



ZIJTVELD

CE Operating and maintenance manual

Demolition and sorting grab
Type S75-ZD

Dear User,

The Demolition/Selector grab is a piece of equipment for excavators. The selector grab is available in various weights, capacities and versions and is always a fast and purpose- built selector and demolition device.

It is imperative you read this manual and follow all the instructions given when working with our machinery in accordance with our recommendations.

The Selector Grab products are provided with a CE marking, thereby complying with all the necessary European regulatory safety regulations.

It is essential to follow the safety regulations at all times.

These safety regulations refer to those laid out in this manual, including both the operating instructions for excavators and the safety regulations that apply to the vicinity in which the Selector grab product is being used, maintained and repaired.

Modifications made to the Sorting Grab may only be implemented with the written consent of the manufacturer. Only under these circumstances do the warranty conditions and CE liabilities remain applicable.

Warning

- The excavator with a Selector Grab may only be operated by a qualified person.
- Maintenance and/or repairs may only be carried out by appropriately trained and competent personnel.
- Prevent dangerous work situations. Stay at a safe distance from moving parts.
- Ensure that whilst operating the machinery no other people are within the working vicinity of the excavator with selector grab.
- Maintenance or repair work must only be carried out when the engine is turned off.
- Refer to the safety regulations before starting on any maintenance or repair work.
- Replace defective parts only with original parts from the manufacturer.
- Failure to replace defective parts with original parts from the manufacturer will result in cessation of the entire warranty and CE liability.

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EU declaration of compliance



(Guideline 2006/42/EC)



Manufacturer Zijtveld Grippers B.V.
Address De Boomgaard 1
 's Graveland

Hereby declares that Zijtveld Gripper®

Type	S75-ZD
Serial number	

meets all the required machine guidelines (Guideline 2006/42/EC, as most recently updated) as well as national legislative implementation of this directive.

Attention: Any adjustment that is made to this product without written consent on the manufacturer, makes this declaration void and invalid.

We should draw your attention to the fact that the selector grab product is designed to be assembled with another machine, and that the product, on the grounds of the machine Guide Line, can only be used once the whole machine is in accordance to the conditions laid down by European regulations.

Date

.....

(signed)

The Selector Grab should always be attached to an excavator of the correct weight, class and capacity of machine. Refer to the data information plate on the grab and consult the technical specifications in this manual. When in doubt contact the supplier.

The weight of the grab, increased by the weight of the load being picked up, must never exceed the maximum allowance of lifting power. For further information consult the excavator manual.

It is prohibited for people to be within the rotation range of the machine and grab. Keep in mind that material being lifted that extrude from the grab will enlarge the rotation range.

It is always possible that material can fall out of the excavator's grab. For this reason, never rotate the machinery above people, machines nor vehicles.

Always pick up a long load at its centre of gravity, to prevent the excavator from either rotating or tipping over. It is not permissible to use the grab to hit or pound.

Whilst connecting or disconnecting, lubricating or other maintenance work, the grab must be stable and on a flat surface. Before performing lubricating or other maintenance work the engine should always be shut down.

Warning

Never work on the hydraulic system if the system is still under pressure! Keep hands away from moving parts at all times.

The manufacturer cannot anticipate every possible circumstance that might involve a potential hazard. The warnings in this publication are, therefore, not all-inclusive. If a tool, procedure, work method or operating technique that is not specifically recommended by the manufacturer is used, then you must assure yourself that it is safe for you and others.

You should also ensure that the product will not be damaged or made unsafe by the operation, lubrication, maintenance or repair procedures that you choose.

Terms of guarantee



The manufacturer provides a warranty of 12 months from the date of delivery.

All defective parts proven to be caused by faults in either manufacture, production or material are covered by the warranty.

Defective parts that are replaced and fall under guarantee become property of the manufacturer. They must be kept available and returned immediately, in complete and unaltered condition, upon the first request from the manufacturer.

Any claim made under guarantee will only be taken into consideration once a written appeal is made to the dealer or manufacturer. This must be done directly after the damage or fault occurs and at least within 24 hours of any irregularities and problems arising.

