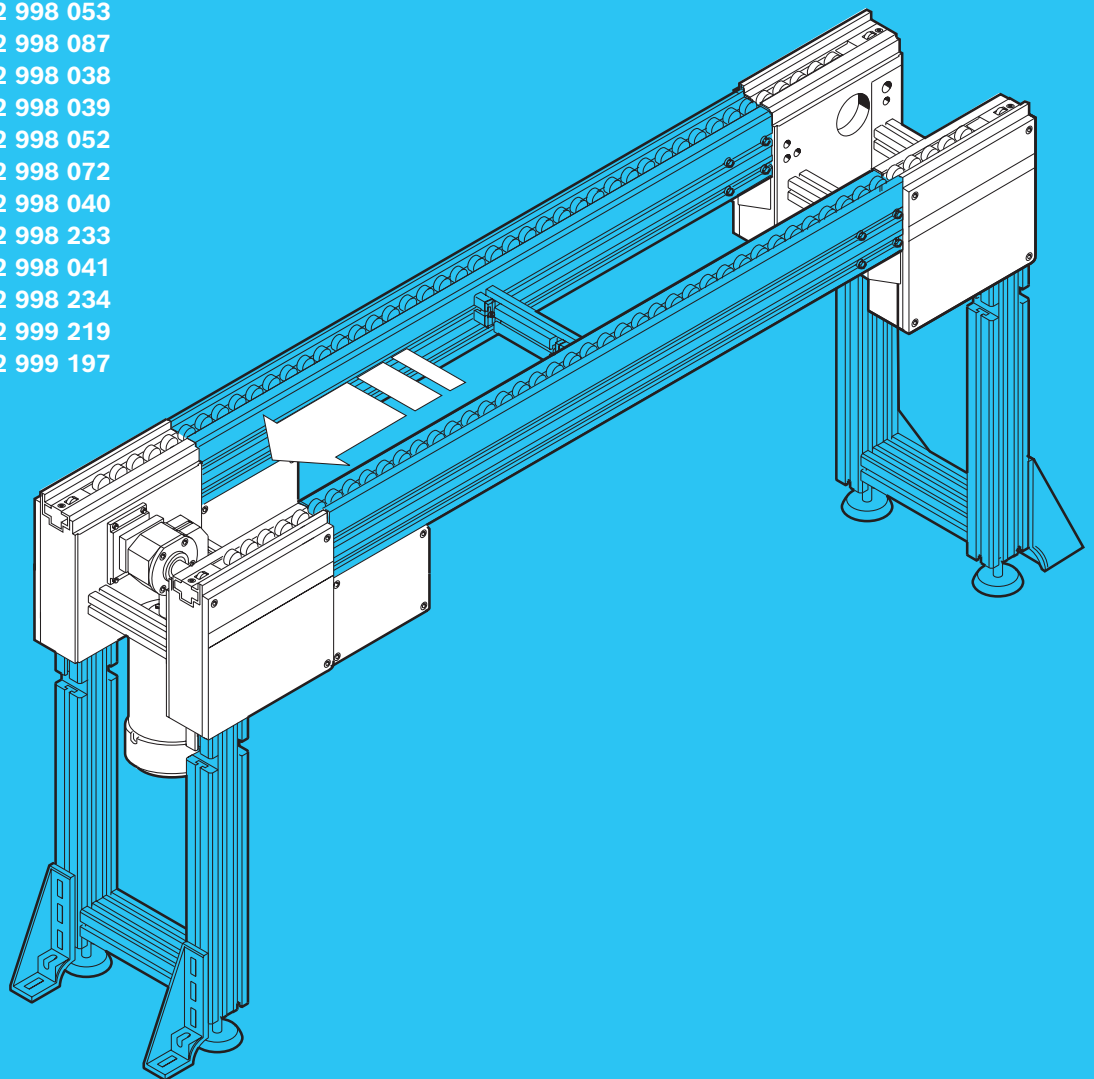


Drive modules

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AS 4/R-1500	3 842 999 219
AS 4/R-2400	3 842 999 197



The information in these instructions is for product description purposes only. Any information in these instructions on how to use the product only constitutes examples and recommendations. Catalog information is not binding. The information given does not exempt the user from the obligation of own judgment and verification. Our products are subject to natural wear and aging.

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An example configuration is shown on the title page. The delivered product may thus vary from the illustration.

The original assembly instructions are in German.

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1 About this documentation

1.1 Validity of the documentation

This documentation applies to the following products:

- AS 1
- AS 2/B-150
- AS 2/B-150 MA=M
- AS 2/B-250
- AS 2/B-250 MA=M
- AS 2/C-100
- AS 2/C-250
- AS 2/C-400
- AS 2/C-700
- AS 2/R-300
- AS 2/R-700
- AS 2/R-1200
- AS 2/R-1200 *Vplus*
- AS 2/R-2200
- AS 2/R-2200 *Vplus*
- AS 4/R-1500
- AS 4/R-2400

This document is intended for fitters, operators, and system owners.

