Operator's Manual

Carefully read these instructions before starting and using your splitter!!

-Set-up & instal lation -Use -Maintenance -Accessories

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HYDRAULIC LOG SPLITTER HS 80-2 B



Made in Germany



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1. INTRODUCTION

Dear customer,

thank you very much for your trust and preference in buying this log splitter! You have now joined the BGU worldwide family. We are confident that our equipment will be up to all your expectations and assure you a long lasting quality and performance.

This log splitter model is available in various versions with different splitting force.

HS 80-2 B , 8 t Splitting force

1.1 About the manual

Please take time to read this manual and learn to how operate and maintain the splitter safely. For your easier reading this manual is laid out in several sections. The sections are progressively numbered and listed on the "content" page. The information, pictures and technical data in this document reflect current or planned product features, functions, and characteristics as of the publication date. Because of on-going product improvements and feature additions, information in this document is subject to change without notice. If vou are experiencing a problem or functional trouble on your machine, please read the "trouble-shooting" section to identify possible causes and remedies. If the problem or functional trouble is not listed in the troubleshooting chart contained in this manual, ask your Authorized Service Centre for service. When you have checked all the possible causes listed and you are still experiencing the problem, ask your Service Centre for help. When you order parts maintenance or repair services, your Authorized Service Centre, your dealer or eventually the manufacturer need your machine serial number and engine serial number. These are the numbers that you have recorded on the product identification label of the manufacturer on the machine.

1.2 Delivery and transport claims

Upon delivery of the machine please check for visual machine damages such as damaged packing or scratched buckled parts. If so, make

a remark on all copies of the delivery bill before signing for acceptance.

Also have the truck driver sign al copies of the delivery bill.

Should your shipper or the truck driver refuse to accept your claim, fully reject delivery and make sure to inform us (the manufacturer) immediately. No claims shall be taken into account by the shipper or by the insurance company, if a reservation note is not made on the delivery bill.

All transport damages must be notified within latest 2 days from delivery. Therefore delivery must be collected and inspected within this term. Later claims shall be disregarded. In case of assumed but not visually clear transport damages make sure to mark the following sentence on the delivery bill: **"Reserved delivery due to assumed transportation damages.**"

Insurance and shipping companies act with extreme caution in case of transport damages and sometimes refuse to accept responsibility. Please make sure to provide clear and exhaustive evidence (photos) of the claimed damages. Thank you in advance for your help and understanding in this matter.

2. PRODUCT OVERVIEW HS 80-2 B



3. SAFETY LABELS AND WARNING SIGNS

	 Machine safety label "Before setting-up, servicing, maintaining and cleanig the machine, disengage power and stop the engine. Lock the tool and secure against ac- cidental start." Keep your hands away from all moving parts! Pinched hands danger!
	2. Machine safety label "Read, understand, and follow all instructions in this manual and on the splitter before starting" Keep at safety distance from the dangerous zone!!
	 3. Machine safety label "DANGER! Moving Parts!" "One-man operating only!" Possible dangers can arise from moving parts on the machine. The machine is to be strictly operated by one man at a time only.
p max 245 bar	4. Warning label "p max 245 bar" The label shows the max admissible operating pressure.
	5. Warning label "Pinched Hands danger" Never place hands or feet between log and splitting wedge or between log and ram during the forward or reverse stroke.
	6. Operation safety label "IMPORTANT! Mind for correct table installation" Make sure the pressure table is properly hooked up and installed on the splitter. Please carefully read the instruction manual.





7. Identification label "BGU-Maschinen" logo"

8. Identification label "Product identification"

This label shows the company details of the manufacturer and the main technical data of the machine.

9. Machine safety label "Wear suitable protective gloves!"
10. Machine safety label "Wear suitable protective boots!"
11. Machine safety label "Wear earplugs and googles"
12. Operation safety label Read, understand, and follow all instructions in this manual before starting.
13. Machine safety label "DANGER! Moving parts!"
14. Safety-alert symbol "Read and recognize safety information. Be alert to the potential for personal injury when you see this safety-alert symbol"
15. Warning label "DANGER! hot parts"

4. SAFETY



Strictly perform installation, set-up, maintenance, cleaning and transportation with the motor switched off and the tool firmly secured against accidental operation.

