



Tool Cart

WZW

Assembly and operating manual

Imprint

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Technical changes:

We reserve the right to make alterations for the purpose of technical improvement.

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Dear Customer,

Thank you for trusting our products and our family-owned company, the leading technology supplier of robots and production machines.

Our team is always available to answer any questions on this product and other solutions. Ask us questions and challenge us. We will find a solution!

Best regards,

Your SCHUNK team

Customer Management

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Please read the operating manual in full and keep it close to the product.

Table of Contents

1 General	4
1.1 About this manual.....	4
1.1.1 Illustration of safety notes	4
1.1.2 Applicable documents	5
1.2 Warranty	5
1.3 Scope of delivery.....	5
1.3.1 Additional options.....	5
2 Basic safety notes	6
2.1 Intended use.....	6
2.2 Not intended use	6
2.3 Notes on particular risks	6
2.4 Instructions for safe operation	8
2.5 Structural changes.....	8
2.6 Personnel qualifications	8
2.7 Organizational measures.....	9
2.8 Personal protective equipment	9
3 Technical Data	10
4 Assembly	11
4.1 Pre-assembly measures	11
4.2 Assembly steps	11
5 Functional description and operation	14
5.1 Sliding and setting down the tool cart	14
5.2 Load rating	15
5.3 Transport.....	16
6 Care	17
7 Disposal	18
8 Part list	19
9 Drawings	22

1 General

1.1 About this manual

This manual contains important information for the safe, correct use of the product.

It is an integral part of the product and must be kept accessible for personnel at all times.

Personnel must have read and understood this manual before beginning any work. The observance of all safety notes in this manual is a prerequisite to ensure safe work processes.

The illustrations are intended to provide a basic understanding and may deviate from the actual version.

Besides this manual, other documents which apply are those listed under ▶ 1.1.2 [5]

1.1.1 Illustration of safety notes

To make risks clear, the following signal words and symbols are used for safety notes.



⚠ DANGER

Denotes a hazard with a high degree of risk that, if not avoided, will result in death or serious injury.



⚠ WARNING

Denotes a hazard with a medium degree of risk that, if not avoided, could result in death or serious injury.



⚠ CAUTION

Denotes a hazard with a low degree of risk that, if not avoided, could result in a minor or moderate injury.

NOTICE

Information about avoiding material damage.

1.1.2 Applicable documents

- General terms of business *
- Catalog data sheet of the purchased product *

The documents labeled with an asterisk (*) can be downloaded from schunk.com/downloads.

1.2 Warranty

If the product is used as intended, the warranty is valid for 24 months from the ex-works delivery date under the following conditions:

- Observe the applicable documents, ▶ [1.1.2 \[5\]](#)
- Observe the ambient conditions and operating conditions
- Observe the maximum permissible load rating. ▶ [5.2 \[15\]](#)
- Observance of the specified care and maintenance instructions ▶ [6 \[17\]](#)

Mounting plate, screw connections, bearings, screws, and wearing parts are not covered by the warranty.

1.3 Scope of delivery

- Tool cart in the ordered version
- Assembly and Operating Manual

1.3.1 Additional options

(see catalog or data sheets when ordering separately)

- Drip pan

2 Basic safety notes

Improper handling, assembly and maintenance of this product may result in risk to persons and equipment if this manual is not observed.

Report any damage and defects immediately and repair without delay to keep the extent of the damage to a minimum and avoid compromising the safety of the product.

Only original SCHUNK spare parts may be used.

2.1 Intended use

This product is designed for storing and transporting tools.

The mounting plates of the tool carts VDI 40, ID number 1471607; 1471608; 1471609 may only be equipped with toolholders according to the standard DIN ISO 10889-1.

The technical data specified by the manufacturer must never be exceeded.

The product is designed for industrial use.

Intended use also includes the user having to read and understand this entire operating manual and particularly the "Basic Safety Notes" chapter.

2.2 Not intended use

The product is not being used as intended if, for example:

- It is used for transporting people or devices.
- It is used in working environments that are not permissible.
- The technical data specified by the manufacturer are exceeded during usage.

2.3 Notes on particular risks

This product may pose a danger to persons and property if, for example:

- It is not used as intended;
- It is not installed or maintained properly;
- The safety and installation instructions, local applicable safety and accident prevention regulations or the EC Machinery Directive are not observed.



⚠ WARNING

Risk of injury due to falling parts when setting up, operating, dismantling, and transporting the tool cart.

Parts that have not been properly secured or incorrectly positioned parts can become loose and fall down.

- Use suitable lifting equipment and means of transport.
- Position the tools safely.
- When transporting and using tool carts, stay clear of the danger area.
- Wear personal protective equipment.



⚠ WARNING

Risk of injury as a result of the tool cart tilting if the mounting plate is loaded unevenly or top-heavy.

- Load the tool cart evenly.
- Observe the maximum load weight.



⚠ WARNING

Risk of crushing or bumping injuries with the moving tool cart.

Danger of crushing or bumping while pushing the tool cart or if it starts moving of its own accord on uneven ground.

- Observe the stopping distance required as a result of inertia when pushing the tool cart.
- When parking the tool cart, always actuate the holding brake.



⚠ WARNING

Risk of injury due to accessibility and body posture

The body postures required during setup, operation, disassembly and transport may lead to physical and psychological stress.

- Use suitable lifting equipment.
- Wear personal protective equipment.
- Create suitable conditions in the working environment.



⚠ CAUTION

Risk of crushing when loading and unloading the setup cart.

- Wear personal protective equipment.