It contains important information on the safe and proper assembly, operation, maintenance, disassembly, and simple troubleshooting of the product.

- Read this documentation completely and especially the chapter "Safety instructions" on page 6 before working with the product.

1.2 Required documentation

You must have completely read the documentation that is labeled with the book icon  and observed it before starting work on the product:

Table 1: Required documentation

	Title	Document number
	Assembly instructions AS 1 ¹⁾	3 842 521 452
	Assembly instructions AS 2/B-150 ¹⁾	3 842 524 592
	Assembly instructions AS 2/B-250 ¹⁾	3 842 517 997
	Assembly instructions AS 2/C, AS 2/R ¹⁾	3 842 524 774
	Assembly instructions SE 4/R ¹⁾	3 842 527 364
	Assembly instructions SE 2/C-H ¹⁾	3 842 536 683
	Assembly instructions SE 2/R-H ¹⁾	3 842 536 684
	Assembly instructions SE 2/R ¹⁾	3 842 531 137
	Assembly instructions SE 2/C ¹⁾	3 842 531 128
	Assembly instructions SE 2/R-V ¹⁾	3 842 537 367
	Employee safety training ¹⁾	3 842 527 147
	Catalog for transfer system TS 1 ¹⁾	3 842 528 596
	Catalog for transfer system TS 2 <i>plus</i> ¹⁾	3 842 531 138
	Catalog for transfer system TS 4 <i>plus</i> ¹⁾	3 842 527 530
	MT <i>pro</i> ²⁾ Spare parts list software download	

¹⁾ Download at: **www.boschrexroth.com/mediadirectory**

²⁾ Download at: **www.boschrexroth.com/mtpro**

2 Safety instructions

2.1 About this chapter

The product has been manufactured in accordance with the generally accepted rules of current technology. Nevertheless, there is a risk of injury or damage to property when using this product if the information contained in this document and the above mentioned documents are not observed.

For prevention of personal injury and damage to property:

- ▶ Thoroughly and completely read the safety instructions and assembly instructions and before assembling, commissioning or maintaining the product.
- ▶ Keep the documents accessible to all users at all times.
- ▶ Always include the safety and assembly instructions when giving the product to a third party.

2.2 Intended use

The product is an incomplete machine (according to EU Machinery Directive 2006/42/EC).

You may use the product as follows:

- Workpiece transport on Rexroth workpiece pallets in Rexroth transfer systems TS 1, TS 2*plus* or TS 4*plus*
- Operation in commercial sector
- Only start up an incomplete machine once it has been determined that the machine into which the incomplete machine is installed meets the requirements of EU Machinery Directive 2006/42/EC if applicable.

Intended use also includes having read and understood this document, especially the section "Safety instructions" and the assembly instructions.

2.3 Improper use

Any use other than that described in the section "Intended use" is considered improper and is not permitted.

Bosch Rexroth AG is not liable for any damage resulting from improper use. The user alone bears any risks associated with improper use.

Improper use of the product includes:

- Transportation of persons.

2.4 Personnel qualifications

The activities described in the assembly instructions require basic knowledge of mechanical and electrical principles, as well as knowledge of the corresponding technical terms. To ensure safe use, these activities should therefore only be performed by qualified personnel or by an instructed person acting under the direction of such a person.

"Qualified personnel" refers to those who can recognize potential hazards and take appropriate safety measures based on their technical training, knowledge, experience, and understanding of the relevant regulations pertaining to the work being performed.

Qualified personnel must observe all specific professional rules.

