

Operating manual

AMAZONE

Packer

T-Pack U 1450-880



33c905-1

MG5110
BAH0080-3 03.21
Printed in Germany

SmartLearning



**Read and observe this
operating manual before using
the implement for the first time!
Keep it in a safe place for future
use!**

en



Reading the instruction

manual and to adhere to it should not appear to be inconvenient and superfluous as it is not enough to hear from others and to realise that a machine is good, to buy it and to believe that now everything would work by itself. The person concerned would not only harm himself but also make the mistake of blaming the machine for the reason of a possible failure instead of himself. In order to ensure a good success one should go into the mind of a thing or make himself familiar with every part of the machine and to get acquainted with its handling. Only this way, you would be satisfied both with the machine as also with yourself. To achieve this is the purpose of this instruction manual.

Leipzig-Plagwitz 1872. Rud. Sack.

Identification data

Manufacturer: AMAZONEN-WERKE
H. DREYER SE & Co. KG

Implement ID No.

Type: T-Pack U 1450-880

Permissible system pressure (bar): 210 bar

Year of manufacture:

Factory:

Basic weight (kg):

Permissible total weight (kg):

Maximum load (kg):

Manufacturer's address

AMAZONEN-WERKE
H. DREYER SE & Co. KG
Postfach 51
D-49202 Hasbergen, Germany
Tel.: + 49 (0) 5405 50 1-0
Fax: + 49 (0) 5405 501-234
E-mail: amazone@amazone.de

Spare part orders

Spare parts lists are freely accessible in the spare parts portal at www.amazone.de.

Please send orders to your AMAZONE dealer.

Formalities of the operating manual

Document number: MG5110

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Foreword

Foreword

Dear Customer,

You have chosen one of the quality products from the wide product range of AMAZONEN-WERKE, H. DREYER SE & Co. KG. We thank you for your trust in our products

On receiving the implement, check to see if it has been damaged during transport or if parts are missing. Using the delivery note, check that the implement has been delivered in full, including any special equipment ordered. Damage can only be rectified if problems are signalled immediately.

Before initial operation, read and observe this operating manual, and particularly the safety information. Only after careful reading will you be able to benefit from the full scope of your newly purchased implement.

Please ensure that all the implement operators have read this operating manual before they put the implement into operation.

Should you have any questions or problems, please consult this operating manual or contact your local service partner.

Regular maintenance and timely replacement of worn or damaged parts increases the lifespan of your implement.

User evaluation

Dear Reader

We update our operating manuals regularly. Your suggestions for improvement help us to create ever more user-friendly operating manuals. Send us your suggestions by fax.

AMAZONEN-WERKE

H. DREYER SE & Co. KG

Postfach 51

D-49202 Hasbergen, Germany

Tel.: + 49 (0) 5405 50 1-0

Fax: + 49 (0) 5405 501-234

E-mail: amazone@amazone.de

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1 User information

The User Information section provides information on use of the operating manual.

1.1 Purpose of the document

This operating manual

- describes the operation and maintenance of the implement.
- provides important information on safe and efficient handling of the implement.
- is a component part of the implement and should always be kept with the implement or the towing vehicle.
- must be kept in a safe place for future use.

1.2 Locations in the operating manual

All the directions specified in the operating manual are always seen in the direction of travel.

1.3 Diagrams

Instructions and responses

Activities to be carried out by the user are given as numbered instructions. Always keep to the order of the instructions. The reaction to the handling instructions is given by an arrow. Example:

1. Instruction 1
→ Implement response to instruction 1
2. Instruction 2

Lists

Lists without an essential order are shown as a list with bullets. Example:

- Point 1
- Point 2

Item numbers in diagrams

Numbers in round brackets refer to items in diagrams.

Example (6) → Item 6

2 General safety instructions

This section contains important information on safe operation of the implement.

2.1 Obligations and liability

Comply with the instructions in the operating manual

Knowledge of the basic safety information and safety regulations is a basic requirement for safe handling and fault-free implement operation.

Obligations of the operator

The operator is obliged only to let those people work with/on the implement who

- are aware of the basic workplace safety information and accident prevention regulations.
- Have been introduced to working with/on the implement.
- have read and understood this operating manual.

The operator is obliged

- to keep all the warning symbols on the implement in a legible state.
- to replace damaged warning symbols.

Obligations of the user

Before starting work, anyone charged with working with/on the implement is obliged

- to comply with the basic workplace safety instructions and accident prevention regulations.
- To read and observe the section "General safety information" of this operating manual.
- To read the section "Warning symbols and other labels on the implement" (page 15) of this operating manual and to follow the safety instructions represented by the warning symbols when operating the implement.
- to get to know the implement.
- to read the sections of this operating manual, important for carrying out your work.

If the user discovers that a function is not working properly, then they must eliminate this fault immediately. If this is not the task of the user or if the user does not possess the appropriate technical knowledge, then they should report this fault to their superior (operator).

Risks in handling the implement

The implement has been constructed to the state-of-the art and the recognised rules of safety. However, operating the implement may cause risks and restrictions to

- the health and safety of the user or third parties,
- the implement,
- other property.

Only use the implement

- for the purpose for which it was intended.
- in a perfect state of repair.

Eliminate any faults immediately which could impair safety.

Guarantee and liability

Our "General conditions of sales and delivery" are always applicable. These shall be available to the operator, at the latest on conclusion of the contract. Guarantee and liability claims for damage to people or property will be excluded if they can be traced back to one or more of the following causes:

- Improper use of the implement.
- Improper installation, commissioning, operation and maintenance of the implement.
- Operation of the implement with defective safety equipment or improperly attached or non-functioning safety equipment.
- Non-compliance with the instructions in the operating manual regarding commissioning, operation and maintenance.
- Unauthorised design changes to the implement.
- Insufficient monitoring of implement parts which are subject to wear.
- Improperly executed repairs.
- Disasters due to the effects of foreign objects and force majeure.

2.2 Representation of safety symbols

Safety instructions are indicated by the triangular safety symbol and the highlighted signal word. The signal word (DANGER, WARNING, CAUTION) describes the severity of the risk, and carries the following meaning:

**DANGER**

Identifies a direct threat at high risk which can result in death or most serious bodily harm (loss of limbs or long-term harm), should it not be prevented.

If the instructions are not followed, then this will result in immediate death or serious physical injury.

**WARNING**

Indicates a medium risk, which could result in death or (serious) physical injury if not avoided.

If the instructions are not followed, then this may result in death or serious physical injury.

**CAUTION**

Indicates a low risk which could cause minor or medium level physical injury or damage to property if not avoided.

**IMPORTANT**

Indicates an obligation to special behaviour or an activity required for proper implement handling.

Non-compliance with these instructions can cause faults on the implement or disturbance to the environment.

**NOTE**

Indicates handling tips and particularly useful information.

These instructions will help you to use all the functions of your implement in the best way possible.

2.3 Organisational measures

The operator must provide the necessary personal protective equipment as per the information provided by the manufacturer of the crop protection agent to be used, such as:

- Protective goggles,
- Safety shoes,
- Protective overall,
- Skin protection agents, etc.



The operation manual

- must always be kept at the place at which the implement is operated.
- must always be easily accessible for the user and maintenance personnel.

Check all the available safety equipment regularly.

2.4 Safety and protective equipment

Before starting up the implement each time, all the safety and protection equipment must be properly attached and fully functional. Check all safety and protection equipment regularly.

Faulty safety equipment

Faulty or disassembled safety and protection equipment can lead to dangerous situations.

2.5 Informal safety measures

As well as all the safety information in this operating manual, comply with the general, national regulations pertaining to accident prevention and environmental protection.

When driving on public roads and routes you should comply with the statutory road traffic regulations.

2.6 User training

Only trained and instructed persons should be allowed to work with/on the implement. The responsibilities of the operating and maintenance personnel must be clearly defined.

People being trained may only work with/on the implement under the supervision of an experienced person.

Activity \ Person	Person specially trained for the activity ¹⁾	Trained person ²⁾	Persons with specialist training (specialist workshop) ³⁾
Loading/Transport	X	X	X
Initial commissioning	--	X	--
Set-up, tool installation	--	--	X
Operation	--	X	--
Maintenance	--	--	X
Troubleshooting and fault elimination	X	--	X
Disposal	X	--	--

Key:

X..permitted

--..not permitted

- 1) A person who can assume a specific task and who can carry out this task for an appropriately qualified company.
- 2) Instructed persons are those who have been instructed in their assigned tasks and in the possible risks in the case of improper behaviour, have been trained if necessary, and have been informed about the necessary protective equipment and measures.
- 3) People with specialist technical training shall be considered as a specialist. Due to their specialist training and their knowledge of the appropriate regulations, they can evaluate the work with which they have been charged and detect possible dangers.

Comment:

A qualification equivalent to specialist training can be obtained from several years' experience in the relevant field.



If maintenance and repair work on the implement is additionally marked "Workshop work", only a specialist workshop may carry out such work. The personnel of a specialist workshop shall possess the appropriate knowledge and suitable aids (tools, lifting and support equipment) for carrying out the maintenance and repair work on the implement in a way which is both appropriate and safe.

2.7 Safety measures in normal operation

Only operate the implement if all the safety and protection equipment is fully functional.

Check the implement at least once a day for visible damage and check the function of the safety and protection equipment.

2.8 Danger from residual energy

Note that there may be residual mechanical, hydraulic, pneumatic and electrical/electronic energy on the implement.

Use appropriate measures to inform the operating personnel. You can find detailed information in the relevant sections of this operating manual.

