



Snow Plough Blade Attachment

**SCHN85, SCHN850, SCHN100, SCHN125
with Quick-Attach implement mounting**

**Suitable for K820, K1200, K1500, K1750, K2000, K2000pro
UBS9, UBS13, UBS16, UBS18**



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1 About this manual

Dear Customer,

We thank you for the purchase of this machine or attachment and having confidence in our equipment.

Before using this machine please read this instruction manual carefully.

Keep this manual to hand as it contains important information and instructions.

The machine or the attachment is subject technical progress.

All Information, illustrations and technical data corresponds to the newest model at the time of the publication.

Changes due to technical progress are reserved by the manufacturer at any time.

1.1 Product Identification

Always quote model number and serial number when ordering spare parts.

The identification plate may be found on the main chassis of all machines.



1.2 Before start up

We are not liable for any substantial accident and/or damage.

Before you drive this machine or start the engine of the Kersten machine that you are handling, we ask that you urgently to make yourself familiar with this manual and the operation of the machine.



- **This symbol indicates important safety information!**
- **Read all safety references on the following pages!**
- **Read the operating instructions before start-up!**
- **Use this manual in conjunction with the power unit manual!**
- **Pass all safety instructions onto other users!**

1.3 Intended use



- This machine is an attachment for a hydraulically propelled 2 wheel tractor exclusively intended for professional employment in the management of land, forestry, amenity and landscape conservation and for sole use with Kersten power units. (Also see individual instructions.)
- Use going beyond that described is not considered as intended. Therefore the manufacturer is not responsible for any resulting damage or harm and the operator alone is responsible for the risk.
- Compliance with and adherence to the operating, maintenance and repair as prescribed by the manufacturer in this manual must be considered essential elements of intended use.
- The machine may only be operated repaired and serviced by persons familiar with the machine, this manual and all relevant safety features and dangers.
- The relevant rules for the prevention of accidents as well as other safety-relevant rules according to the health and safety at work act must be considered as part of the operating procedure.
- The manufacturer is not liable for any accidents or damage resulting from modifications or alterations carried out on the machine without the express written permission of the manufacturer.

2 Safety Precautions

It is important to note that not all possibilities can be covered within this manual.

The manual assumes that the operator has a general awareness for Health and Safety to be appointed an operator in the first place.

This Kersten machine has been designed, so far as is reasonably practical, so that it will not endanger the safety of the operator or anyone else if the machine is used and maintained according to the instructions stated in this manual which have been compiled following research and experience of the manufacturers.

2.1 General safety and accident prevention instructions:



- Consider all additional valid general operating instructions and health and safety regulations
- This machine should not be operated by any person under the age of 16.
- This machine may be subject to regulations when used on the public highway
- Before starting operating this machine you should be familiar with all controls and their functions. Familiarization should not be carried out during operation.



- The user is responsible for operating the unit in the work area.
- Standing in the danger area of the machine is forbidden!
- Look out for any children or animals in the work area.
- Operators are advised to wear clothing that is close fitting with stout footwear. Loose fitted clothes or casual footwear increase risk of accident
- All controls, engine and functions must be cleaned regularly.
- Do not leave the engine running in an enclosed area.
- Whenever handling fuel there is an increased risk of fire. Never refill near a naked flame or sparks, do not smoke whilst refilling the fuel tank.
- Before re-fuelling, turn the engine off, allow to cool down and take ignition keys out (if available).



- Keep machine clean to reduce the risk of fire
- When starting the engine all drives must be switched off
- Never leave the operator console while driving
- Never adjust the handlebar while engine is running
- Never leave the machine whilst engine is running.
- Close the fuel valve when machine is not in use.
- Apply parking brake (where fitted), when leaving, and minimize unauthorized use!
- Never leave the equipment unsupervised, when the engine is running.

2.2 Transporting

When transporting this unit ensure all possible power is isolated disengaged and disabled.

Apply parking brake where fitted.

Secure the machine by use of bindings any transporting vehicle.

Only transport on vehicles designed for the use of transporting this type of equipment.

