

# DRILLING SYSTEM

**BAHCO**  
DORTMUND



**DRILLING SYSTEM BS23**

**BAHCO**

***The drilling system facilitates to drill holes up to 23 mm ø into steel, even at narrow spaces when the System:***

This drilling system makes use of the lever law. An universally adjustable chain connects the drilling system with the drilling tool. The required feed pressure is exerted by a lever that is firmly connected to the drilling tool.

- The drilling system of the standard version BS23-4 consists of the drilling tool with Morse taper 2, manual lever, fixture for the manual lever and the chain. The system can be enlarged by various parts (page 4).
- The heart of the system is the extremely powerful drill. The smooth-running starter valve enables the slow start of the drill.
- The manual lever increases the feed force and reduces the risk of accidents caused by tilting of the drill.
- With the appropriate combination of various components every drilling task is done safe, powerful and economical.
- The total weight of the drilling system is about 4 kgs to 16 kgs. (depending on the choosen components)
- Larger distances can also be safely bridged using the drill extension of 370 mm and 750 mm.

## **THE SPECIAL USE IN VEHICLE CONSTRUCTION**

The drilling system is ideal for use in vehicle and truck construction. The drilling system works efficiently and economically by drilling into the vehicle frame, wheelbases, attachment of semitrailer couplings etc.

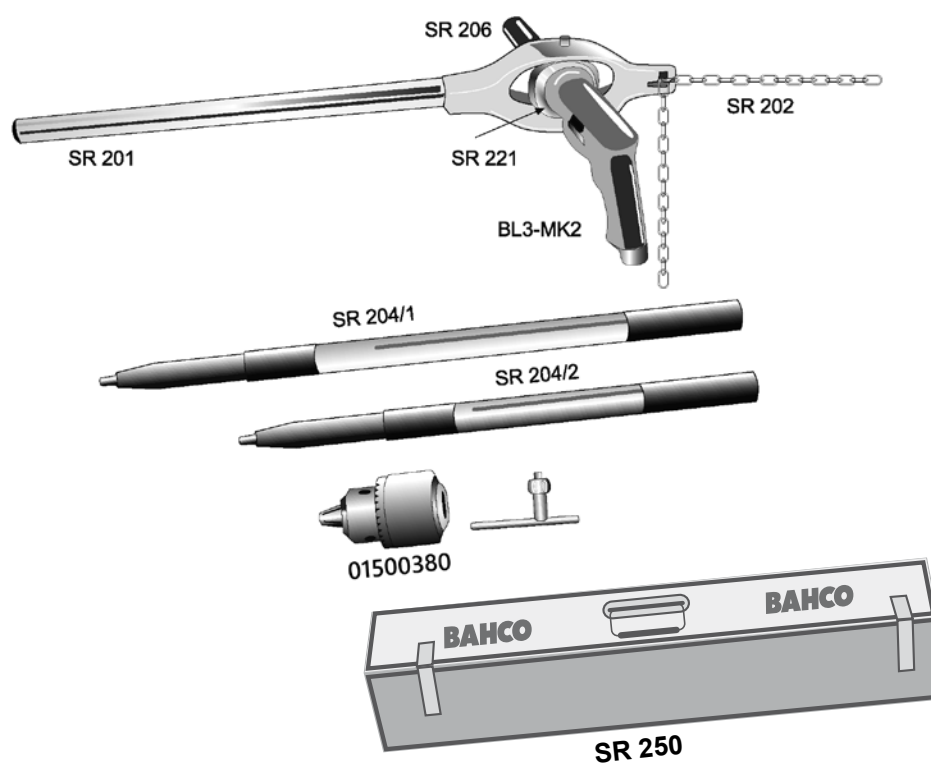
## **THE ADVANTAGES**

- High level on safety
- No turning of the tool when drill is seizing.
- Easily exchange of components means easy maintenance.
- No necessity of predrilling of up to 20 mm Ø into steel .

