

A SELECTION FROM THE VAST RANGE OF

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From DIY to industrial. Plus air tools,  
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Prime duty or emergency standby  
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Submersible, electric and engine  
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Angle grinders, cordless drill sets,  
saws and sanders.

**STARTER/CHARGERS**  
All sizes for car & commercial use.



# Clarke<sup>®</sup>

## STRONG-ARM



## 1 TONNE FOLDING CRANE MODEL No CFC100

PART No 7611005

**Clarke** INTERNATIONAL

For spare parts and servicing, please contact your nearest dealer, or Clarke International on

**020 - 8988 - 7400**

e-mail: [Parts@clarkeinternational.com](mailto:Parts@clarkeinternational.com) e-mail: [Service@clarkeinternational.com](mailto:Service@clarkeinternational.com)

## OPERATING & MAINTENANCE INSTRUCTIONS



**Clarke**<sup>®</sup>  
INTERNATIONAL

This is an important document, and should be retained.



## DECLARATION OF CONFORMITY

We declare that this product complies to the following standards/directives:

- 89/392/EEC
- 91/368/EEC
- 93/44/EEC
- EN 292-2

Product Description: **Hydraulically operated  
Folding Crane**

Model Number: **CFC100**

Serial (Batch) No: See Data Plate on Machine

Signed 

**Clarke** INTERNATIONAL  
Hemnal Street, Epping, Essex CM16 4LG

Clarke International is a trading style of Clarke International Limited

**Clarke**<sup>®</sup>  
INTERNATIONAL

## SPARE PARTS

No	Description	Qty	Part No	No	Description	Qty	Part No
1	Main Support post	1	SN10001	37	Ram	1	SN10037
2	Base	1	SN10002	38	Tank Nut	1	SN10038
3	Left Leg	1	SN10003	39	'O'Ring	1	SN10039
4	Right Leg	1	SN10004	40	Sealing Gasket	1	SN10040
5	Jib	1	SN10005	41	Reservoir	1	SN10041
6	Jib Extension	1	SN10006	42	Trapezoid Seal Ring	1	SN10042
7	Ram Unit 3 Tonne	1	SN10007	43	Vent Plug	1	SN10043
10	Bolt M6 x 30	1	SN10010	44	Screw	1	SN10044
11	Nut M6	1	SN10011	45	Spring Washer	1	SN10045
12	Lock Pin	1	SN10012	46	Stand	1	SN10046
13	'R' Clip	1	SN10013	47	Handle Socket	1	SN10047
14	Handle	1	SN10014	48	Shaft	1	SN10048
15	Bolt M16 x 110	1	SN10015	49	Handle Socket	3	SN10049
16	Washer Ø 16	3	SN10016	51	Plunger Pin	2	SN10051
17	Bolt M16 x 90	1	SN10017	52	Plunger	2	SN10052
19	Washer Ø 8	12	SN10019	53	Back Up Ring	2	SN10053
20	Bolt M8 x 20 12	12	SN10020	54	'O' Ring	2	SN10054
21	Bolt M16 x 80	1	SN10021	55	Pump Panel	2	SN10055
22	Castor & Fixing	2	SN10022	56	Copper Washer	2	SN10056
23	Bolt M12 x 80	1	SN10023	57	Ball	2	SN10057
24	Hook Assembly	1	SN10024	58	Hyd Press Rel Nut	1	SN10058
25	Nut M16	1	SN10025	59	seal Ring	1	SN10059
26	Pump Handle	1	SN10026	60	Ball	1	SN10060
27	Chain	2	SN10027	61	Supporter	1	SN10061
28	Nut M16	3	SN10028	62	Bush	1	SN10062
29	Valve block	1	SN10029	63	Spring Washer	1	SN10063
30	Copper Washer	1	SN10030	64	Screw	1	SN10064
31	Cylinder	1	SN10031	65	Plunger Link	2	SN10065
32	Retaining Ring	1	SN10032	67	Lock Washer Ø 16	3	SN10067
33	Washer	1	SN10033	68	Lock Washer Ø 12	1	SN10068
34	'O'Ring	1	SN10034	69	Flat Washer Ø 12	1	SN10069
35	'O'Ring retainer	1	SN10035	70	Nut M8	8	SN10070
36	Ram Seal Washer	1	SN10036	71	Lock & Clip Assy	1	SN10071

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Thank you for purchasing this Clarke Hydraulic Crane.

Before attempting to assemble or operate the unit, please read this instruction manual thoroughly, and follow all directions carefully, by paying particular attention to the safety precautions. By doing so, You will ensure safe operation of the unit, and enjoy trouble free service from your Clarke hydraulic crane.

### CLARKE GUARANTEE

This CLARKE product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.

