

# Martin® Slider Cradles



# **Operating Instructions**

Version: 0

Language: ENG

M3596E UK 2025-05 Sld Crdl



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#### 1 General



#### **NOTE**

Before starting work these operating instructions must be read and understood completely.

#### 1.1 About these operating instructions

These operating instructions apply solely for Belt Martin® Slider Cradles and are intended for those persons who install Martin® Slider Cradles, commission them, and monitor their usage.

The operating instructions must be kept for the lifetime of the Martin® Slider Cradles and must be made available in an orderly condition to all persons entrusted with work with and on the Martin® Slider Cradles.

## 1.2 Intended usage

The Martin® Slider Cradles are used on belt conveyors and serve to support conveyor belts, mainly in the area of loading and in the area of calming zones. They are installed under the conveyor belt and support its running side. Depending on their design, they serve to absorb the impact of falling bulk material and / or to guide the conveyor belt in a level manner.

They may only be used

- · in industrial areas above ground
- according to the technical data in the documentation
- in the installation position as described in the documentation



The usage of the Martin® Slider Cradles is only considered to be as intended if the following conditions are also fulfilled:

- Before starting initial work, the personnel must have been instructed on the work on the system and on all relevant issues of occupational health and safety
- Any personal protective equipment required must be worn
- The provisions of the operating instructions must be observed in full.

Operation of the Martin® Slider Cradles under deviating conditions and unauthorised modification of the Martin® Slider Cradles is considered as improper usage

Special product variants of the Martin® Slider Cradles can also be used in ATEX zones 22 and 21 under certain circumstances.

#### 1.3 Personnel qualification

Only authorised and qualified personnel may be entrusted with work with and on the Martin® Slider Cradles. Persons are considered qualified if they have the qualification of a skilled worker and meet all the following requirements:

- completed professional training or at least 5 years of professional experience in the field,
- technical experience,
- knowledge of the relevant occupational health and safety regulations.

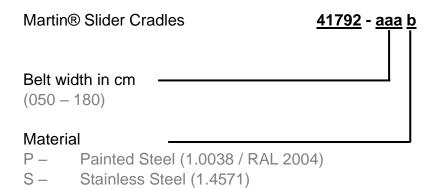
The persons must

- be able to assess the tasks and risks assigned to them,
- be able to recognise potential dangers in advance,
- be physically and cognitively able to operate the conveyors and Martin® Slider Cradles safely,
- have been trained and instructed appropriately,
- have read and understood these operating instructions.

Work on earth connections (Protective Bonding Kits), cabling, switching, control, regulation, automation and all electrical components may be carried out only by trained electricians.



### 1.4 Part number



### 1.5 Technical Data

The Martin® Slider Cradles is suitable for the following operating parameters:

	Operating parameter
Belt widths:	500 – 1.800 mm
Belt speed:	Max. 3,5 m/s
Temperature range:	-30 – 60 °C
Trough Angles:	0° – 45°
Reversing operation	Yes



## 2 Safety

#### 2.1 General safety instructions



#### DANGER

#### **Entanglement in moving or rotating parts**

Body parts and/or clothing may get caught and pulled in by moving or rotating parts of the machinery.

- Before any installation or maintenance work is carried out, ensure that all power sources to the conveyor belt system and its accessories are switched off and secured against inadvertent switching on.
- Apply Log-Out / Tag-Out / Try-Out (LOTOTO) Procedures
- Apply warning signs



#### **DANGER**

#### Automatic start-up of the conveyor

Serious or fatal injuries due to unintentional start-up of the conveyor.

- Switch off the conveyor before starting work and secure it against being switched on again.
- Follow safe procedures to prevent unintentional restart.



#### **WARNING**

#### Flying objects

Objects left on or in the conveyor can fly around uncontrollably when the conveyor is switched on and can hit and injure persons.

 Before switching on the conveyor, remove all foreign objects such as tools, devices, etc. from the belt!





#### **WARNING**

#### Risk of falling down

Martin® Slider Cradles are often mounted and operated in heights. There may be a risk of falling down.

 Therefore, use a fall protection device when installing in higher working areas!



#### **WARNING**

#### Working in confined spaces

Areas in which Martin® Slider Cradles are installed are often difficult to access and include confined spaces. It is often necessary to work in difficult positions.

 Determine whether occupational safety measures are necessary that go beyond the usual measures!



## 2.2 Personal protective equipment

Persons carrying out work on Martin® Slider Cradles must wear suitable personal protective equipment.

