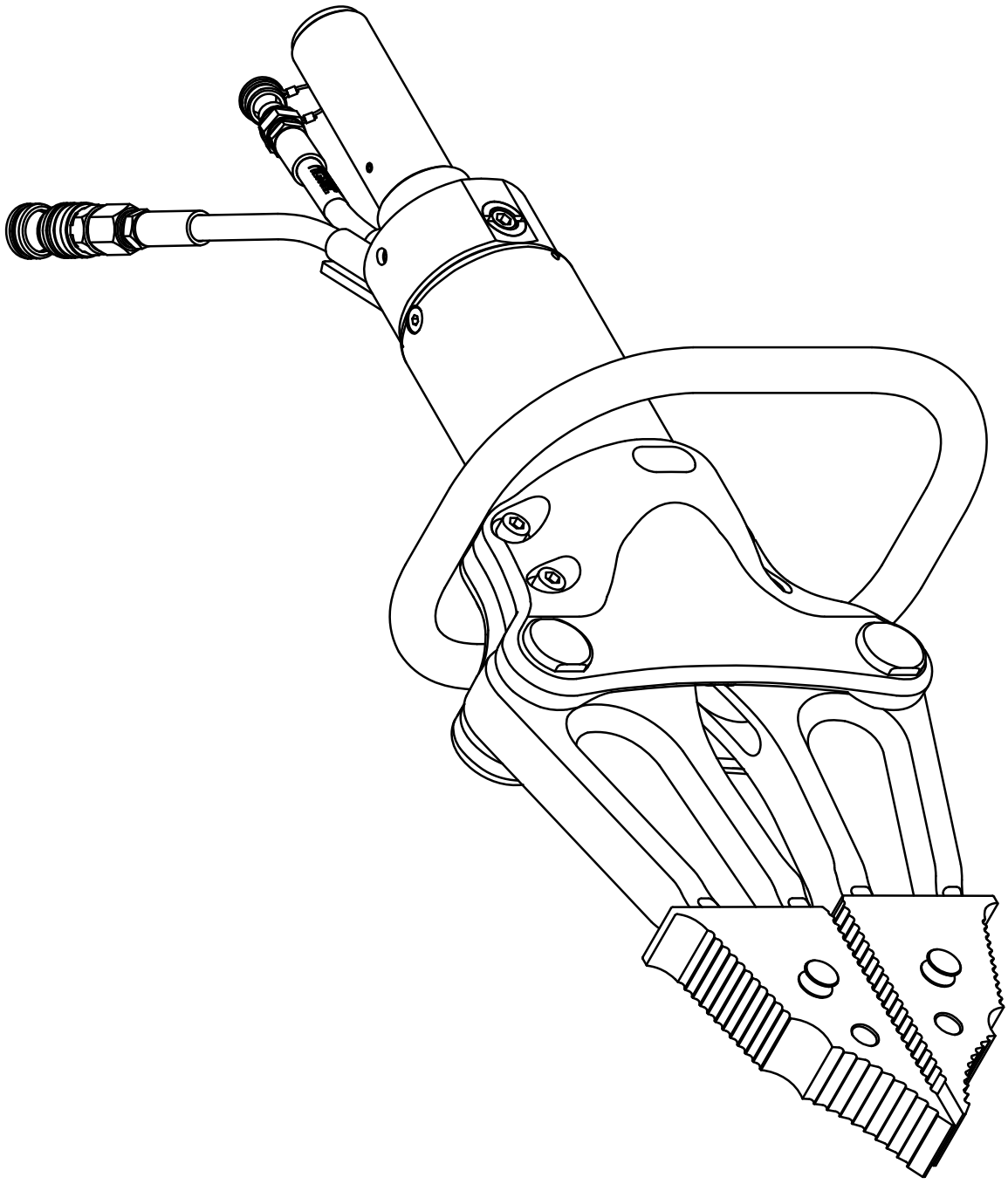
REHOBOT®

MADE IN SWEDEN

INSTRUCTIONS

Double Acting Hydraulic Spreader Tool



DHSM50-720 | DHS50-720

BRUKSANVISNING · OPERATING INSTRUCTIONS

GEBRAUCHANWEISUNG · MODE D'EMPLOI

Subject to change without prior notice!