All claims under conditions of the warranty must contain the following data; the type of machine the product has been mounted on, the serial number of the grab, the record of the defective part(s) and a description of the fault, photographs, copy of the delivery papers and invoice and a copy of the invoice of the piece of equipment concerned. Minor repairs can be carried out in consultation with the dealer; the necessary parts which fall under the warrantee, will be delivered without charge. For larger repairs the grab should be sent to your dealer or manufacturer for repairs or modifications. The work and necessary parts are free of charge. However, transport costs and call-out charges to and from your dealer or manufacturer are not covered.

The manufacturer is not liable for consequential loss caused by a defective Selector Grab (consequential loss to excavators, consequential loss due to a stationary excavator or the suspending of work activity).

EXCLUDED FROM GUARANTEE:

- Damage caused by faulty assembly of a machine and or the hydraulic system, improper maintenance without expertise and transport damage.
- Defects resulting from improper repairs and/or maintenance including that carried out by an unauthorised third party.
- Defects arising from neglect or improper execution of preventive maintenance procedures e.g. regular lubrication or greasing.
- Defects to parts which are subject to normal wear like blades.
- Consequential loss caused by failure to replace normal wearing parts in time.

N.B. If defective or worn down parts are replaced by non-original parts, the entire warranty and liability will cease to apply.

Procedures to follow before initial use



Before taking the machine into operation and to ensure the good functioning of the apparatus, it is important that the following points are checked and correspond to the technical specifications as shown on the information plate and in the manual.

- The type and weight of the sorting grab must conform to weight and machine class of the intended excavator.
- The oil flow and the pressure for rotating the selector grab should be checked and adjusted.
- Beware: the return pressure of the rotating oil at a continuous level may be at a maximum of 25 bar, and only briefly (maximum of 10% of the working time) at 100 bar.
- The oil flow and pressure of the pinching (opening and closing) of the sorting grab needs to be controlled and adjusted.
- Check if the hydraulic quick release hitch is in good order and screwed on firmly.
- Check if the ball valves and valves are in the correct position.
- Check if the connecting pins between the excavator and the sorting grab are well secured, as well as the wedge and the security pin of the quick release hitch system.
- Ensures that the hoses have the correct length and are at no risk of interfering with any of the moving parts. Also make sure they cannot wear or damage because of contact with the grab or material that is moved by the grab.

Daily maintenance

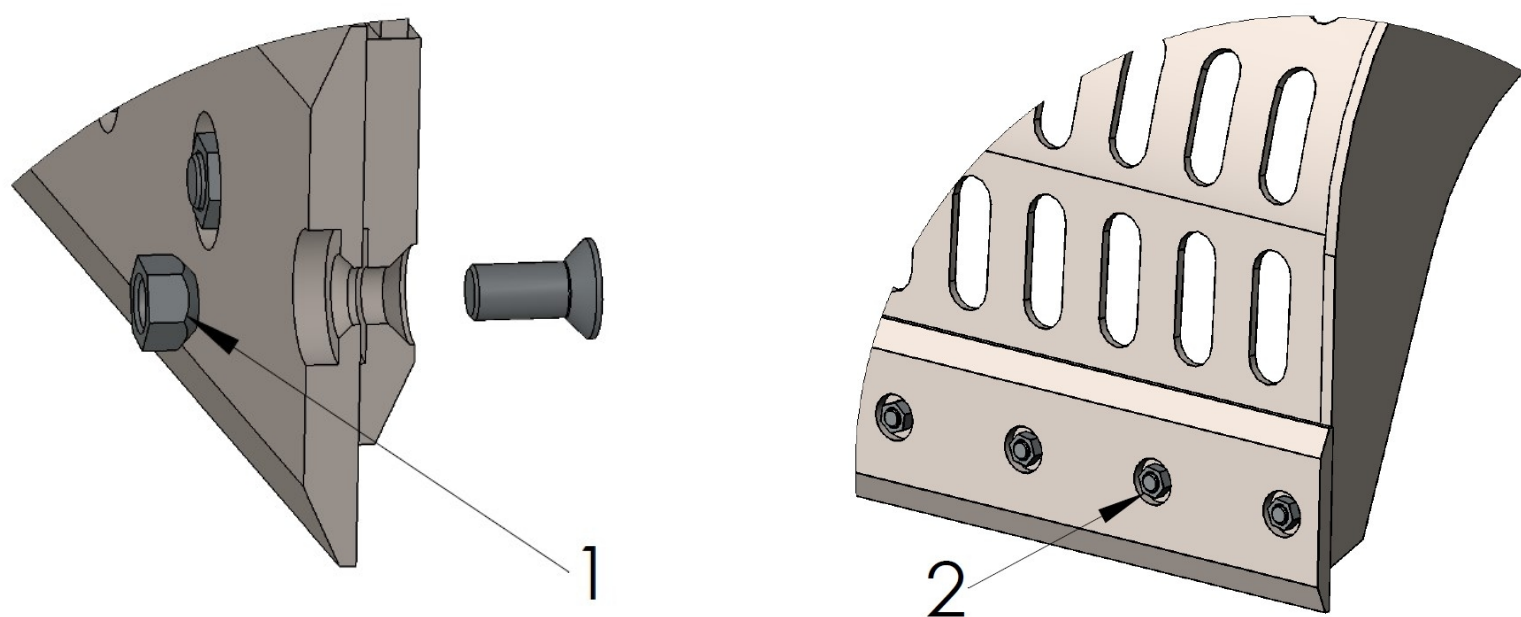
For maintenance work, always place the grab in open position on a flat and stable surface and ensure the excavator cannot move.