2.9 Maintenance and repair work, fault elimination

Carry out prescribed setting, maintenance and inspection work in good time.

Secure all media such as compressed air and the hydraulic system against unintentional start-up.

Carefully fix and secure larger assemblies to lifting gear when carrying out replacement work.

Check loosened threaded connections for tightness. When the maintenance work is completed, check the functioning of the safety devices.

2.10 Design changes

You may make no changes, expansions or modifications to the implement without the authorisation of AMAZONEN-WERKE. This also applies when welding support parts.

Any expansion or modification work shall require the written approval of AMAZONEN-WERKE. Only use modification and accessory parts approved by AMAZONEN-WERKE so that the type approval, for example, remains valid in accordance with national and international regulations.

Vehicles with an official type approval or with equipment connected to a vehicle with a valid type approval or approval for road transport according to the German road traffic regulations must be in the state specified by the approval.



WARNING

Risk of crushing, cutting, being trapped or drawn in, or impact through the failure of support parts.

It is strictly forbidden to

- drill holes in the frame or on the running gear.
- increase the size of existing holes on the frame or the running gear.
- weld support parts.

2.10.1 Spare and wear parts and aids

Immediately replace any implement parts which are not in a perfect state.

Only use genuine AMAZONE spare and wear parts, or those approved by AMAZONEN-WERKE, so that the operating permit remains valid according to the national and international regulations. If you use wear and spare parts from third parties, there is no guarantee that they have been designed and manufactured in such a way as to meet the requirements placed on them.

AMAZONEN-WERKE shall accept no liability for damage caused by the use of non-approved spare and wear parts or aids.

2.11 Cleaning and disposal

Handle and dispose of any materials used carefully, in particular

- when carrying out work on lubrication systems and equipment and
- when cleaning using solvents.

2.12 User workstation

The implement may be operated by only one person sitting in the driver's seat of the tractor.

2.13 Warning symbols and other labels on the implement



Always keep all the warning symbols of the implement clean and in a legible state. Replace illegible warning symbols. You can obtain the warning symbols from your dealer using the order number (e.g. MD 075).

Warning symbols – structure

Warning pictograms indicate danger areas on the implement and warn of residual dangers. Permanent or unexpected dangers exist in these areas.

A warning symbol consists of two fields:



Field 1

is a symbol describing the danger, surrounded by triangular safety symbol.

Field 2

is a symbol showing how to avoid the danger.

Warning symbols – explanation

The column **Order number and explanation** provides an explanation of the neighbouring warning symbol. The description of the warning symbols is always the same and specifies, in the following order:

1. A description of the danger.
For example: risk of cutting
2. The consequence of non-compliance with the risk avoidance instructions.
For example: causes serious injuries to fingers or hands.
3. Risk avoidance instructions.

For example: only touch implement parts when they have come to a complete standstill.

Order number and explanation

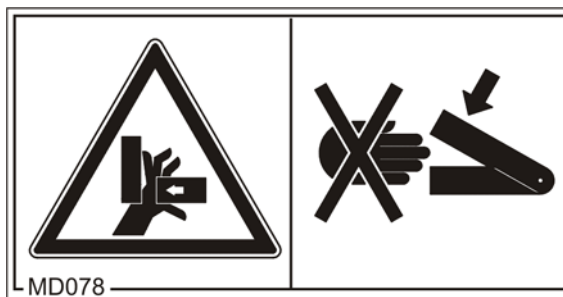
Warning symbols

MD 078

Risk of crushing of fingers/hand by accessible, moving parts of the implement!

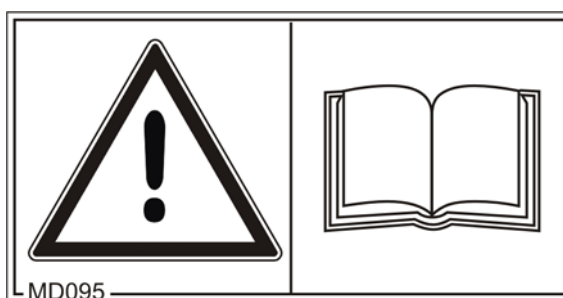
This hazard can cause the most severe injuries with loss of body parts.

Never reach into the hazardous area while the engine of the tractor with connected universal joint shaft/hydraulics/electronic system is running.



MD 095

Read and follow the operating manual and safety information before starting up the implement!

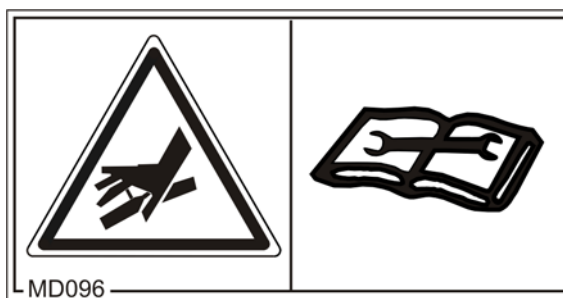


MD096

Danger from escaping high-pressure hydraulic fluid due to leaking hydraulic hose lines.

This danger may cause very serious injuries, perhaps even resulting in death, if escaping high-pressure hydraulic fluid passes through the skin and into the body

- Never attempt to plug leaks in hydraulic hose lines with your hand or fingers.
- Read and observe the information in the operating manual before carrying out maintenance work on the hydraulic hose lines.
- If you are injured by hydraulic fluid, contact a doctor immediately.

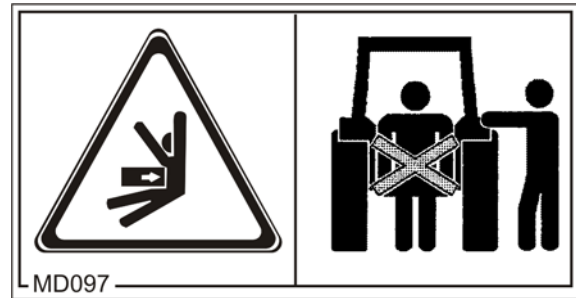


MD 097

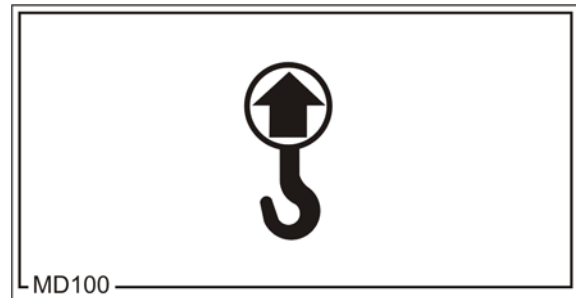
Risk of crushing and contusions between the rear of the tractor and the implement when coupling and uncoupling the implement!

These dangers can cause extremely serious and potentially fatal injuries.

- It is forbidden to actuate the three-point hydraulic system of the tractor as long as persons are standing between the rear of the tractor and the implement.
- Actuate the operator controls for the tractor's three-point hydraulic system:
 - Only from the intended workstation alongside the tractor.
 - Only when you are outside the danger area between the tractor and the implement.

**MD 100**

This symbol indicates attachment points for lifting gear for loading the implement.



MD 102

Dangerous situations for the operator due to unintentional starting / rolling of the implement during all work on the implement, e.g. installation, adjustment, troubleshooting, cleaning or maintenance.

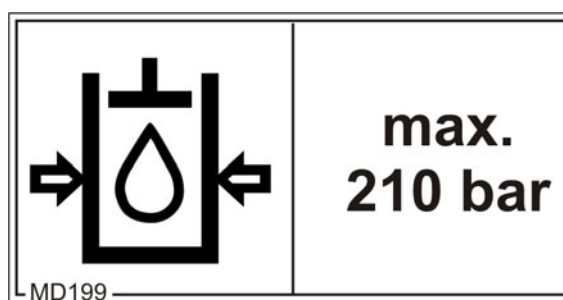
The potential dangers can inflict severe and potentially fatal injuries on all parts of the body.

- Secure the tractor and the implement against unintentional start-up and rolling before any intervention in the implement.
- Depending on the type of intervention, read and understand the information in the relevant sections of this operating manual.



MD199

The maximum operating pressure of the hydraulic system is 210 bar.



2.13.1 Positions of warning symbols and other labels

The following diagrams show the arrangement of the warning symbols on the implement.

T-Pack U 1450-880 (rear-mounted)



Fig. 1



Fig. 2

T-Pack U 1450-880 (front-mounted)



Fig. 3

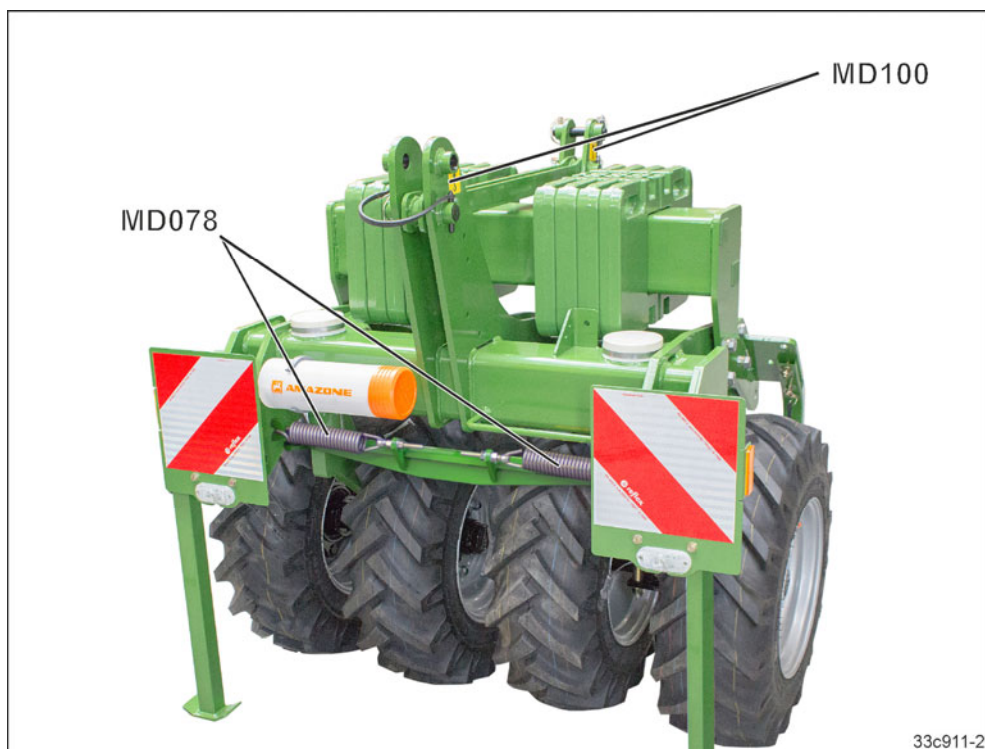


Fig. 4

2.14 Dangers in case of non-observance of the safety instructions

Non-compliance with the safety information

- can pose both a danger to people and also to the environment and implement.
- Can lead to the loss of all warranty claims.