2.3 Safety Decals

Attention! This machine is equipped with warning symbols (safety decals). Be aware of your safety at all times when operating a machine. Real security means that you are familiar with all safety decals. These decals indicate types and areas of endangerment and in particular the safety measure which should be taken. Always remain alert and conscious of the dangers the decals indicate on the machine, you are operating, presents to you and others. The decals must be maintained in good condition, they are important safety devices

The following decals are present on this machine:



Attention

Read the safety manual carefully before start up.



Before repair, maintenance and cleaning

Turn off engine and pull out keys



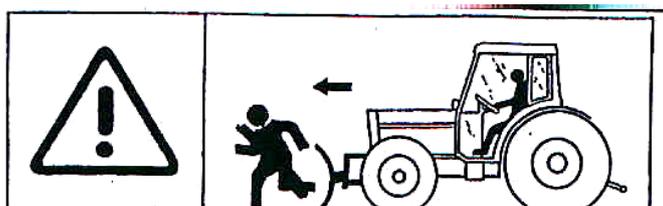
Consider references in the technical manual.

Lubrication fitting



The risk by away-hurling parts with running engine.

Respect a safety margin from the machine



Ensure the area in front of the snow plough is clear of pedestrians and any other obstacles

3 Basic Rules



- Always use the machine across the slope in preference to going up and down
- Use extreme caution when changing direction on a slope
- Do not operate this machine on slopes of more than 20 degrees
- Humidity and rain increases the danger of slippage. Certain conditions may not permit safe handling of the machine
- Wear firm footwear with sufficient profile.
- Operate only in conditions where sufficient lighting exists
- Check terrain for hidden hazards prior to commencement of operation
- In the event of accidental impact with a foreign object, immediately stop the machine, including engine, and inspect for damage before continuing
- Never run whilst operating the machine
- Disengage drive to the attachment when transporting machine to and from area to be worked
- Never put hands or feet near or under rotating parts
- Prior to any maintenance or repair work ensure that all drives are in the neutral position, all switches are in the off position and for extra safety the spark plug lead should be removed

3.1 Before starting



- When starting the engine all drives must be disengaged – i.e. all drive leavers should be in the neutral rest position
- Never leave the operating position whilst machine is running
- Do not adjust handle bars when operating
- Do not operate the machine without all guards and safety devices being intact
- Keep hands and feet always from all rotating parts
- In the event of malfunction stop immediately

3.2 Repair work

- Repair work such as a welding, cutting or drilling must not be carried out on any safety relevant parts
- Damaged parts should be replaced with new before further use of the machine

3.3 Maintenance



- Examine the machine before start-up to ensure it is in a safe operating condition, paying particular notice to the security of all screw fittings
- Worn/damaged parts should be replaced as a safety precaution
- Cleaning should be carried out regularly to aid visual inspection of all working parts on the machine, including all safety devices, and to prevent fire hazards

- Cleaning, e.g. with a high pressure cleaner, should be accomplished in such a way that the water jet is not focused directly on rotating parts, lubrication points and electrical fittings.
- The machine should be maintained according to the instructions contained within the manual.
- Failure to comply with maintenance and operating instructions will cause the guarantee to be considered null and void

4 Disposal

This device must be disposed of according to the regulation of the municipality or the country. All possible parts should be recycled and the remainder disposed of in a satisfactory manner.

The company Kersten Maschinenvertriebs GmbH or Kersten (UK) Ltd does not take responsibility of disposal.

5 Warranty

Details of Warranty are included on the warranty registration form. All conditions must be satisfied.

IMPORTANT! Please complete the warranty registration form enclosed and send it to:

Kersten (UK) Ltd

Progress House
39 Boulton Road
Reading
RG2 0NH
Tel 0118 986 9253

6 Specification

Type	SCHN85, SCHN850, SCHN100, SCHN125
Engine	N/A
Fuel Tank	N/A
Electrical Start	N/A
Forward Driving Speed	N/A
Backwards Driving Speed	N/A
Hydraulic Oil Tank	N/A
Hydraulic Oil	N/A
Tyre	N/A
Tyre Pressure	N/A
Parking Brake	N/A
Height/Depth of Blade	45cm
Weight	85cm -26Kg, 100cm – 32Kg, 125cm – 36Kg
Dimensions	50cm x 50 cm x 85cm, 100cm, 120cm
Noise Level	N/A
Vibration	N/A
Additional equipment	Weights 12kg
Suitable for	Kersten Machines SP85, K820, K1200, K1500, K1750, K2000, K2000pro

7 Attaching the implement

Danger!