During maintenance on the hydraulic system the hydraulic hoses need to be disconnected. Before disconnecting ensure there is no pressure on the hoses. Consult the manual for the excavator.

The grab must be lubricated once every 8 operating hours with the same lubricant recommended for the excavator. For the position of the grease nipples and frequency of lubrication, see the schedule on page 9.

When the cutting blades of the grab shells are worn down to such a degree that the grab can no longer close fully, all work should be suspended immediately and the exchangeable wear blades must be changed or replaced (Note that the wear blades also function as final stop of the cylinder—neglect or excessive wear can lead to damage).

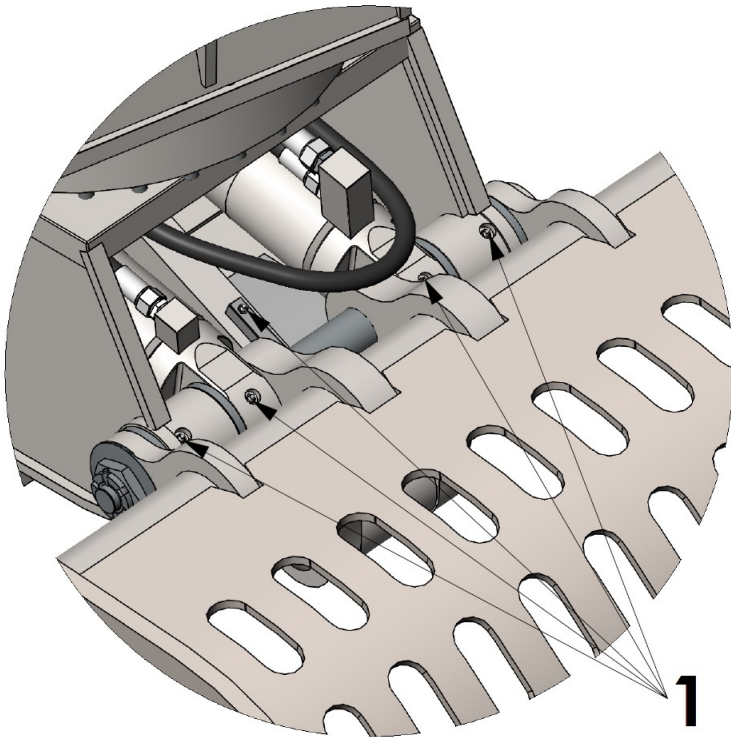
Picture 1 and 2 : Instructions for assembling the wear blades.



1 = Attention: fix nut with the conical side to the inside.