⚠ CAUTION

Risk of slipping or falling if the working environment of the tool cart is not clean (e.g. spillage of cooling lubricants or oil).

- Ensure that the working environment is clean before starting assembly, disassembly and de-installation work.
- Wear suitable safety boots.
- Observe the safety and accident prevention regulations when operating the tool cart.



⚠ CAUTION

Risk of injury due to sharp edges and rough or slippery surfaces.

There is a risk of suffering abrasions due to rough parts of the tool cart and its accessories.

- Wear personal protective equipment, particularly protective gloves.

2.4 Instructions for safe operation

- Make sure the load on the tool cart is equal when loading and unloading.
- Only use on even ground.
- During storage as well as during loading and unloading, activate the holding brake of the guide roller.
- Use the handles to slide the tool cart.
- Never let the tool cart roll by itself.
- When on uneven or sloping surfaces, make sure that the tool cart does not tilt or is set into motion of its own accord.

2.5 Structural changes

Implementation of structural changes

Modifications, changes or reworking, e.g. additional threads, holes, or safety devices, can damage the product or impair its functionality or safety.

- Structural changes should only be made with the written approval of SCHUNK.

2.6 Personnel qualifications

Inadequate qualification of personnel

Any work on the product by inadequately qualified personnel can lead to serious injuries and considerable material damage.

- All work must be performed by appropriately qualified personnel.
- Personnel must have read and understood the complete manual before beginning any work on the product.
- Observe country-specific accident prevention regulations and the general safety notes.

The following personnel qualifications are required for the various activities on the product:

Qualified electrician	Qualified electricians have the professional training, knowledge, and experience to work on electrical systems, to recognize and avoid potential dangers, and know the relevant standards and regulations.
Specialist personnel	Specialist personnel have the specialized training, knowledge, and experience to perform the tasks entrusted to them, to recognize and avoid potential dangers, and know the relevant standards and regulations.
Instructed person	Instructed persons have been instructed by the operator regarding the tasks entrusted to them and the potential dangers of inappropriate behavior.
Manufacturer's service personnel	The manufacturer's service personnel have the specialized training, knowledge, and experience to perform the work entrusted to them and to recognize and avoid potential dangers.

2.7 Organizational measures

Obeying the rules

The operator must employ suitable organizational measures and instructions in order to ensure that the relevant safety rules are obeyed by the persons asked to operate, maintain and repair the tool cart.

Monitoring the behavior of personnel

The operator must at least occasionally check that the personnel are behaving in a safety-conscious manner and are aware of the potential hazards.

Danger signs

The operator must ensure that the signs concerning safety and hazards on the machine where the tool cart is used are clearly legible and are observed.

Malfunctions

If safety-relevant malfunctions occur on the tool cart, the tool cart should be stopped immediately and kept out of operation until the malfunction is identified and eliminated. Only allow specialists to remedy malfunctions.

Spare parts

Only use original SCHUNK spare parts.

Environmental regulations

Comply with the applicable legal norms when disposing of waste.

2.8 Personal protective equipment

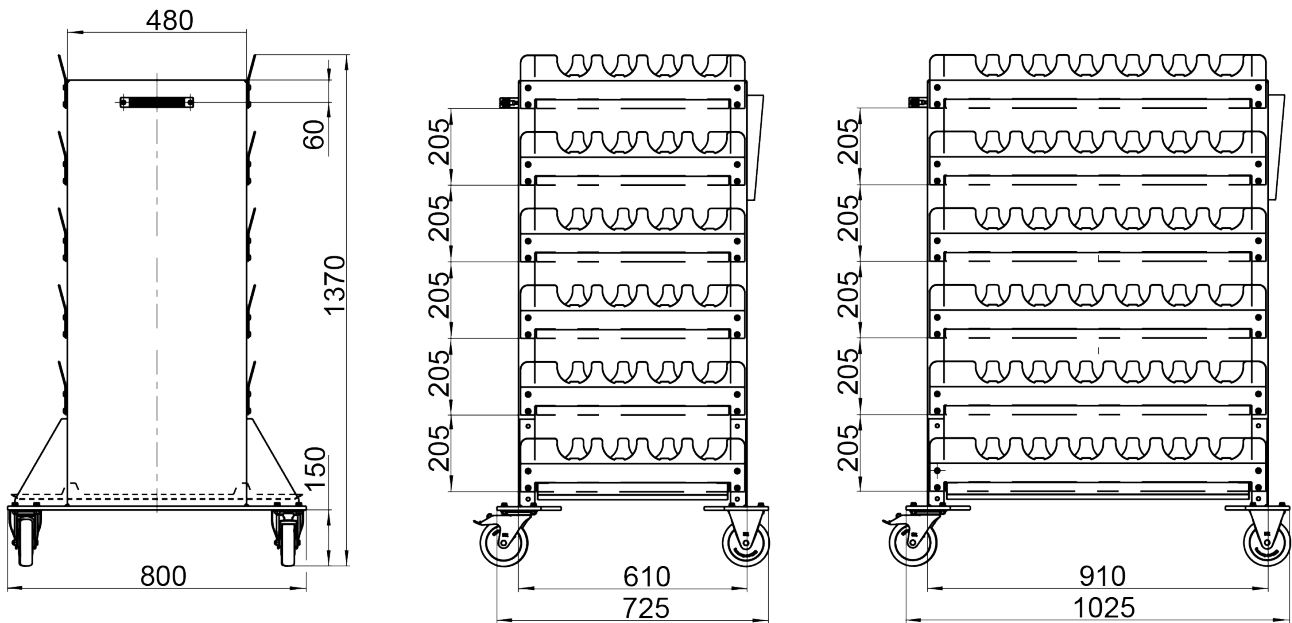
Use of personal protective equipment

Personal protective equipment serves to protect staff in the event of a danger that may interfere with their health or safety at work.