In particular, non-compliance with the safety information could pose the following risks:

- Danger to people through non-secured working areas.
- Failure of important machine functions.
- Failure of prescribed methods of maintenance and repair.
- Danger to people through mechanical and chemical impacts.
- Risk to the environment through leakage of hydraulic fluid.

2.15 Safety-conscious working

In addition to the safety information in this operating manual, compliance with the generally applicable national workplace safety and accident prevention regulations is mandatory.

Comply with the accident prevention instructions on the warning symbols.

When driving on public roads and routes, comply with the appropriate statutory road traffic regulations.

2.16 Safety information for users



WARNING

Before starting up the implement and the tractor, always check their traffic and operational safety.

2.16.1 General safety instructions and accident prevention instructions

- In addition to these instructions, also comply with the generally valid national and safety and accident prevention regulations!
- The warning and information signs attached on the implement provide important instructions for safe operation of the implement. Compliance with these instructions is essential for your safety!
- Before moving off and starting up the implement, check the immediate area of the implement (children). Ensure that you can see clearly.
- It is forbidden to ride on the implement or use it as a means of transport!
- Drive in such a way that you always have full control over the tractor with the attached implement.

In so doing, take your personal abilities into account, as well as the road, traffic, visibility and weather conditions, the driving characteristics of the tractor and the connected or coupled implement.

Coupling and uncoupling the implement

- You may only couple and transport the implement on a tractor that fulfils the power requirements.
- When connecting implements to the tractor's three-point hydraulic system, the attachment categories of the tractor and the implement must always be the same!
- When coupling implements to the front or the rear of the tractor, the following may not be exceeded:
 - The permissible total tractor weight
 - The permissible tractor axle loads
 - The permissible load capacities of the tractor tyres
- Secure the tractor and the implement against unintentional movement before coupling or uncoupling the implement.
- It is forbidden for people to stand between the implement to be coupled and the tractor while the tractor is approaching the implement.

Any helpers may only act as guides standing next to the vehicles, and may only move between the vehicles when both are at a standstill.

- Secure the operating lever of the tractor hydraulic system so that unintentional raising or lowering is impossible, before connecting the implement to or disconnecting the implement from the tractor's three-point hydraulic system.
- When coupling and uncoupling implements, move the support equipment (if available) to the appropriate position (stability).
- When actuating the support equipment, there is a danger of injury from contusion and cutting points!
- Be particularly careful when coupling the implement to the tractor or uncoupling it from the tractor! There are nip and shear points in the area of the coupling point between the tractor and the implement.
- It is forbidden for people to stand between the tractor and the implement when actuating the three-point hydraulic system.
- Connect the implement to the prescribed equipment in accordance with the specifications.
- The release ropes for quick action couplings must hang loosely and may not release themselves when lowered.
- Also ensure that uncoupled implements are stable!

Use of the implement

- Before starting work, ensure that you understand all the equipment and actuation elements of the implement and their function. There is no time for this when the implement is already in operation!
- Wear tight-fitting clothing! There is an increased risk of loose clothing getting caught or entangled on drive shafts!
- Only place the implement in service after all protective devices have been attached and are in protective position!
- Comply with the maximum load of the connected implement and the permissible axle and drawbar loads of the tractor. If necessary, drive only with a partially filled hopper.
- It is forbidden to stand in the working area of the implement.
- It is forbidden to stand in the turning and swivel range of the implement.
- There are crushing and shearing hazards on implement parts actuated by external force (e.g. hydraulically)!
- Only actuate implement parts actuated by external force if personal are maintaining an adequate safety distance to the implement!
- Secure the tractor against unintentional start-up and rolling, before you leave the tractor.
For this:
 - Lower the implement onto the ground.
 - Apply the parking brake.
 - Switch off the tractor engine.
 - Remove the ignition key.

Implement transportation

- When using public roads, national road traffic regulations must be observed.
- Before moving off, check:
 - the correct connection of the supply lines,
 - the lighting system for damage, function and cleanliness,
 - that the brake and hydraulic equipment shows no visible signs of defect,
 - that the parking brake is completely released,
 - the functioning of the brake system.
- Ensure that the tractor has sufficient steering and braking power. Any implements and front/rear weights connected to the tractor influence the driving behaviour and the steering and braking power of the tractor.
- If necessary, use front weights. The front tractor axle must always be loaded with at least 20 % of the empty tractor weight, in order to ensure sufficient steering power.
- Always fix the front or rear weights to the intended fixing points according to regulations.
- Comply with the maximum load of the connected implement and the permissible axle and drawbar loads of the tractor.
- The tractor must guarantee the prescribed brake delay for the loaded vehicle combination (tractor plus connected implement).
- Check the brake power before moving off.
- When turning corners with the implement coupled, take the wide sweep and centrifugal mass of the implement into account.
- Before moving off, ensure sufficient side locking of the tractor lower links, when the implement is attached to the three-point hydraulic system or lower links of the tractor.
- Before road transport, move all the swivel implement parts to the transport position.
- Before road transport, secure all the swivel implement parts in the transport position against risky position changes. Use the transport locks intended for this.
- Before moving off, lock the operating lever of the tractor's three-point hydraulic system against the unintentional raising or lowering of the connected or hitched implement.
- Check that the transport equipment, e.g. lighting, warning equipment and protective equipment, is correctly mounted on the implement.
- Before road transport, carry out a visual check that the upper and lower link pins are firmly fixed with the linch pin against unintentional release.
- Adjust your forward speed to the prevailing conditions.
- Before driving downhill, switch to a low gear.
- Before road transport, always switch off the independent wheel braking (lock the pedals).

2.16.2 Mounted implements

- When attaching to the three-point linkage, the attachment categories on tractor and implement must be compatible or an adapter must be used!
- Take note of the manufacturer's instructions.
- Before attaching implements to or removing them from the three-point suspension, shift the operating equipment to a position in which unintended raising or lowering is impossible.
- There is a danger of crushing or shearing injury around the three-point linkage.
- The implement may be transported and towed only by the tractors intended for this purpose.
- There is a risk of injury when implements are coupled to and uncoupled from the tractor.
- Do not step between tractor and implement when operating the external control for the three-point attachment!
- There is a danger of crushing and shearing injury when operating the support devices.
- When mounting implements at the front or rear of a tractor, do not exceed
 - The permissible total tractor weight
 - The permissible tractor axle loads
 - The approved load capacities of the tractor tyres
- Observe the max. working load of the mounted implement and the permissible axle loads of the tractor!
- Always ensure that the tractor lower links are adequately locked against sideways movement before transporting the implement.
- The operating lever for the tractor lower links must be secured against lowering when the implement is being towed on the road.
- Shift all equipment into the transport position before travelling on the road.
- Any mounted implements and ballast weights affect the handling, steering and braking of the tractor!
- The front tractor axle must always be loaded with at least 20 % of the empty tractor weight, in order to ensure sufficient steering power. Apply front weights if necessary!
- Only ever carry out any servicing, maintenance or cleaning operations or remedy malfunctions with the ignition key removed.
- Leave safety devices attached and always position them in the protective position.

2.16.3 Cleaning, maintenance and repair

- Repair-, maintenance- and cleaning operations as well as the remedy of function faults should principally be conducted under the following circumstances:
 - the drive is switched off.
 - the tractor engine is at a standstill.
 - the ignition key has been removed.
 - The implement plug has been disconnected from the on-board computer
- Regularly check the nuts and bolts for a firm seat and retighten them as necessary.
- Secure the raised implement and/or raised implement parts against unintentional lowering before performing any cleaning, maintenance or repair work on the implement!
- When replacing work tools with blades, use suitable tools and gloves.
- Dispose of oils, greases and filters in the appropriate way.
- Disconnect the cable to the tractor generator and battery, before carrying out electrical welding work on the tractor and on attached implements.
- Spare parts must meet at least the specified technical requirements of AMAZONEN-WERKE!
This is ensured through the use of genuine AMAZONE spare parts.

3 Loading and unloading



DANGER

The crane and the chain fulfil the required load and weight capacities.

- Use only slings (ropes, belts, chains, etc.) with a minimum tensile strength greater than the total weight of the implement (see Technical data).
- Only attach your lifting equipment to/at the designated points.
- **Do not stand under suspended loads.**

Loading by crane

The icon (Fig. 5) marks the location at which the chain for lifting the implement with a crane is to be secured.