There is a danger to the operator and third parties when using or adjusting this machine.

Before attaching or adjusting the implement or the power unit ensure the power unit is isolated by turning it off, removing the keys (where fitted) and removing the spark plug lead.

7.1 Quick Attach System

Before attachment, ensure both the male and female parts of the quick attachment system are clean, rust free, and well greased.

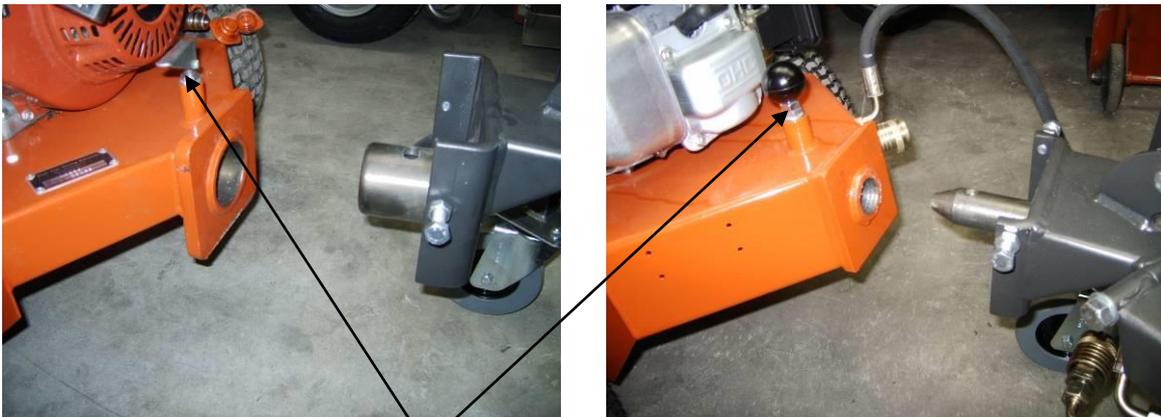
Lift the locking latch on the power unit, line up the power unit and implement, slide the power unit and implement together and when completely inserted then release the locking pin (A).

Ensure the implement is securely locked on to the power unit prior to use.

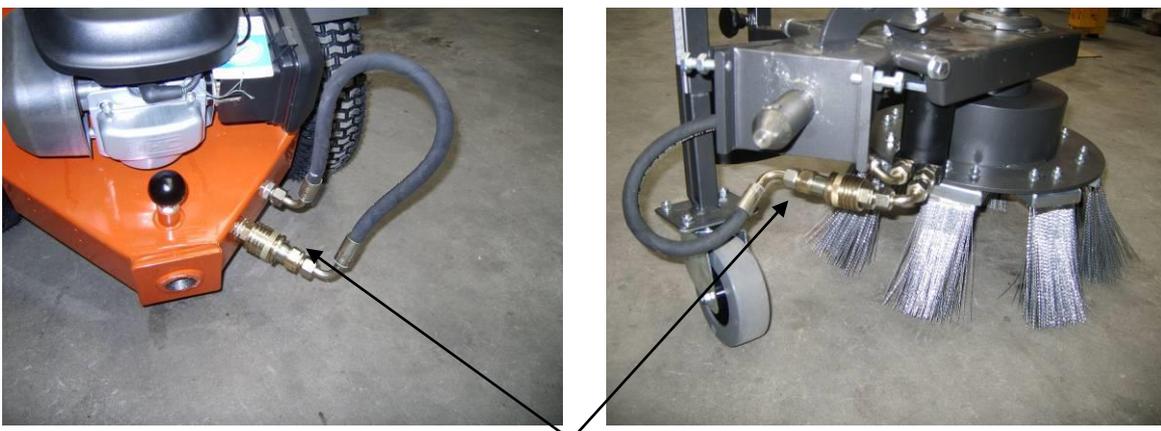
Plug in the 2 hydraulic couplings ensuring they are all clean and free from dirt that could prevent a good seal or contaminate the hydraulic system.

Remove the implement by following the above steps in the reverse order.

Where the power unit or implement has a free hanging hydraulic lead, ensure this is plugged back in to its self to allow free oil flow and prevent contamination.