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REHOBOT Hydraulics AB Skjulstagatan 11 A, 632 29 Eskilstuna, SWEDEN P.O. Box 1107 631 80 Eskilstuna
T. +46 (0)16 - 16 82 00 F. +46 (0)16 - 13 93 16 info@rehobot.se www.rehobot.se

Thank you for the confidence you have shown in us by choosing a REHOBOT product. REHOBOT stands for high quality products and we hope that this product will serve you well for many years.

To avoid problems in operation we recommend that you read these instructions before you use the product.

Technical description (Fig.1a,b)

DHSM50-720

Max. working pressure:	80 MPa (800 bar, 11600 psi)
Max. spreading force:	254 kN (25.9 ton, 28.5 sh tn)
Max. pulling force:	63 kN (6.4 ton, 7.1 sh tn)
Max. opening:	720 mm (28.3 in)
Weight:	21,2 kg (46.7 lbs)
EN13204:	AS50/720-21,2

DHS50-720

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The tool is operated by means of the rotary handle. Turn the handle anticlockwise to spread (Fig.2a), and turn it clockwise to compress or pull (Fig.2b).

To permit connection to a pump the tool is fitted with two 0.5 m (1.6 ft) long hoses and quick couplings with dust caps, one male and one female coupling. The female coupling is fitted with a locking ring. NOTE, other types of coupling may occur. The tool's pressure hose is labelled "PRESSURE" at the hose end.

Safety features

Dead man's handle, tool stops when handle is released.

Safety valve which protects the tool if the return hose has been incorrectly connected. An indication that the safety valve has been released and that the return hose is erroneously connected is that a small amount of oil is leaking out in the front end of the operation valve.

A holding function, which enables the tool to remain standing with load, even if the hoses are disconnected. Even if the operation handle is twisted, the tool remains in position as long as the hoses are disconnected.

Connecting/Disconnecting (Fig. 3)

To connect the tool to a pump, connect the tool pressure hose to the pump pressure hose. Both hose ends are labelled with the word "PRESSURE". The tool can be connected directly to the pump or via a separate hose reel. Similarly, the tool return hose is connected to the pump return hose, directly or via a separate hose reel.

The male and female couplings can only be connected when the hoses are depressurised and the locking ring on the female coupling has been screwed back.

After connection, the locking ring on the female coupling must be screwed over the male coupling. This prevents accidental disconnection and shows that the couplings are properly connected.

The male and female dust caps should now be joined together as shown in. This prevents the dust caps from becoming contaminated.
To disconnect the tool, simply reverse the sequence. NOTE, the hoses must be depressurised before being disconnected. After disconnection, fit the respective dust caps to the couplings to prevent contamination of the couplings.

Practical work

Lifting
Always strive to get the tool operating at right angles to the object. If the tool starts to twist - stop the operation ! Get a new grip and try again.
If the tool has started to twist, it never becomes better, but always worse.

A usual cause for the tool to twist is that the load is gliding sideways. Therefore always secure the load before starting the operation.

Never work under a raised load without first securing it by support blocks or other mechanical support.

Spreading
Always strive to get the load as far as possible into the tips to avoid the tips loosing their grip.

If the tool starts to twist - stop the operation ! Get a new grip and try again.

If the tool has started to twist, it never becomes better, but always worse.

Pulling
Open the tool fully. Fit chain attachment RT48 (Fig. 4a). Fasten one chain around the object to be pulled and the other to a suitable restraint. Stretch the chains and attach to the hooks of the chain attachment.

When pulling it is important that the chains describe a straight line between the shears and attachment so that the spreader shears are not subject to bending (Fig. 4b).

Always check that the chains are securely attached to the tool and the object being pulled.

Pressing
When pressing it is important that the spreader shears do not begin to open up sideways (Fig. 5). If this happens – stop pressing! Realign the tool and try again.

Cutting
To cut plate up to 3 mm (0.1 in) thick, the tool can be fitted with shear tips RT47 (Fig. 6a).

If you want to be sure of a certain cutting direction, the shear tip can be used together with a standard tip (Fig. 6b).

After finished work

To remove the inside pressure of the tool - Run the tool together until the gap between the tips is about 10 mm (1/2 in).