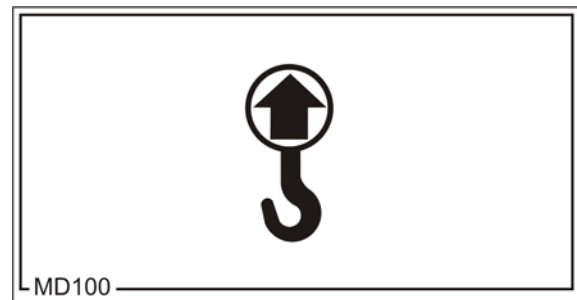


Fig. 5

1. Attach a chain at the specified points on the implement (see Fig. 6 / Fig. 7).
2. Lift the implement with a crane to load onto a transport vehicle.
3. Secure the implement properly on the transport vehicle.



Fig. 6



Fig. 7

4 Product description

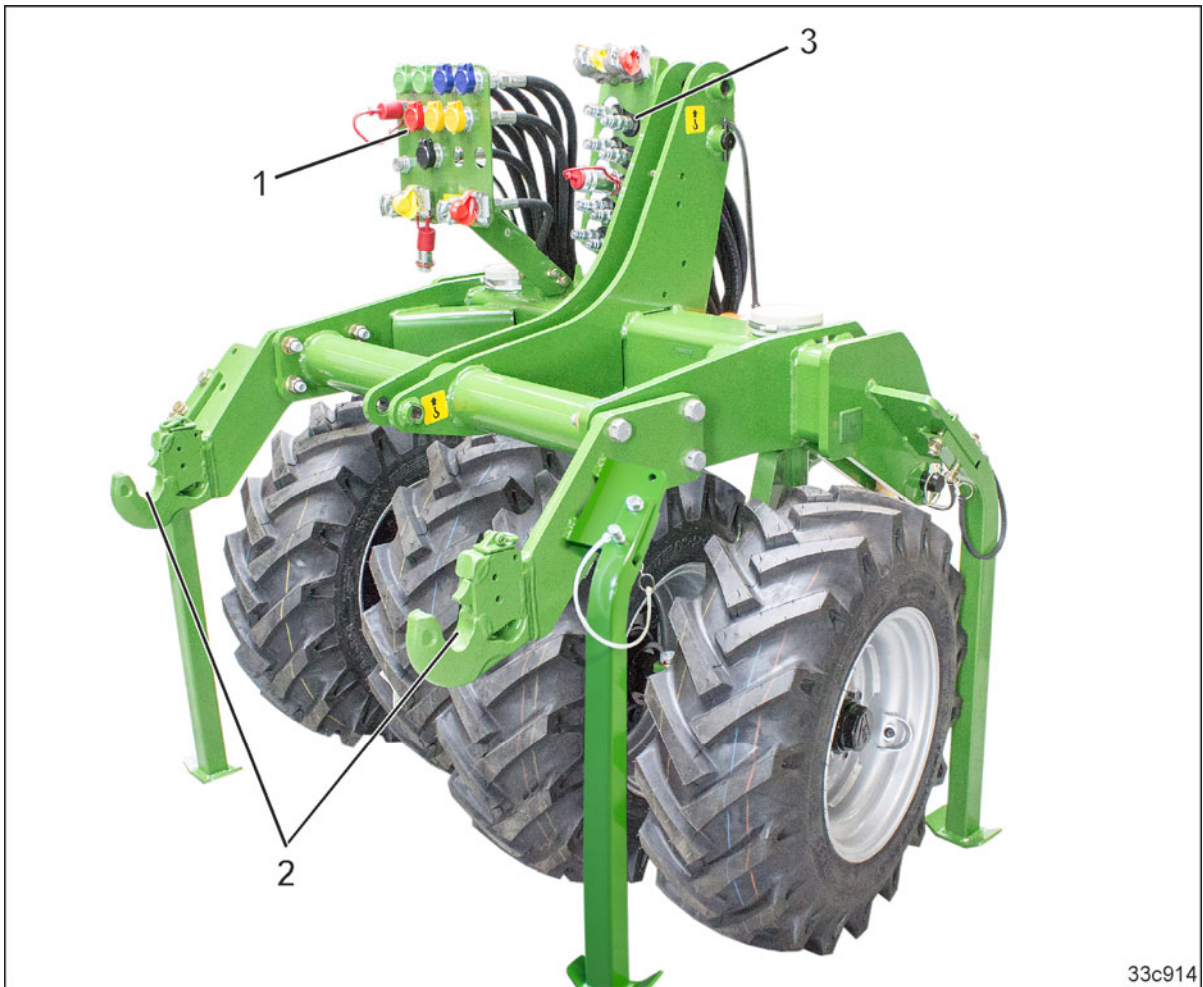
The packer ensures for the reconsolidation of the ground and thus prepares an optimum seedbed for sowing. For using it, the packer is mounted on the lifting gear of the tractor. The seed drill is coupled to the lower link of the packer frame.

4.1 Overview of assembly groups



Fig. 8

- (1) Three-point hitch
- (2) Stands
- (3) Tyre roller

**Fig. 9**

- (1) Connections of the supply lines
- (2) Lower link mounting
- (3) Hose cabinet

4.2 Proper use

The AMAZONE packer is intended for use in arable farming and is used for preparing the seedbed.

The following table contains the implements that can be combined with the AMAZONE T-Pack U 1450-880 packer.

T-Pack U 1450-880 combinations

	AMAZONE implements	
AMAZONE T-Pack U 1450-880	AMAZONE Cirrus	all

Fig. 10

Any use other than those listed above, especially mounting on implements from other manufacturers or AMAZONE implements not listed here, is considered as non-intended.

The packer

- is built for conventional use as a packer roller for towed AMAZONE seed drills in agricultural operations.
- Is coupled to the tractor using the tractor upper and lower links and operated by one person.

Slopes can be travelled

- Along the contours
 - Direction of travel to left 20 %
 - Direction of travel to right 20 %
- Along the gradient
 - Up the slope 20 %
 - Down the slope 20 %

"Intended use" also covers:

- Compliance with all the instructions in this operating manual.
- Execution of inspection and maintenance work.
- Exclusive use of genuine AMAZONE spare parts.

Other uses to those specified above are forbidden and shall be considered as improper.

For any damage resulting from improper use

- the operator bears the sole responsibility,
- AMAZONEN-WERKE accepts no liability.

4.3 Danger areas and danger points

The danger area is the area around the implement in which people can be caught:

- by work movements made by the implement and its tools.
- by materials or foreign bodies thrown out of the implement.
- by unintentional rolling of the tractor and the implement

Within the implement danger area, there are danger points with permanent or unexpected risks. Warning symbols indicate these danger points and warn against residual dangers, which cannot be eliminated for construction reasons. Here, the special safety regulations of the appropriate section shall be valid.

No-one may stand in the implement danger area:

- as long as the tractor and implement are not protected against unintentional start-up and running.

The operating person may only move the implement or switch or drive the tools from the transport position to the working position or vice-versa when there is no-one in the implement danger area.

The following danger areas exist:

- Between the tractor and the implement, particularly during coupling and uncoupling procedures.
- Where there are moving components.
- When the implement is in motion.
- underneath raised, unsecured implements or parts of implements.

4.4 Rating plate and CE mark

The rating plate and the CE mark are on the frame (Fig. 11).



Fig. 11

The following information is specified on the rating plate and the CE mark:

- (1) Implement number
- (2) Vehicle identification number
- (3) Product
- (4) Permissible technical implement weight
- (5) Model year
- (6) Year of manufacture



Fig. 12

4.5 Technical data

T-Pack U 1450-880		
Working width	[mm]	1450
Transport width	[mm]	1450
Diameter of the tyres	[mm]	880
Number of tyres		4
Tyre tread		AS tread
Attachment category, front		Category 3 / 4N
Attachment category, rear		Category 3
Centre of gravity distance ¹⁾ (d)	[mm]	250
Basic weight	KG	500

¹⁾ Distance between the middle of the lower link ball and rear attachment centre of gravity of the implement (see Fig. 22, page 40)

4.6 Necessary tractor equipment

For the implement to be operated as intended, the tractor must fulfil the following requirements:

Tractor engine power	Combination with seed drill	see operating instructions of implement
	Solo operation	from 66 kW (90 HP)
Electrical equipment	Battery voltage	12 V (volts)
	Lighting socket	7-pin
Tractor control units	Combination with seed drill	see operating instructions of implement
	Solo operation	no control unit necessary
Lifting gear	Three-point hitch	Category 3 / 4N

4.7 Noise production data

The workplace-related emission value (acoustic pressure level) is 74 dB(A), measured in operating condition at the ear of the tractor driver with the cab closed.

Measuring unit: OPTAC SLM 5.

The noise level is primarily dependent on the vehicle used.

5 Layout and function



33c905-1

Fig. 13

The packer ensures for the reconsolidation of the ground and thus prepares an optimum seedbed for sowing.

The packer is mounted on the lifting gear of the tractor. The seed drill is coupled to the lower link of the packer frame.

5.1 Mounting frame

The frame is designed such that it meets the dimensions of a Category 3 three-point hitch.

Attachment to the tractor:

Fig. 14/

1. Coupling points for category 3 / 4N locking bolts.

Top link pins and lower link pins with locking linch pins.



Fig. 14

Seed drill attachment:

Fig. 15/...

