

Original Operating Instructions

Black Splitter



Models: SBX/SBXX

Keep with the Black Splitter machine for future use!



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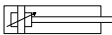
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1.0 Safety

1.1 General

This operating instruction manual contains basic instructions which must be observed during installation, operation and maintenance. They must therefore be read by operatives, specialist workshop and set up technicians before commissioning.

The Black Splitter has undergone a safety and acceptance inspection. Nevertheless when using it dangers can arise for the user or third parties, respectively the Black Splitter and other material property can be damaged in the following cases:

- use by untrained or uninstructed personnel
- incorrect use of equipment
- incorrect maintenance or repair

Improper operation or misuse poses a risk for

- the operator (risk of injury)
- the Black Splitter machine and other operator property
- reduced efficiency of the Black Splitter machine

Along with the general information listed in the **Safety** section, the specific safety instructions included in other sections of this manual should also be observed.

The operating instruction manual should be readily accessible at all times within the machine's work area.

All personnel involved with the installation, commissioning, operating, maintenance and repair of the machine should

- comply with the operating instructions provided in this manual.

The operating instructions are intended for your safety!



1.0 Safety

1.2 Symbol meaning



The safety instructions included in the operating instructions manual, which can result in a risk to personnel if ignored, are marked with this general hazard symbol.



Caution: hot surface



Keep a sufficiently safe distance from the swivel zone of the machine



Safety shoes required



Protective gloves required



Operating instructions manual



1.0 Safety

1.2 Symbol meaning



This symbol indicates safety instructions which, if ignored, could result in damage to the machine and its functions.



This symbol represents advice or instructions, which will make work easier and ensure safe operation.



Black Splitter SBX



1.0 Safety

1.3 Hazards of non-compliance with safety information

Non-compliance with safety information can invalidate any damage compensation claims.

In individual cases, non-compliance can cause the possible following hazards:

- **failure of important machine functions**
- **mechanical and electrical hazards to personnel**

1.4 Personal safety equipment

Operating with or performing maintenance on the Black Splitter machine is only permitted while wearing the stipulated protective gear:



When working with the Black Splitter machine, safety shoes must be worn at all times.



Protective gloves must be worn at all times when working on or changing the threaded cone and/or cone tip.



1.0 Safety

1.5 Safety information

Safety regulations

1. Avoid damage to hydraulic hoses.
2. Protect the hydraulic hoses against sharp edges.
3. If the Black Splitter machine is not being used, disconnect the hydraulic supply.
4. Always disconnect hydraulic supply to the machine when performing testing and/or maintenance tasks.
5. Do not remove the protective covers and screws on the Black Splitter machine.

Precautions

1. The Black Splitter machine should always be operated with the stipulated oil pressure.
2. All repair and maintenance to the Black Splitter machine must be carried out by a qualified technician or specialist workshop.
3. Set up work may only be carried out by a qualified technician.
4. All operating and fitting personnel must wear safety shoes while setting up and operating the Black Splitter machine.



1.0 Safety

1.5 Safety information

General information and precautions

1. Use the Black Splitter machine exclusively for the purpose described in section **1.6 Correct use of equipment**.
2. Never work with a damaged Black Splitter machine.
Have the Black Splitter inspected for defects immediately. All maintenance and repairs must be carried out by a qualified technician or a specialist workshop.
3. Always store the Black Splitter machine in a clean and dry place.

Machinery-specific regulations

1. The Black Splitter machine is only intended for splitting and transporting timber.
2. The Black Splitter machine may only be operated with hydraulic oil.
3. Always observe safety instructions.
4. It is mandatory to read the operating instructions manual before assembling or dismantling the Black Splitter machine.
5. The correct set-up of the Black Splitter machine is described in detail in the operating instruction manual in section **3.0 Operation**.
6. The maintenance and repair of the Black Splitter machine is described in detail in the operating instructions manual in section
5.0 Maintenance activity (operative)
6.0 Maintenance/repair (operative)



1.0 Safety

1.6 Correct use of equipment

The Black Splitter machine is only intended for splitting and transporting timber.



Splitting timber



Transporting timber

Type	Max. pressure	Length	Width	Height	Weight
SBX	320 bar	168 cm	50 cm	60 cm	~ 635 kg
SBXX	340 bar	182 cm	60 cm	70 cm	~ 890 kg

The Black Splitter machine is connected with the carrier (e.g. excavator, skid steer, wheel loader, yard loader or tractor) by means of a mounting bracket or hitch.

CAUTION: When splitting timber, the high operating forces of the carrier (i.e. excavator, skid steer, etc.) must not be exerted on or against the Black Splitter machine!

Any other use or alternative application is considered improper use of the Black Splitter machine. The operator/proprietor is liable for any resulting damage to the Black Splitter machine. The same applies for unauthorized changes or alterations to the Black Splitter machine.



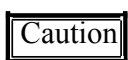
1.0 Safety

1.6 Correct use of equipment

Correct use of equipment also includes compliance with instructions for

- safety
- operation
- maintenance, repair and troubleshooting,

as described in this operating instructions manual.



The Black Splitter machine may only be repaired by a qualified technician or specialist workshop.

The Black Splitter machine has undergone **a safety inspection and a final inspection.**

Unauthorized retrofits or alterations to the Black Splitter machine is **prohibited** for safety reasons!