3 Technical Data

Designation	Type 725	Type 1025
Total height [mm]	1370	1370
Overall width [mm]	725	1025
Overall depth [mm]	800	800
Unladen weight [kg]	72	84
Maximum tool length to be stored [mm]	530	530
Operating temperature [°C]	15 to 60	15 to 60

The product is intended for industrial use when operated in closed rooms. For this reason, it should be protected against excess humidity, chemical vapors and contamination.



4 Assembly

4.1 Pre-assembly measures

The item numbers specified for the corresponding individual components relate to the chapter Drawings, ▶ 9 [22].

Carefully lift the product (e.g. using suitable lifting gear) from the packaging.



⚠ CAUTION

Danger of injury due to sharp edges and rough or slippery surfaces

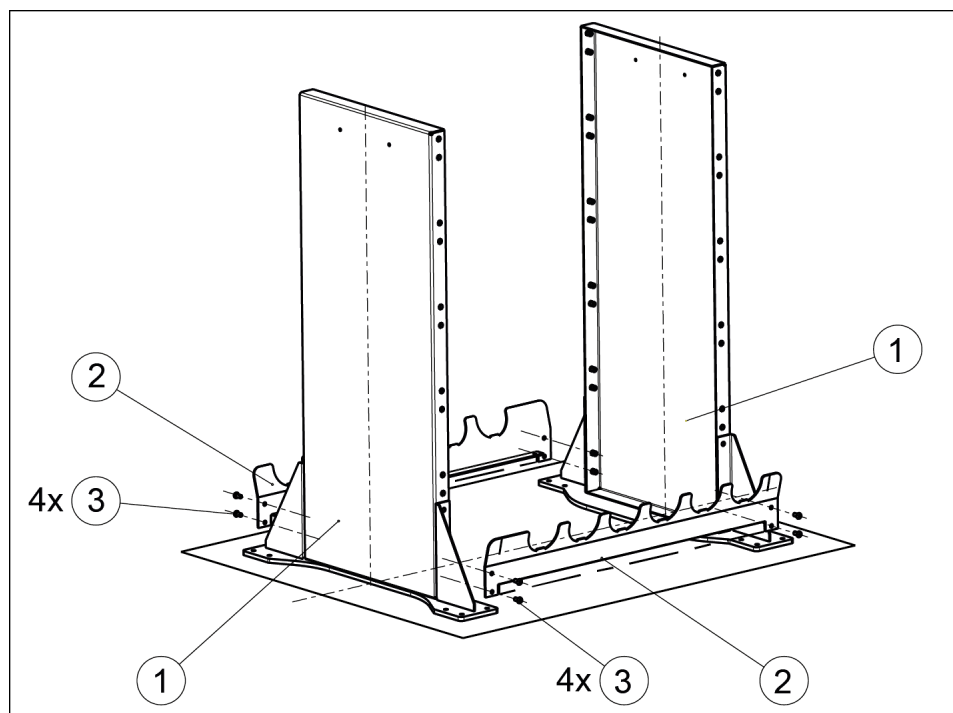
- Wear personal protective equipment, particularly protective gloves.

Check the delivery for completeness and for transport damage.

4.2 Assembly steps

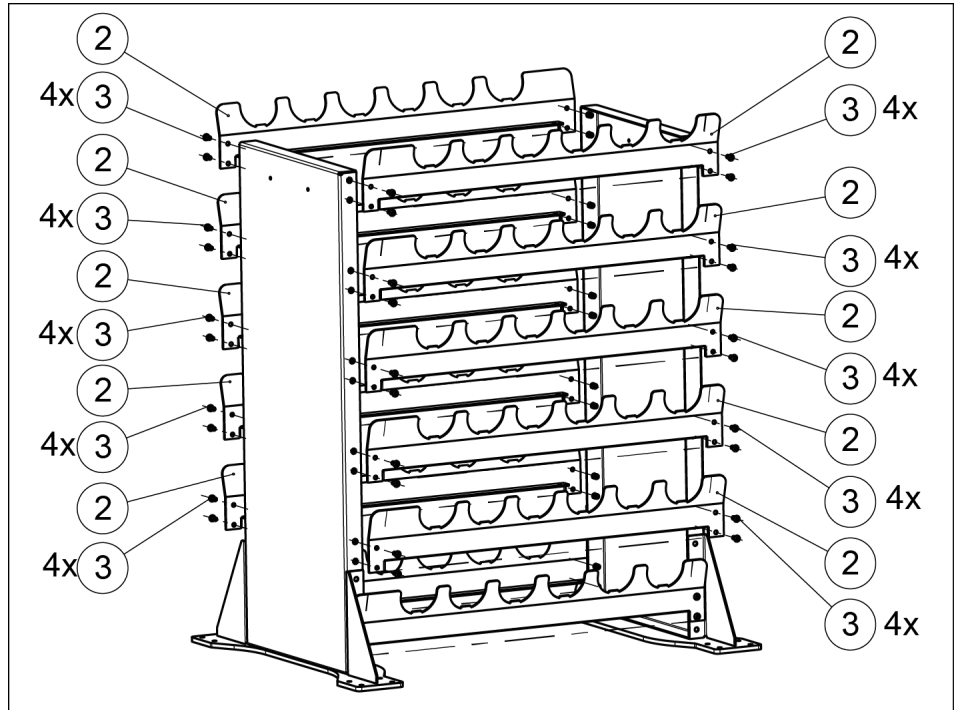
1. Screw side part with 2 mounting plates

- Screw mounting plates (item 2) and complete side part (item 1) together with pan-head screws (item 3).
- Tightening torque MA = 20 Nm.