# DRILLING SYSTEM BS23

## Scope of delivery

| Drilling system                     | BS23-1 | BS23-4 | BS23-LX |
|-------------------------------------|--------|--------|---------|
| Drill BL3-MK2 without handle        | 1      | 1      | 1       |
| Hand lever SR201                    | 1      | 1      | 1       |
| Chain, 2.5 m with Hook SR202        | 1      | 1      | 1       |
| Drill extension, 750 mm SR204-1     | 1      |        | 1       |
| Drill extension, 370 mm SR204-2     | 1      |        | 1       |
| Holder for hand lever SR221         | 1      | 1      | 1       |
| Tool box SR250                      |        |        | 1       |
| Drill chuck 16 mm / 1/2" - 01500380 |        |        | 1       |
| Handle 62102880                     |        |        | 1       |
| Morse taper SR206-1                 |        |        | 1       |



## Technical data drilling machine BL3-MK2

|                 |                      |
|-----------------|----------------------|
| Intake          | MK2                  |
| Torque          | 320 min <sup>1</sup> |
| Air consumption | 720 l/min            |
| Capacity        | 500 W                |
| Noise level     | 75 dB                |



### ***Safety instructions***

Safety is a fundamental factor in the use of air tools. Being informed about the correct application and handling of the air tool is the prerequisite for safe use. Before putting the tool into operation, the operating instructions should have been read and understood by every user in order to be familiar with the tool and the hazards it presents. The operating instructions should be stored together with the tool. For further information, please contact the sales partner responsible for you. Please do not remove any information or type plates from the tool.

### ***Intended use***

The drilling machine is designed for use with twist drills. Please use this machine only for drilling holes. Should you use the machine exclusively for re-drilling and reworking pipes, please contact the responsible national agency. Do not misuse machines for other purposes.

### ***Protective measures***

Always wear the necessary protective clothing such as eye protection, ear protection, face protection, safety apron, helmet, gloves and other necessary protective clothing. If necessary, please work with protective barriers.



### ***Connection of an air tool***

#### **1. Connection to the compressed air supply**

Hand-operated compressed air tools should be properly connected to the air line with a hose whose diameter can be taken from the description of the tool. Make sure that the compressed air hose is oil-resistant. Furthermore, the hose must be suitable for the required pressure.

Hose ends, quick couplings and size of the hose according to manufacturer's specifications.

#### **2. Compressed air supply**

Use compressed air. All other gases must be recommended in writing by the manufacturer.

### 3. Quality

Lines and hoses must be cleaned before connecting the tool. It is recommended that filters and lubrication units are installed as close as possible to the tool in the oil line.

### 4. Maximum pressure

The air pressure should not exceed the recommended value.

### 5. Start / stop function

Start the drill by pressing the trigger. The drill stops when the trigger is released. Check that the clamping key is removed before you start drilling. The drill should be disconnected from the The drill should be disconnected from the air supply when changing the drill. If the drill does not work properly If the drill does not work properly, remove it from the air supply immediately.

## Maintenance

### 1. Preparing

Before starting maintenance work, the drilling machine must always be disconnected from the compressed air supply. The working environment should be clean and manageable.

### 2. Lubrication instruction

Too much or too little oil will impair the performance and service life of the machine. For this reason, it is essential to integrate a functioning maintenance unit into the air line network.

Use only original lubricants and oils at the following intervals:

#### After 8 operating hours:

Check the oil level in the maintenance unit. If there is no maintenance unit, drip some oil into the machine through the air intake valve.

#### After 300 operating hours:

Disassemble the planetary gear and the vane motor. Check the vanes for wear. Clean and grease the ball bearings and planet gear.

### Lubricant

Seek medical advice immediately if any lubricant gets into your eyes or is accidentally drunk. If there is no maintenance unit upstream of the tool, please drip a few drops of ISO VG 32 oil into the machine through the air inlet every day before starting work. Start the machine slowly to ensure even and sufficient lubrication.

For the lubrication of ball bearings, housing, clutch and gearbox we recommend „Lithium - System“ lubricant. This lubrication should be carried out at every repair / periodic inspection.

