

ROSS & MOUNT

ACCURACY & RELIABILITY IN POWER

ROSS & MOUNT
HEAVY EQUIPMENTS

C-PLATEN PRESS— HP—500 –2000



FORCE CONTROL AND INTELLIGENCE IN FLUID POWER...

C Frame Presses : Ross & Mount C Frame presses provide precise , durable and cost effective performance. The presses consist of an electro welded structure made out of ST-52.3 steel . Press is designed for stamping, die-cutting and forming / to incorporate in automatic production lines.

- Provided with a double acting cylinder (including anti-turning) with a chrome plunger and a removable and interchangeable hold-down plate to avoid deterioration of the piston. The cylinder is machined at the end for adapting tools or moulds.
- The cylinder stroke is easy to adjust with the end-stroke switches on the side of the presses.
- The two-speed motorized hydraulic unit has an automatic disconnection of the high speed and contains a pressure regulator and manometer in tons.
- The control panel features a selector for manual or automatic operation and a selector for the two different cylinder speeds (fast approach speed and slow working speed).
- Hydraulic Over Load protection



Hydraulic cylinder with cushion stroke (optional)

- The C-HP--models are equipped with a mechanized lower table (made out of CK-42 stainless steel) with two T-grooves (DIN650).



Specifications		C-HP-300	C-HP-600	C-HP-1000	C-HP-1500
Tonnage	t	30	60	100	150
Working pressure	bar	227 (3,300 psi)	236 (3,400 psi)	241 (3,500 psi)	244 (3,540 psi)
Work height	mm	400 (15.7")	500 (19.7")	500 (19.7")	1000 (39.4")
Table dimensions (W/L)	mm	500x300 (19.7x11.8")	500x500 (19.7x19.7")	800x600 (31.5x23.6")	600x600 (23.6x23.6")
Cylinder-Ø	mm	135 (5.3")	175 (6.9")	230 (9.1")	270 (10.6")
Cylinder stroke	mm	400 (15.7")	400 (15.7")	500 (19.7")	500 (19.7")
Ram plate dimensions	mm	500x300 (19.7x11.8")	500x500 (19.7x19.7")	800x600 (31.5x23.6")	600x600 (23.6x23.6")
Table bore diameter	mm	Inside Ø 90, outside Ø 100 (3.5, 3.9")			
Working stroke speed	mm/s	80 (3.1"/s)	80 (3.1"/s)	65 (2.6"/s)	90 (3.5"/s)
Return Speed	mm/s	80 (3.1"/s)	90 (3.5"/s)	80 (3.1"/s)	100 (3.9"/s)
Projection	mm	300 (11.8")	350 (13.8")	350 (13.8")	400 (15.7")
Table height	mm	900 (35.4")	900 (35.4")	900 (35.4")	900 (35.4")
Hydraulic tank capacity	l	45 (11.9 gal)	55 (14.5 gal)	80 (21.1 gal)	110 (29 gal)
Main drive motor	kW	4 (5 Hp)	4 (5 Hp)	11 (15 Hp)	21 (30 Hp)
Dimensions (L/W/H)	mm	800x1100x2200 (31.5x43.3x86.6")	1400x1200x2250 (55x47.2x88.6")	800x1500x2500 (31.5x59x98.4")	800x1500x2700 (31.5x59x106.3")
Weight	kg	1400 (3,080 lbs)	1900 (4,180 lbs)	3200 (7,040 lbs)	7000 (15,400 lbs)

