



Dear customer

We are pleased that you have chosen a product from the Schmitter Hydraulik product range.

In order to fully exploit the performance of your chosen product, please read these operating and assembly/installation instructions carefully before initial commissioning and use. Please solely operate the product in accordance to our instructions.

The operational safety and function of the product unit can only be guaranteed if both the general safety and accident prevention regulations of your legislator and the safety instructions in this operating manual are observed. We accept no liability for damages caused by improper use or incorrect operation.

Please ensure that all persons who operate the product have both read and understood the operation instructions. Keep the operating instructions in a safe place so that you can access them at any time if necessary.

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PRODUCT DESCRIPTION

The hose decoiler has been developed for storing and handling all types of hoses, especially hoses for hydraulic applications. The very solid steel framework holds 7 steel baskets, each mounted on a swivelling arm. Therefore, the hose can be easily inserted when the basket has been swivelled out. Every basket can be rotated separately. In order to enable easier extraction of the hose ends and to prevent uncontrolled hose movement, the hose is guided through a ring enclosed by rotatable plastic balls. Stability of the hose decoiler is additionally supported by a one-sided reinforcement strut.

FOR YOUR SAFETY

Observe the operating instruction!

Commissioning and handling require precise knowledge and observance of these instructions. The product is only intended for the application described.

The operating and assembly instructions contain particularly important remarks which have been highlighted as follows:



This warning indicates risk situations and dangers. Disregarding it can lead to injuries and life-threatening situations. Consequently it must be strictly observed.

Safety instructions

The product has been designed for both storage and handling of plastic, rubber and rubber-containing hoses, up to a mass of 80 kg per decoiler basket. Please make sure that you comply with these instructions for use.

Liability for function and damage

Liability for the function of and damage to the product shall in all cases pass to the owner or operator if it is improperly maintained, repaired or modified by persons who do not belong to an authorised specialist company or if it is handled in a manner that does not correspond to its intended use.

The product must be maintained and operated in accordance with these operating and assembly instructions. Schmitter Hydraulik GmbH is not liable for damages caused by failure to observe the aforementioned instructions. The warranty and liability conditions of the Schmitter Hydraulik GmbH terms and conditions of sale and delivery are not extended by the above information. Ensure that the operating and assembly instructions are accessible at all times and that they are read and understood.

Areas of application

The hose decoiler serves the purpose of storing and handling all types of hoses, especially hoses for hydraulic applications.