If you work regularly with lubricant, wear suitable and insensitive clothing. Dirty clothing should be changed.

| Lubricants      | BP                   | STATOIL          | Q8               | MOBIL           | OK                    | SHELL                 | TEXACO          |
|-----------------|----------------------|------------------|------------------|-----------------|-----------------------|-----------------------|-----------------|
| Lubricating oil | Energoil<br>RD-E46   | Rockway<br>EP 46 | Chopin<br>46     | Almo Oil<br>525 | Pneutoil<br>Oil K68   | Torcula<br>68         | RD Lube<br>32   |
| Grease          | Energrease<br>LS-EP2 | Beacon<br>EP2    | Rembrandt<br>EP2 | Mobiplex<br>48  | Complex<br>Grease EP2 | Alvania<br>Grease EP2 | Multifak<br>EP2 |

### 3. Service

Carefully dismantle and assemble the machine. After assembly, everything must be firmly seated in the drill chuck. The drill chuck can only be special tools. Before mounting, the surface of the chuck must be thoroughly cleaned.

Clean small parts only in an immersion bath. Blades must be replaced if they no longer correspond to the dimension given in the spare parts list.

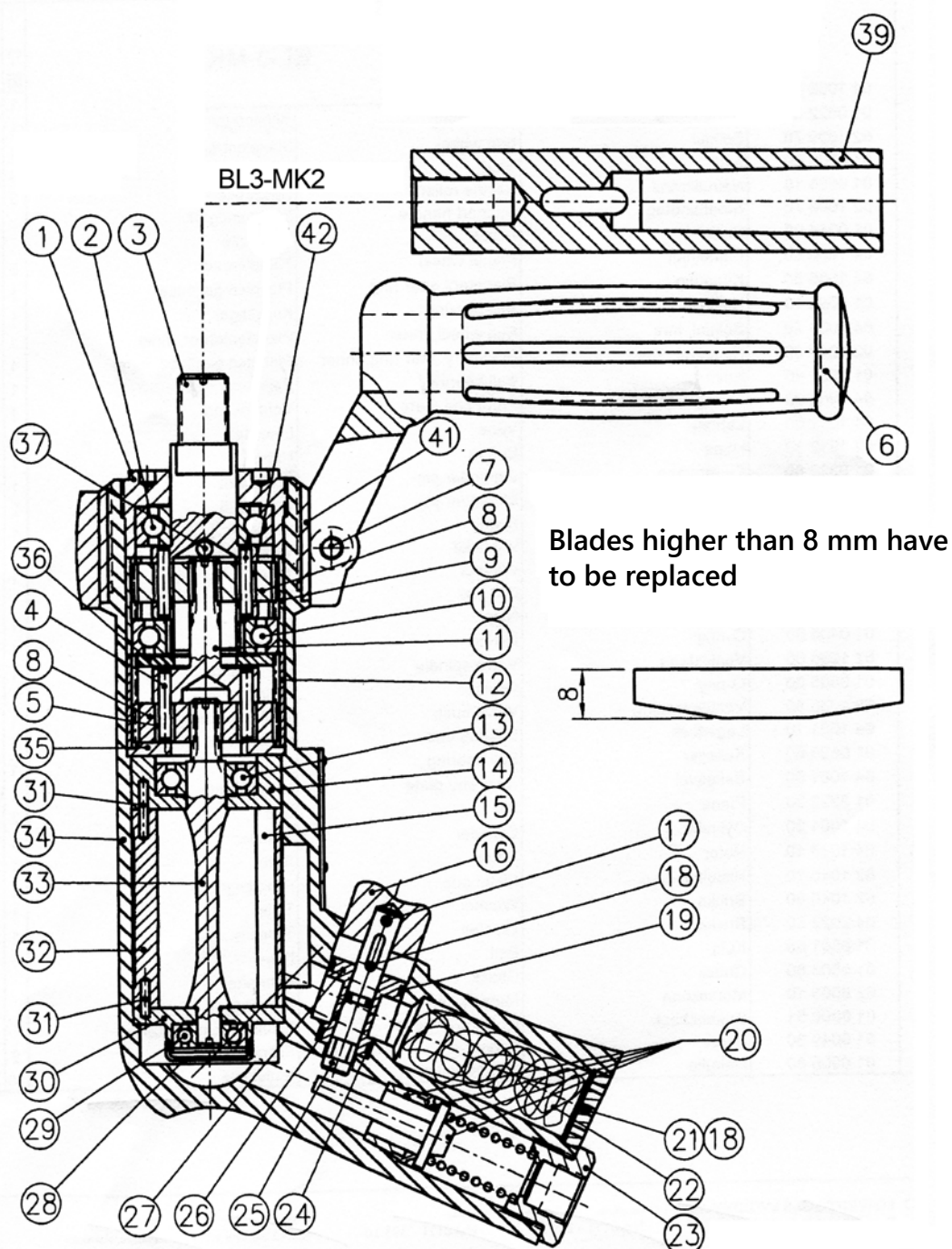
### 4. Service and repair

In view of the safety and longevity of the machine, repairs and service work should only be carried out by BAHCO.

### 5. Spare parts

Only use original spare parts. Only original spare parts ensure the performance and serviceability of the drill. The use of other spare parts voids the right to claim under guarantee.

## PNEUMATIC DRILLING MACHINE TYPE: BL-3-MK2



| Spare Part List |            |                        |                |
|-----------------|------------|------------------------|----------------|
| Pos. No.        | Part No.   | Description            | Qty<br>BL-3MK2 |
| 1               | 64 1066 30 | Bearing cover          | 1              |
| 2               | 01 0522 30 | Ball bearing           | 1              |
| 3               | 62 1039 70 | Planet carrier         | 1              |
| 4               | 01 0506 00 | Axis                   | 6              |
| 5               | 01 0533 10 | Needle roller          | 3              |
| 6               | 62 1006 70 | Supporting handle      | 1              |
| 7               | 01 0014 90 | Screw                  | 1              |
| 8               | 64 1066 80 | Planet gear            | 6              |
| 9               | 64 1065 50 | Planet housing         | 1              |
| 10              | 01 0529 10 | Ball bearing           | 1              |