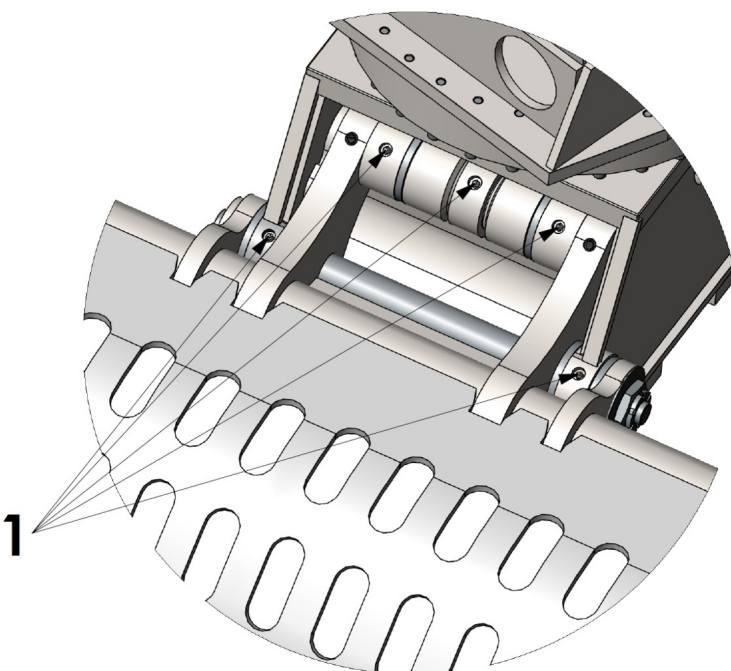
2 = Bolts need to be tightened with a torque as shown in the table (see page 16).

To ensure the wear blades are securely fastened to the shell it is recommended to place some additional spot welding between knives and shell base.



Picture 3: Lubricating pivoting points

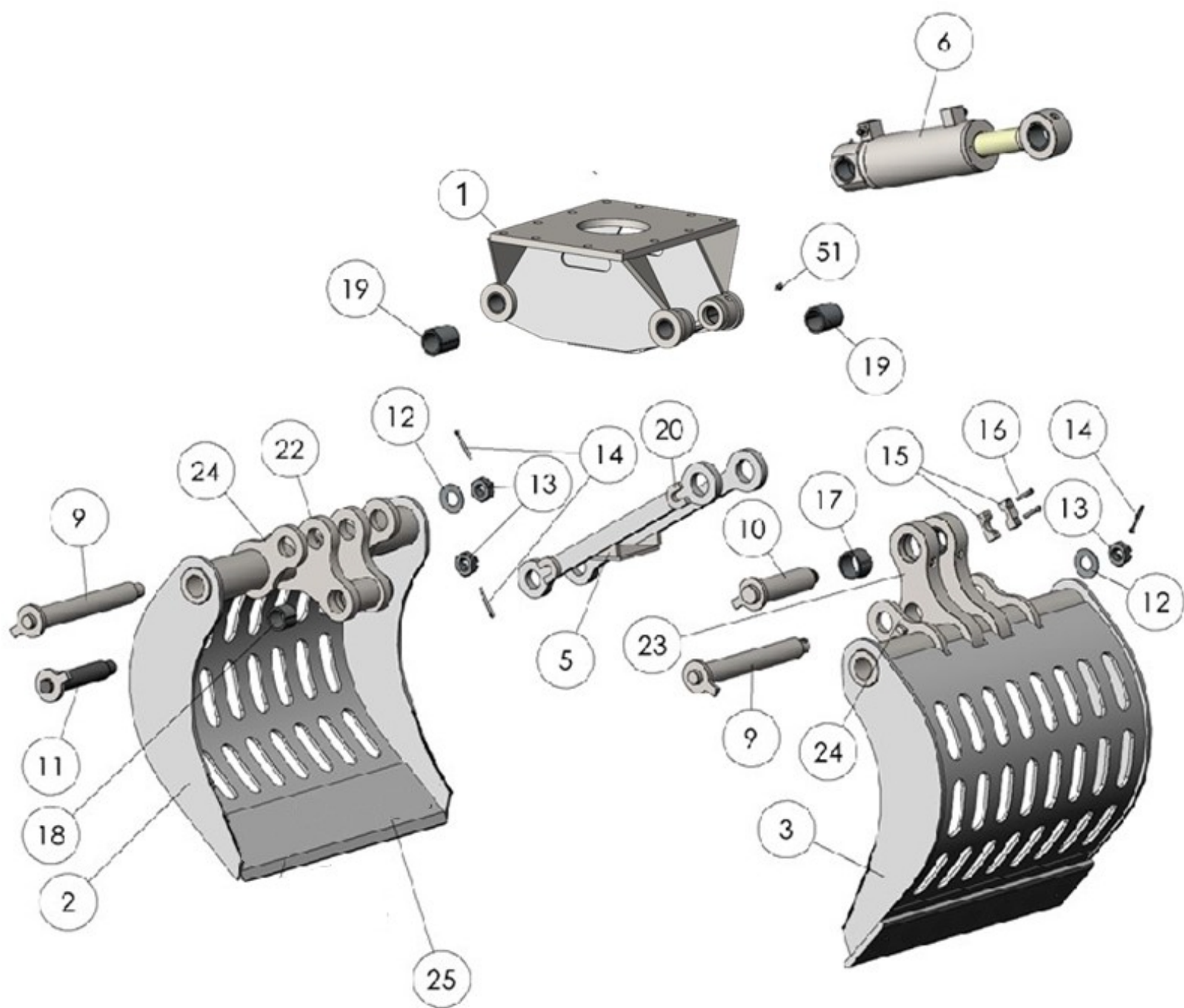
1 = Lubricate 1 x per 8 operating hours.