The conditions for safe and proper use, maintenance and repairs as described in this operating instructions manual must be **strictly** observed.

1.7 Hazards caused by accessories

The attachment of Black Splitter accessories must not disable, circumvent, remove or compromise any protective features of the Black Splitter machine.

Protective features must not be compromised.



1.0 Safety

1.8 Residual risks

Despite compliance with all safety conditions, use of the Black Splitter machine may still involve residual risks.

Personnel working on and with the machine must be aware of these dangers, and must follow the instructions, which prevent these residual risks from leading to accidents or damage.



Never remove protective covers or disable them by modifying the Black Splitter.



Caution: hot surface on the cone and/or cone tip



Keep a sufficiently safe distance from the swivel zone of the machine.



Protective gloves must be worn at all times when working on or changing the threaded cone and/or tip.

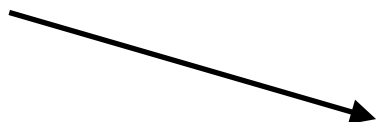


1.0 Safety

1.9 Black Splitter work area

Zone 1: The operator is responsible that there are no personnel within a sufficiently safe distance of the Black Splitter machine's work area.

Zone 1



Black Splitter work area



Keep a sufficiently safe distance from the swivel zone of the machine!



1.0 Safety

1.10 Authorized operators



The minimum age for operators of the Black Splitter machine is **18 years**. The responsibility for the various functions and tasks performed on or with the Black Splitter machine shall be clearly defined and adhered to. A poorly defined delegation of responsibilities is a **safety risk**.

Operators may not use the Black Splitter machine unless they have read, understood and signed the operating instructions manual.

Operators → Persons, who have read and understood the operating instructions manual.

Maintenance personnel → Operator

Repair personnel → Qualified technician or specialist workshop

While working on or with the Black Splitter machine, any personnel under instruction of any kind must be under the constant supervision of an experienced and qualified staff member!

1.11 Operator confirmation

The operator's signature below is confirmation of his/her familiarity with the basic occupational safety and accident prevention regulations. It is also confirmation that instruction in the proper handling and operation of the Black Splitter machine has been received and that he/she has read the operating instructions manual.

Date: _____

Signature: _____

Date: _____

Signature: _____

Date: _____

Signature: _____

Date: _____

Signature: _____

Date: _____

Signature: _____



1.0 Safety

1.12 Proprietor



The machine proprietor is obligated to ensure that persons working on the Black Splitter machine are familiar with the basic occupational safety and accident prevention regulations and have received **instruction** in the safe and proper handling of the Black Splitter machine.

The machine proprietor shall also ensure that all maintenance and/or machine assembly is performed by maintenance personnel who have carefully studied the operating instructions manual and are sufficiently well-informed.

The proprietor must



- ensure that the operating instructions manual is accessible to all operators at all times.
- ensure and have this confirmed with their signatures that the Black Splitter machine operators have read the operating instructions manual and understood it.
- instruct the operators, the mechanical and/or electrical technicians and maintenance personnel about the Black Splitter machine and have this instruction documented.
- complete the fault list in section 4.4 and make this available to Black Splitter GmbH.
- provide personal safety equipment for the safe and proper use and maintenance of the Black Splitter machine.
- provide additional instruction about the residual risks that may occur when operating the Black Splitter machine.
- observe at regular intervals that operators are working safely and using the Black Splitter machine in accordance with the operating instructions manual.
- ensure at least every two years that the Black Splitter machine safety markings comply with regulations.