The user shall strictly comply with these operation, set-up, maintenance, repair and troubleshooting instructions in order to assure safe operation and no damages to the equipment. Moreover we recommend to let the machine be run only and strictly by trained and skilled staff who must be familiar with the applicable occupational safety and health administration rules as well as applicable transportation rules. Incorrect use of the splitter can cause serious injury or death. Make sure that full compliance is assured at all times with the general safety and health rules on the workplace as well as the applicable local traffic rules.

No person under school leaving age of 18 should operate a circular saw. However, young people in age of 16 or slightly more may work on the machine providing that they received adequate training, that they carry all due personal protection safeties and that an adult supervisor keeps standing nearby.

Machine instability can result in injury or severe damages. To ensure stability during operation make sure to choose a flat, dry floor free from any tall grass, brush or other interferences.

The working area around the machine must be kept as clear as possible from surrounding tripping obstacles and slippery foundation floors should be duly treated (do not use saw dust or wood ash for this purpose). Make sure that the equipment stands on a safe stable foundation.

Following precautions must be taken at all times

• NEVER use your log splitter at night or without sufficient illumination.

• NEVER operate your log splitter on slippery, wet, muddy, or icy surfaces and ensure that a wide but confined area is available around the machine and assure maximum working freedom.

 NEVER operate the machine without wearing steel-toed shoes, tightfitting gloves and tear-resistant work cloths.

• NEVER remove from your log splitters the safety tools and devices mounted on the machine by the manufacturer.

• NEVER leave the splitter unattended while the engine is running.

Always assure compliance with safety, protection and accident prevention rules as well as general road and traffic rules in the country of use.

Operators should always wear personal protection cloths, steel-toed safety shoes, snug-fitting tear-resistant work cloths, safety gloves earplugs and safety goggles. Site must be free of slippery surfaces and tripping obstacles. Make sure that all access ways are properly maintained so that wood can be safely delivered, loaded and shipped.

4.1 Mandatory application field

The log splitter is strictly designed for one-man operation. Never allow more than one person approach and work on the machine at the same time.

This splitter "HS 80-2 B" is conceived for splitting short and long logs for firewood preparation only.

BEWARE: no cross-grain splitting is permitted. Always split grain-wise and never split one log on top of the other. When loading logs on the log splitter make sure that the chunk rests entirely and safely on the riffle-plate table and avoid unsafe methods or splitting other materials than firewood.

Any other use or splitting method is considered by the manufacturer as "misuse". In case of misuse the manufacturer will not be liable for any injuries or damages and the operator will be held entirely responsible. Please make sure to comply with these set-up, operation and maintenance/repair instructions in order to avoid happening of any injury or dangerous condition.

BEWARE: this unit has a log capacity of min 70 mm and max 450 mm diameter.

Lack of compliance with these instructions may lead to dangerous risks and situations and will void all warranty claims, in which case the manufacturer will not be responsible for customers' claims or resulting damages and/or injuries.

OPERATING INSTRUCTION

5.1 Safety

5.



Install the splitter on flat, clear working surface. The working area around the machine must be kept as clear as possible from surrounding obstacles and slippery foundation floors should be duly treated. Never reach with your hands with the wedge sliding zone while the splitter is operated!

5.2 Initial check-ups

Before first use, make sure that the log splitter is in good conditions and that no visual damages are there.

Check all hydraulic hoses, fittings and couplings and to detect and repair eventual oil leaks.

Make sure that all safeties and protections are duly assembled on the machine. Do not attempt to remove or by-pass these safeties.



Should any trouble or unusual behaviour be detected, do not start splitting wood until these have been fixed.

5.3 Assembling the safety brackets on the hand guards



Fig. 1

Uncrate the machine and assemble the special U-guards on the control handles before first use and installation.

For packing reasons, the hand-brackets (1) are pre-assembled by the factory but not secured to control levers. After uncrating, they are to be simply tightened in their position on the control levers using the two screws (2) available for each lever (see figure 1).

Make sure to tight all screws (2) firmly in place before starting your log splitter!