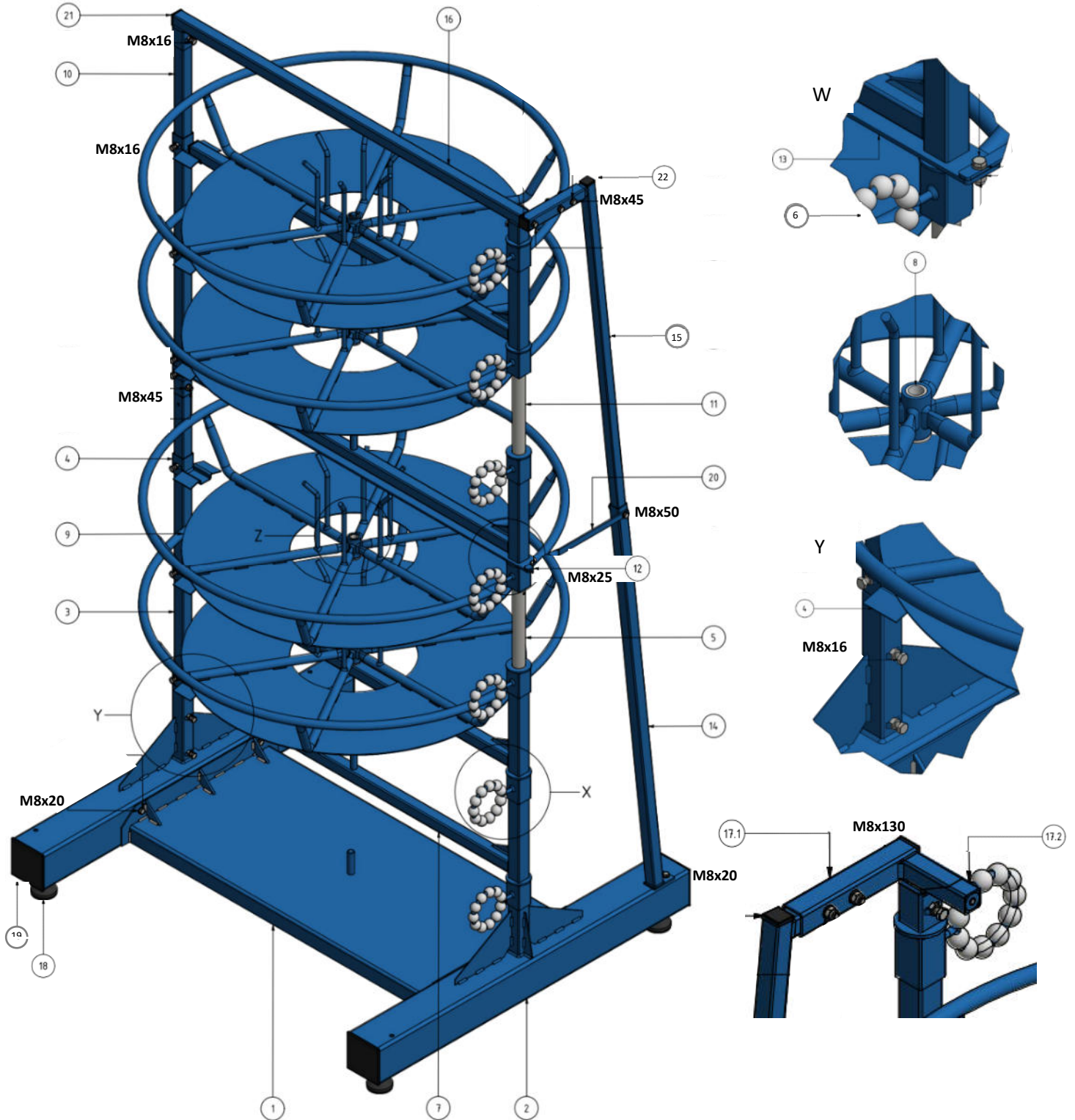
MOUNTING INSTRUCTION

Product overview - parts list

Pos	pcs	Description
1	1	Base plate
2	2	Base carrier
3	1	Square tube
4	6	Swivel arm support
5	1	Cylindrical steel tube
6	7	Square sleeve with hose guide
7	6	Decoiler plate arm
8	7	Plastic plain bearing
9	7	Decoiler plate
10	1	Square tube
11	1	Cylindrical steel tube
12	1	Stabiliser bar fixture
13	1	Stabiliser bar
14	1	Bottom stabiliser
15	1	Upper stabiliser
16	1	Upper cross connection
17.1	1	Stabiliser
17.2	1	Tightening counter wedge
18	4	Foot
19	4	Endplate 100x100 mm
20	1	Stabiliser bar
21	8	Endplate 30x30 mm
22	1	Endplate 25x25 mm
	24	Lock washer 8 mm
	13	Hexagon screw M8x16
	10	Hexagon screw M8x20
	1	Hexagon screw M8x25
	4	Hexagon screw M8x45
	1	Hexagon screw M8x50
	1	Hexagon screw M8x130
	8	Hexagon nut M8



Product overview illustration





Unpacking and transportation

Carefully remove the individual parts from the box. Remove the protective packaging from the respective individual part and place it in the order of removal on a surface that protects the surface of the parts from damage (e.g. wood or cardboard). The packaging material (cardboard box and paper) can be recycled. Please directly compare the parts list with the actual contents.

Transport the assembled hose decoiler with a pallet truck or forklift on a sufficiently large and stable pallet.



The unit must be secured against falling over, e.g. with tension belts. Feet can get under the base beams and cause fractures and crushing.