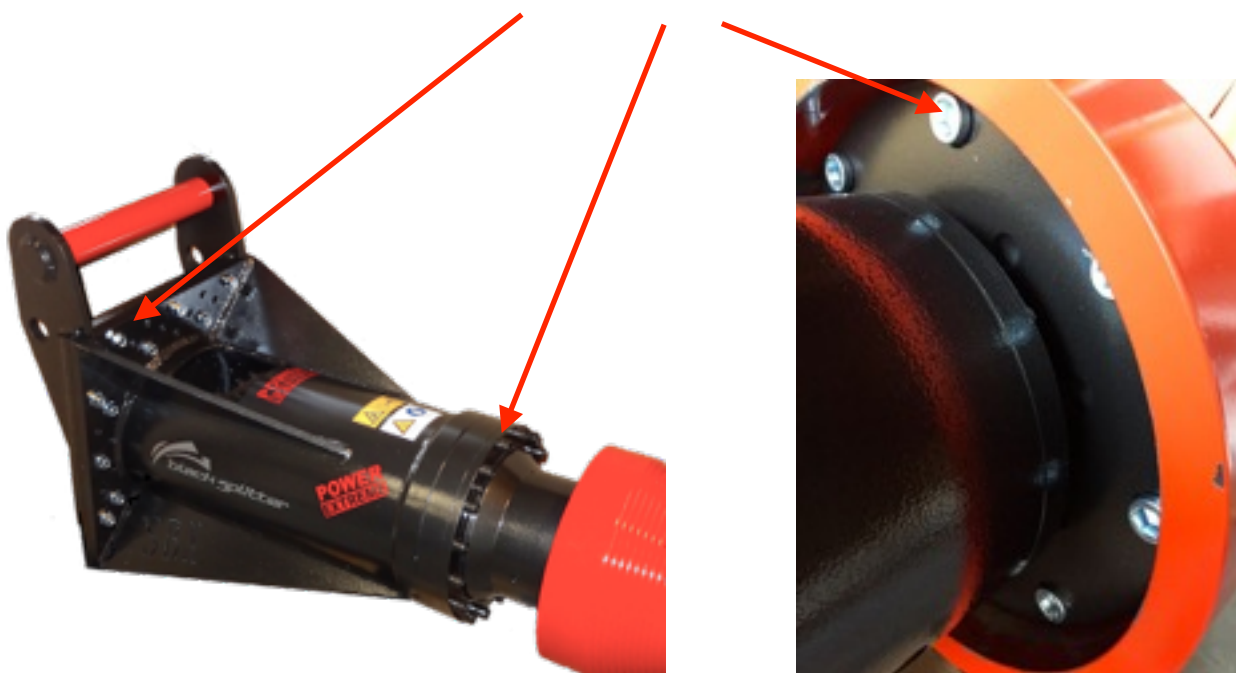


1.0 Safety

1.13 Black Splitter machine safety procedures

After initial timber splitting operation (approx. 2 –3 hours of splitting), the bolts on the screw cone, on the gearbox connection and on the mounting plate must be checked for tightness and retightened as necessary.

Mounting bolts



1.14 Protective features

Protective features



- must not under any circumstances be disabled, circumvented, removed or compromised by modifications to the Black Splitter machine.



1.0 Safety

1.15 Sound level

The sound measurement of the Black Splitter machine was measured for the work area at a distance of 1 meter from the machine surface and 1,60 m above the ground.

The sound pressure level of the Black Splitter is below **80 dB(A)**.
During operational processes a higher sound pressure level is generated.

At a sound pressure level between **80 dB(A)** and **85 dB(A)**

the proprietor must



- provide the operator with hearing protection information and instruction.
- provide the operator with hearing protection.
- at regular intervals carry out precautionary medical check-ups to monitor the operator's hearing.



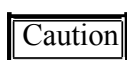
1.0 Safety

1.16 Inspecting protective features

Use the checklist for regular inspections of the protective features:

1.17 Black Splitter protective features checklist

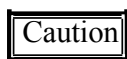
Before starting up the machine, check that all protective features are correctly fitted and fully operable.



The general inspection instructions and function tests shall be carried out without production material.

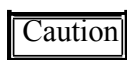
Rectify any defects to protective features immediately!

Inspection intervals



- at the beginning of each shift
- after any maintenance and/or repairs

Inspect for the following



- prescribed condition
- secure connection
- prescribed function



1.0 Safety

1.17 Black Splitter protective features checklist

General inspection

Screw / bolt connection	Mounted and bolted tightly
Hydraulic lines / fittings	Undamaged and fastened tightly

Inspection date: _____ Inspected by (Signature): _____

1.18 Unauthorized machine modification and spare parts

Alterations or retrofits to the Black Splitter machine are only permitted after prior agreement from the manufacturer. The manufacturer is Black Splitter GmbH. Original spare parts and manufacturer-authorized accessories ensure safety. The use of unapproved and/or unauthorized replacement parts abrogates the liability of Black Splitter GmbH for any resulting damage to the machine or negative consequences in general.

1.19 Safekeeping of operating instructions



The operating instructions manual must be readily available to the operator at all times when operating the Black Splitter machine.



2.0 Installation/transport/removal

2.1 Installation



Black Splitter



Black Splitter with excavator bracket

2.2 Technical data

	SBX	SBXX
Carrier vehicle	12 -28 t	25 -40 t
Dimensions / weight	L 168 cm x W 50 cm x H 60 cm approx. 635 kg	L 182 cm x W 60 cm x H 70 cm approx. 890 kg
Ø Screw cone	400 mm	400 mm
Hydraulic motor	Fixed-speed axial piston motor	
flow rate	max. 268 l/min	max. 424 l/min
Oil pressure	max. 320 bar	max. 340 bar
Torque	max. 30000 Nm	max. 60000 Nm

2.3 Inspection of incoming goods

Inspect packaging for visible damage. If the packaged Black Splitter machine appears undamaged, but is in fact delivered with concealed damage, contact Black Splitter GmbH immediately and document the damage. (photos)



2.0 Installation/transport/removal

2.4 Safety information for transport

Always wear a hard hat, safety gloves and safety shoes when working with the machine!



Always use appropriate and certified hoisting gear!

Use appropriate lifting equipment only such as e.g. sling ropes or hoisting straps!

When choosing the hoisting gear and slinging equipment always take into account the maximum lifting capacities!



Never walk or stand under suspended loads!

Always ensure that the machine is transported without sudden movements or impacts.

Always use appropriate, certified standard hoisting equipment (forklift, truck, mobile crane, gantry crane) and hoists (slings, hoisting straps, chains).