Pull locking Pin "A" then slide power unit and implement together



Ensure hydraulic leads are plugged back in to themselves.

8 Operation

8.1 Ground clearance:

The snow plough runs on two skids which should be adjusted to the correct working height.

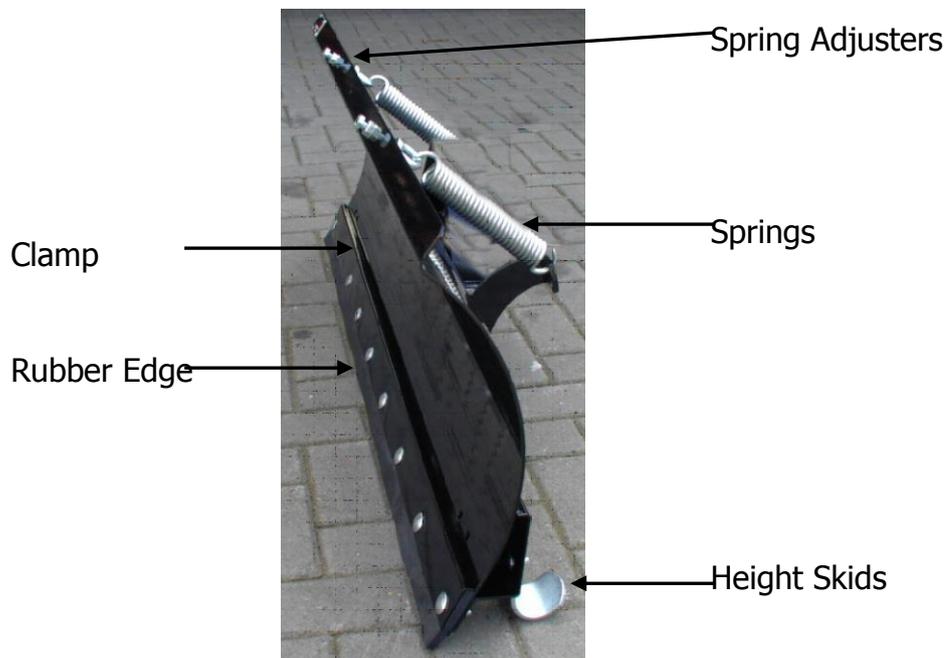
Note: Never use the snow plate without skids.

The skids should never be higher than the lower edge of snow plough. Adjust up or down as required

The snow plough rubber edge should be set depending on local conditions is at the initial crop set depending on local conditions.

The amount should always be equal left and right.

When the rubber edge wears it must be adjusted. This is achieved by loosening the bolts in the clamp, repositioning the rubber edge and re-tightening.



8.2 Spring Dampers

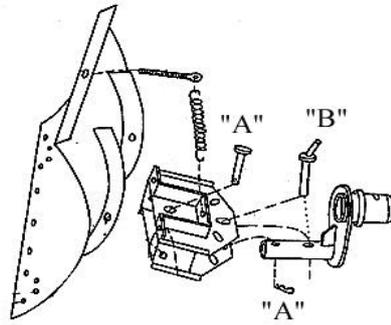
The spring dampers are designed to reduce shock loading through the machine in the event of striking a solid object. They can be adjusted by the spring adjusters located at the top of the plate. In normal ploughing conditions the spring should not be extending. Only when significant pressure is applied to the bottom of the blade should the springs extend.

8.3 Balancing weights

Depending on the conditions, use of additional weight could improve the performance of the machine. Each weight added is 12kg if required.

8.4 Angling the snow plough

The snow plough may be angled both to the left and right.



It may be necessary to loosen bolt A. Remove pin B, swing the snow plough in to the desired position and replace pin B. Retighten bolt A if required.

8.5 Using the attachment

The snow plough is effective moving straight forwards or by angling the blade and windrowing the material to the left or right side. Extra performance may be achieved by adding weights to the plough blade, weights to the wheels of the power unit, snow chains to the wheels of the power unit.

9 Maintenance

9.1 General information

Note! Injuries to people or damage to the machine can occur.

You should check before each use that the machine is safe, all the relevant parts and hydraulic connections are properly connected.

9.2 Maintenance

The sweeping machine must be submitted to regular maintenance.

After any maintenance, any safety devices that may have been dismantled must be reactivated and tested before further operation of the machine.