This guarantee does not effect your statutory rights.

### SPECIFICATIONS



	Stage 1	Stage 2	Stage 3	Stage 4
Lifting Capacity (kg)	1000	750	500	250
Max. Lift Height (mm)	1870	1930	1995	2060
Max. Jib Length (mm)	900	990	1080	1170
Overall Width (mm)	1030			
Width Between Legs (mm)	890			
Height of Legs (mm)	150			
Weight (kg)	79			
Part No.	7611005			

# SAFETY PRECAUTIONS

## IMPORTANT

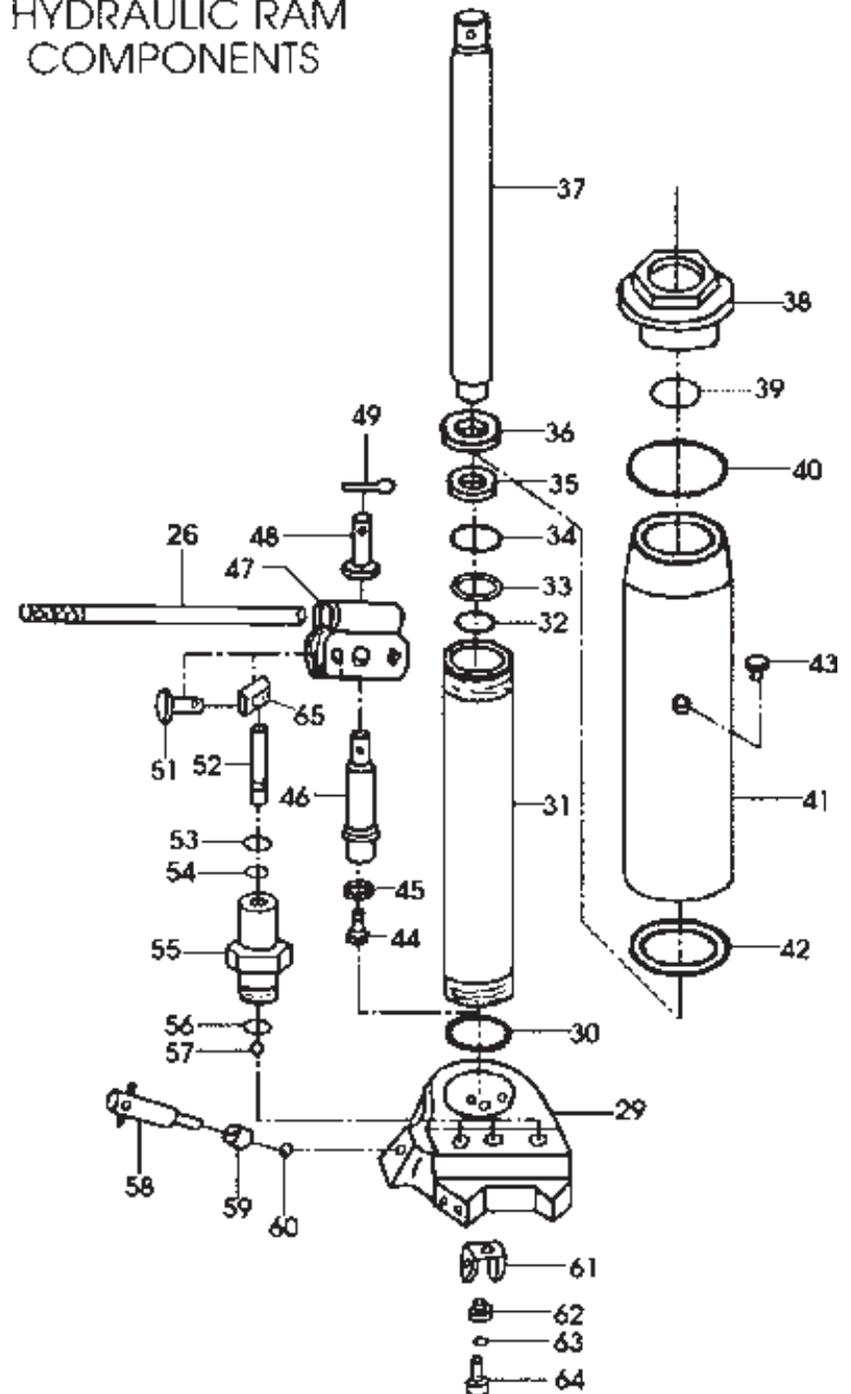
Before using your crane, it is in your own interest to read and comply with the following safety rules.