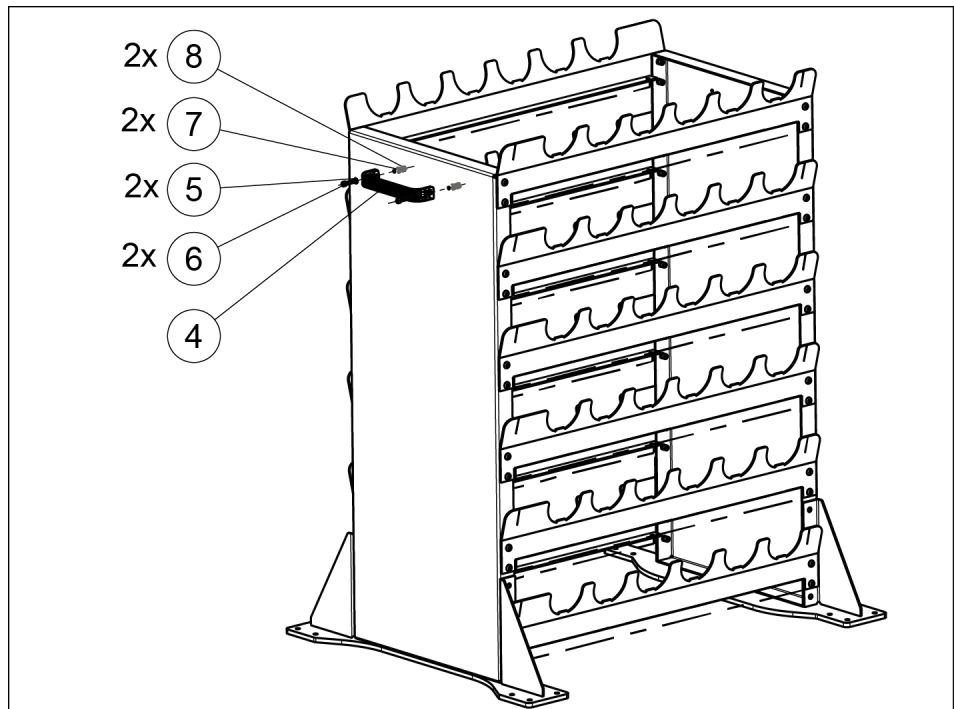
2. Screw remaining mounting plates together

- Mount remaining mounting plates (item 2) with pan-head screws (item 3).
- Tightening torque MA = 20 Nm.



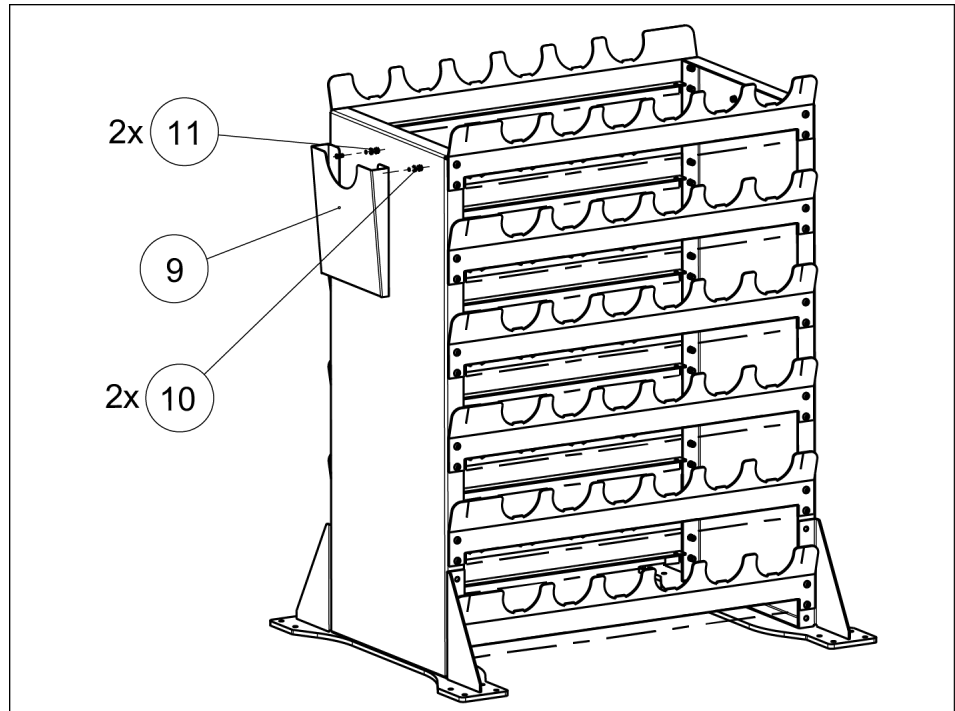
3. Mounting the ball handle

- Join ball handle (item 4) together with complete side part (item 1).
- Assemble this using cylindrical screw (item 6), washer (item 5), washer (item 7) and hexagon nut (item 8).