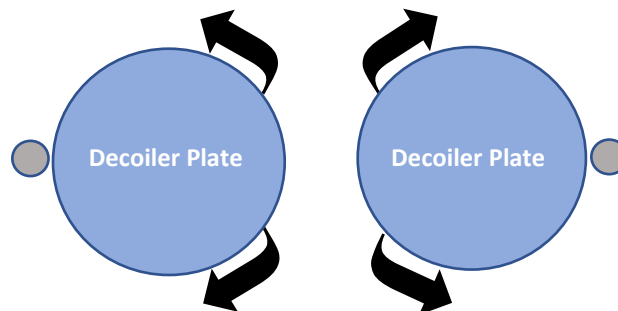
Mounting

Set up the two base carriers so that they are parallel to each other and the two bores are facing outwards (fixing bores for the lateral stabiliser). The adjustable feet should be screwed in completely.

Place the base plate with the mounted decoiler basket between the base carriers and connect them with the hexagonal screws M8x20 and a lock washer 8 mm each. Tightening torque 25 Nm.



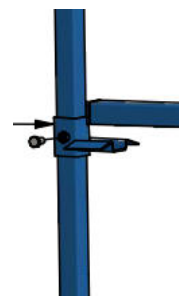
Before starting the installation, decide whether you want to swivel the baskets to the left or to the right. The installation position and the space provided for it play an important role.



The decoiler basket is swivelled around the cylindrical steel bar. Insert the bar into one of the two vertical square bars.

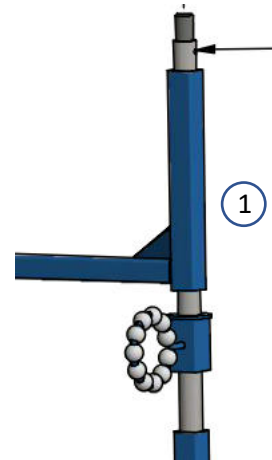
Push the first square sleeve with hose guide over the cylindrical steel bar. The welded disk must point upwards. All hose guides have to point into the same direction.

Slide the first square sleeve with swivel arm support over the square bar. The support groove has to point upwards. Hand-tighten the hexagonal screws first so that corrections can be made later.



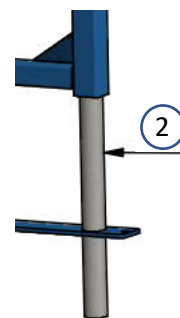


Individual parts to be assembled can be very heavy. If handled carelessly, they can fall down and cause injuries. During assembly of the individual parts, body parts can get caught between them, resulting in bruising or crushing. Some components must be pushed over the square bars from above. Parts can fall down and injure people standing underneath them.



After each sleeve, a square decoiler plate arm is inserted with the vertically flanged square bar pointing upwards (Fig. 1).

Insert the flat stabiliser bar before the fourth sleeve. The bore must be positioned at the side of the cylindrical bar (Fig. 2).



Continue in the same way with the remaining square sleeves and decoiler plate arms. Then insert the upper cross connection into the square bars. Both vertically flanged square bars have to point downwards.

Now the decoiler plate arms are aligned (fine-tuned). We recommend using a spirit level for this. Fix the hexagonal screws (tightening torque 25 Nm).

Push the short, upper stabiliser with flanged wedge and the counter wedge into the upper cross connection (on the side with the hose guides). Close the opposite opening of the upper cross bar with a plastic end cap. Tighten the hexagonal screw of the stabiliser with 25 Nm.

Connect the stabiliser cross bar (20) to the stabiliser bar at the one-sided reinforcing bar (13). Then mount the upper cross connection (16) between the base bar and the upper stabiliser.

The decoiler baskets are now inserted by swinging out the square decoiler plate arm and pushing the decoiler basket over the axle in the centre of the decoiler plate arm. Then swing the decoiler basket back into the frame and lock it in the swivel arm support.

At last the plastic end plates have to be put on the base carriers.