5.4 Functional controls before start up



Fig. 2

The log splitter is equipped with safety two-hands mechanical controls designed for the operator to keep both hands free from danger and from infringing the moving ram zone during the entire splitting cycle (see figure.2).

It is strongly recommended to check the operation of the twohand control every time before a new use.

To do so, engage both hand levers and hold them down at the same time until the ram slides all the way down.

If your system is duly set, the wedge stops upon **releasing of just one** of the two levers while the ram stops completing its up/down stroke at once.

On the other hand, the ram must recommence its upwards travel to the initial start position (all the way up) as soon as the other lever is also released.

Make sure that the ram does not travel down when operating only one single lever. Check that both levers spring back into their normal position when the hand pressure is released.

5.5 Adjusting of the pressure table



Fig. 3



Fia. 4

The log splitter is equipped with an intermediate hang-up table (Pos.4) for splitting short logs up in length of 550, 750 and 1080 mm. Setting-up/removing the short-logs table can be easily performed without any additional tool or help.

To remove it: release the wing-nut (Pos. 3 on Fig. 3) on the table mount, remove the safety lock pin on one side, now slightly lift the table up and pull it out towards you.

To fit it on: slip the table onto the lower level mount, grip the front rim of the table and slightly lift it lightly up.

Now push it down to the stops on the construction stand and release grip on the front rim and let the table settle down making sure that the rear table hooks are well and firmly settled on the mounts (see picture 4 on the side).

Finally slip the clevis back into the special fixation holes on the table mounts and tighten them by means of the special wing-nuts.

(if the table is duly settled the clevis will fit easily and effortless into the holes)

Remove the short-logs table off the machine, if you need to split full cord logs.

In order to hold the log firmly under the wedge during the entire splitting cycle, use the special log-clamps located on each control handle. Both log clamps will automatically adjust to your log diameter thanks to the spring force.

5.7 Adjusting the ram stroke length

The ram travel is factory set to the maximum log capacity before shipment.

As you start the motor, the ram slides automatically up to the maximum travel stroke.

Should your chunks be much shorter than your capacity adjustment on the machine, it is possible to adjust the ram stroke accordingly. Stepless ram stroke adjustment is possible at all times.

Ram stroke adjustment procedure:

Let the ram slide down to the desired stroke length and shut the motor off. When you do this, make sure to keep engaging one of the control levers in order to prevent the ram from returning back to its upper start position.

Now release the wing-nut on the rear grip-handle and pull up the control rod as much as possible. The ram travel is reduced by an equivalent stroke length as the pulled-up rod length. Once the rod is pulled sufficiently up to obtain the desired ram stroke, tighten the wind-nut back to the original torque.

Now you start the splitter motor again and check the ram that should be now completing a shorter travel than the original full-stroke.

Later ram travel adjustments to the original full-stroke length can be repeated as many times as wanted by simply releasing the wing-nut, pushing the rod back in and tightening the wing-nut again.

5.8 Operating instructions

Start the gasoline motor following the instructions of Honda Motor supplied with your splitter.

Now switch the splitter on.

Load a chunk on the short-logs table, close the control handles until firmly securing the log by means of the clamps located on the handles.

Now push both handles down at the same time to start the cycle and engage the ram that will immediately start travelling down.



DO NOT RELEASE THE CONTROL HANDLES UNTIL THE CYCLE IS COMPLETELY OVER AND THE LOG IS SPLIT.

A split chunk will tend to fall apart increasing its original mass. It may be recommendable to push both control handles slightly towards the outside.

Should any emergency arise and stopping be required, simply set the control handles free from your grip. When doing this, the ram will immediately travel all the way back up. As soon as the log is completely split, release both control handles and let the ram travel back to start position (B) and be ready for a new cycle. Do not attempt to catch the split wood or remove wood sticks from the table by hand until the cylinder rod stops at its maximum travel position. Clear the table and remove chips and wood debris from the machine before starting a new cycle.



When loading chunks, make sure that logs sits central and firmly with its sawn end on the table. Do not split wood chunks with lots of branches, first clean it and remove all branches. DANGER: crooked trunk pieces with green/dry branches may burst under wedge pressure! Make sure to shut the motor off before leaving the area at work end.