Black Splitter machine lifted with hoisting straps

Dimensions and weights can be found in the technical data (see section 2.2)



2.0 Installation/transport/removal

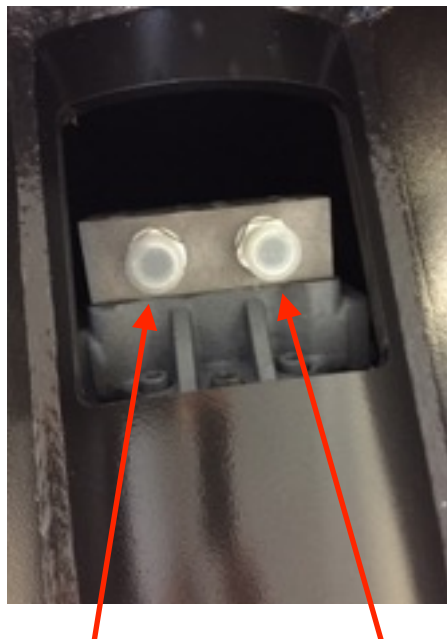
2.5 Transport/storage

The Black Splitter machine may only be transported with a forklift or lifting truck.
The Black Splitter machine should only be stored in a weather-protected location.

2.6 Set up and connection

The connection of hydraulic hoses to the hydraulic motor may only be carried out with the machine shut down and turned off.

Agreement of the technical data must be verified prior to connecting the hydraulic hoses (identification plate and operating instructions). The hydraulic hoses must be properly attached to the hydraulic motor.



Hydraulic connections to motor

General instructions:

For safety reasons, hydraulic lines, connections and machinery parts may not be loosened or disengaged so long as the Black Splitter machine is under pressure.

Cleanliness:

Extreme cleanliness shall be observed throughout all working operations.



2.0 Installation/transport/removal

2.7 Welding mounting plate to excavator bracket

The quick coupler excavator bracket must be attached to the mounting plate by a specialist welding company only. The mounting plate must then be bolted to the Black Splitter machine using eight M16x50 mounting bolts.



**Mounting plate with
excavator bracket**



Black Splitter SBX

2.8 Operating the Black Splitter for the first time

Ensure that the machine can be started safely and that there are no personnel in the work area or swivel zone of the Black Splitter machine.

Take all necessary precaution to avoid potential collisions.

Once all tests have been concluded satisfactorily, the machine may be operated.

CAUTION: When splitting timber, the high operating forces of the carrier (i.e. excavator, skid steer, etc.) must not be exerted on or against the Black Splitter machine!



2.0 Installation/transport/removal

2.9 Dismantling the Black Splitter

The following points shall be observed, when dismantling the Black Splitter machine:

- Cordon off a sufficiently large area before dismantling.
- Depressurize all pressurized hydraulic lines and components.
- Disconnect all hydraulic hoses from the Black Splitter machine.
- Only use load handling equipment with sufficient load-bearing capacity.

All personnel involved with the dismantling of the Black Splitter machine must be familiar with the basic occupational safety and accident prevention regulations.

During removal, caution must be taken to ensure that substances harmful to groundwater, such as greases, oils, detergents and solvents, etc., do not contaminate the ground or enter water and/or sewage drainage systems.

These substances must be collected in appropriate containers, stored, transported and disposed of properly.



National regulations on environmental and occupational safety and information from the lubricant manufacturer govern the handling and use of lubricants. These regulations must be complied with.