1. Lower link catch hooks for category 3 coupling balls.

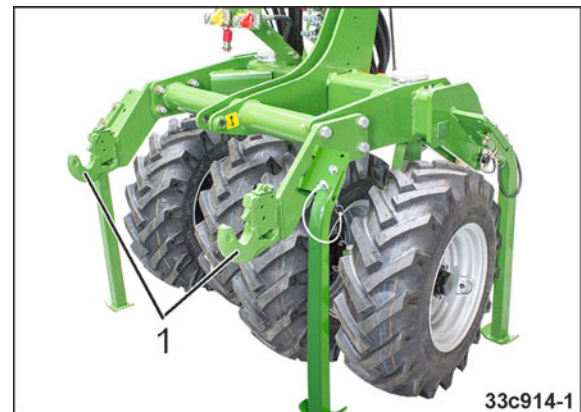


Fig. 15

5.2 Support device

Fig. 16/...

1. Stand
2. Linch pins



Fig. 16

5.3 Threaded cartridge

Fig. 17/...

1. Threaded cartridge
for storing the operating instructions



Fig. 17

5.4 Mount category



The ball sleeves are tractor accessories.

Coupling elements, tractor mount Cat. 3 / 4N

Fig. 18/...

1. Top link pin Ø 31.7 mm
2. Top link ball sleeve Cat. 3 (tractor accessory)
3. Washer Cat. 3 (6.5 mm thick)
4. Lower link pin Ø 36.6 mm
5. Lower link ball sleeve Cat. 3 (tractor accessory)
6. Washer Cat. 3 (13.5 mm thick)

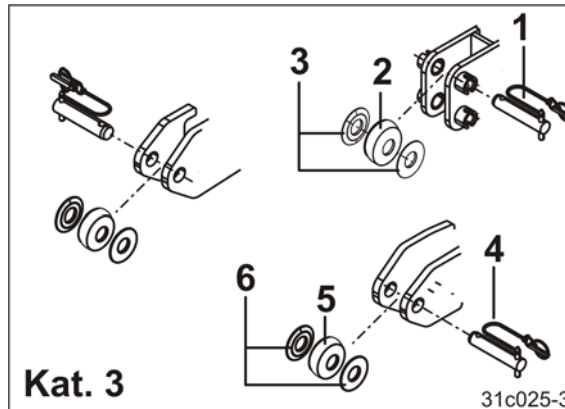


Fig. 18

5.5 Supplemental weights (optional)

Fig. 19/...

1. Supplemental weights



The installation of supplemental weights rules out hydraulic equipment.



Fig. 19

5.6 Front-mounted (optional)

With the front mounting adapter, the packer is mounted on the front lifting gear of the tractor. The seed drill is coupled to the lower link of the tractor.



Fig. 20

5.7 Lighting (optional)

Lighting for operation with a front-mounted implement

Fig. 21/...

1. Warning signs
2. Lighting



Fig. 21

6 Initial commissioning

This section contains information

- on initial operation of your implement
- on checking how you may couple/mount the implement to your tractor.



- Before operating the implement for the first time the operator must have read and understood the operating manual.
- Follow the instructions given in the section "Safety instructions for the operator" from page 22 Safety information for users onwards when
 - Coupling and uncoupling the implement
 - Implement transportation
 - Use of the implement
- Only couple and transport the implement to/with a tractor which is suitable for the task.
- Tractor and implement must satisfy the national road traffic regulations!
- Vehicle owner and vehicle operator are responsible for compliance with the statutory provisions of the national road traffic regulations!



WARNING

Risk of contusions, cutting, catching, drawing in and knocks in the area of hydraulically or electrically actuated components.

Do not block the operator controls on the tractor which are used for hydraulic and electrical movements of components, e.g. folding, swivelling and pushing movements. The movement must stop automatically when you release the appropriate control. This does not apply to equipment movements that:

- are continuous or
- are automatically locked or
- require a float position or pressure position due to their function

6.1 Checking the suitability of the tractor



WARNING

Danger of breaking during operation, insufficient stability and insufficient tractor steering and braking power in the event of improper use of the tractor!

- Check the suitability of your tractor before you attach or hook up the implement.
You may only connect the implement to tractors suitable for the purpose.
- Carry out a brake test to check whether the tractor achieves the required braking delay with the implement connected.

Requirements for the suitability of a tractor are, in particular:

- The permissible total weight
- The permissible axle loads
- The load capacity of the installed tyres
You can find this data on the rating plate or in the vehicle documentation and in the tractor operating manual.

The front axle of the tractor must always be subjected to at least 20 % of the empty weight of the tractor.

The tractor must achieve the brake delay specified by the tractor manufacturer, even with the implement connected.

6.1.1 Calculating the actual values for the total tractor weight, tractor axle loads and load capacities, as well as the minimum ballast



The permissible total tractor weight, specified in the vehicle documentation, must be greater than the sum of the

- tractor empty weight
- ballast weight and
- total weight of the attached implement or drawbar load of the hitched implement.



This notice applies only to Germany:

If, having tried all possible alternatives, it is not possible to comply with the axle loads and/or the permissible total weight, then a survey by an officially recognised motor traffic expert can, with the approval of the tractor manufacturer, be used as a basis for the responsible authority to issue an exceptional approval according to § 70 of the German Regulations Authorising the Use of Vehicles for Road Traffic and the required approval according to § 29, paragraph 3 of the German Road Traffic Regulations.

6.1.1.1 Data required for the calculation [combination with seed drill]

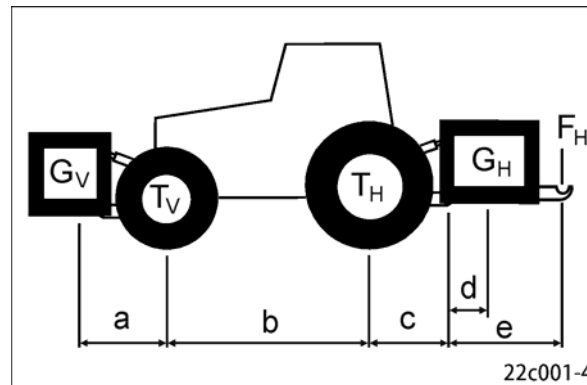


Fig. 22

T_L	KG	Tractor empty weight	See tractor operating manual or vehicle documentation
T_V	KG	Front axle load of the empty tractor	
T_H	KG	Rear axle load of the empty tractor	
G_H	KG	Total weight of rear-mounted implement or rear ballast	See technical data for the implement or rear ballast
G_V	KG	Total weight of front-mounted implement or front ballast	See technical data for front-mounted implement or front ballast
F_H	KG	Maximum drawbar load	see technical data for the seed drill attached
a	[m]	Distance between the centre of gravity of the front mounting implement or the front weight and the centre of the front axle (total $a_1 + a_2$)	See technical data of tractor and front implement mounting or front weight or measurement
a_1	[m]	Distance from the centre of the front axle to the centre of the lower link connection	See tractor operating manual or measurement
a_2	[m]	Distance between the centre of the lower link connection point and the centre of gravity of the front-mounted implement or front ballast (centre of gravity distance)	See technical data of front implement mounting or front weight or measurement
b	[m]	Tractor wheel base	See tractor operating manual or vehicle documents or measurement
c	[m]	Distance between the centre of the rear axle and the centre of the lower link connection	See tractor operating manual or vehicle documents or measurement
d	[m]	Distance between the centre of the lower link connection point and the centre of gravity of the rear-mounted implement or rear ballast (centre of gravity distance)	See technical data for the implement
e	[m]	Distance between the central lower link connecting point (to the tractor) and the central lower link connecting point (T-Pack U 1450-880).	1

6.1.1.2 Calculation of the required minimum ballasting at the front $G_{V \min}$ of the tractor to ensure steering capability

$$G_{V \min} = \frac{G_H \cdot (c + d) + F_H \cdot (c + e) - T_V \cdot b + 0,2 \cdot T_L \cdot b}{a + b}$$

Enter the numeric value for the calculated minimum ballast $G_{V \min}$, required on the front side of the tractor, in the table (section 6.1.1.13).

6.1.1.3 Calculation of the actual front axle load of the tractor $T_{V \text{ tat}}$

$$T_{V \text{ tat}} = \frac{G_V \cdot (a + b) + T_V \cdot b - G_H \cdot (c + d) - F_H \cdot (c + e)}{b}$$

Enter the numeric value for the calculated actual front axle load and the approved tractor front axle load specified in the tractor operating manual in the table (section 6.1.1.13).

6.1.1.4 Calculation of the actual total weight of the combined tractor and implement

$$G_{\text{tat}} = G_V + T_L + G_H + F_H$$

Enter the numeric value for the calculated actual total weight and the approved total tractor weight specified in the tractor operating manual in the table (section 6.1.1.13).

6.1.1.5 Calculation of the actual rear axle load of the tractor $T_{H \text{ tat}}$

$$T_{H \text{ tat}} = G_{\text{tat}} - T_{V \text{ tat}}$$

Enter the numeric value for the calculated actual rear axle load and the approved tractor rear axle load specified in the tractor operating manual in the table (section 6.1.1.13).

6.1.1.6 Tractor tyre load capacity

Enter the double value (two tyres) of the approved load capacity (see, for example, tyre manufacturer's documentation) in the table (section 6.1.1.13).

