



**Hydraulic hand-punching tool „HS-8“**

**Art. 217604**



## 1 Technical Data

### *Hydraulic plate puncher HS-8*

<b>Punching power</b>	Approx. 80 kN
<b>Cutting material</b>	Steel plates up to max. 3 mm strength
<b>Lift</b>	22 mm
<b>Manual exertion</b>	Approx. 350 N
<b>Lever transmission</b>	1:10
<b>Length</b>	308 mm
<b>Weight</b>	2,4 kg
<b>Oil specification</b>	Hydraulic oil GW ISO 7 <i>Use only water and acid free oil!!!</i>

## 2 Safety Instructions

**Attention:** Before using the tool please read all safety instructions. Always keep these safety instructions together with the tool and ensure the instructions are heeded at all times. HAUPA cannot legally be held responsible for any damage or injury sustained which is related to incorrect usage of the tool or as a result of poor maintenance. Should there be any further questions regarding use of the product or any aspect safety measures, please contact HAUPA.

1. Keep your workplace clean and free from foreign bodies and always take care that there is sufficient lighting.
2. Always wear protective clothes and spectacles.
3. Make sure that the tool is protected from external damage e.g. the effects of excessive heat, open fires, sharp edges, moving pieces of machinery, corrosive chemicals and damp.
4. Avoid high pressure on the tool! Use the cutter only according to technical data regarding cutting material and cutting capacity.
5. Do not try to extend the handles beyond their normal length!
6. Only allow authorized personnel to carry out repair and maintenance work to the tool. Any maintenance / repair work carried out by unauthorized personnel will invalidate the guarantee.
7. Make sure that the matrix is concordant with the cutting edge concerning the diameter.

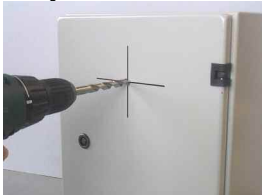
8. Check the oil level on occasion. While re-filling pay attention to outermost cleanness. Use only oil according oil specification (s. Technical Data).
9. Keep children, pets and unauthorized persons away from the workplace.
10. Keep the safety instructions with the tool.

### 3 Tool – Operation

HS-8 is a tool for punching plates according cutting material (s. Technical Data). Please consider the following constructions to ensure an operation without any problems.

#### **Operation:**

1- Pre-drill with  $\varnothing 10$ , 5 after marking out and marking the centre.



2- screw rod (thread entirely) in.



3- Fit distance bushing and matrix.



4-Insert rod into drill-hole and screw cutting edge on.



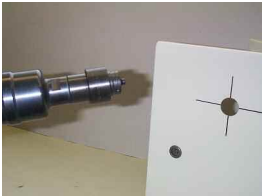
5-Close the drain valve by reversing the lowering lever (push).



6-Pump movements till the plate is separated by the cutting edge.



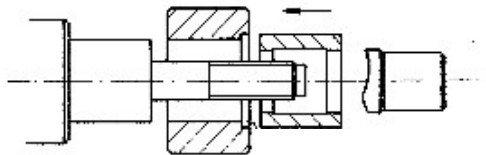
7- Pull package including button out.



8- Activate return by throwing the lowering lever.



9- unscrew the cutting edge and remove the button.



### **Necessary to consider:**

The matrix must be insert into the distance bushing's spigot at working with tools for  $\varnothing 15,2\text{mm}$  (PG9) and  $\varnothing 16,5\text{mm}$  on metrical threads to ensure that the cutting edge rides in centre into matrix.

## 4 Trouble – Shooting

Problem	Possible cause
<ul style="list-style-type: none"> <li>• No lift in spite of pump movements!</li> <li>• Lift yes, but without force!</li> <li>• Lift doesn't reach whole distance!</li> <li>• No return!</li>   <li>• No complete return!</li> <li>• External oil loss!</li> <li>• No lift at working in vertical position!</li> </ul>	<p style="text-align: center;">1 / 4 / 6</p> <p style="text-align: center;">3</p> <p style="text-align: center;">4</p> <p style="text-align: center;">2 / 4</p> <p style="text-align: center;">4</p> <p style="text-align: center;">5</p> <p style="text-align: center;">4 / 6</p>
Cause	Repair
<ol style="list-style-type: none"> <li>1. Drain valve is not tight or not closed tightly enough.</li> <li>2. Drain valve doesn't open.</li> <li>3. Pressure valve doesn't close properly.</li> <li>4. Too little oil.</li> <li>5. Seal damaged.</li> <li>6. Air in the system.</li> </ol>	<p>Exert more pressure.</p> <p>Execute pump movements.</p> <p>Execute pump movements quickly to clear out any possible dirt.</p> <p>Oil should be re-filled by authorized maintenance person.</p> <p>Replace seal.</p> <p>Several liftings in a horizontal position, arrange afterwards vertically. Re-fill oil.</p>

## 4.1 Spare Parts

Art.-Nr.	Description	Pc(s)	Art.-Nr.	Description	Pc(s)
50-600-01	Valve block	1	00-004-01	Ball	1
50-600-02	Piston	1	00-020-33	O-Ring	2
50-600-03	Cylinder	1	00-020-52	O-Ring	1
50-600-04	Cover	1	00-020-22	O-Ring	1
50-600-05	Bushing	1	50-028-11	Piston	1
50-600-06	Bushing	1	50-028-30	Pressure piece	1
50-600-09	Handle	1	50-028-56	Ball knob	1
50-600-10	Suction piece	1	50-037-02	Bolt	1
50-600-12	Pressure spring	1	50-063-05	Bolt	1
00-032-13	Cheese head screw	1	50-063-07	Bolt	1
00-098-01	Spring washer	1	50-063-13	Closing	1
00-020-93	O-Ring	1	50-066-04	Guide tube	1
00-081-18	Support ring	1	60-082-08	Oil bellows	1
00-020-94	O-Ring	1	60-082-09	Plug	1
00-081-17	Support ring	1	00-004-04	Ball	1
00-034-10	Headless pin	1	00-024-02	Disc spring	12
50-600-21	Bushing	1	00-027-02	Königexpander	1
00-099-03	Plastic seal	1	50-075-21	Adjusting screw	1
00-020-26	O-Ring	3	50-066-10	Cover	1
00-022-08	Support ring	1	50-066-11	Handhold	1
00-013-21	Pressure spring	1	00-143-01	Seal disc	1
00-143-04	EO-valve	1	00-143-02	Cover disc	1
00-049-07	Headless pin	1	00-143-03	Washer	1
00-031-34	Cheese head screw	1	00-143-05	Cone	1
00-005-01	Lock washer	2	80-163-146	Handle cover	1

**Please use only original HAUPA spare parts!**

## **5 Special Advice**

HAUPA will not be held responsible if the tool is operated without reference to the appropriate operating instructions manual.

Request for the appropriate manual must be made to HAUPA before the unit is used. Failure to comply with this requirement will result in the operator being entirely responsible for their action and any possible damage or injury which may occur as a result. In other words, HAUPA relinquishes all liabilities for such actions.

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