Safety

- Make sure that the operator's instructions are always available to anyone who uses the tool.
- Anyone who uses the tool must be thoroughly familiar with the instructions for use and with any relevant laws and regulations concerning safety or the environment.
- Always use personal protection equipment, covering overall,helmet with visor or protective goggles, gloves etc.
- Always keep one hand on the handle and the other on the control valve (Fig. 7) when operating the tool.
- Never work underneath a raised load without first securing it on blocks or providing some other physical support.
- Be aware of the risk that parts of the object you are working on could slip or break loose and cause injury.
- Beware of the risk of sparks if electric wires are cut off. Always start the work by ensuring that the object is not connected to any electric source.
- Be aware of the risk of tripping over the hydraulic hoses that
- connect the tool and pump.
- Avoid sharp bends or kinks in the hydraulic hoses. If hydraulic pressure is applied to a sharply bent hose it can lead to a sudden rise in pressure that could damage the equipment.
- Sharp bends or kinks in the hose can also cause internal damage to the hose and unnecessary wear.
- Take care if there are any hydraulic oil leaks. Hydraulic oil under pressure can penetrate the skin and cause serious injury.
- Avoid putting strain on hoses, especially with sharp objects, and do not drive over the hoses, etc.
- Never lift or carry hydraulic components by their hoses or couplings.

Accessories

For safety reasons it is important that you only use accessories that have been tested and approved by REHOBOT HYDRAULICS AB.

The tool can be fitted with the following accessories:

RT47 Shear tip
RT48 Chain attachment

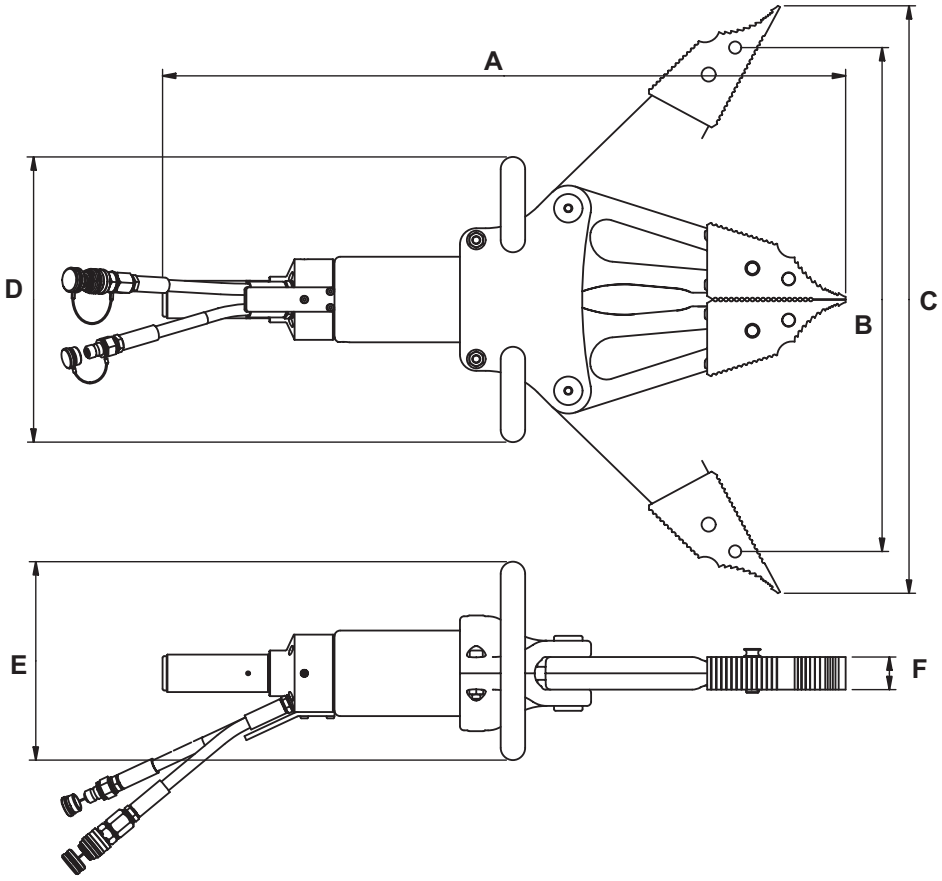
Maintenance

To ensure correct operation of the tool it is important to carry out regular maintenance. Carry out the following checks whenever you finish using the tool.