Minimum requirements:

Symbol	Meaning
	Wear head and eye protection
	Wear at least ankle-high foot protection
	Use gloves
	Use fall protection, if required

## 2.3 Safety markings on the system

The safety markings on the Martin® Slider Cradles must be kept in good condition and clearly visible at all times.

If parts of the system are replaced, ensure that the spare parts are or will be provided with appropriate safety markings.



### 3 Before Installation



#### DANGER

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#### **WARNING**

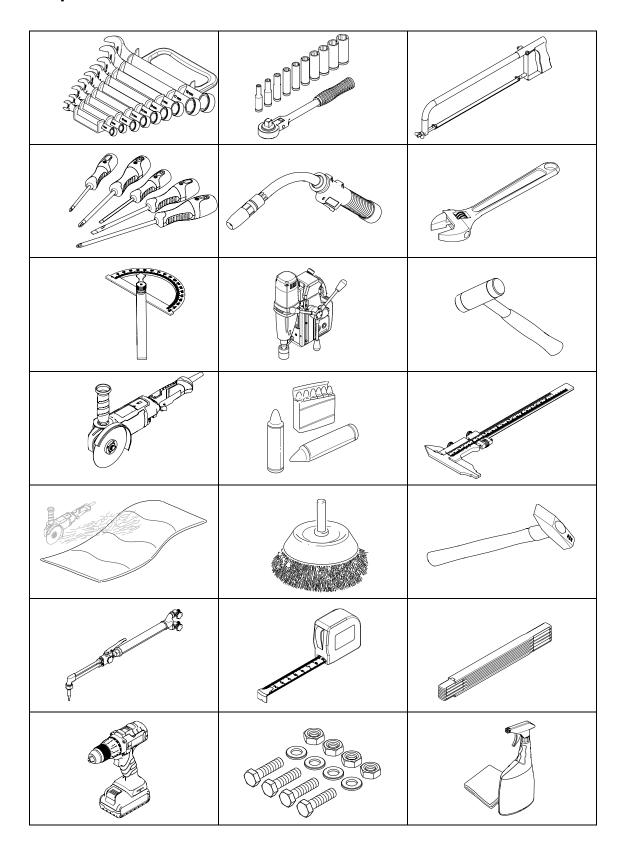
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 Determine whether occupational safety measures are necessary that go beyond the usual measures!



## 3.1 Required maximum of tools and materials





### 3.2 Unpacking/transportation



#### WARNING

#### Heavy weight

The Martin® Slider Cradles may have weights that require handling by lifting devices. Handling Impact Cradles by hand can cause serious skeletal injuries.

Use suitable aids if the load is > 25 kg per person!

When unpacking, all components must be checked for completeness and intactness.

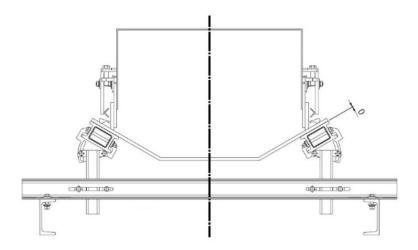
#### 3.3 Requirements for installation

When installing one or more Impact Cradles, it is necessary to verify there is adequate power in the conveyor drive to compensate for the additional frictional drag.

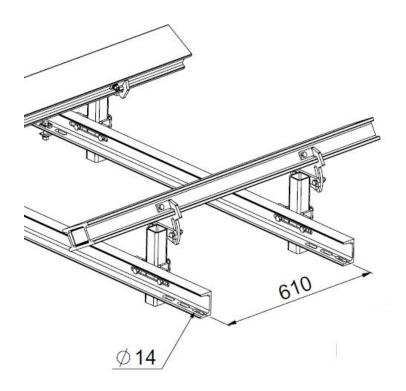
Consult Martin Engineering for additional information.

## 3.4 Determining the installation position

The illustrations show the typical and correct mounting position

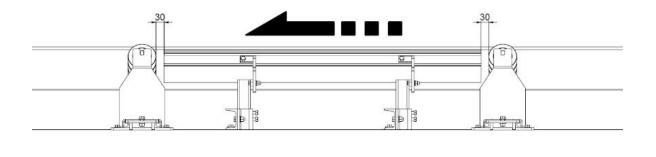






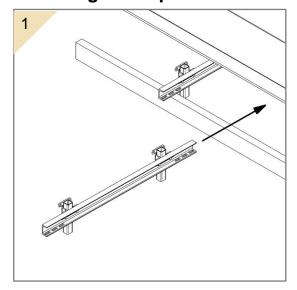
Notice: If the beams protrude sideways, they should be shortened and flush with the conveyor structure.