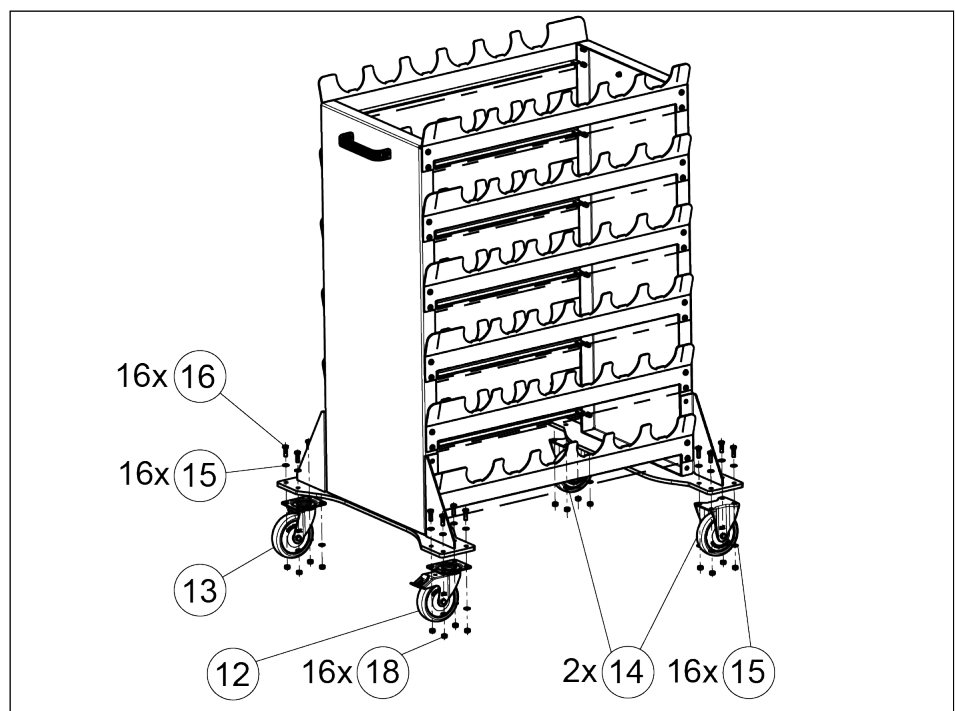
4. Mounting the document holder

- Screw document holder (item 9) together with washer (item 10) and hexagon nut (item 11).



5. Mounting the rollers

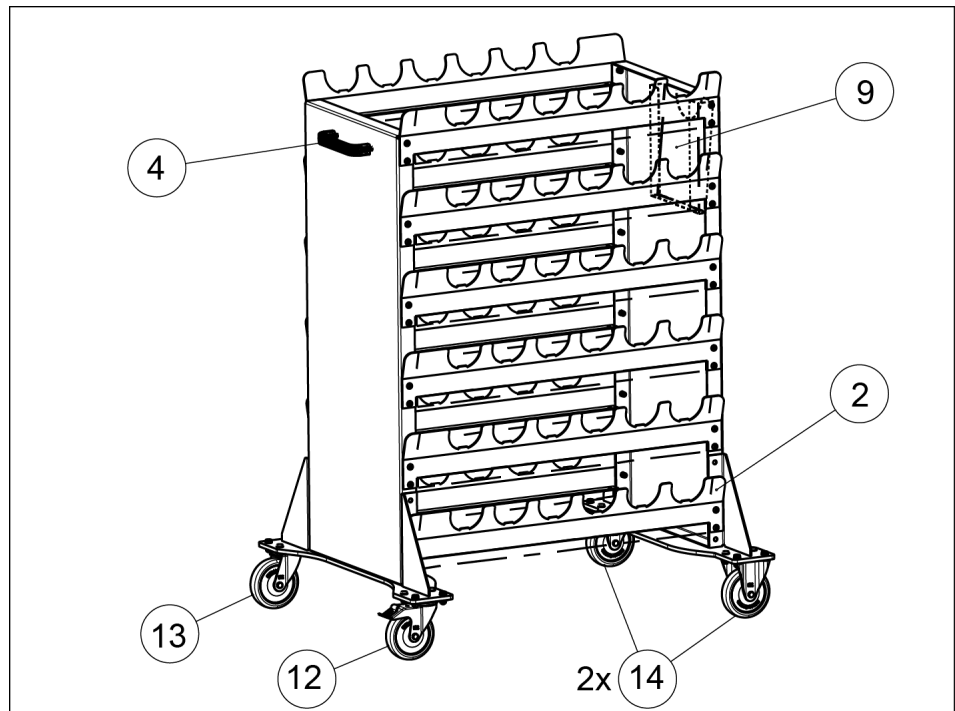
- Assemble braked guide roller (item 12) on the right of the side part (with ball handle) (item 1).
- Assemble guide roller (item 13) on the left of the side part (with ball handle) (item 1).
- Assemble rollers (item 14) on the right and left of side part (with document holder) (item 1).
- Tightening torque MA = 20 Nm.



5 Functional description and operation

5.1 Sliding and setting down the tool cart

The tool cart has two fixed rollers for heavy loads (item 14) and two guide rollers (items 12 and 13). Item 12 has a holding brake. There is a handle (item 4) to slide the tool cart.



Tool carts with handle (item 4), guide rollers (item 12 and 13), fixed rollers (item 14), mounting plates (item 2) and document holder (item 9).

The tool cart is used to safely set up tools directly on the machine with short access times. It is only suitable for transporting tools.

For more information on transporting, see ► 5.3 [16].

When sliding the tool cart, the stopping distance needs to be taken into consideration according to the load. The holding brake is not suitable for decelerating the tool cart. The holding brake is used to prevent it from moving of its own accord after already stopping.

5.2 Load rating

The load rating depends on the number of mounting plates, which must always be arranged in pairs.