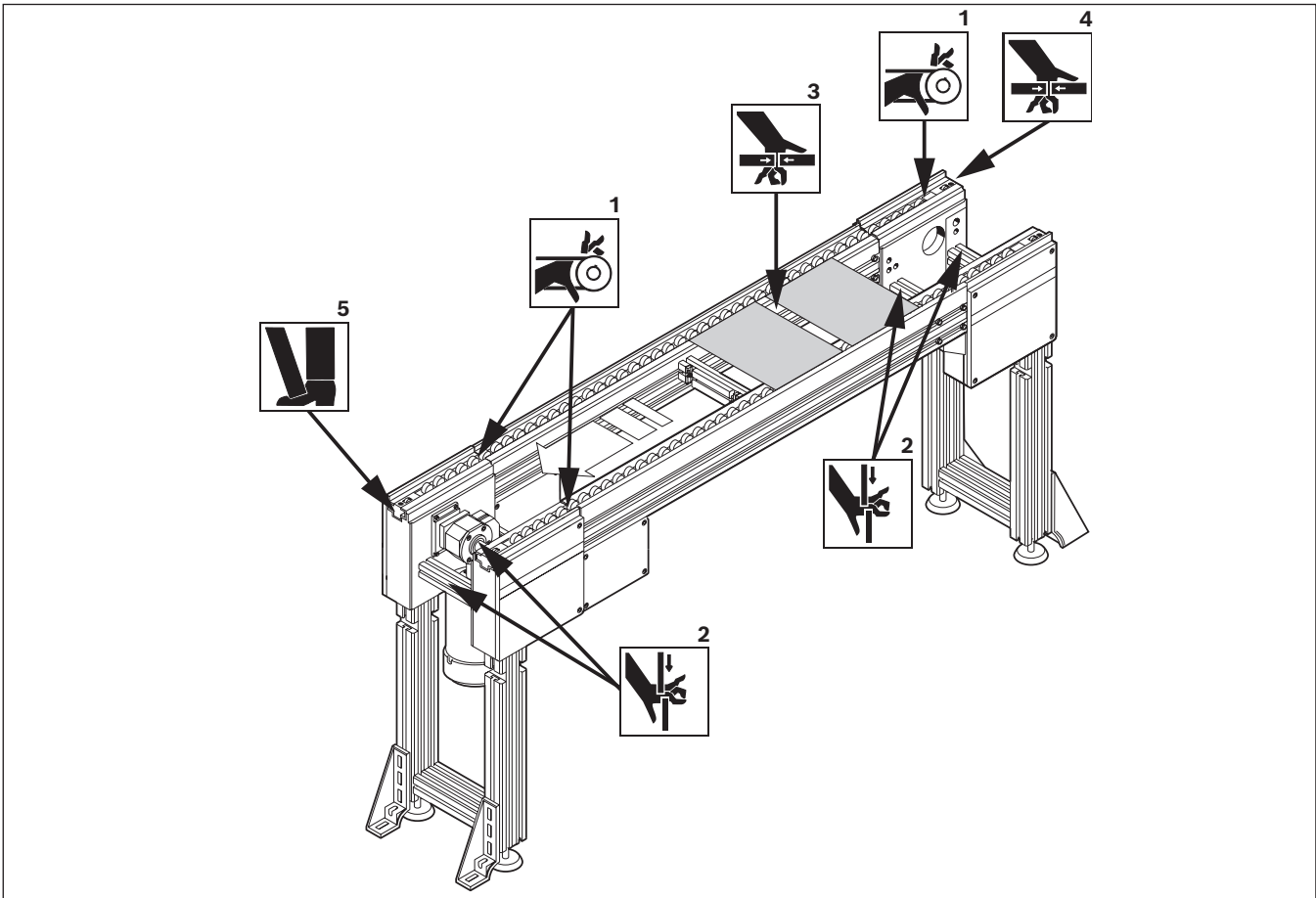
2.5 Safety instructions

- Only use Rexroth products that are in proper working order.
- Observe all the notices on the product.
- Only use accessories and replacement parts approved by the manufacturer.
- Observe the technical data and ambient conditions specified in the catalog for the transfer systems TS 1, TS 2*plus* or TS 4*plus*.
- You may not alter the product design principle.
- The motor heats up heavily during operation. Allow to cool before touching or protect against burns with suitable protective clothing, e.g. heat-resistant gloves.
- Before switching on the system, always ensure that there are no objects on the product, except for the workpiece pallets to be transported. Failure to do so may result in injuries caused by falling objects.
- Do not step onto the product.
- Only allow people to be in the immediate vicinity of the product when it is operating if they are authorized by the owner to be there. This also applies when the product is idle.
- Do not reach into moving parts.
- Wear appropriate protective equipment (e.g. protective footwear) when handling the product. See "Employee safety training".
- Switch off the energy supply systems before all assembly, installation, maintenance and repair work. Secure against unintentional reconnection.
- Observe the applicable accident prevention and environmental protection regulations.
- Observe the safety rules and regulations of the country in which the product is being used.

2.6
Residual risks

Table 2: Residual risks

	Location	Situation	Hazard		Action
1	Conveyor medium pinch point	Pieces of clothing or long hair can be pulled in		Crushing Pulled out hair	Do not reach into the system while it is running. Wear protective clothing.
2	Cross connector, gear, drive shaft: Between component and workpiece pallet	Trapping of body parts		Shearing	Do not reach into the system while it is running. Structural solution required in working area.
3	Between workpiece pallets	Trapping of body parts		Crushing	
4	Section transfers	Trapping of body parts between conveyor medium (belt, flat top chain, roller chain) and workpiece pallet		Crushing	Structural solution, e.g. by stopper
5	End of belt section	Pinching of body parts caused by falling parts		Crushing	



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