Check all fixings and pin connections after the first 5 hours of use and lubricate all mobile parts

Check the tightness of the hydraulic fittings before every use.

Check hydraulic fittings after 5 hours use for the first time, and tighten if necessary

(Important note: Only tighten joint if it is leaking. Procedure: Loosen the screw connection then move hose left and right. Now the screw connection can be tightened again.

9.3 Daily maintenance

- Check the safety and control parts for wear before every use.
- Check the oil level and Air filter.
- Check the Hydraulic fittings and linings
- Check the air pressure in the wheels.
- Carry a test run before every use.
- Clean the equipment after every use.
- Regularly lubricate all adjustable and moving parts on the power unit and any attachments.

9.3 Storage settings

Keep pressure off the rubber edge

Clean the attachment thoroughly and lightly oil

9.4 Maintenance after 20 and 100 hours use or longer

All mobile parts must be greased and oiled regularly including at the beginning and the end of each season.

Declaration of conformity

Declaration of conformity of the manufacturer (Article 8 of Directive 98/37 / EC)

We
Kersten Maschinenvertriebs GmbH
Empeler Straße 93-95
D - 46459 Rees

erklären, dass die Maschine:

Schneeräumschild

Fabrikmarke: **Kersten**
Typ: **SCHN85, SCHN850, SCHN100, SCHN125**

complies with the following EC directives:

98/37/EG

Maschinentyp: _____

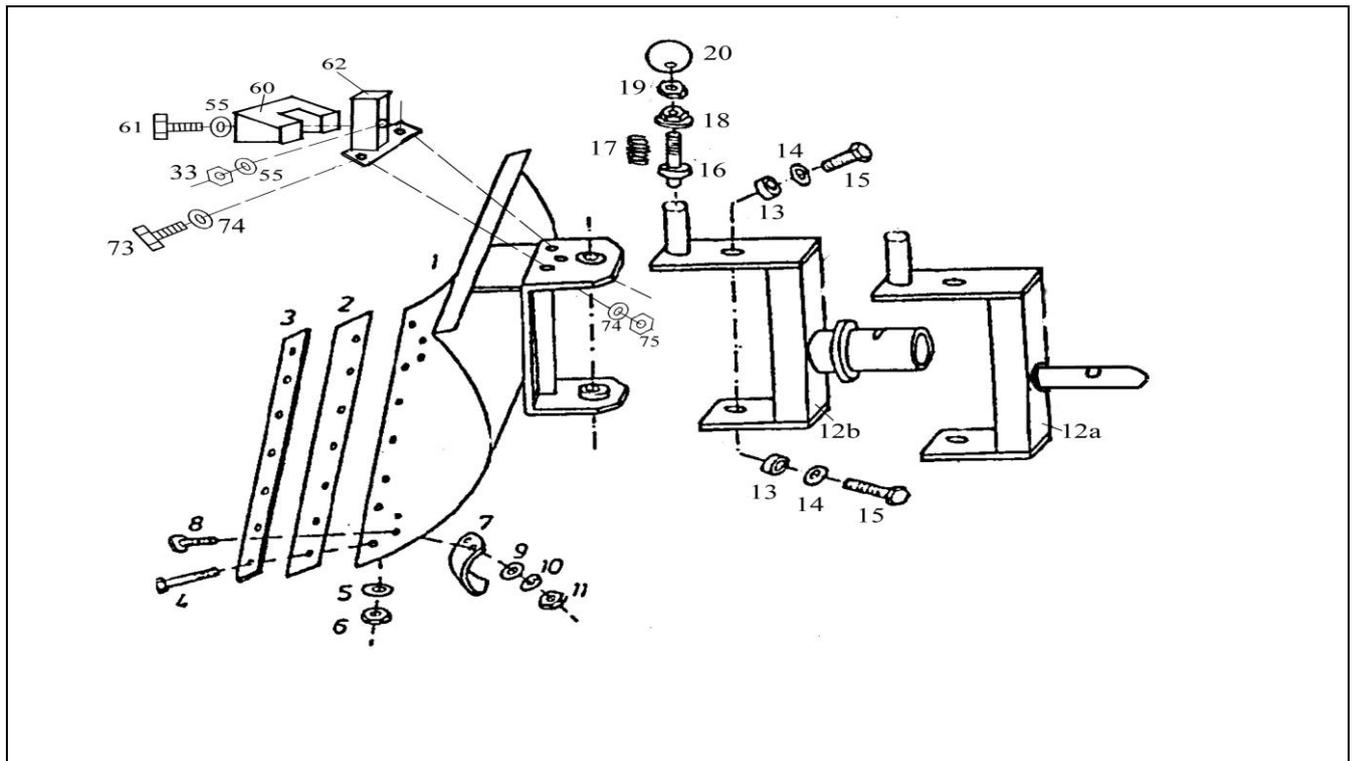
Maschinen-Nummer : _____



Rees, den 26.04.05

Dipl.-Ing. Georg Kersten
- Geschäftsführer

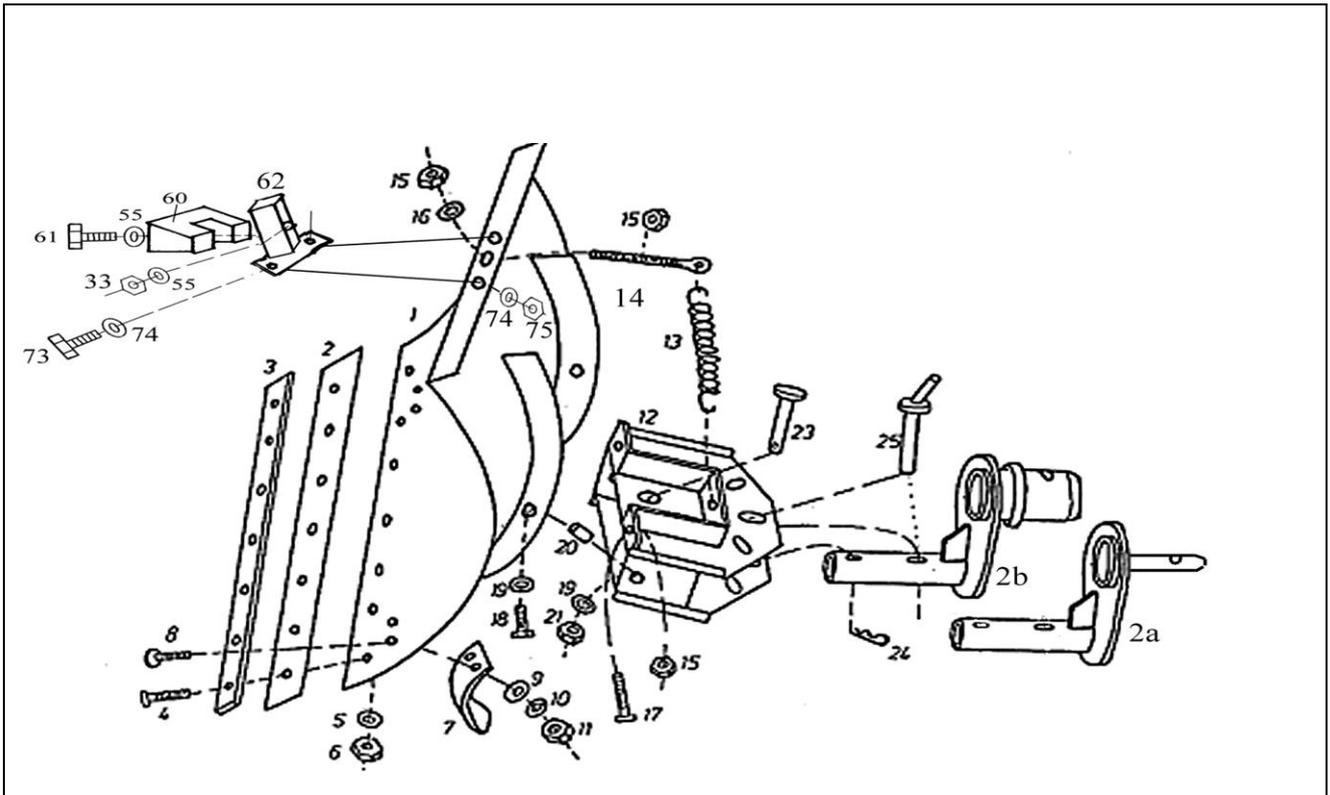
PARTS LIST 85cm Machines



No	Part Number	Req	Description
1A	800 085 090	1	Snow plate. 85 cm fixed
1B	800 100 090	1	Snow plate.100cm fixed
1 c.	800 125 090	1	Snow plate.125cm fixed
2A	800 085 106	1	Rubber bar 85 cm
2B	800 100 106	1	Rubber bar 100 cm
2B	800 125 106	1	Rubber bar 125 cm
3A	800 085 105	1	Mounting rail 85 cm
3B	800 100 105	1	Mounting rail 100 cm
3B	800 125 105	1	Mounting rail 125 cm
4	901 910 030	5 / 7 / 9	Screws at 85 cm/100 cm/125 cm
5	905 210 303	5 / 7 / 9	Body disc 85 cm/100 cm/125 cm
6	900 010 002	5 / 7 / 9	Stop nuts at 85 cm/100 cm/125 cm
7	800 000 110	2	Coach bolt
8	901 908 020	4	Screw
9	905 108 000	4	Washer
10	905 008 000	4	Spring ring
11	900 008 001	4	Mother
12A	712 001 266	1	Intermediate frame-fixed for K1100/K1200PRO

No.	Bestellnum.	ANZ.	Label
12B	700 001 266	1	Intermediate frame-fixed K2000/USB
13	705 205 135	2	Sleeve 13.5 mm
14	905 210 303	2	Body disc
15	910 010 025	2	Screw
16	700 001 170	1	Locking pin
17	909 100 189	1	Spring
18	700 000 171	1	Stopper
19	900 010 001	1	Nut
20	941 220 010	1	Ball button
Special order: Line 33 75			
33	900 012 002	1	Stop nut
55	905 112 000	2	Washer
60	945 000 002	1	Case weight 15 kg
61	901 110 070	1	Screw
62	700 000 056	1	Weight holder
73	901 008 020	1	Screw
74	905 108 000	2	Washer
75	900 006 001	1	Stop nut