Picture 4: Lubricating pivoting points

1 = Lubricate 1 x per 8 operating hours.

Exploded view S75-ZD



Parts list S75-ZD

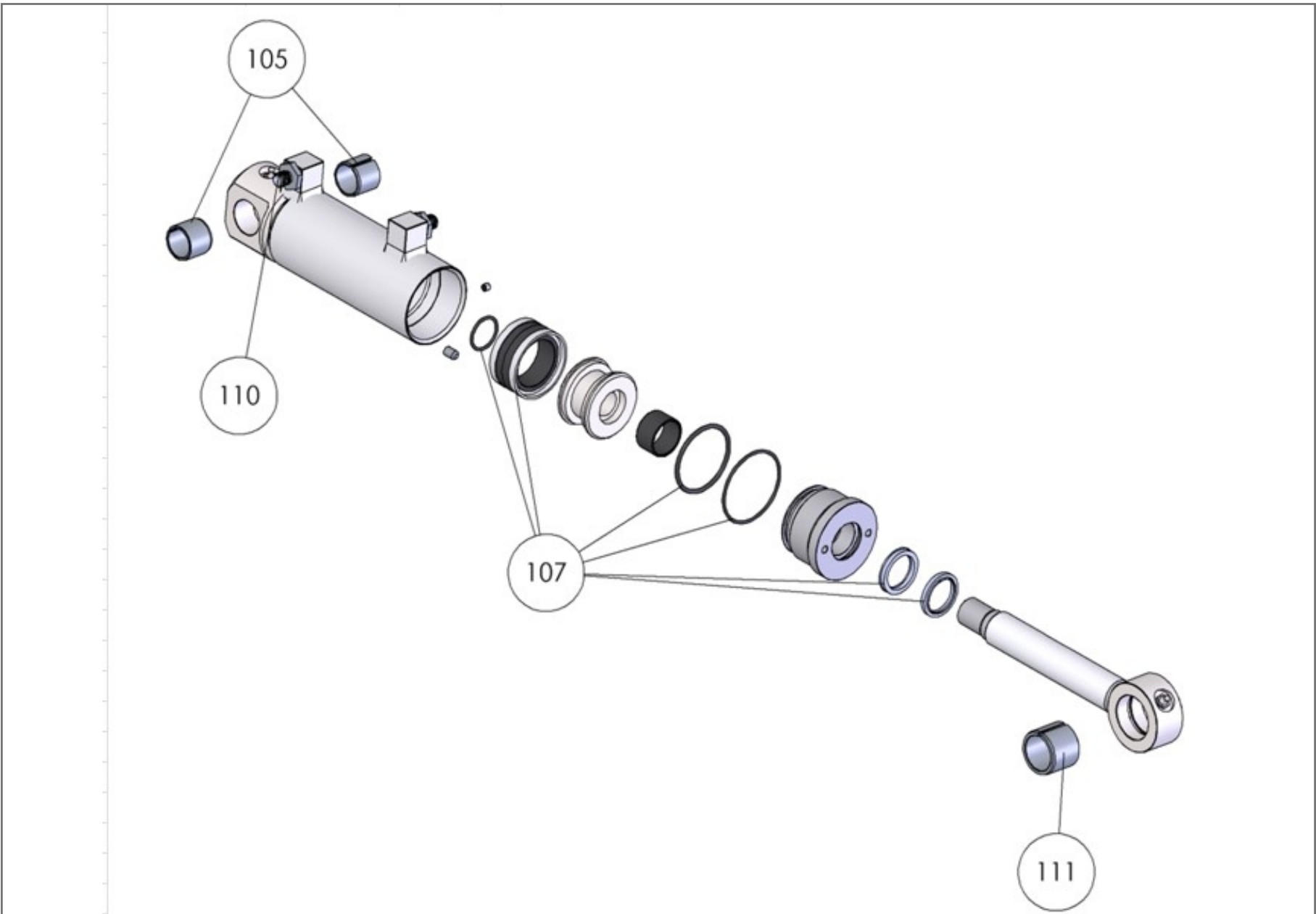


Part No.	Qty	Description	Order part No.
		Demolition and sorting grab S75-D	S75D.000
1	1	Welded main frame construction	S75D.001
2	1	Shell left (short lever)	S75D.002
3	1	Shell right (long lever)	S75D.003
5	1	Welded linkage construction	S75D.005
6	1	Hydraulic cylinder	S75D.006
9	2	Main hinge pin	S75D.009
10	1	Linkage axis (top/long)	S75D.010
11	1	Linkage axis (under/short)	S75D.011
12	2	Disk spring	S75D.012
13	2	Nut	S75D.013
14	1	Lock bushing linkage axis	S75D.014
15	1 set	Bolt/nut for lock bushing	S75D.015
16	1 set	Bolt set pressure relief unit	S75D.016
17	2	Bearing	S75D.017
18	2	Bearing	S75D.018
19	4	Bearing	S75D.019
20	1	Locker-U	S75D.020
21	1 set	Lubrication nipple set	S75D.021
22	2	Shell hinge short	S75D.022
23	2	Shell hinge long	S75D.023
24	4	Shell hinge support	S75D.024
25	1 set	Fixed blade	S75D.025

Parts list cylinder S75-ZD