6.1.1.7 Data required for the calculation [Solo operation]

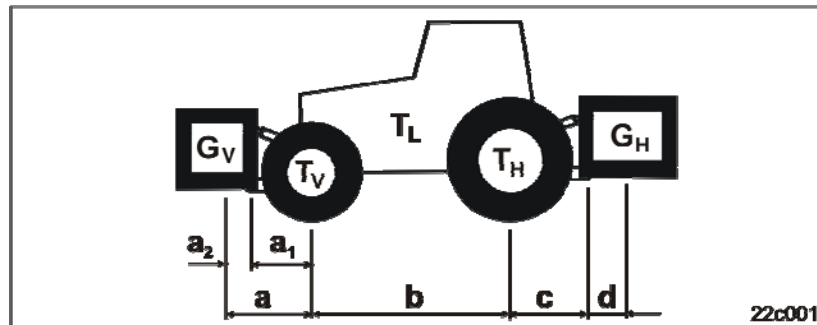


Fig. 23

T_L	KG	Tractor empty weight	See tractor operating manual or vehicle documentation
T_V	KG	Front axle load of the empty tractor	
T_H	KG	Rear axle load of the empty tractor	
G_H	KG	Total weight of rear-mounted implement or rear ballast	See technical data for the implement or rear ballast
G_V	KG	Total weight of front-mounted implement or front ballast	See technical data for front-mounted implement or front ballast
a	[m]	Distance between the centre of gravity of the front mounting implement or the front weight and the centre of the front axle (total $a_1 + a_2$)	See technical data of tractor and front implement mounting or front weight or measurement
a_1	[m]	Distance from the centre of the front axle to the centre of the lower link connection	See tractor operating manual or measurement
a_2	[m]	Distance between the centre of the lower link connection point and the centre of gravity of the front-mounted implement or front ballast (centre of gravity distance)	See technical data of front implement mounting or front weight or measurement
b	[m]	Tractor wheel base	See tractor operating manual or vehicle documents or measurement
c	[m]	Distance between the centre of the rear axle and the centre of the lower link connection	See tractor operating manual or vehicle documents or measurement
d	[m]	Distance between the centre of the lower link connection point and the centre of gravity of the rear-mounted implement or rear ballast (centre of gravity distance)	See technical data for the implement

6.1.1.8 Calculation of the required minimum ballasting at the front $G_{V \min}$ of the tractor to ensure steering capability

$$G_{V \min} = \frac{G_H \cdot (c + d) - T_V \cdot b + 0,2 \cdot T_L \cdot b}{a + b}$$

Enter the numeric value for the calculated minimum ballast $G_{V \min}$, required on the front side of the tractor, in the table (section 6.1.1.13).

6.1.1.9 Calculation of the actual front axle load of the tractor $T_{V \text{ tat}}$

$$T_{V \text{ tat}} = \frac{G_V \cdot (a + b) + T_V \cdot b - G_H \cdot (c + d)}{b}$$

Enter the numeric value for the calculated actual front axle load and the approved tractor front axle load specified in the tractor operating manual in the table (section 6.1.1.13).

6.1.1.10 Calculation of the actual total weight of the combined tractor and implement

$$G_{\text{tat}} = G_V + T_L + G_H$$

Enter the numeric value for the calculated actual total weight and the approved total tractor weight specified in the tractor operating manual in the table (section 6.1.1.13).

6.1.1.11 Calculation of the actual rear axle load of the tractor $T_{H \text{ tat}}$

$$T_{H \text{ tat}} = G_{\text{tat}} - T_{V \text{ tat}}$$

Enter the numeric value for the calculated actual rear axle load and the approved tractor rear axle load specified in the tractor operating manual in the table (section 6.1.1.13).

6.1.1.12 Tractor tyre load capacity

Enter the double value (two tyres) of the approved load capacity (see, for example, tyre manufacturer's documentation) in the table (section 6.1.1.13).

6.1.1.13 Table

	Actual value according to calculation	Approved value according to tractor operating manual	Double approved load capacity (two tyres)
Minimum ballast front/rear	<input type="text"/> / <input type="text"/> kg	--	--
Total weight	<input type="text"/> kg	\leq <input type="text"/> kg	--
Front axle load	<input type="text"/> kg	\leq <input type="text"/> kg	\leq <input type="text"/> kg
Rear axle load	<input type="text"/> kg	\leq <input type="text"/> kg	\leq <input type="text"/> kg



- You can find the approved values for the total tractor weight, axle loads and load capacities in the tractor registration papers.
- The actual calculated values must be less than or equal to (\leq) the permissible values!



WARNING

Risk of contusions, cutting, catching, drawing in and impact through insufficient stability and insufficient tractor steering and brake power.

It is forbidden to couple the implement to the tractor used as the basis for calculation, if

- one of the actual, calculated values is greater than the approved value.
- there is no front weight (if required) attached to the tractor for the minimum front ballast ($G_{v \min}$).



You must use a front weight, which is equal to at least the required minimum front ballast ($G_{v \min}$).

6.2 Securing the tractor/implement against unintentional start-up and rolling



WARNING

Risk of crushing, shearing, cutting, catching, drawing in and knocks during all work on the implement

- **By driven work elements.**
- **By unintentional movement of work elements or unintentional actuation of hydraulic functions when the tractor engine is running.**
- **By unintentional starting and rolling of the tractor and mounted implement.**
- Secure the tractor and the implement against unintentional starting and rolling before any intervention in the implement.
- It is forbidden to make any intervention in the implement, such as installation, adjustment, troubleshooting, cleaning, maintenance and repairs
 - When the implement is being operated.
 - As long as the tractor engine is running with a connected PTO shaft / hydraulic system.
 - If the ignition key is inserted in the tractor and the tractor engine can be started unintentionally with the PTO shaft / hydraulic system connected
 - If moving parts are not blocked against unintentional movement
 - If there are persons (children) on the tractor.

Particularly during these operations there are dangers due to unintentional contact with driven, unguarded work elements.

1. Switch off the tractor engine.
2. Remove the ignition key.
3. Apply the tractor parking brake.
4. Ensure that there are no persons (children) on the tractor.
5. If necessary, lock the tractor cab door.

7 Coupling and uncoupling the implement



When coupling and uncoupling machines, follow the instructions given in the section "Safety instructions for the operator" page 22.



WARNING

Risk of crushing, catching, drawing in and/or knocks due to unintentional starting and rolling of the tractor when coupling or uncoupling the PTO shaft and supply lines.

Secure the tractor and implement against unintentional starting and rolling before entering the danger area between the tractor and implement to couple or uncouple the PTO shaft and supply lines. See page 45.



WARNING

Risk of crushing and contusions between the rear of the tractor and the implement when coupling and uncoupling the implement!

- It is forbidden to actuate the three-point hydraulic system of the tractor as long as persons are standing between the rear of the tractor and the implement.
- Actuate the operator controls for the tractor's three-point hydraulic system:
 - Only from the intended workstation alongside the tractor.
 - Only when you are outside the danger area between the tractor and the implement.

7.1 Hydraulic hose lines



WARNING

Danger of infection from escaping hydraulic fluid at high pressure!

When coupling and uncoupling the hydraulic hose lines, ensure that the hydraulic system is depressurised on both the implement and tractor sides.

If you are injured by hydraulic fluid, contact a doctor immediately.



WARNING

Risk of being crushed, cut, caught, drawn in or struck due to faulty hydraulic functions when the hydraulic hose lines are connected incorrectly!

When coupling the hydraulic hose lines, observe the coloured markings on the hydraulic connectors.

Identification of the hydraulic lines on the implement side

On the implement side, each hydraulic hose line has a handle that should allow easier decoupling.

Each handle (Fig. 24) is marked by colours in order to avoid confusion. The colour markings on the handles are provided with a code number or a code letter.

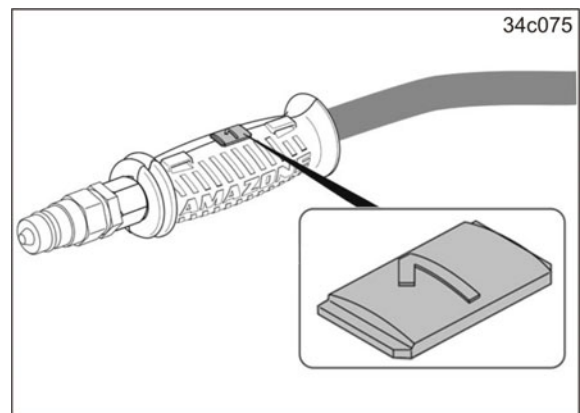


Fig. 24

7.1.1 Coupling the hydraulic hose lines

1. Clean the hydraulic connector and hydraulic socket of the tractor control unit.
2. Set the tractor control unit to float position (neutral position).
3. Push the hydraulic connector into the hydraulic socket until the hydraulic connector perceivably locks.

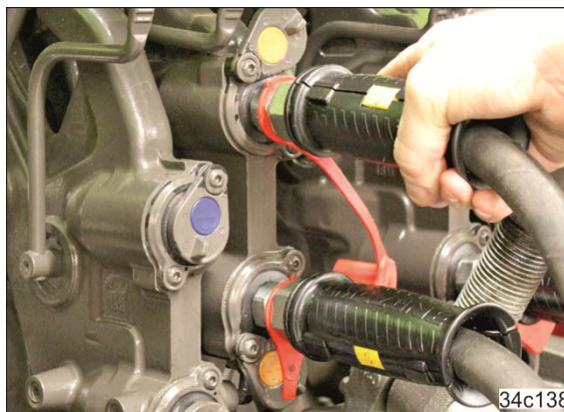


Fig. 25



The maximum operating pressure of the hydraulic system is 210 bar.

7.1.2 Uncoupling the hydraulic hose lines

1. Set the tractor control unit to float position (neutral position).
2. Unlock the hydraulic connector.
3. Push on the dust protection caps.