Idler stations should be installed before and after the stations. This results in the following dimensions

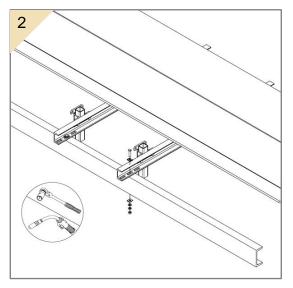




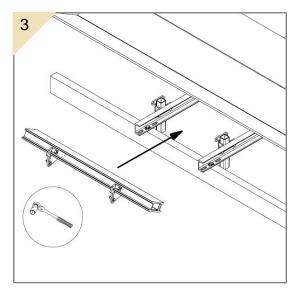
## 3.5 Mounting the Impact Cradles



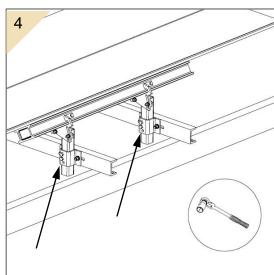
Mounting the cross bars (Mainframes)



Attaching the cross bars (Mainframes)

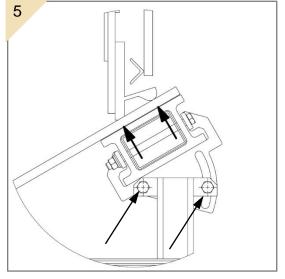


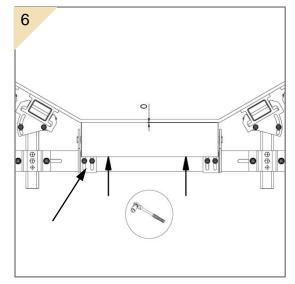
Mounting the bars



Adjusting the height







Adjusting the angle

Adjusting the height of the idler (if req.)

### 3.6 Placing labels

#### 3.6.1 Safety label

The safety label below must be attached to the conveyor system in the immediate vicinity of the Martin® Slider Cradles:



#### 3.6.2 Other labels

The labels below are attached to the product:

- Sticker showing the address of the Martin Engineering branch and the designation of the product
- 2. A sticker containing the tension values for the respective tensioner



## 4 Maintenance / Repair



#### **WARNING**

#### Danger of injury due to unapproved component parts

Unapproved parts can directly or indirectly cause personal injury or damage to property.

 Only use accessories and spare parts that are distributed by the manufacturer or are explicitly approved (in writing)!

#### 4.1 Maintenance

Interval	task
	Check that all securing parts are tightened. Tighten any loose connections as required.
weekly	Clean all warning labels. Replace any warning labels which are illegible.
	Check slider bars for wear.



#### **NOTE**

Remove equipment from service if there is any indication it is not functioning properly. Call Martin Engineering or representative for assistance. Do NOT return equipment to operation until the cause of the problem has been identified and corrected.



## 5 Disassembly / Recycling / Disposal

- 1. Disassemble Guardaseal by material groups as far as possible.
- 2. Contact official bodies (disposal centres, authorities) and request information about proper disposal or recycling possibilities.
- 3. Recycle the different materials.

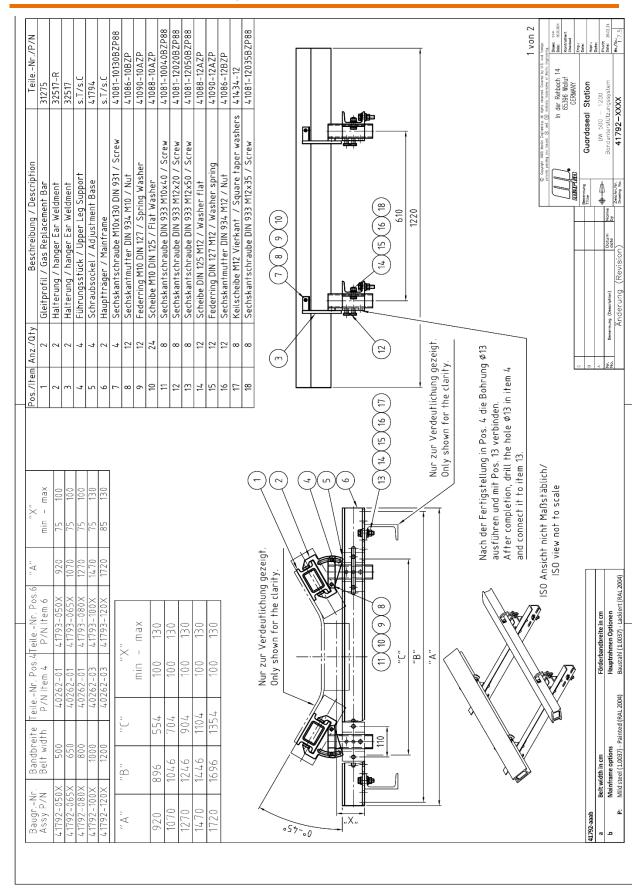
Only materials that cannot be reasonably recycled may be disposed of. Disposal must be carried out professionally.

