 4.3 Putting into operation

- Proceed carefully when loading a die (pinch hazard)
- Secure the die so that it cannot fall, limit the sliding distance using fixed stop bolts
- Place the die carefully and uniformly onto the carrying consoles, in order to prevent the supporting rollers from being damaged
- Align the carrying consoles so that they are straight and parallel.

**Attention:** Do not clamp the die on the carrying console!

Please read the operating manual before putting the carrying consoles into operation for the first time.



**ATTENTION:** When sliding dies, keep your hands away from the sliding area.  
**DANGER OF INJURY!**

# OPERATING INSTRUCTIONS

## 5 Trouble shooting



The carrying consoles have left our premises in a perfect condition. All functions have been tested, and necessary adjustments have been made.

If any malfunction should occur even though the conditions stipulated in chapter 4.0 (Installation and putting into operation) have been duly observed, please try to establish the cause using the table below:

Failure	Possible cause	Remedial action
<b>The die is difficult to slide</b>	<ul style="list-style-type: none"><li>-Die clamping has not been unlocked</li><li>-Lateral guides jammed</li><li>-Rollers do not run smoothly under load (in the case of a hardened surface, less force is necessary for sliding!)</li><li>-Consoles are damaged</li><li>-Consoles are very dirty</li></ul>	<ul style="list-style-type: none"><li>-Unlock die clamping</li><li>-Align lateral guides</li><li>-Replace rollers, if necessary</li> <li>-Have consoles repaired</li><li>-Clean consoles.</li></ul>

## 6 Maintenance and repair

Under normal conditions, Hilma carrying consoles do not need special maintenance. However, a visual check of the rollers should be carried out once a month. When carrying consoles are used in a very dirty environment, they should be cleaned at regular intervals.

**For putting the system into operation, see chapter 4.0 (Installation and putting into operation)**

## 7 Technical appendix

### Console 20 kN

7.1835.0007	Hooks 1 set (4 pieces)		
1.1472.0008	Grooved pin		
1.1210.0009	Roller		
5.3002.0036	Bushing		

### Console 40 kN

7.1835.0007	Hooks 1 set (4 pieces)		
1.1472.0008	Grooved pin		
1.1210.0011	Roller		
5.3002.0101	Bushing		

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## Console 60 - 100 kN

7.1835.0021	Hooks 1 set (4 pieces)		
5.1013.0461	Bolt		
1.1210.0015	Roller		
1.0471.0030	Snap ring		

## Console 160 kN

7.1835.0022	Hooks 1 set (4 pieces)		
5.1013.0452	Bolt		
1.1210.0019	Roller		
1.0471.0051	Snap ring		

## Console 250 kN

7.1835.0022	Hooks 1 set (4 pieces)		
5.1013.0326	Bolt		
1.1210.0019	Roller		
1.0471.0051	Snap ring		



## **Declaration of incorporation**

as per

**Machinery Directive EC-RL 2006/42/EC  
dated June 9, 2006.**

We,

**Hilma- Römheld  
Schützenstrasse 74  
57271 Hilchenbach,**

declare, that the incomplete machine and its variants:

**Carrying consoles  
Type 8.1835.xxxx**

as supplied by us has been specifically designed for incorporation into a machine, taking full account of DIN EN ISO 12100 and 13857. The documentation has been prepared in conformity with appendix VII B. If required, the national authority may receive the documentation as a hard copy by post or by e-mail as a PDF format file. The machine into which the parts are to be integrated must only be put into operation after the conformity of the machine with the above EC directive has been demonstrated.

The design of our products is in accordance with DIN EN ISO 4413 and EN 60204-1.

Responsible for the document:

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Hilchenbach January 09, 2020

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Managing Director