| 11              | 64 1065 70 | Planet carrier, inside | 1              |
| 12              | 62 1040 90 | Planet housing, inside | 1              |
| 13              | 01 0531 40 | Ball bearing           | 1              |
| 14              | 64 1066 20 | Front plate            | 1              |
| 15              | 64 1001 60 | Blade                  | 5              |
| 16              | 62 1012 30 | Knob                   | 1              |
| 17              | 01 0222 80 | Clamping pin           | 1              |
| 18              | 01 022300  | Clamping pin           | 2              |
| 19              | 01 0406 20 | O-ring                 | 1              |
| 20              | 66 1007 20 | Valve kit              | 1              |
| 21              | 62 1039 40 | Washer                 | 1              |
| 22              | 62 1040 60 | Damper                 | 1              |
| 23              | 62 1037 00 | Nipple                 | 1              |
| 24              | 01 0406 00 | O-ring                 | 1              |
| 25              | 62 1036 60 | Valve rod              | 1              |
| 26              | 01 0405 30 | O-ring                 | 1              |
| 27              | 62 1036 50 | Valve bushing          | 1              |
| 28              | 64 1001 10 | Bearing cover          | 1              |
| 29              | 01 0520 50 | Ball bearing           | 1              |
| 30              | 64 1001 50 | Rear plate             | 1              |
| 31              | 01 0222 30 | Pin                    | 2              |
| 32              | 64 1001 30 | Cylinder               | 1              |
| 33              | 64 1078 10 | Rotor                  | 1              |
| 34              | 62 1040 70 | Pistol grip            | 1              |
| 35              | 62 1040 80 | Washer                 | 1              |
| 36              | 64 2022 50 | Washer                 | 1              |
| 37              | 01 0501 60 | Ball                   | 1              |
| 38              | 01 5003 80 | Chuck                  | ---            |
| 39              | 62 8003 10 | Morse cone SR206-1     | 1              |
| 41              | 01 0049 30 | Screw                  | 2              |
| 42              | 01 0505 60 | Needle roller          | 36             |

When ordering spare parts, please state the part numbers.



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All information subject to change without further notice.  
No responsibility is taken for the correctness of the named specifications.