Hydraulic cable and bar cutters

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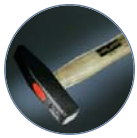

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1. ESSENTIAL SAFETY REQUIREMENTS

1.1 General considerations

1.1.1 HAUPA hydraulic tools have been designed in accordance with internal quality standards.

1.1.2 The tools have been designed for the applications described in this present manual. Any other type of use could cause damage to the equipment and put the operator in danger. The manufacturer is not liable for any damages resulting from an inadequate use of the tools.

1.1.3 The operator must be aware of the risks inherent to the use of high pressure hydraulic tools and must therefore act correctly and in accordance with the procedure described in this present manual, ensuring both the operator's safety and the safety of any person close to the working area.

1.2 Organisational Principles

1.2.1 The instructions should always be available to the operator.

1.2.2 In addition to the instruction manual, the operator must be instructed in the use of the machine and in the rules and regulations for this type of operation, such as accident prevention and environmental protection. Exposed personnel should use personal protective equipment, boots, helmet, glasses, gloves and clothes.

1.2.3 In order to prevent personal or material damage, the operator must have received practical training in the use of the machine and must know and apply the necessary safety measures.

1.2.4 Each time the equipment is used again, the instructions set out in the "Start up" section of this present manual should be followed.

1.2.5 No modifications should be made to the equipment and no elements should be added which could affect safety without the manufacturer's authorisation.

1.2.6 Repairs, maintenance work etc. should only be carried out by specialised personnel and with HAUPA original spares.

1.2.7 The hydraulic flexibles should be replaced periodically even when there are no apparent defects.

1.2.8 Maintenance operations should be carried out periodically in accordance with the instructions given in this manual.

1.2.9 After the equipment has been used, it should be disconnected, cleaned and stored in a clean and safe place.

1.3 General safety instructions

1.3.1 If a malfunction is observed in the machine or one of the system elements, stop operating immediately, depressurise the system and correct the fault observed.

1.3.2 Before commencing operation, check that there are no exposed persons in the danger zone.

1.3.3 Check that the machinery and accessories have not been damaged during transport and installation.
1.3.4 Use the equipment in suitably illuminated zones.
1.3.5 Both for cutters with a built-in pump and for cutters with a separate one, always find the most comfortable and stable operating position for both the tool and operator.
1.3.6 The maximum duty cycle for the equipment should be 80% of its nominal capacity.
1.3.7 The operator should protect his/her eyes with adequate protective material against the possibility of projections from the cut part. For tools with an independent pump, the hose enables the operator to move away from the danger zone. For tools with a built-in pump, whenever possible, protection shall be placed between the material to be treated and the operator.
1.3.8 Do not expose the equipment to intense heat sources, such as welding.
1.3.9 Maintenance operations should only be performed once the equipment has been depressurised and disconnected.
1.3.10 Do not exceed the nominal capacity of the equipment. For tools with a separate pump, we would recommend fitting a pressure gauge to the equipment in order to be aware of the force the equipment is being subjected to at all times.
1.3.11 The controls must be manually operated for both those tools with a built-in pump as well as those with a separate pump. Do not use tools, levers, etc. to operate them.
1.3.12 For tools with a separate pump, ensure that the quick-connect plugs are perfectly clean before connection.
1.3.13 Ensure that the hydraulic hoses have not been forced or twisted.
1.3.14 When working with an electric powered pump, ensure that the valve is in the neutral position when connecting the equipment.
1.3.15 For cable cutters the possibility of fraying during the cutting operation should be foreseen. To prevent this, anchor the cable at both sides of the cutting blade with either tape, wire or even a sleeve.
1.3.16 Clean the quick-connect plugs perfectly before connection.
1.3.17 In all cases, the operator must be perfectly instructed in the operation of the equipment and he/she should act according to the logical safety criteria that need to be borne in mind when working with high pressure tools.
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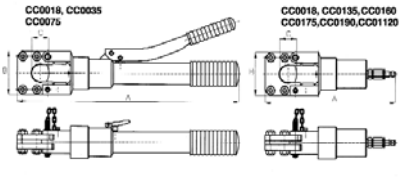
1.3.22 In all cases, the operator must be perfectly instructed in the operation of the equipment and he/she should act according to the logical safety criteria that need to be borne in mind when working with high pressure tools.