5.9 Clearing logs sticking to the wedge

Depending on the type of wood being split, a log may not always break into two pieces and fall to the ground.



If a log sticks to the wedge, place the valve handle in the neutral position (stop the wedge from travelling), switch the splitter off and carefully remove or hammer the log off the wedge.

Allowing the log to remain attached to the wedge when it is fully retracted could lead to possible injury and/or damage to the log splitter.

5.10 About the gasoline engine

Before starting your machine, make sure that a visual control of the engine conditions is successfully performed.

Check the level of the feuel and of the lubrication oil in the tank (using the special motor gauges) andmake sure there are no visible mechanical defects or damages on the engine and on the machine.

To avoid damaging your splitter and/or the engine, take some time to carefully read the attached HONDA POWER PRODUCTS instructions and to make yourself familiar with all tips and instructions given therein. The engine manufacturer's manual contains useful information about safe and correct start-up, use, service, transport and troubleshooting procedures as well as all technical data and specifications of the engine.

6. HANDLING AND TRANSPORTATION



Fig. 5

Before handling, moving or transporting the splitter:

1. make sure to cut the power off (unplug the machine).

2. slide the ram down and to tie up the two control handles together to prevent them from swinging out and accidentally injure/damage persons or other equipment standing nearby.

3. leaned the splitter back on the wheels while firmly holding it with one hand on the rear upper grip and the other hand on the cover plate above the motor. (Fig. 5)

7. 4-WAYS WEDGE AND SPLAY-WEDGE (ACCESSORIES)

On request, the log splitter can be factory equipped with a 4-ways wedge and/or a splay wedge.

The 4-ways wedge is designed for splitting each log in 4 sticks in one cycle. The splay wedge can be used for cleaving big, hardwood logs and facilitates breaking through the log.

4-ways wedge and splay wedge are simply slipped on the permanent wedge of the machine and secured by means of a special star knob.





BEFORE STARTING THE CYCLE make sure that wedge is fully slipped-on the permanent wedge and secured in position with the star knob.

Before strating the cycle make sure that wedge is fully slipped-on the permanent wedge and secured in position with the blade wings facing the operator side.

Do not work with a loosened wedge to avoid falling off during splitting!! This is a very UNSAFE method and could result in major injuries to the operator and permanent machine damages.

Preferably avoid using a 4-way wedge for splitting of hard wood (fruit trees, beech etc...) likely of imparting excessive pressure against the wedge.

Fig. 6



When using a 4-ways wedge the log clamps on the control handles must be pulled out of the splitting area below wedge.

8. REPAIRS AND MAINTENANCE



Make sure that the machine is fully disconnected and all moving parts are secured before performing any maintenance/repair work on the machine. In the event of any malfunctioning, switch the machine off before trouble-shooting.

8.1 Regular maintenance

Make maintenance a regular part of daily operation. The daily maintenance routine needs to include:

- Cleaning of the machine and clearing of all parts from residual wood debris, chips, dust, bark pieces and eventual other waste.
- Greasing of the sliding pads inside the splitter stand.
- Hydraulic oil check and (in case of leakage) hydraulic hose and fittings check-up to detect eventual oil leaks.
- Lubrication of all moving parts.

Recommended oil types:

DEA HD B 46, Shell Tellus 10-46, Esso Nuto H 46

Periodically check the oil level inside the hydraulic oil tank. When doing so, accurately avoid contaminating the tank with dirt, wood chips, sow dust etc... Make sure that the splitter never runs without oil or with a low oil level.

When this happens, air is likely to reach inside the hydraulic loop. Failure to maintain due oil level may cause poor running and irregular splitter operation (very rough, jerky motions) as well as major pump damages. Please schedule your first oil change after approximately 25-30 operation hours and later ones after each 50 operation hours or once a year.

The oil drain plug is located on the bottom tank side. When changing the oil, never let used oil drop down on the ground, rather collect whole of it in a sealed container for due disposal. Oil disposal containers should be of at least 7 l capacity. If you are using smaller containers, make sure to drain the tank in more than one round to avoid spilling old oil out on the ground.