3.0 Operation

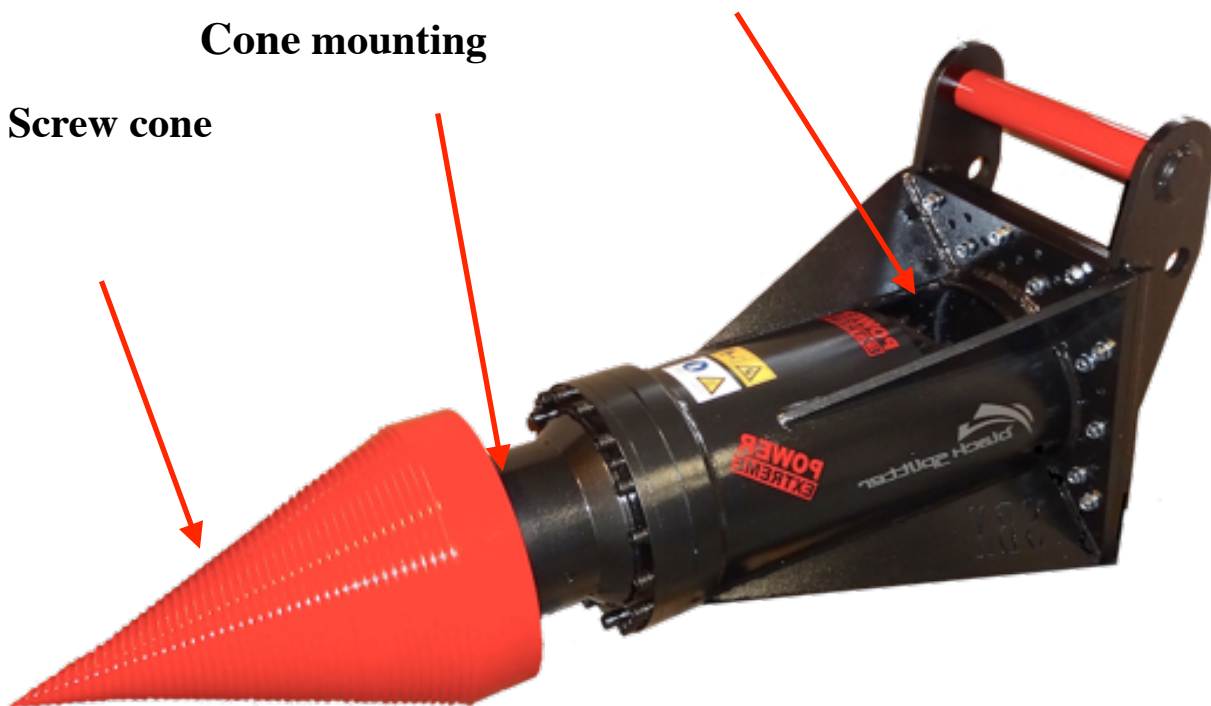
3.1 Overview diagram

Black Splitter

Opening for hydraulic hoses

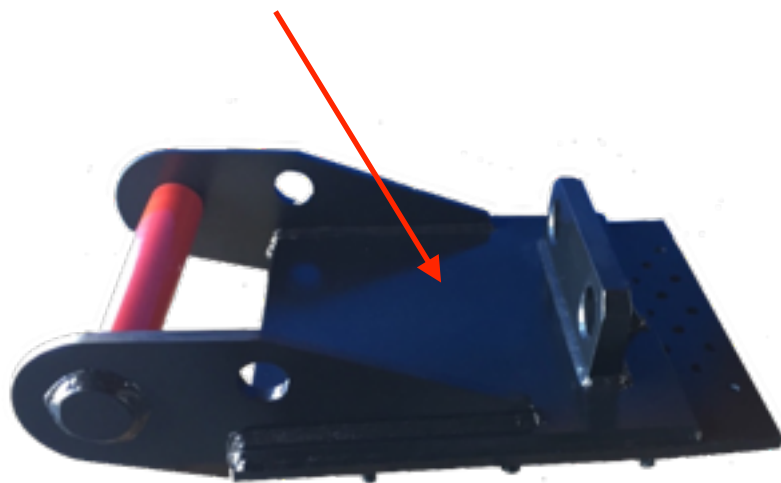
Cone mounting

Screw cone



Gear box mounting

Mounting plate with excavator bracket





3.0 Operation

3.2 Safety information for operation

The Black Splitter machine must be operated in accordance with the operating instructions manual. It may only be used for its intended purpose and only if it is in perfect technical condition. The operator must be aware of the possible hazards and operate the machine in a safe manner in accordance with the operating instructions manual.

The Black Splitter machine may be started only if it is fully assembled and ready for operation.

The Black Splitter may only be operated when all safety features (see section 1.15) are intact and fully operable.

During operation, the required personal safety equipment must be worn at all times.

The machine shall be inspected once after every operation for externally visible damage or faults!

Any changes (including changes in the operational characteristics) must be checked immediately. If necessary, shut down the Black Splitter machine and secure it immediately.

In the event of a malfunction, shut down and secure the Black Splitter machine immediately. Defects must be corrected immediately by a qualified technician or specialist personnel.

After completion of operation, only the operator may shut down the Black Splitter machine and must secure it against reactivation by unauthorized personnel.



The Black Splitter machine may not be operated unless the operator has read and understood the operating instructions manual, particularly section 1, *Safety*.



3.0 Operation

3.3 Prior to operation

The Black Splitter must be properly mounted to the excavator and the hydraulic oil supply lines connected.

- Place the Black Splitter machine into operation and set additional logs in front of the excavator guard to protect against impact.



Logs in front of the excavator guard to protect against impact

- Transport timber in front of the protected excavator guard and commence to split.

CAUTION: When splitting timber, the high operating forces of the carrier (i.e. excavator, skid steer, etc.) must not be exerted on or against the Black Splitter machine!



3.0 Operation

3.4 Set up



Set up of the Black Splitter machine may be performed by the operator.



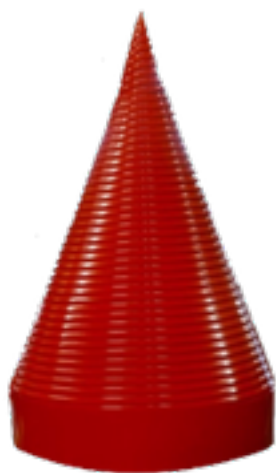
Before changing the screw cone, the hydraulic oil supply must always be turned off and secured.



When changing the screw cone, protective gloves must always be worn.

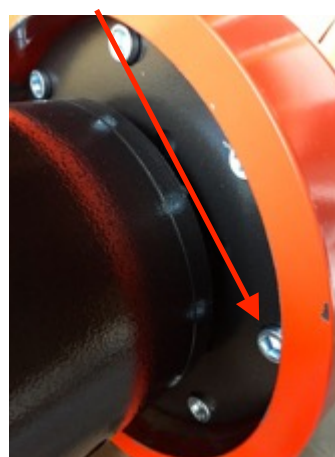
3.4.1 Replacing the screw cone

Before the screw cone can be replaced, the eight M16x65 (10.9) mounting bolts on the screw cone must be loosened. The screw cone can then be replaced. The eight mounting bolts must then be tightened again. In addition, after the first splitting operation (after approx. 2 –3 hours of splitting operation) the mounting bolts on the screw cone must be checked and retightened.