- Clean the tool.
- Check that the pressure heads are undamaged. If the pressure heads are chipped, replace them. The pressure head will still work if it is chipped, but the stress concentration that this causes could result in failure of the pressure head next time it is used.
- Check that the tool works satisfactorily in both directions. Run the tool up to maximum pressure and check that there are no oil leaks.
- Check the quick couplings and dust caps.

For safety reasons it is important that servicing and repair work are carried out by someone who is familiar with high-pressure hydraulic products. Always use original REHOBOT parts to ensure compliance with the technical requirements of REHOBOT HYDRAULICS. Special tools are required to carry out certain servicing/repair measures correctly.

Hydraulic oil that is drained (or leaks out) from the tool and components and is replaced during servicing or repairs must be collected and disposed of in accordance with the relevant environmental laws and regulations.



	mm	in
A	842	33.1
B	619	24.4
C	720	28.3
D	345	13.6
E	267	10.5
F	40	1.6

Fig. 1a

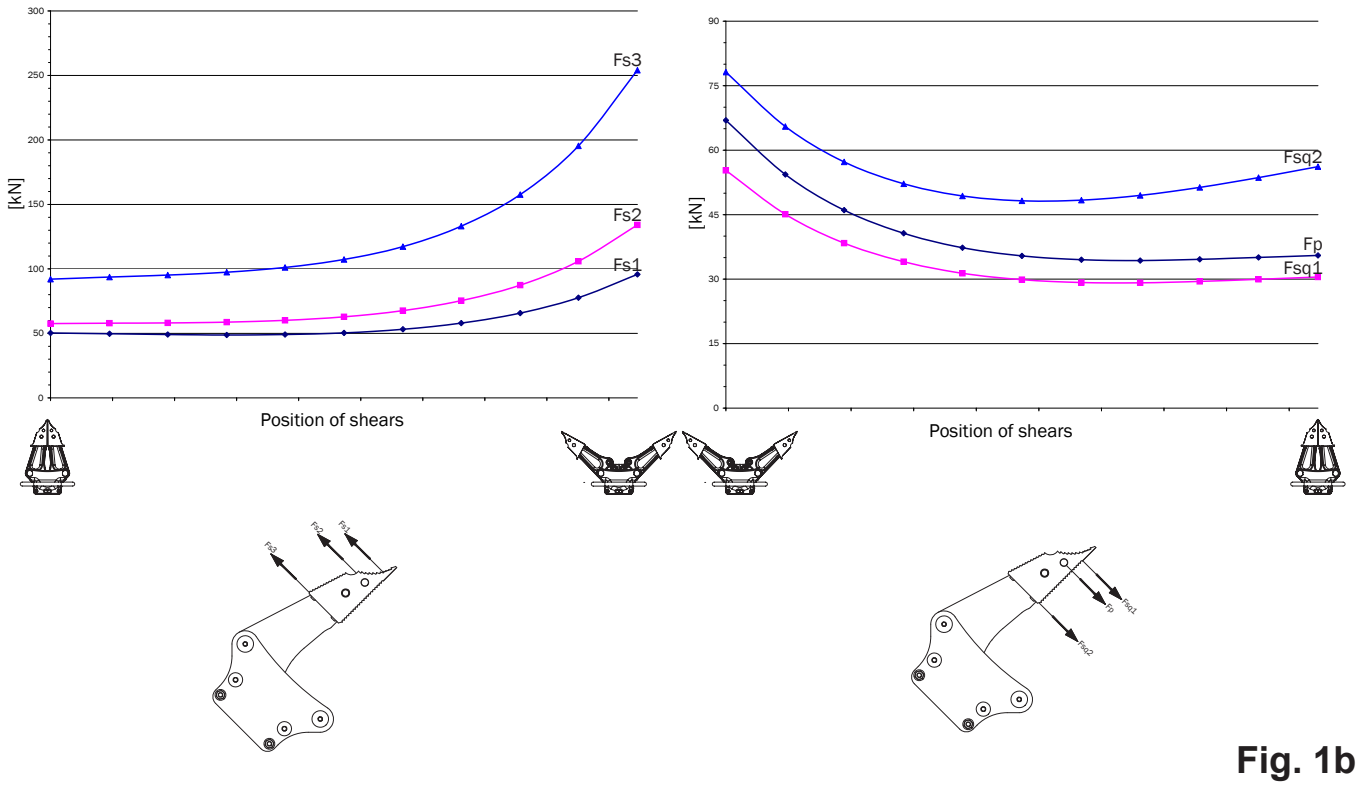


Fig. 1b

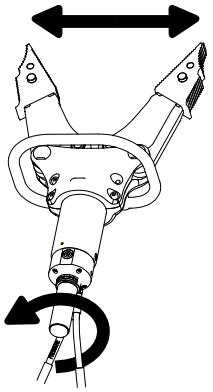


Fig. 2a

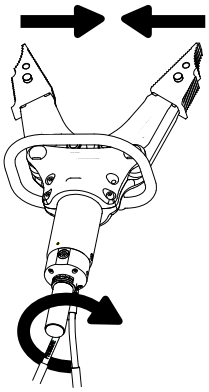


Fig. 2b

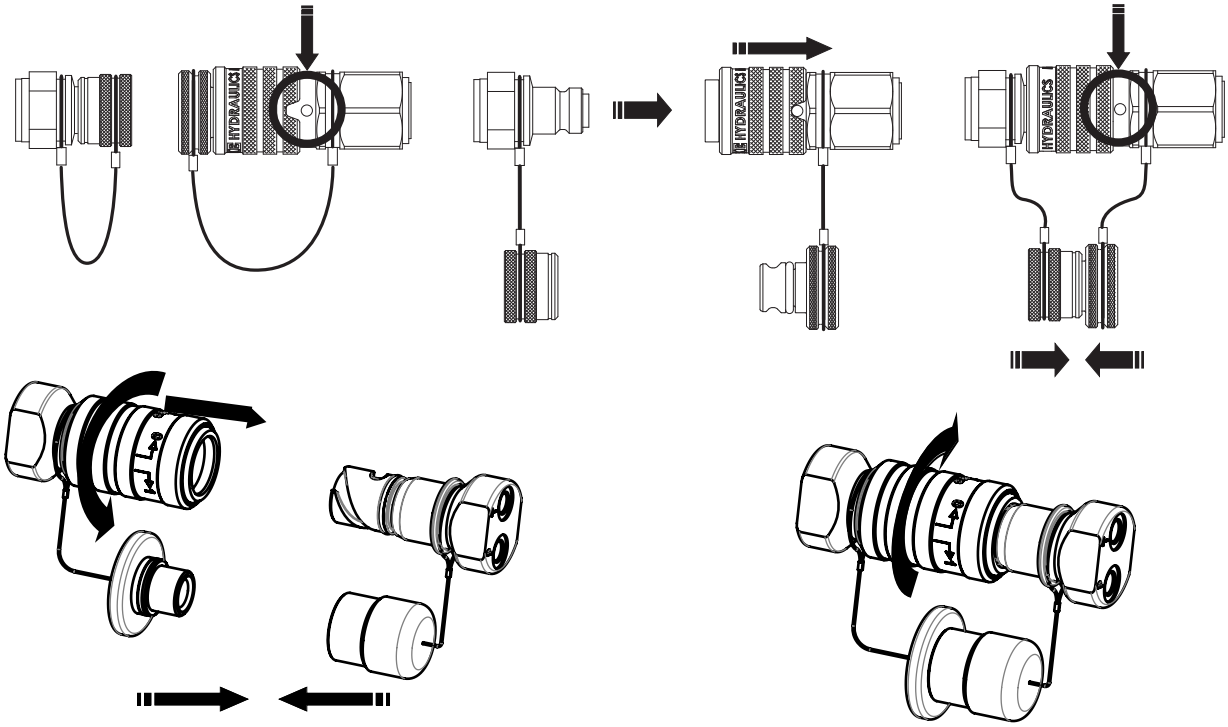


Fig. 3

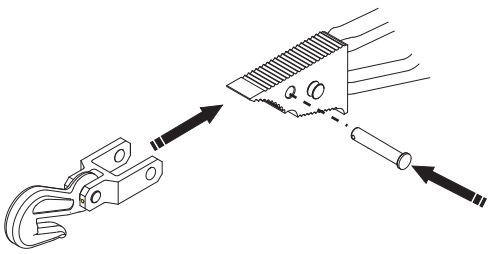


Fig. 4a

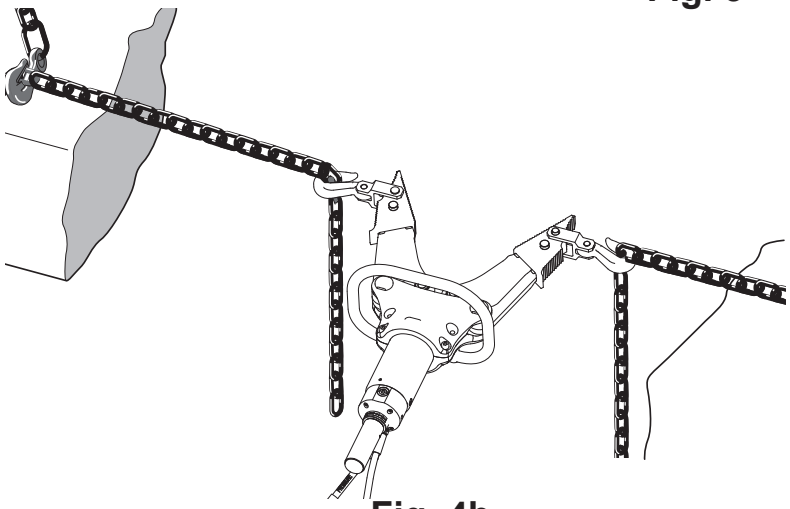


Fig. 4b

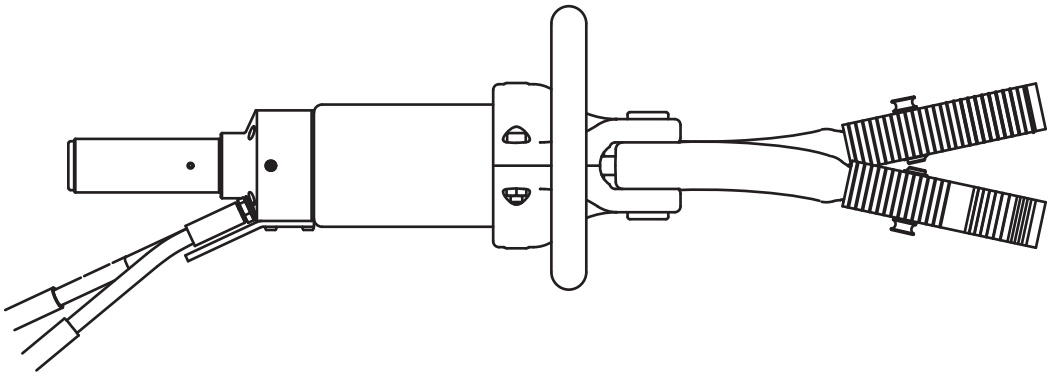


Fig. 5

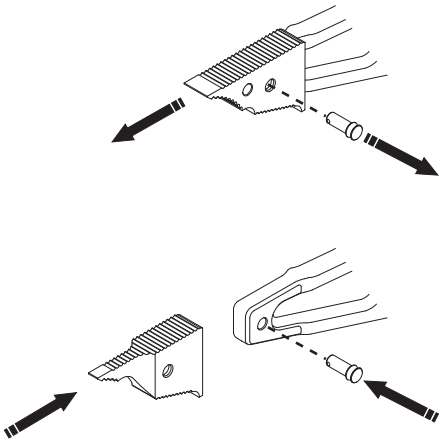


Fig. 6a

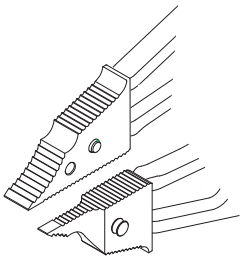


Fig. 6b

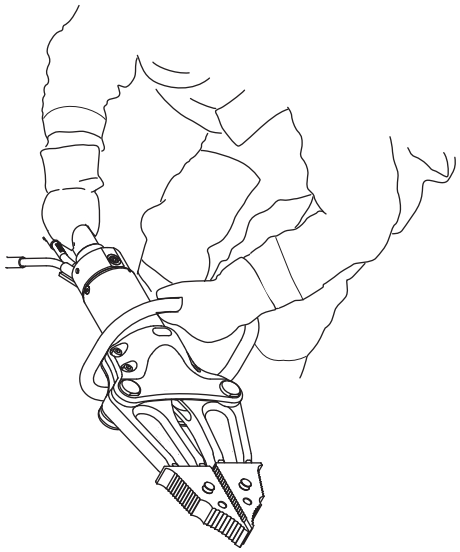


Fig. 7