The fillercap is on the upper right hand side of the tank. After refilling the tank with new oil (approx 7 l), let the splitter cycle three or four times and let the air blow out of the hydraulic loop before closing the cap.



Used oil is very polluting and should be disposed in accordance with local rules!

8.2 Hydraulic oil

8.3 Sliding Pads

Should irregular noisy knocks be heard while the ram is sliding up and down, grease the plastic sliding pads located inside the splitter stand. Preferably use commercial grease available in your country.

The noisy knocks should disappear after greasing.

Should you detect an unusually larger gap between the wedge riser and the stand, sliding pads are likely to be worn out. If so, replace them with brand new ones.

8.4 Consumables

- Plastic sliding pads
- Hydraulic hosed (replace them all every 4-5 years)
- Hydraulic oil (provide a complete oil change approx. every 50 operating hours or once a year)

9.

DISMOUNTING AND DISCARDING AN **OBSOLETE MACHINE**

When the splitter is fully obsolete and cannot be of any longer use, it should be duly dismounted ahead od discarding. Certain components need deactivation and dismantling in order to assure that no further use is made by other parties and that no worn out parts are recycled for other applications.

During dismantle be alert for possible recyclable materials and components that belong to differentiated waste collection procedures applicable in vour country.

The manufacturer is not liable and undertakes no responsibilities for personal injuries or damages that may result from the recycling of worn out machine parts for eventual re-use in other applications different than the originally stated in this manual.

Dismantling procedure:

Take good note please: each and every dismantling task must be performed by authorized service centers or trained skilled staff only!

 Lock and clamp all moving machine parts and pull the machine into single components

• Deliver each single component only to authorized waste management facilities

• Drain oil and fuel out of respective tanks and lines before disposal of the machine

 Remove rubber and plastic parts from the machine that must be separately disposed

Deactivated, clamped moving/driving parts and components are of no further risk and danger.

Electric components must be separately disposed to avoid substantial environmental threat. In the event of the fire on the electric deployment system of the machine, use an explosion-proof extinguish system is required (for example powder fire extinguishers).

10. TECHNICAL DATA

Technical Data	Unit of Meas.	HS 80-2 B
Log capacity	mm	580/750/1080
Splitting power*	t	8
Max. Operating Pressure	bar	245
Motor Power	PS	5,0
Speed: ram down travel	cm/s	8,3
Speed: ram up travel	cm/s	14,3
Total machine height (riser up)	mm	1600
Total machine height (riser down)	mm	1100
Lenght	mm	600
Width	mm	1150
Weight	kg	134
Oil capacity (Tank)	I	7,0

* The actual splitting force may vary \pm 10% of nominal rating.

10.1 Noise emissions

Noise emissions were measured in accordance with the European directives for the measurement of noise emissions on the workplace. The measurement was performed by external authorized certification bodies in compliance with the applicable standards based on applicable rules for agricultural and forestry equipment.

Noise levels were detected and measured at 1600mm height both in front of the machine and 1000mm far from it. The detected noise level was: LpA = 75 dB(A).

11. OTHER AREAS OF POSSIBLE RISK

11.1 Mechanical dangers

The special two-hands control mechanisms minimises risks and dangers related to moving parts on the machine (wedge). An additional safety is provided on the machine in order to prevent working with only one handle while the other one is being engaged (held down) by some mechanical tool or system.

DO NOT EVER ATTEMPT to remove or by-pass the two-hands control! Danger: operating the splitter without the safety two-hands control will increase your risk of having your hands pinched during the splitting cycle. Do not remove any other safety and protection device from the machine.

Warning: Splitting without due safety devices will void the warranty and might result into serious injures to the operator or the other person around the workplace. Keep hands and fingers clear at all times.