Part No.	Qty	Description	Order part No.
105	2	Bearing	S75D.105
107	1 set	Cylinder seal kit	S75D.107
110	1 set	Cylinder nipple set (2 pcs)	S75D.110
111	1	Bearing	S75D.111

Exploded view cylinder S75-ZD



Torques specification



Maximum torque specified to bolts on the cutting blades and rotator of the demolition and sorting grab.

Please consult this listing on diameter, pitch and metric size and maximum torque specified prior to fastening.

Bolt size	Torque (Nm)	Torque (Kg/m)
	Bout 10,9	Bout 10,9
M8	40 Nm	4 Kgm
M10	80 Nm	8 Kgm
M12	130 Nm	13 Kgm
M12x1,25	110 Nm	11 Kgm
M14	200 Nm	20 Kgm
M16	300 Nm	30 Kgm
M20	600 Nm	60 Kgm
M24	1000 Nm	100 Kgm
M27	1500 Nm	150 Kgm
M30	2000 Nm	200 Kgm
M36	3600 Nm	360 Kgm
M39	4600 Nm	460 Kgm

Note ,fine pitch.

Technical specifications: S75-ZD



		S75-ZD
Weight class excavator	ton	0,7-1,2
Weight	kg	50
Operating pressure max.	bar	300
Oil flow max.	l/min.	15
Shell width	mm	300
Width opened	mm	600
Height opened	mm	385
Capacity	ltr	30
Closing force	Kn	6