Conversion Kit for K820: To provide hydraulic quick release couplings			
	712 082 102	1	Line on FKM
	932 261 223	2	Bulkhead socket
	937 300 028	2	Seal for bulkhead socket
	932 131 323	2	Connector

PARTS LIST 100cm and 125cm Machines



No.	Bestellnum.	ANZ.	Label
1A	800 100 100	1	Snow plate 1.0 m Spring dampers bar
1B	800 125 100	1	Snow plate 1.25 m Spring dampers bar
2A	800 100 106	1	Rubber bar 1,00 m
2B	800 125 106	1	Rubber bar 1.25 m
3A	800 100 105	1	Mounting rail 1,0 m
3B	800 125 105	1	Mounting rail 1, 25 m
4	901 910 030	7 / 9	Screw in 1,0 m / 1, 25 m
5	905 210 303	7 / 9	Body disc 1,0 m 1, 25 m
6	900 010 002	7 / 9	Stop nut 1,0 m / 1, 25 m
7	800 000 110	2	Coach bolt
8	901 908 020	4	Screw
9	905 108 000	4	Washer
10	905 008 000	4	Spring ring
11	900 008 001	4	Nut
12	800 000 104	1	Swivel bracket
13	909 200 322	1	Spring
14	902 010 080	1	Eye bolt

No.	Bestellnum.	ANZ.	Label
15	900 010 001	4	Nut
16	905 110 000	1	Washer
17	901 010 035	2	Screw
18	901 010 040	2	Screw
19	905 210 303	4	Body disc
20	705 205 020	2	Distance Jack 20 mm
21	900 010 002	2	Stop nut
22A	712 001 150	1	Host K1100 K1200Pro
22B	800 000 150	1	Host K2000 and UBS
23	800 000 036	1	Round bolt
24	907 002 003	1	Spring connector
25	800 000 040	1	Pin
Special order: Line 33 75			
33	900 012 002	1	Stop nut
55	905 112 000	2	Washer
60	945 000 002	1	Case weight 15 kg
61	901 110 070	1	Screw
62	700 000 054	1	Weight holder
73	901 008 020	1	Screw
74	905 108 000	2	Washer
75	900 006 001	1	Stop nut

Kersten

SITE MAINTENANCE EQUIPMENT

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