Fig. 26

4. Place the supply lines in the hose cabinet (Fig. 27/1).



Fig. 27

7.2 Coupling the implement



WARNING

Risk of crushing, drawing in, catching or contusions if the implement unexpectedly comes away from the tractor!

- Use the intended equipment to connect the tractor and the implement in the proper way.
- When coupling the implement to the tractor's three-point hydraulic system, ensure that the attachment categories of the tractor and the implement are the same.
- Only use the upper and lower link pins provided (original pins) for coupling the implement.
- Check the upper and lower link pins for visible defects whenever the implement is coupled. Replace the upper and lower link pins if there are clear signs of wear.
- Use locking pins to secure the upper and lower link pins against accidental loosening.
- Visually check that the upper and lower link hooks are correctly locked before you drive off.



WARNING

Danger of breaking during operation, insufficient stability and insufficient tractor steering and braking power in the event of improper use of the tractor!

You may only connect the implement to tractors suitable for the purpose. See section "Checking tractor suitability", page 39.

7.2.1 Couple the packer to the tractor

1. Always inspect the machine for visible signs of damage when coupling. Observe here the chapter "Obligations of the user", page 8.
2. Secure the ball sleeves over the upper and lower link pins in the pivot points of the three-point attachment frame.
3. Secure each of the top link and lower link pins with lynch pins to ensure that they do not accidentally come loose. See chapter "Three-point attachment frame", from page 35.

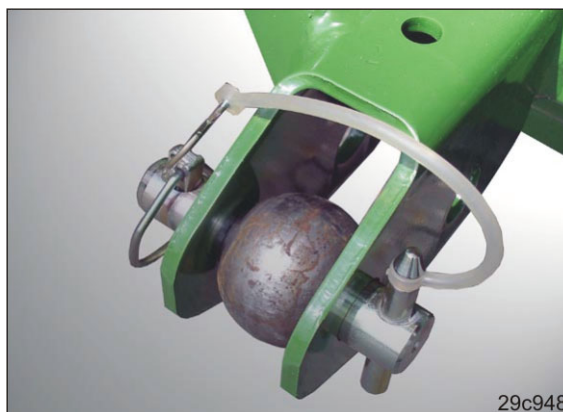


Fig. 28

4. Direct people out of the danger area between the tractor and implement before you approach the implement with the tractor.
 5. Drive the tractor up to the implement in such a way that a gap (approx. 25 cm) remains between tractor and implement.
 6. Secure the tractor against unintentional starting and unintentional rolling away. To do so, see the Chapter "Securing the tractor against unintentional starting and rolling away" starting from page 45.
 7. Couple the supply lines (page 48, section 7.1.1) and the lighting system.
 8. Align the lower link hooks so that they are flush with the lower linking points of the implement
 9. Now reverse the tractor further towards the machine so that the tractor's lower link hooks connect with the lower pivot points of the machine.
 10. Raise the tractor's three-point hydraulic system until the lower link hooks connect with the ball bushings and automatically lock.
 11. Couple the top link over the top link hook with the upper pivot point of the three-point attachment frame from the tractor seat.
- The top link hook locks automatically.



Fig. 29



The tractor lower links must be able to swing vertically during work.

12. Visually check that the upper and lower link hooks are correctly locked before you drive off.



Fig. 30

13. Release the positioning pins (Fig. 32/1)
14. Swivel up the jacks (Fig. 31/1)
Swivel up the inner jack (Fig. 32/2)
Swivel up the outer jack (Fig. 32/3)

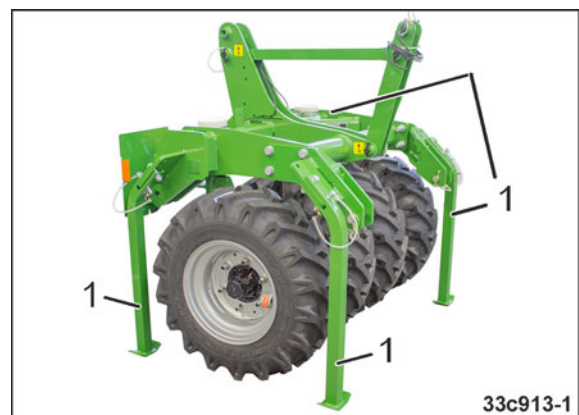


Fig. 31

15. Fasten the positioning pins (Fig. 32/1) and secure them with the linch pins.



Fig. 32



Check the route of the supply lines. The supply lines

- Must easily give way to all movements in bends without tensioning, kinking or rubbing.
- Must not chafe against other parts.

7.2.2 Coupling the seed drill to the packer

The seed drill is coupled to the lower link of the packer frame analogue to the tractor.

Proceed according to the seed drill operating instructions.



When using a GPS switch, the geometry of the implement must be adjusted in the job computer if the length of the implement drawbar (Fig. 33/2) is changed.

Seed drill (Fig. 33/2) coupled to the type packer (Fig. 33/1).

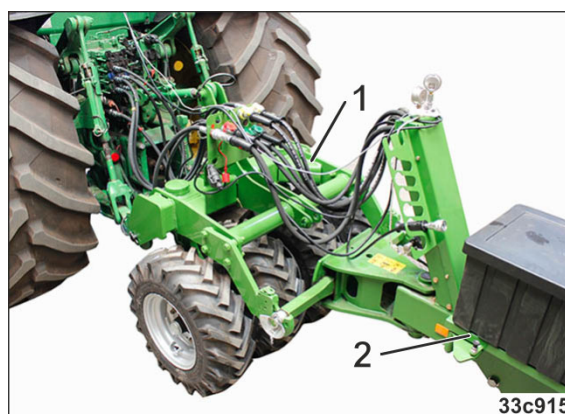


Fig. 33

7.3 Uncoupling the implement

1. Always inspect the implement for obvious signs of damage during uncoupling. Observe here the chapter "Obligations of the user", page 8.
2. Swivel the jacks (Fig. 34/1) into the parking position.



Fig. 34

3. Release the positioning pins (Fig. 35/1)
4. Swivel down the outer jack (Fig. 35/3), fasten with the positioning pin and secure with the linch pin.
5. Swivel down the inner jack (Fig. 35/2), fasten with the positioning pin and secure with the linch pin.



Fig. 35

6. Release the top link.
 7. Unlock and uncouple the top link hook from the tractor seat.
 8. Relieve the lower links.
 9. Unlock and uncouple the lower link hooks from the tractor seat.
 10. Drive the tractor approx. 25 cm forwards.
- This will allow more clearance between tractor and implement and give better access for uncoupling the supply lines.



Fig. 36

11. Secure the tractor against unintentional starting and rolling away, see chapter "Securing the tractor against unintentional starting and rolling away", from page 45.
12. Decouple the supply lines (page 48, section 7.1.2) and the lighting system.
13. Place the supply lines in the hose cabinet (Fig. 37/1).



Fig. 37

8 Use of the implement



WARNING

Risk of slipping, stumbling or falling due to unauthorised climbing onto the implement and/or carrying persons on the implement, the loading board or the steps.

It is forbidden to ride on the implement and/or to climb onto the running implement.

Instruct persons away from the walking and loading board before starting the implement.

8.1 Use

1. Move the packer to the working position at the start of the field.
 - 1.1 Instruct any people in the area to stand at a minimum distance of 20 m from the implement
 - 1.2 Lower / raise the tractor's lower link until the implement frame is positioned horizontal.
2. Move the seed drill to the working position according to the operating instructions.
3. If necessary, correct the position of the packer frame by adjusting the top link (Fig. 39/1).



33c917

Fig. 38



33c902

Fig. 39



Take particular care when turning the packer at the headlands.

- The turning circle of the implement changes when using the packer

8.2 Transportation



DANGER

- When driving on the road with the implement raised, the operating levers on the tractor must be locked to prevent unintentional lowering and folding out!
- Check the proper function of the light system!
- The tractor lights must not be hidden during transport of the attachment.
- The transport width of 3 m must not be exceeded!
- Adapting the method of driving: the driving behaviour of the implement attached changes when mounting the packer!

Set the combination mounted on the tractor to transport mode:

- road transport only with packer raised
- further information can be obtained from the operating manual of your seed drill.

The maximum permitted speed¹⁾ is:

→ 25 km/h for tractors with mounted packer and trailing seed drill.

In particular, on bad roads and paths driving may only take place at a considerably lower speed than specified!

- ¹⁾ The maximum permissible speed for mounted working implements varies depending on the road traffic regulations in each individual country. Ask your local importer/implement dealer about the maximum permitted speed for road travel.

When driving on public roads and ways the tractor and implement must comply with the national road traffic regulations (in Germany the StVZO and the StVO) and the accident prevention regulations (in Germany those of the industrial injury mutual insurance organisation).

The vehicle keeper and driver are responsible for compliance with the statutory stipulations.

9 Cleaning, maintenance and repair



WARNING

Danger of crushing, shearing, cutting, being caught or drawn in, winding and knocks through:

- **unintentional lowering of the implement raised using the tractor's 3-point hydraulic system.**
- **unintentional lowering of raised, unsecured implement parts.**
- **unintentional start-up and rolling of the tractor-implement combination.**

Secure the tractor and machine against unintentional starting and unintentional rolling away before you perform any cleaning, servicing or maintenance work on the machine. See page 45.



DANGER!

- **During cleaning, maintenance and repair work, observe chapter "Safety instructions for the user" from page Seite 26,**
- **Always use suitable supports when carrying out maintenance work on the raised implement.**
- **Check the proper function of the light system!**



- **After repair work involving repainting, the product logos and instruction signs must be replaced!**
- **Worn and damaged parts must be replaced. Use only OEM spare parts!**
- **Clean the tools after work!**

9.1 Cleaning



- After cleaning, grease the implement, in particular after cleaning with a high pressure cleaner/steam jet or liposoluble agents.
- Observe the statutory requirements for the handling and removal of cleaning agents.