2. TECHNICAL SPECIFICATIONS

The HAUPA family of cable cutters has been designed to cut cables or bars in accordance with the specifications of the table shown below. Any use not included in these specifications could lead to irreparable damage to the blade and make it useless for normal applications.
If the tool is to be used for cable cutting, the operator should take precautions to prevent the cable from fraying, we would therefore recommend anchoring the cable (with a wire, tape etc) at both sides of the cutting zone before commencing the cutting operation.
In any event, the operator should protect him/herself against possible cable or bar projections during the cutting operation by taking the appropriate measures (personal protective equipment, installation of protection screens, etc.)

Referencia Model Référence	Con bomba With pump Avec pompe	Capacidad Capacity Capacité	Presión Pressure Pression	CABLE DE ALAMBRE WIRE ROPE CABLE DE FILS MET.		CABLE CABLE CABLE			CABLE de ACERO STEEL ROPE CABLE D'ACIER		BARRA BAR BARRE		
				Acero Steel Acier	Aluminio Aluminium Aluminium	Teléfono Telephone Téléphone	Plomo Lead Plomb	Subterraneo Underground Souterrain	MAX. R=1800 N/mm_		MAX. R=400 N/mm_		
										Alambre Wire Fil	Acero Steel Acier	Cobre Copper Cuivre	Aluminio Aluminium Aluminium
		kN	bar	ØExt. mm.	ØExt. mm.	ØExt. mm.	ØExt. mm.	ØExt. mm.	ØExt. mm.	min. mm.	ØExt. mm.	ØExt. mm.	ØExt. mm.
HCC-18C	1	54	550	18	18	-	18	18	18	3	18	15	15
HCC-55C	1	135	700	35	35	-	35	35	35	8	30	30	30
HCC-75C	1	70	700	40	-	72	72	72	-	-	-	-	-
HCC-18		54	550	18	18	-	18	18	18	3	18	15	15
HCC-55		135	700	35	35	-	35	35	35	8	30	30	30
HCC-75		70	700	40	-	72	72	72	-	-	-	-	-
HCC-90		109	700	45	-	90	90	90	-	-	-	-	-
HCC-120		135	700	55	-	120	120	120	-	-	-	-	-
HC-60		456	700	60	60	-	-	-	60	8	45	35	35

Referencia Model Référence	Cuchilla Blade Lame	Dimensions			Peso Weight Kg. Poids
		A mm	B mm	C mm	
HCC-18C	CRC18	384	60	19	2,8
HCC-55C	CRC55	480	92	36	5,6
HCC-75C	CRC75	650	126	77	6,8
HCC-18	CRC18	212	60	19	2
HCC-55	CRC55	280	92	36	4,5
HCC-75	CRC75	451	126	77	5,5
HCC-90	CRC0190	535	146	91	10
HCC-120	CRC01120	630	178	122	11,7
HCC-60	CRC0160	403	150	62	12



3. START UP

3.1. Models with a built-in pump HCC-18C, HCC-35C and HCC-75.

- Unpack the equipment and check for any observable damage such as breakage of the cutting blade, damaged levers or loose parts.
- Grasp the tool by the thick handle and with the tool in the vertical position (workhead up) pump with the lever, checking that the blade advances. Without introducing any objects in the shearing area, carry on pumping until the end of the stroke is reached. At this point the lever will stiffen. Continue pumping until the safety valve is activated. Check for oil leaks.
- Press the pressure release button and check that the blade returns to the starting point.
- Perform this operation as many times as is necessary to get used to the tool operation.
- Remove the pin and open the tool workhead.
- Place the material to be cut in the counter blade cavity and close the workhead, securing it with the pin. Ensure that the pin is perfectly anchored in position.
- Pump until the material is cut.
- Once the material has been cut, press the pressure release button to return the blade.
- Open the workhead again and clean out any remaining material before performing another cut.