Number of mounting plates	Load rating	Illustration
12	400 kg	12 mounting plates
10	330 kg	
8	260 kg	8 mounting plates
6	190 kg	6 mounting plates

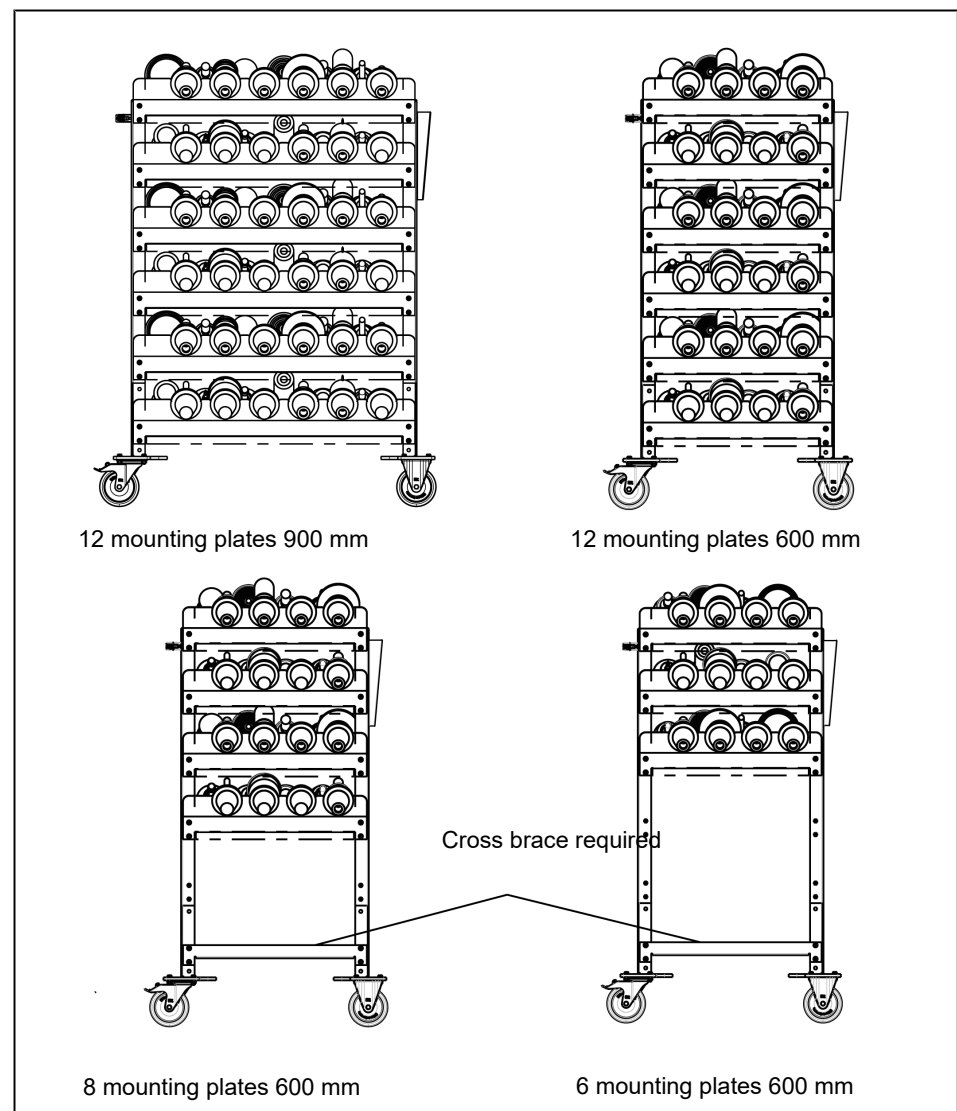


⚠ CAUTION

Risk of injury if the tool cart tips over

The center of gravity shifts upwards as the number of mounting plates decreases. This can cause the tool carts to tilt more rapidly.

Wear personal protective equipment, particularly safety shoes.



5.3 Transport

When sliding the tool cart over longer distances, the following notes must be taken into account depending on the means of transport:

- The tool cart does not have a brake which would make deceleration possible when sliding. If the setup cart is moved by hand, it will need to be brought to a standstill again manually. Depending on the load, the required stopping distance needs to be taken into consideration.
- Transport on EPAL Euro pallets:
Before lowering the tool cart to the EPAL Euro pallet, place anti-slip mats under the rollers. Actuate the holding brake at the guide roller. Secure the tool cart to the pallet using tension belts or straps.

6 Care

The side parts of the tool cart are powder-coated. The mounting plates and document holder are made from stainless steel.

Cleaning recommendation for powder-coated surfaces:
(check on non-visible surfaces first, e.g. on the underside of the cart)

- Use cleaning towels or cloths / natural or plastic sponges. Do not use cleaning pads made of plastic or steel wool.
- For light dirt, clean with clear water (cold or lukewarm). If necessary, supplement with small amounts of neutral or slightly alkaline detergents.
- With stubborn contamination, like greasy or oily substances, aroma-free gasoline hydrocarbons can be used.
- Do not use any scouring or abrasive materials.
- Do not use any acidic or strongly alkaline cleaning or surface-active agents.
- Do not use any organic solvents which contain ester, ketone, alcohol, aromas, glycol ether, halogenated hydrocarbons or similar.
- Surface or detergent temperature < 25°C.

7 Disposal

After decommissioning the tool cart:

- Disassemble the bow handle (plastic) and dispose properly in line with the statutory provisions.
- Dispose of the setup cart's metal parts as scrap metal.