12. TROUBLE SHOOTING CHART

Type of malfunction	Possible origins of the problem	Solutions
No ram travel UP	- Oil level is too low	- Fill new oil in
No ram travel DOWN	- as above	- as above
Wedge moves slowly or will not extend completely on nor- mal log	 Oil level is too low Wrong valve détente Pump is broken Cylinder gaskets are damaged 	- Fill oil in - Adjust valve - Replace pump - Replace gaskets
Ram stops during splitting	- Log is too big, crogged or with lots of branches	- Turn/adjust log position
Hydraulic hoses heat-up ex- cessively	 Oil level is too low Pump is damaged Wrong valve détente 	- Fill oil in - Replace pump - Adjust valve
The gasoline engine cannot start	- Fuel is missing	- Fill up

13. PARTIAL WARRANTY

All BGU machines are covered with legal warranty. Customers should promptly notify eventual material, production or workmanship claims on their detection. While asking for warranty service, customers should show copy of their purchase invoice or receipt. The warranty does not cover for faults due to natural wear, temperature or weather agents as well as misuse, faulty installation or improper lubrication. No warranty will be given on parts damaged by improper handling or wrong connections. No warranty applies for cases of major force or of misuse (for example modifications of the machine or customized installations done by the customers or unauthorized thirds). No warrantyis given in case of machine overload.

Consumable parts (pads, wedges and general materials) as well as adjustment and/or setting and retrofitting services are not included in this warranty.

14. EXTENDED WARRANTY

All SÜMA equipment is covered with 24 or 12 months total warranty from the date of purchase for private/industrial users and rentals. The total warranty does not substitute nor void the legal warranty. Customers should promptly notify eventual material, production or workmanship claims on their detection. While asking for warranty service,

customers should show copy of their purchase invoice or receipt. Buyer's address and type/model of equipment must be clearly stated in the case of industrial users/contractors/dealers. All claims related to material or production failures during the total warranty time, shall be repaired notwithstanding eventual user's faulty/wrong operation or maintenance.

16. EC – STATEMENT OF COMPLIANCE

to the CEE Machines Directive No. 2006/42/EG und der EMV-Richtlinie 2004/108/EG

We hereby declare that the equipment described in this manual responds in full to the actual version brought on the market. We, the manufacturer further declare that this equipment was duly designed and manufactured in accordance with the actual European Safety and Health Standards settled by the relevant EEC directives as well as the latest electromagnetic standards issued by the European Council of 3.5.89 and later enforced by all member states. This statement of compliance does not apply to customer modifications of the equipment without manufacturer's written approval.

Machine Type:	Hydraulic Holzspalter			
Model:	HS 80 - 2 B			
Serial production Number.:	see model label			
Applicable European Standards:	EC Machine Directive (42/2006) and following additions and amendments. EC Low Voltage Directive LVD (93/68) amended by LVD 2006/95 EMC Directive 2004/108/EEC			
Other armonized Standards and technical specifications for logging & splitting equipment:	EN 609-1 Agricultural and forestry machinery - Safety of log splitters EN 60204-1 EN 61000-3-2			

EN 61000-3-3

Person responsible for the technical documents: Herr Pareis

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14.09.2016

Date

Official user language: English

René Pareis (Director)

(User's release)

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Pos.	Description	(HS 80-2 B)	Nr.	DIN	Dimensions
1	Constrution stand, con	nplete assembly	16124		
2	Wedge riser, pre-assembled		16059		
3	Control lever, complete assembly		13558		
4	Intermediate table		17941		
5	Control rod		13579		
6	Hydraulic system, con	plete assembly	25258		
7	Lower fixation bolts		11959		
8	Screw cap		11977		
9	Axle		14603		
10	Rod		13582		
11	Washer		20616		
12	Upper supplementary pla	ate	17019		
13	Adapter plate for motor	GC 160 SHE	21744		
14	Adapter plate		56285		
15	Upper guide		53057		
16	Honda gasoline engine		57437		
17	Cable sleeve, vibration d	amper	54258		
18	Rubber/steel bumper		56287		D=40 H=30 M8
19	Rubber/steel bumper		51049		D=40 H=30 M(x20
20	Wheels		52565		
21	Pump holder for pumps	groups GP1	56286		
22	Elastic coupling		56288		
23	Compression spring		51867	DIN 2098	1,6x8x45
24	Shaft retainer		51672		
25	Spring washer		51706	127	B8
26	Hex head screw with neo	:k	54317	931	M12x160
27	Hex head screw with neo	:k	54002	931	M10x45
28	Hex head screw with neo	:k	53173	931	M8x55
29	Hex head screw		51437	933	M6x55
30	Socket head screw		51353	912	M8x30
31	Socket head screw		51389	912	M8x80
32	Socket head screw		51342	912	M6x25
33	Socket head screw		56266		5/16x1/5
34	Hexagon socket head ca	p screws	55073	7380	M8x14
35	Wing screw		51263	316	M8x20