Finally, check all connections carefully and make sure that the hexagonal screws have been mounted with the prescribed tightening torque of 25 Nm and that **threadlockers** have been used. The **general tightening torque for M8 hexagon screws is 25 Nm**. **Replace lock washers or self-locking nuts after they have been disassembled.**

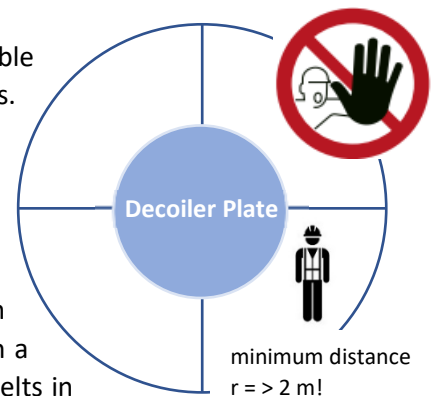


Positioning

Select the location of the decoiler so that the device is as freely accessible as possible and unauthorized persons can keep a distance of 2 metres. The floor should be firm and as level as possible. Align the decoiler horizontally. To help with aligning, the feet can be turned in and out. Use a spirit level for the alignment.



Use a pallet truck or forklift to transport the unit to the installation site. The decoiler must be secured on a sufficiently large pallet with tension belts in order to prevent it from falling over. Wear both protective gloves and safety shoes!



INITIAL OPERATION

Before operating the unit, check the fastenings again for correct fit and swivel all the decoiler baskets out and in as a test.

Choose a hose assembly that corresponds to the intended use (plastic; rubber, max. 80 kg). Before filling the decoiler basket, make sure that there are no unauthorised persons within a radius of 2 m and that the unit is standing securely.

Carefully place the hose assembly in the decoiler basket. The visible hose end must be approximately perpendicular to the hose guide (Fig.3). Swivel the basket back into the frame and lock it in place. Push the hose end through the hose guide. Repeat this procedure for all other baskets.



Avoid overloading the decoiler baskets, as this can lead to failure of the load-bearing capacity of the hose decoiler and thus to serious injury. Wear protective equipment.



During operation, the decoiler baskets rotate at high speed from time to time. It is essential to avoid people reaching into the basket or the basket spokes. This can result in broken bones and work loss.



When opening and locking the swivel arms, there is an increased risk of injury to the hands. Always wear protective gloves.



Safety instructions



Never fill the decoiler baskets with hoses or ropes that are made of a material other than plastic and rubber or rubber-containing. Never exceed the maximum weight of the individual hoses and hose packages (maximum 80 kg).

OPERATING INSTRUCTION

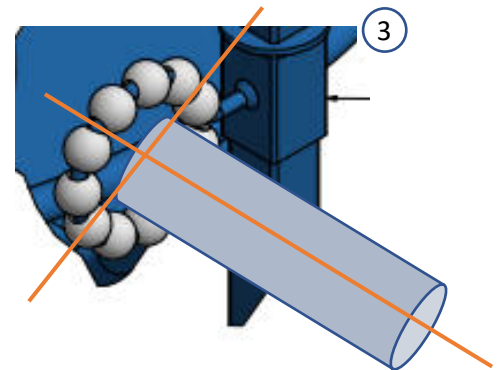
After the unit has been aligned in a suitable place, in a safe position, the filling of the decoiler baskets can begin. Lift the decoiler basket to be loaded from its resting position in the swivel arm holder.



Pinching of the hand or fingers is possible. Swing the basket out only until you can load it comfortably.

The hose should be inserted so that the visible end of the hose is approximately perpendicular to the hose guide (Fig.3).

Push the end of the hose through the hose guide. Swing the basket back into the locking position. Now the hose can be reeled out by pulling the end of the hose.



If the resistance to rotation of the basket is so high that it can only be pulled with excessive force, this process must be aborted (see Troubleshooting). Excessive pulling force can cause the frame to tip over and cause considerable damage.

TROUBLE SHOOTING

Symptoms	Diagnosis	Solution
Decoiler basket does not rotate freely.	Basket is blocked. Basket rotates with high resistance.	Move basket manually in left and right direction. Remove basket and reinsert it. Lightly oil the bearings (silicone spray).
Basket does not turn round („wobbling“).	Friction bearing is worn. Basket is not inserted correctly/straight. Decoiler is not levelled out horizontally.	Replace bearing. Remove basket, reinsert it correctly. Align again (spirit level).
When swinging out, the hose guide touches the basket axle. The basket cannot be swivelled out fully.	Position of guide is not correct.	Carefully bend the hose guide down a little.