Alternatively, you can return the setup cart to SCHUNK for proper disposal.

8 Part list

When ordering spare parts, it is absolutely essential that the exact designation is indicated. Mounting plate, screw connections, screws and wearing parts are generally not covered by the warranty.

Variants of the mounting plates

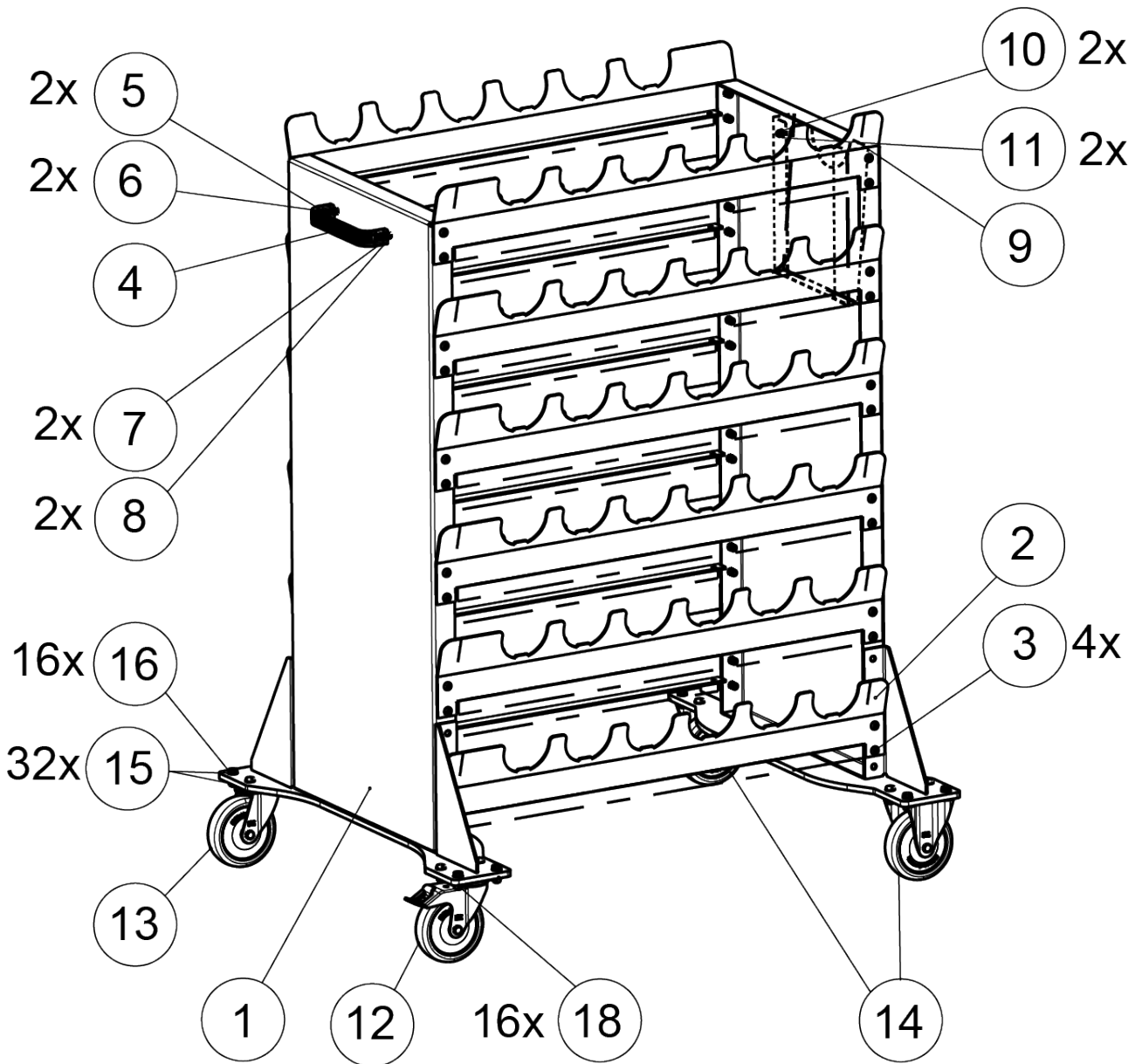
Toolholder system	Mounting plate width [mm]	Mounting plate quantity	Toolholder quantity	ID number WZW	
BT 30	600	6	48	1154313	
		8	64	1154314	
		12	96	1154315	
	900	12	144	1154316	
	BT 40	600	6	36	1154289
			8	48	1154291
12			72	1154292	
900		12	120	1154293	
BT 50		600	6	24	1154303
			8	32	1154304
	12		48	1154305	
	900	12	72	1154306	
	CAPTO C5	600	6	36	1637926
			8	48	1637927
12			72	1637928	
900		12	120	1637929	
CAPTO C6		600	6	36	1154285
			8	48	1154286
	12		72	1154287	
	900	12	120	1154288	
	CAPTO C8	600	12	48	1465902
	HSK-A 40	600	6	48	1154309
8			64	1154310	
12			96	1154311	
900		12	156	1154312	
HSK-A 50		600	6	48	1465901
		900	12	144	1607802
HSK-A 63	600	6	36	1154274	
		8	48	1154275	
		12	72	1154276	
	900	12	120	1154277	