Screw cone 400 mm

Screw cone mounting



Screw cone mounted on the Black Splitter



3.0 Operation

3.5 Functional description

Function

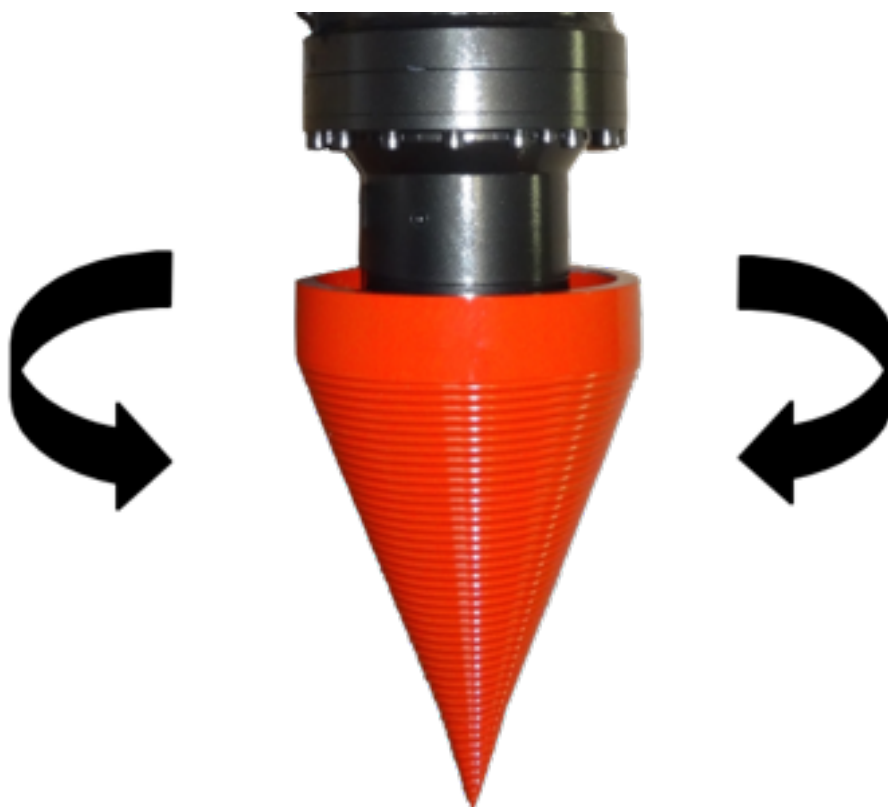
Function 1. Turning screw cone counterclockwise

By operating the switching mechanism of the excavator unit, the screw cone of the Black Splitter machine can be turned counterclockwise.

Function 2. Turning screw cone clockwise

By operating the switching mechanism of the excavator unit, the screw cone of the Black Splitter machine can be turned clockwise.

Function 3. = Screw cone stopped



STOP

Caution

**The power output of the hydraulic motor is predefined.
Contact Black Splitter GmbH, if a different power output is
needed.**



4.0 Malfunction

4.1 Safety instructions for troubleshooting



For troubleshooting purposes, it may be necessary for the hydraulic oil supply to be activated. Reaching into the machine while it is in operation is strictly forbidden.

The work area must be adequately cordoned off!

If the machine has been completely shut down for troubleshooting, it must be secured against inadvertent reactivation.

Appropriate tools and equipment for the work being performed is absolutely essential when undertaking troubleshooting operations.

Any bolt or screw connections loosened during the troubleshooting process must always be retightened!

If protective features are dismantled during maintenance and repair work, they must be refitted and re-checked immediately after completion of the maintenance and repair work.

4.2 Troubleshooting

- Disconnect the hydraulic oil supply.

• **Correct problem**

- Place the machine back into operation.

If there are no other problems, the Black Splitter machine may be restarted.

Should the problem recur, do not restart the Black Splitter machine. Instead, have it checked immediately by a qualified technician or specialist workshop.

Note

If a problem is corrected by a specialist workshop, the respective fault must be entered in the „Fault list“ (Section 4.4) and this information made available to Black Splitter GmbH.



4.0 Malfunction

4.3 Malfunction checklist

4.3.1 Screw cone

Problem	Possible causes	Solution
No splitting function	Threads damaged or worn	Check threads and replace screw cone / tip as necessary

4.3.2 Operation

Problem	Possible causes	Solution
No function	Disruption of the hydraulic oil supply	Check hydraulic oil supply and lines

4.4 Fault list

Model: _____ Serial No.: _____

Date	Fault description	Hours of operation	Signature



5.0 Maintenance activity (operator)

5.1 Maintenance schedule

WHAT?	WHEN?	WHO?
Lubricate screw cone	After each splitting operation	Operator
Protective features	Daily	Operator
Clean the machine	Weekly	Operator

Report any damage immediately!



Prior to any maintenance work, the hydraulic oil supply to the Black Splitter machine must be disconnected and prevented from being reactivated.

- **Lubricate the screw cone**

The screw cone has to be sprayed with oil to protect against rust after every splitting operation.

- **Check protective features**

The protective covers must be checked for damage. Correct any damages to the protective features immediately.

- **Clean the machine**

Disconnect and secure the hydraulic oil feed. This makes inadvertent start-up impossible. Life threatening injuries are otherwise possible.