Pos.	Position	(HS 80-2 B)	Nr.	DIN	Dimensions
36	Hex nut		52516	936	M8
37	Self-locking hex nut		51606	985	M6
38	Hex nut		51591	934	M6
39	Self-locking hex nut		51607	985	M8
40	Self-locking hex nut		51608	985	M10
41	Wing screw		54599	315	M12
42	Washer		51652	125	17
43	Washer		51648	125	8,4
44	Washer		51697	9021	8,4
45	Washer		51698	9021	10,5
46	Spring washer		51234		
47	Spring washer		51233		
48	Hexagon socket head	cap screws	53180	7380	M8x12
49	Construction stand		16125		
50	Slide bearing without	neck	52135		d=20 D=23 b=20
51	Motor safety		20071		
52	Shim		13711		
53	Hex screw		51448	933	M8x30
54	Hydraulic safety		13585		
55	Hydraulic safety		13626		
56	Hex screw		51427	933	M6x14
57	Washer		51696	9021	6,4
58	Galvanized blind rivet	nut	51616		M6 L=14 (0,7-3,0) D=9
59	Cover plate		16126		
60	Multigrip blid rivet		51847		d=4,8 =11 (1,5-6,5)
61	Edge protector		20093		190 lg
61.1	Edge protector		25275		325 lg
61.2	Cable sleeve		51934		
61.3	Drive rivet		51052		
62	Wedge riser		16016		
63	Hydraulic ram		53019		
64	Upper fixation bolts		13561		
65	Round dip moulded fe	rrules	51041		d=19 L=25
66	Ribbed insert for squa	ire tubes	50206		für Rohr 100x100x4
67	Lower guide		16069		

Pos.	Description	(HS 80-2 B)	Nr.	DIN	Dimensions
68	Hand guard, left		13567		
69	Hand guard, right		13568		
70	Control lever		13631		
71	Clamping bar		13657		
72	Head socket screw		51357	912	M8x45
73	Self-locking hex nut		51607	985	M8
74	Handle grip		52110		
75	Head socket screw		51325	912	M4x20
76	Hex nut		51589	934	M4
77	Compression spring		54413	2098	2x22x79
78	Plunger cap		13622		
79	Round dip moulded ferr	ules	52133		d=10 L=18
80	Hex screw		13566		
81	Safety guard		18282		
82	Socket head cap with re	ecessed	54248	7985	M16x12
83	Gear pump - tandem pu	ımp	55203		
84	Control valve 4/3		54414		
85	W-coupling		50640		
86	W-Male stud coupling		52062		L 15 Rk 3/8" o.m+d
87	Male stud coupling		54530		18 LR 3/8"
88	Valve		54529		DKOL DN 16
89	T-male stud coupling		50664		L 12 o.m+d R 3/8" K
90	Straight E-coupling, gal	vanized	50625		L 15 G 3/8" A
91	Adjustbale W-coupling		50644		L 15 M22x1,5 o.m+d
92	Elbow flange coupling		54483		
93	Straight E-coupling		50634		L 12 D1/2" A
94	Straighte E-coupling		55756		L 18 - 1/2"
95	Screw plug with neck		53062	910	3/4"
96	Copper ring for 3/4" scr	ew plug	53152		d=26 D=31 s=2
97	Hose clip, threaded, gal	vanized	50528		d=24 b=12
98	Hydraulic hose		56293		2 SN 12-540 lg
99	Hydraulic hose		50620		1 SN13-620 lg
100	Hydraulic hose		54614		1 SN 16-160 lg
101	Hydraulic hose		56294		1 SN 16 430 lg
102	Filling plug with gauging	g stick, 350 mm	50674		TMDFA 3/4"



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