Material groups that can be fed into a recycling process include:

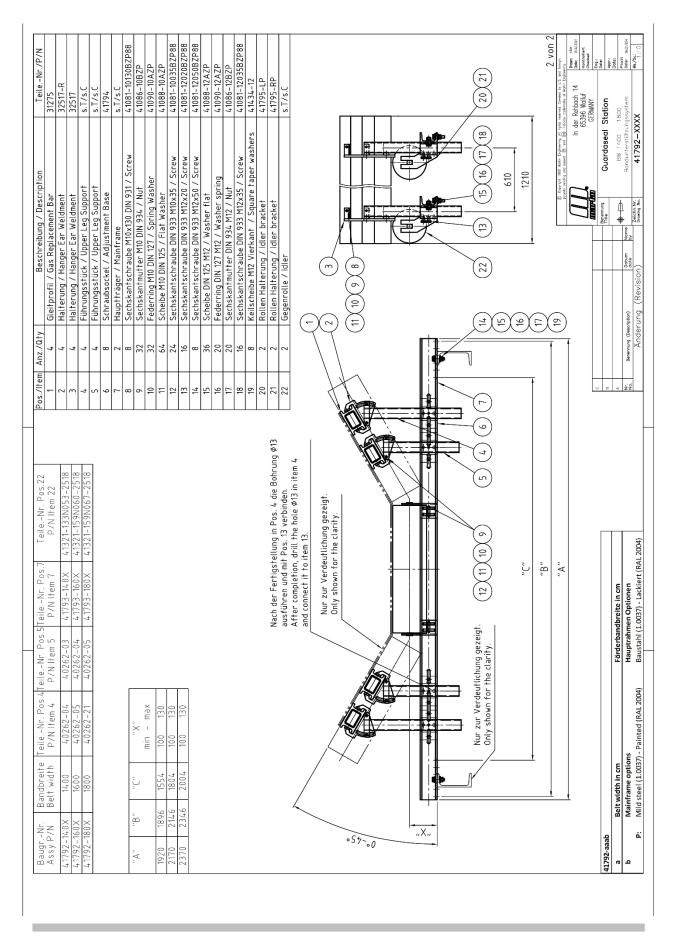
- Sheet steel
- Steel profiles
- Plastics
- Rubber
- Non-ferrous metals
- Electrical cables
- Electrical components (with copper content)
- Lubricants



## 6 Scope of delivery and spare parts









#### France

Martin Engineering SARL 50, Avenue d'Alsace, 68025 Colmar Cedex, France

Tel +33 3 89 20 63 24; Fax +33 3 89 20 43 79 info@martin-eng.fr; www.martin-eng.fr

#### Italy

Martin Engineering Via Monza 99/18, 20060 Gessate (MI), Italy Tel +39 02 9538 38 51 info@martin-eng.it; www.martin-eng.it

#### **Spain**

Martin Engineering Spain c/Balmes 297 3° 1° b 08006 Barcelona, Spain Tel. +34 876 245 114 info@martin-eng.es; www.martin-eng.es

### **United Kingdom**

Martin Engineering Ltd.
Unit 33, The Tangent Business Hub, Weighbridge Road,
Shirebrook, NG20 8RX, United Kingdom
Tel +44 115 946 4746
info@martin-eng.co.uk; www.martin-eng.co.uk

#### Germany

Martin Engineering GmbH In der Rehbach 14, 65396 Walluf, Germany Tel. +49 6123 9782-0; Fax +49 6123 7553-3 info@martin-eng.de; www.martin-eng.de

#### **Turkey**

Martin Engineering Türkiye Yukarı Dudullu İmes Sanayi Sitesi, B Blok 205 Sokak No.6 34775 Ümraniye Istanbul, Turkey Tel +90 216 499 34 91 info@martin-eng.com.tr; www.martin-eng.com.tr