- **Environmental protection**

Oily rags must be collected and disposed of in a manner compatible with environment protection and safety.



National regulations on environmental and occupational safety and information from the lubricant manufacturer govern the handling and use of lubricants. These regulations must be complied with.



6.0 Maintenance/repair (operator)

6.1 Safety information for maintenance and repair



Maintenance and repair of the Black Splitter machine may only be performed by qualified technicians or maintenance personnel, who have read the operating instructions manual and are aware of the possible hazards.

The intervals for recurring inspections, which are prescribed or specified in the operating instructions manual, must be observed.

The maintenance and repair area has to be adequately cordoned off where necessary!

Any bolt or screw connections loosened during maintenance and repair work must always be retightened!

If protective features are dismantled during maintenance and repair work, they must be refitted and re-checked immediately after completion of the maintenance and repair work!



6.0 Maintenance/repair (operator)

6.2 Maintenance schedule

WHAT?	WHEN?	WHO?
Hydraulic line	Each splitting operation	Operator
Screw cone mounting	Monthly	Operator
Mounting plate	Monthly	Operator
Hydraulic motor	Monthly	Operator

Report any damage immediately!



Prior to any maintenance work, the hydraulic oil supply to the Black Splitter machine must be disconnected and prevented from being reactivated.

- **Check the hydraulic hoses**

The hydraulic hoses must be checked for damage and leakage.

- **Check the screw cone mounting**

Check that the bolts on the screw cone are tight and retighten.

- **Check mounting plate**

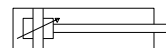
The mounting plate must be checked for damage and a tightly secured fit to the Black Splitter machine.

- **Check hydraulic motor**

Check the hydraulic motor for leakage.



National regulations on environmental and occupational safety and information from the lubricant manufacturer govern the handling and use of lubricants. These regulations must be complied with.



8.0 Hydraulics

8.1 Safety instructions for the hydraulics

Hydraulic equipment work may only be performed by qualified technicians or specialist workshop personnel with knowledge and professional experience with hydraulic equipment operation.

All hydraulic lines, hoses and bolt connections must be checked regularly for tightness and/or for leakage and/or for external signs of damage!

Damaged parts must be replaced immediately!

Hydraulic hoses must be replaced every 6 years even if there is no apparent damage.

Prior to commencing repair work, all system sections and pressure lines must be depressurized!

Caution!

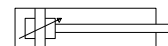
**Prior to maintenance and repair work, the
Black Splitter machine must be depressurised!**

During maintenance and repair of hydraulic equipment, the inadvertent pressurization of hydraulic lines and fittings must be prevented via additional precautionary safety measures.

Caution

Hydraulic motor replacement may only be performed at a **specialist workshop**.

8.0 Hydraulics

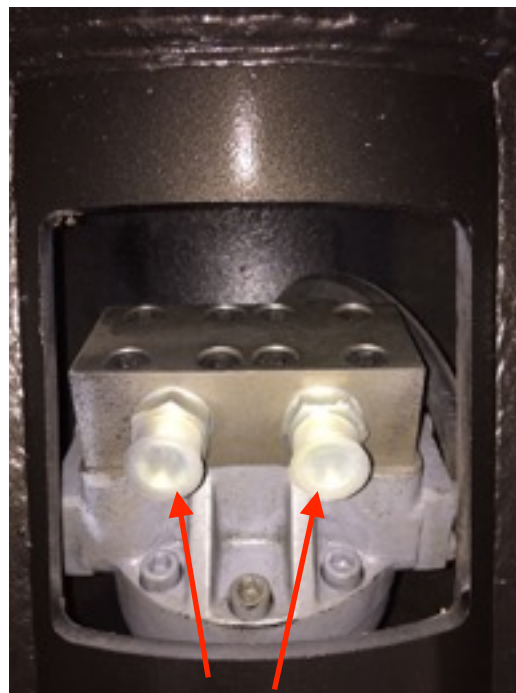


8.2 Hydraulics plan with parts list

Hydraulic motor



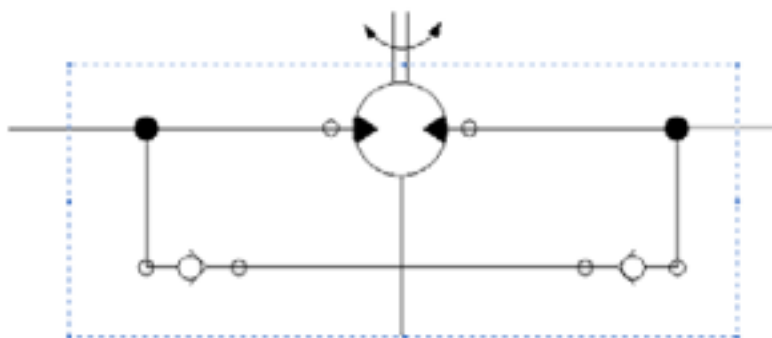
Port of motor case drain line: G $\frac{1}{2}$ "



Connections for hydraulic motor

(see below)

Port A:
SBX: G $\frac{3}{4}$ "
SBXX: G1"



Port B:
SBX: G $\frac{3}{4}$ "
SBXX: G1"

Fixed-speed axial piston motor SBX

5000-002-03 A

Fixed-speed axial piston motor SBXX

5000-002-03 B



9.0 Replacement parts list

9.1 Spare parts order and customer service

Please be advised that replacement parts and accessories not supplied by Black Splitter GmbH have neither been tested, approved nor authorized by Black Splitter GmbH. Under certain circumstances, the installation and/or use of such products can negatively alter and/or affect specified design characteristics of the Black Splitter machine. The use of unapproved and/or unauthorized replacement parts abrogates the liability of Black Splitter GmbH for any resulting damage to the machine or negative consequences in general.