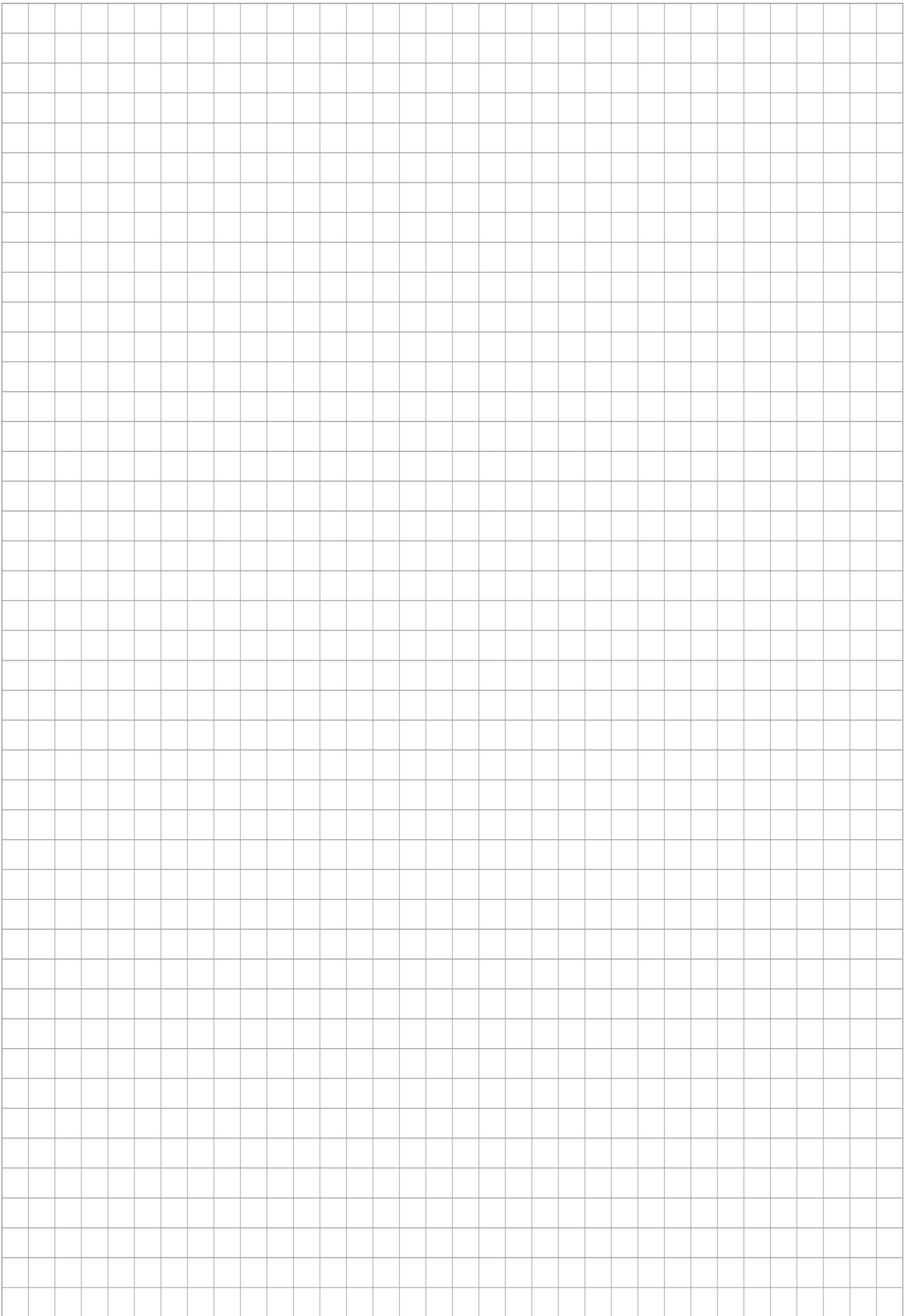
Toolholder system	Mounting plate width [mm]	Mounting plate quantity	Toolholder quantity	ID number WZW	
HSK-A 80	600	6	30	1341137	
		8	40	1341138	
		12	60	1341139	
	900	12	96	1341140	
	HSK-A 100	600	6	24	1154295
			8	32	1154296
12			48	1154297	
900		12	72	1154298	
SK 30		600	6	42	1612676
			8	56	1612677
	12		84	1612678	
	900	12	132	1612679	
	SK 40 / CAT 40	600	6	36	1154279
			8	48	1154281
12			72	1154283	
900		12	120	1154284	
SK 50 / CAT 50		600	6	24	1154299
			8	32	1154300
	12		48	1154301	
	900	12	72	1154302	
	VDI 30	600	6	36	1525544
	VDI 40	600	6	30	1471607
8			40	1471608	
12			60	1471609	

Item	Designation	Quantity	Note
1	Side part, complete	2	
2	Mounting plate 600 mm	6	725
	Mounting plate 600 mm	8	725
	Mounting plate 600 mm	12	725
	Mounting plate 900 mm	12	1025
3	Pan-head screw M8 x 18 mm	4	per mounting plate
4	U-handle	1	
5	Washer Ø 6.4 mm	2	
6	Cylindrical screw 8.8 M6 x 22 mm	2	
7	Washer Ø 6.4 mm	2	
8	Hexagon nut M6	2	
9	Document holder complete	1	
10	Washer Ø 6.4 mm	2	
11	Hexagon nut M6	2	
12	Guide roller LE-PATH 125K-FI	1	
13	Guide roller LE-PATH 125K-FK	1	
14	Guide roller B-PATH 125K-FK	2	
15	Washer Ø 8.4 mm	32	
16	Hexagon screw M8 x 25 mm	16	
18	Hexagon nut M8	16	
19	Stiffener angle 600	2	*
20	Pan-head screw M8 x 18 mm	8	*

* only for tool carts, with 6 or 8 mounting plates available

9 Drawings







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