MAINTENANCE

Cleaning

To ensure smooth and efficient operation, the unit should be cleaned regularly (weekly). Remove dust and dirt: use a cleaning cloth with e.g. cleaning spirit. Clean rotatable zones such as sleeves, hose guide and decoiler basket bearings with a brush.

Maintenance and repair



Maintenance and repair work must be carried out by authorised and specially instructed persons.

The hose decoiler

Inspect weekly for wear. If parts of the frame are bent or show other damage, these parts must be replaced. Please contact your responsible partner in our customer service regarding the delivery of spare parts.

Plastic balls of hose guidance

These must be replaced as soon as wear or a defect becomes visible. To do this, bend the steel ring open in order to remove the balls. Mount new balls in reverse order.

Plain bearings of the axes of the decoiler basket

Check that the decoiler baskets rotate smoothly and evenly with little resistance. If this is not the case, the bearings are defective or worn and must be replaced. To do this, remove the basket, drive out the bearing and insert a new one. Make sure that the hub of the decoiler basket is not damaged.

Feet

Make sure that the hose decoiler stands securely. Each of the four feet must stand firmly on the ground, straight and without tilting. Worn or defective feet must be replaced.

Fastening parts

We recommend checking the tightness of all fastening screws at every maintenance interval. If necessary, readjust with 25 Nm.



DISASSEMBLY AND RECYCLING

Disassembly

Disassembly of the product must be carried out or supervised by qualified personnel with appropriate expertise. Disassemble the unit into suitable individual components so that they can be disposed of appropriately.



The unit partly consists of heavy individual components. These components can fall down during disassembly. Bodily injury and damage to property are possible consequences. Secure the components to be detached against falling.

Disposal

The unit is made of powder-coated steel, galvanised steel and plastics. Metallic materials are generally considered to be recyclable without restrictions. Separate the components for recycling into the following categories: Steel (frame, reel baskets, screws, washers, nuts) and plastics (feet, end caps).

When disposing of and recycling the products, comply with the respective country-specific legal regulations. Appropriate standards for disposal must be observed.

SPARE PARTS

Please contact your responsible partner in our customer service.

PRODUCT DATA

Hose Decoiler SH7T-80		
Net weight approx.	140	kg
Dimensions approx.	1000 x 2200 X 1174	mm (d x h x w)
Corrosion protection	RAL 5012, light blue	Powder coated
Maximum acceptable load capacity/decoiler basket	80	kg
No. of baskets	7	pcs.
Height basket to basket approx.	24,5	mm



PICTOGRAMS AND DIRECTIVES USED

Pictogram	
	ISO 7010-W001 general warning sign Attention! Important note! <i>Consider warning notes of the manufacturer.</i>
	ISO 7010-P006 prohibition sign Entering for unauthorized people is prohibited! <i>This zone may not be entered by unauthorized people.</i>
	ISO 7010-P015 prohibition sign Putting body parts into this zone is prohibited! <i>Do not put hands and fingers into the coiler basket when it rotates.</i>
	ISO 7010-M008 mandatory sign Use foot protection! <i>Wear safety shoes.</i>
	ISO 7010-M009 mandatory sign Use hand protection! <i>Wear safety gloves.</i>
	ISO 7010-M014 mandatory sign Use head protection! <i>Wear safety helmet against falling down parts.</i>
	Type labelling Schmitter Hydraulik GmbH <i>Mounted at the product.</i>

Date	Directive	Description
06-2019	Machine Directive 2006/42/EC	Unified standard for the protection of accidents towards machines and incomplete machines when launching into a market within the EWR.
08-2009	DIN EN 15635	Stationary storage rack systems made of steel. Application and maintenance of storage equipment.
03-2011	EN ISO 12100	Terminology, guideline and methodology for safe machine construction. Guidelines for risk evaluation.
04-2016	DIN EN ISO 7010	Graphic symbols, safety colours, registered safety signs.
09-2009	Regulation for Operation Safety 2009/104/EG	Protection and safety for the application of working materials.
03-2014	TRBS 2111	Technical rules for industrial safety. Mechanical exposures.