Important for all enquiries:



For all enquiries or replacement parts orders, please note and provide the information listed on the Black Splitter machine's identification plate.



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9.0 Replacement parts list

9.2 Replacement parts list



Mounting plate for excavator attachment SBX (500 mm x 600 mm)		5000-002-01 A
Mounting plate for excavator attachment SBXX (600 mm x 700 mm)		5000-002-01 B
Mounting plate bolt set	20x M16x65 (10.9)	5000-002-02
Fixed-speed axial piston motor SBX	Displacement cm^3/rev	5000-002-03 A
Fixed-speed axial piston motor SBXX	Displacement cm^3/rev	5000-002-03 B



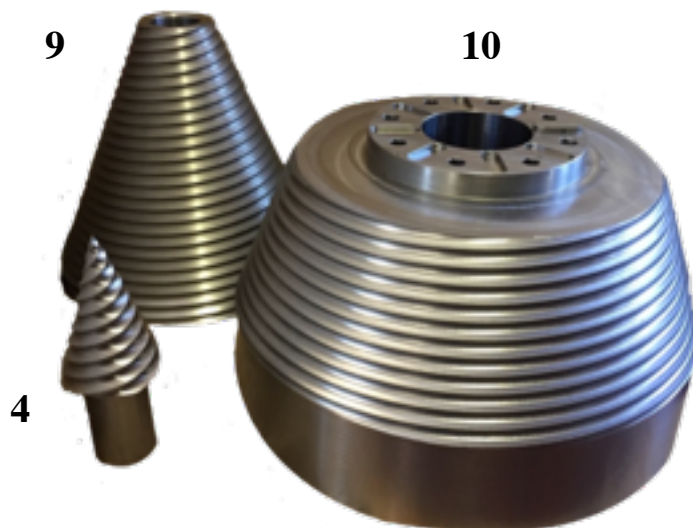
9.0 Replacement parts list

9.2 Replacement parts list

5, 6, 7, 8



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Screw cone tip	5000-002-04
Parallel key	5000-002-05
Lock washer	5000-002-06
Bolt M16	5000-002-07
Washer	5000-002-08
Screw cone Ø 300 mm	5000-002-09
Screw cone extension Ø 400 mm	5000-002-10
Cone extension bolt & parallel key set 8x M12x40	5000-002-11



9.0 Replacement parts list

9.2 Replacement parts list



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Cone mounting bolt & parallel key set	8x M16x65 (10.9)	5000-002-12
Motor bolt set SBX	4 x M12x45 (12.9)	5000-002-13 A
Motor bolt set SBXX	4 x M16x55 (12.9)	5000-002-13 B
Gearbox->housing bolt set SBX	16xM16x70 (12.9)	5000-002-14 A
Gearbox->housing bolt set SBXX	20xM16x240 (12.9)	5000-002-14 B
Gearbox cover plate bolt set SBX	8 x M10x35 (12.9)	5000-002-15 A
Gearbox cover plate bolt set SBXX	12xM10x40 (12.9)	5000-002-15 B



10.0 Declaration of conformity

10.1 Proof of conformity



Notes

[illegible]

Black Splitter GmbH

Konformitätserklärung Anhang II A

Declaration of Conformity



Wir, die Firma **Black Splitter GmbH**
*We, the company **Black Splitter GmbH***

(Name des Anbieters / *supplier's name*)

Zum Ritzhagen 9, D-34508 Willingen

(Anschrift / *address*)

erklären in alleiniger Verantwortung, dass das Produkt
declare our sole responsibility that the product



Black Splitter
Typ:

Baujahr:
Maschinen-Nr.:

(Bezeichnung, Typ / *name, type*)

auf das sich diese Erklärung bezieht, mit der/den folgenden
 Norm/en oder normativen Dokumenten übereinstimmt.

*to which this declaration relates is in conformity with the following standard(s)
 or other normative document(s).*

DIN EN ISO 12100, Sicherheit von Maschinen

(Titel und/oder Nr. sowie Ausgabedatum der Norm/en oder der anderen normativen Dokumente
(Title and/or number and date of issue of the standard/s or other normative document/s))

Gemäß den Bestimmungen der Richtlinien
according to the provisions of the directives

2006/42 EG (Maschinen-Richtlinie / *Engine directive*)

(Titel und /oder nr. sowie Ausgabedatum der Norm/en /
Title and/or number and date of issue of the standard/s)

The technical documentation and hazard assessment was created and
 documented by Stefan Padovan (CE representative),
 Im Lonscheid 36, 58135 Hagen (Germany).

Black Splitter GmbH

Willingen, den

(Ort und Datum der Ausstellung /
place and date of issue)

Management

(Name und Unterschrift des Befugten /
name and signature of authorized person)