Cleaning with a high-pressure cleaner/steam cleaner



- Always observe the following points when using a high pressure cleaner/steam jet for cleaning:
 - Do not clean any electrical components.
 - Never direct the cleaning jet from the nozzle of the high pressure cleaner/steam jet directly towards lubrication and bearing points.
 - Always maintain a minimum jet distance of 300 mm between the high pressure or steam jet cleaning nozzle and the implement.
 - Comply with the safety regulations when working with high pressure cleaners.

9.2 Maintenance schedule – overview



Carry out maintenance work when the first interval is reached.

The times, continuous services or maintenance intervals specified in any third party documentation shall have priority.

Initial operation	Before initial commissioning	Specialist workshop	Check and service the hydraulic hose lines. This inspection has to be recorded by the operator.	Section 9.3.1
			Checking tyre pressure	Section 9.4
	After the first 10 operating hours	Specialist workshop	Check and service the hydraulic hose lines. This inspection has to be recorded by the operator.	Section 9.3.1
		Specialist workshop	Check all bolted connections for a secure fit.	Section 9.6
		Specialist workshop	Check the wheel bolt tightening torque.	Section 9.6
regular basis	<u>Before the start of the season</u>	Specialist workshop	Check and service the hydraulic hose lines. This inspection has to be recorded by the operator.	Section 9.3.1
			Checking tyre pressure	Section 9.4
	<u>Before beginning work</u> (daily)		Repair any areas of chafing on hydraulic hose lines and pipes.	Section 9.3.1
	<u>Hourly</u> (e.g. when refilling the seed hopper)		Check and eliminate dirt:	Section 9.1
	<u>After completion of work</u> (daily)		Clean the implement (if required)	Section 9.1
	<u>Every 50 operating hours</u>	Specialist workshop	Check and service the hydraulic hose lines. This inspection has to be recorded by the operator.	
	<u>Every 2 weeks</u> (at least every 100 operating hours)		Checking tyre pressure	Section 9.4

9.3 Hydraulic system



WARNING

Risk of infection through the high pressure hydraulic fluid of the hydraulic system entering the body.

- Only a specialist workshop may carry out work on the hydraulic system.
- Depressurise the hydraulic system before carrying out work on the hydraulic system.
- When searching for leak points, always use suitable aids.
- Never attempt to plug leaks in hydraulic hose lines using your hand or fingers.

Escaping high pressure fluid (hydraulic fluid) may pass through the skin and ingress into the body, causing serious injuries!

If you are injured by hydraulic fluid, contact a doctor immediately. Risk of infection!



- When connecting the hydraulic hose lines to the hydraulic system of connected implements, ensure that the hydraulic system is depressurised on both the drawing vehicle and the trailer.
- Ensure that the hydraulic hose lines are connected correctly.
- Regularly check all the hydraulic hose lines and couplings for damage and impurities.
- Have the hydraulic hose lines checked at least once a year by a specialist for proper functioning.
- Replace the hydraulic hose lines if they are damaged or worn. Only use our original AMAZONE hydraulic hose lines.
- The hydraulic hose lines should not be used for longer than six years, including any storage time of maximum two years. Even with proper storage and approved use, hoses and hose connections are subject to natural aging, thus limiting the length of use. However, it may be possible to specify the length of use from experience values, in particular when taking the risk potential into account. In the case of hoses and hose lines made of thermoplastics, other guide values may be decisive.
- Dispose of old oil in compliance with regulations. If you have problems with disposal, contact your oil supplier.
- Keep hydraulic fluid out of the reach of children!
- Ensure that no hydraulic fluid enters the soil or waterways.

9.3.1 Labelling of hydraulic hose lines

The valve chest identification provides the following information:

- (1) Manufacturer's marking on the hydraulic hose line (A1HF)
- (2) Date of manufacture of the hydraulic hose lines (1102 = Year / Month = February 2011)
- (3) Maximum approved operating pressure (210 BAR).

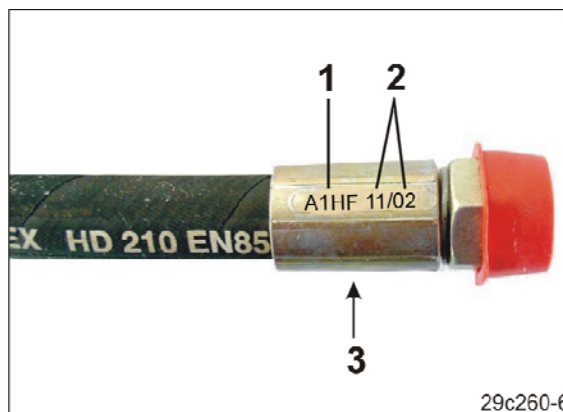


Fig. 40

9.3.2 Inspection criteria for hydraulic hose lines



For your own safety, comply with the following inspection criteria!

Replace hydraulic hose lines, on determining any of the following during the inspection:

- Damage to the outer layer up to the ply (e.g. scouring points, cuts, cracks).
- Brittleness of the outer layer (crack formation of the hose material).
- Deformations which do not match the natural shape of the hose. Both in a depressurized and pressurised state or when bent (e.g. layer separation, bubble formation, pinching, bends).
- Leak points.
- Damage or deformation of the hose assembly (sealing function restricted); minor surface damage is not a reason for replacement.
- Movement of the hose out of the panel.
- Corrosion of panel, reducing the function and tightness.
- Installation requirements not complied with.
- Life span of 6 years has been exceeded.

The date of manufacture of the hydraulic hose line on the assembly plus six years is decisive. If the date of manufacture on the assembly is "2011", then the hose should not be used after February 2017. For more information, see "Labelling of hydraulic hose lines".

9.3.3 Installation and removal of hydraulic hose lines



When installing and removing hydraulic hose lines, always observe the following information:

- Only use original AMAZONE hydraulic hose lines
 - Ensure cleanliness.
 - You must always install the hydraulic hose lines so that, in all states of operation:
 - There is no tension, apart from the hose's own weight.
 - There is no possibility of jolting on short lengths.
 - Outer mechanical influences on the hydraulic hose lines are avoided.
- Use appropriate arrangements and fixing to prevent any scouring of the hoses on components or on each other. If necessary, secure hydraulic hose lines using protective covers. Cover sharp-edged components.
- The approved bending radii may not be exceeded.
 - When connecting a hydraulic hose line to moving parts, the hose length must be appropriate so that the smallest approved bending radius is not undershot over the whole area of movement and/or the hydraulic hose line is not over-tensioned.
 - Fix the hydraulic hose lines to the intended fixing points. There, avoid hose clips, which impair the natural movement and length changes of the hose.
 - It is forbidden to paint over hydraulic hose lines!

9.4 Checking the inflation pressure of the running gear tyres

Check compliance with specified tyre inflation pressure

Tyres	Tyre inflation pressure
Tyres 10.0/75-15	2.5 bars



Fig. 41



Observe test intervals
(see section "Maintenance and care schedule – overview").

9.5 Visual inspection of the lower link pins

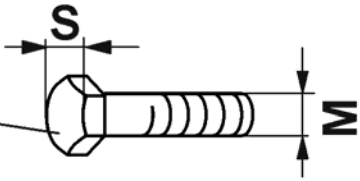



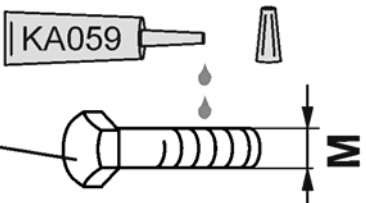

WARNING

Risk of contusions, catching, and knocks when the implement unexpectedly releases from the tractor!

Check the lower link pin for conspicuous defects whenever the implement is coupled. Replace the drawbar, if there are any clear signs of wear to the lower link pins.

9.6 Screw tightening torques

<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;"> 8.8 10.9 12.9 </div>  </div>				
M	S	 Nm		
		8.8	10.9	12.9
M 8	13	25	35	41
M 8x1		27	38	41
M 10	16 (17)	49	69	83
M 10x1		52	73	88
M 12	18 (19)	86	120	145
M 12x1.5		90	125	150
M 14	22	135	190	230
M 14x1,5		150	210	250
M 16	24	210	300	355
M 16x1,5		225	315	380
M 18	27	290	405	485
M 18x1,5		325	460	550
M 20	30	410	580	690
M 20x1,5		460	640	770
M 22	32	550	780	930
M 22x1,5		610	860	1050
M 24	36	710	1000	1200
M 24x2		780	1100	1300
M 27	41	1050	1500	1800
M 27x2		1150	1600	1950
M 30	46	1450	2000	2400
M 30x2		1600	2250	2700

<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;"> A2-70 A4-70 </div>  </div>												
M	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24
 Nm	2.3	4.6	7.9	19.3	39	66	106	162	232	326	247	314



10 Notes



Space for your notes.

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AMAZONEN-WERKE

H. DREYER SE & Co. KG

Postfach 51	Tel:	+49 5405 501-0
D-49202 Hasbergen-Gaste	Fax:	+49 5405 501-234
Germany	E-mail:	amazone@amazone.de
	http://	www.amazone.de

Plants: D-27794 Hude • D-04249 Leipzig • F-57602 Forbach
Branches in England and France

Manufacturers of mineral fertiliser spreaders, field sprayers, seed drills, soil tillage implements,
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