3.2. Models with a separate pump. HCC-18, HCC-35, HCC-60, HCC-75, HCC-90 and HCC-120.

- Unpack the equipment and check for any observable damage such as breakage of the cutting blade, damaged levers and check that the quick-connection plugs have not become unscrewed.
- Connect the female quick connection plug in the hose to the male plug in the tool. Ensure that the connection is perfect.
- Read the pump instructions and carry them out.
- Remove the pin and open the tool workhead.
- Place the material to be cut in the counter blade cavity and close the workhead, securing it with the pin. Ensure that the pin is perfectly anchored in position.
- Pump until the material is cut
- Return the blade by means of the pump valve.
- Open the workhead again and clean out any remaining material before performing another cut.
- When electric powered or air pumps are used, the application is automated and in these cases the operator must be particularly trained not to perform any involuntary action.

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4. MAINTENANCE

Once the application has been completed, clean the tool and oil the friction areas where the blade comes into contact with the workhead. If any oil leakage is observed, disassemble the tool and change the retainers. Use the drawing specific to each tool to determine the components and their codes. In this operation, the state of the cylinder's inner surface should be checked. If any scoring or snags are detected, a more thorough repair will be necessary, and we would recommend that this be done by specialised personnel.
Check for loose screws in the workhead.
In the event of any faults in the built-in pump models, we would recommend that these be repaired by an approved service.

4.1 Blade replacement

- HCC-18C, HCC-18, HCC-75C, HCC-75, HCC-90 and HCC-120: Pump until the piston and blade have come out sufficiently to be able to access the screw (22). Unscrew the screw and remove the blade. Replace with a new blade and secure it to the piston with the screw (22).
- HCC-35C, HCC-35 and HCC-60: There is no need to extract the piston since the screw (22) is accessible even when the blade is inside. Unscrew screw (22) and replace the blade.

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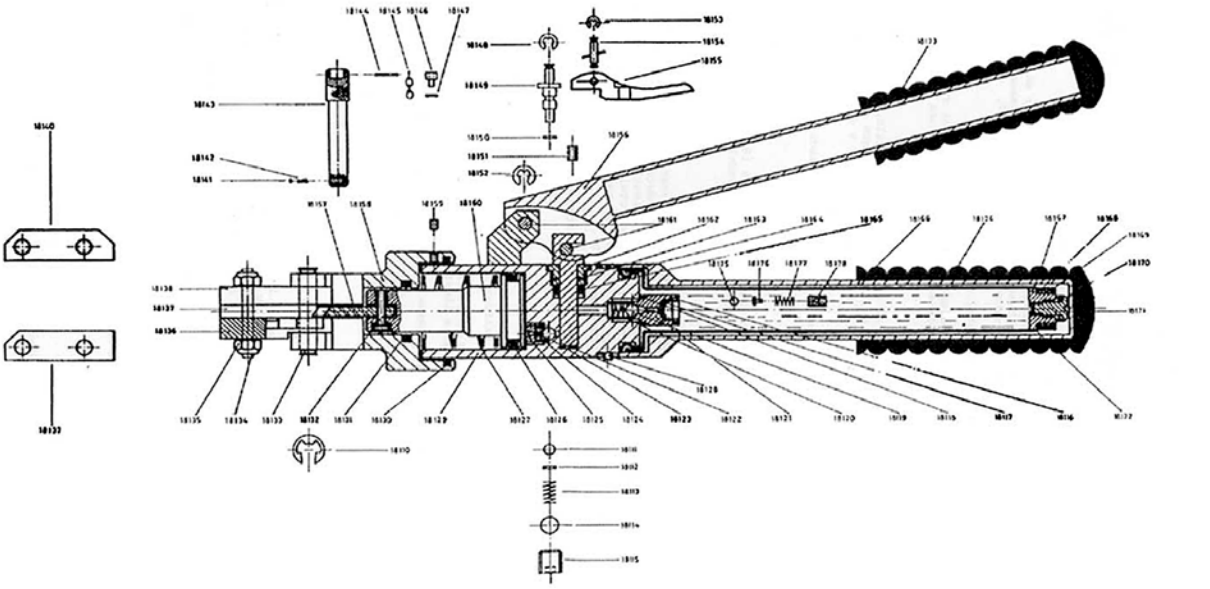

NOTA: LAS PIEZAS DE CADA MODELO SE DESIGNAN AÑADIENDO AL NUMERO DEL MODELO, EL DE LA PIEZA CORRESPONDIENTE

EACH PIECE IS CODED ADDING ITS NUMBER TO THE MODEL NUMBER

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