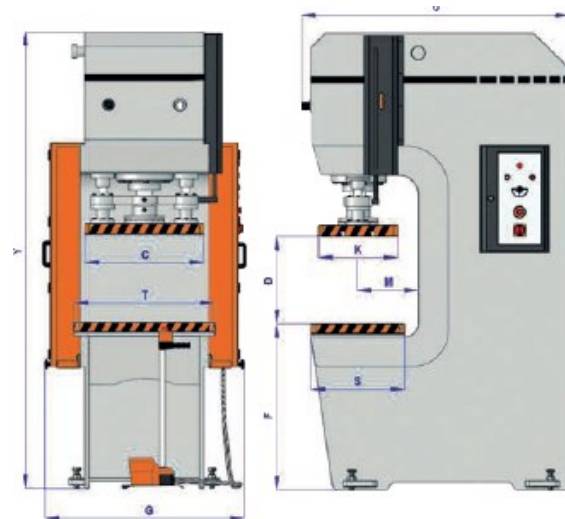
The Hydraulic Unit

The **main cylinder** is **single-acting** with a lapping liner, chrome plunger and maintenance-free anti wear guides.

For **quick approaching and returning**, **2 double-acting lateral cylinders** with lapping liner, chrome plunger and **non-wearing guides** have been installed, which allows us a **fast approach and return speed**.

A **motorized hydraulic unit** with a **pre-filing valve** for approaching and returning and a **fixed flow rate pump** for working at constant speed.

It is equipped with a **non-return valve**, a **pressure relief valve**, a **decompressing valve** and an air-oil cooling system.



By displaying all press settings on a single screen, the touch screen control makes it easy to establish change, or verify set points. The Press Monitor screen lets you review actual stroke parameters and press performance while the press is in operation.

An auto set point feature lets you establish set points visually. Just jog the press to the desired position, touch the auto set point indicator, and the control automatically stores the actual press position as the new set point, eliminating the need to take measurements and enter the values.

Faster, Easier Adjustments

On most presses, making adjustments involves precise measurements, some guesswork, and several tries.

Adjustments with a touch screen control, however, are fast and easy and can be made with greater

Dim	Unit	CHP-300	CHP-600	CHP-1000	CHP-1500
C	mm	500 (19.7")	500 (19.7")	800 (31.5")	600 (23.6")
D	mm	400 (15.7")	500 (19.7")	500 (19.7")	1000 (39.4")
F	mm	900 (35.4")	900 (35.4")	900 (35.4")	900 (35.4")
G	mm	1100 (43.3")	1200 (47.2")	1500 (59")	1500 (59")
K	mm	300 (11.8")	500 (19.7")	600 (23.6")	600 (23.6")
M	mm	180 (7.1")	280 (11")	330 (13")	330 (13")
S	mm	300 (11.8")	500 (19.7")	600 (23.6")	600 (23.6")
T	mm	500 (19.7")	500 (19.7")	800 (31.5")	600 (23.6")
Y	mm	2200 (86.6")	2250 (88.6")	2500 (98")	2700 (106.3")
U	mm	800 (31.5")	1400 (55")	800 (31.5")	800 (31.5")



Precise Control

The touch screen control provides exceptionally precise control. Ram position is track by an absolute zero linear transducer, which never needs calibrating(optional) The control can be easily integrated with a precision digital control system, which enables actual position accuracies of $\pm 0.01"$ and reversal at $\pm 2\%$ or specified tonnage. (optional)

Speeds Repeat Setups

Program stored in the control memory can be called up instantly using the Program Utilities function. If the job is an exact rerun of a prior job, the program can be run as is. If minor changes or modifications are required, the program can be quickly and easily edited for onetime use or edited and then stored for future reuse.



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INNOVATION POWERED
BY TECHNOLOGY ...

ROSS & MOUNT TECHNOLOGY CENTER

At the technology center of Ross & Mount , Germany . We blooms the innovation powered by cutting edge technology. The engineering system follows the standards in all their designs to ensure reliability at all levels of product designs .

The Ross & Mount products pass through all the extreme testing environments before reaching the equipment's and plants of the customer. Our set of proud customers prefers our products as their first choice for sub assemblies , proves our products reliability and integrity in all our relations .

Our technology team supports our valuable customers in selection of right assemblies , integration supports and Engineering to deliver our customer with engineered Reliability.



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