- NEVER exceed the safe working load capacities as specified on the jib for each jib extension position.
- |                       | Stage 1 | Stage 2 | Stage 3 | Stage 4 |
|-----------------------|---------|---------|---------|---------|
| Lifting capacity (kg) | 1000    | 750     | 500     | 250     |
- Only use the crane on a flat solid level surface, which is capable of sustaining the weight of the load.
  - NEVER stand or work beneath a suspended load.
  - Position the load as close to the ground as possible before moving it.
  - Do not allow the load to swing or drop suddenly whilst moving or lowering.
  - Use only slings or chains with a capacity equal to , or greater than that of the crane.
  - Do not stand in the path of the jib as loss of load may cause the jib to rise suddenly.
  - If the load capacity decal on the jib becomes worn or illegible, contact Clarke International Spares Division for a replacement.
  - Ensure the crane operator is skilled, and trained in both operation and safety aspects.
  - Inspect the crane before use to ensure it is in good condition. Replace any damaged or worn parts and ensure all nuts and bolts are tight.
  - When replacing parts, use only parts supplied by Clarke International as per the parts list on page 10. High tensile bolts are used in the construction of this crane. NEVER replace them with standard bolts.

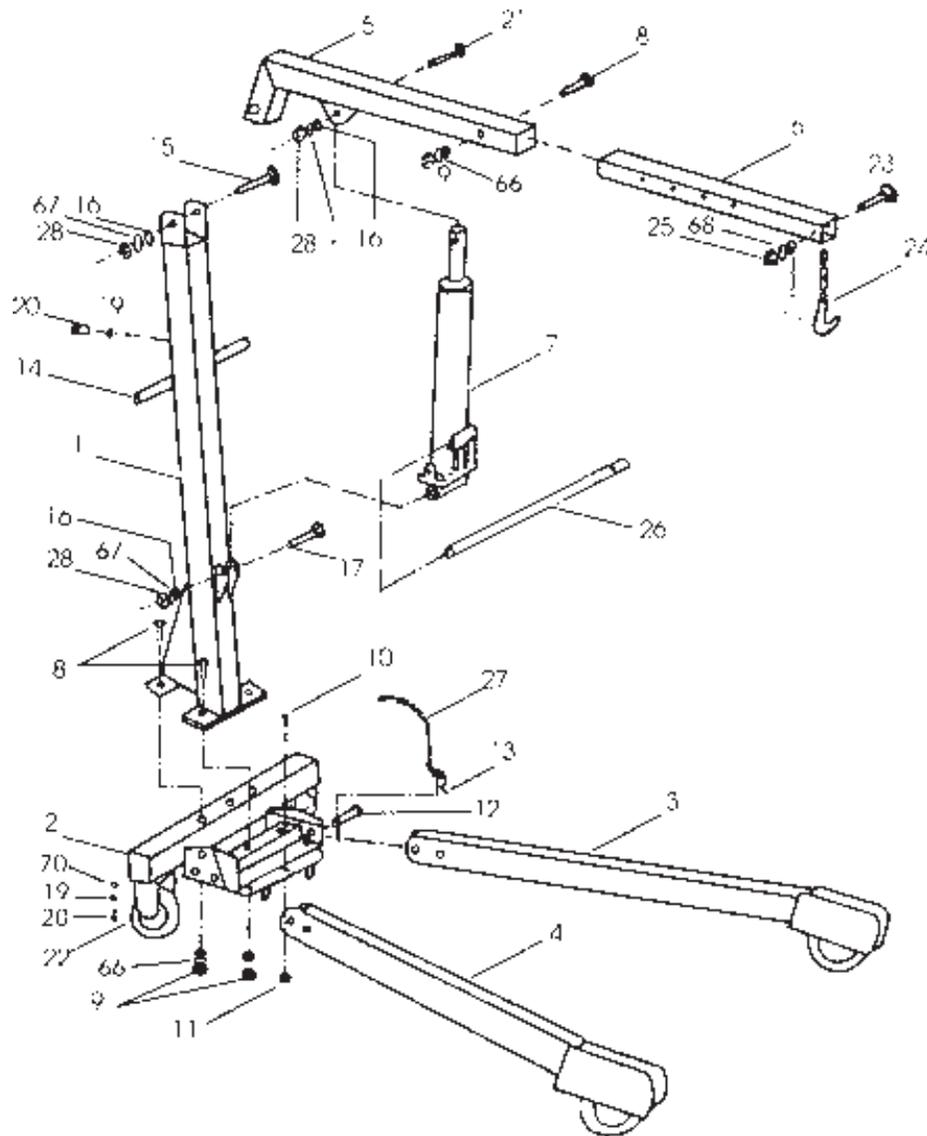
### Warning

Failure to comply with these rules and precautions may result in loss of load, damage to, or failure of, the equipment, or even personal injury. Ensure that the crane is properly maintained and lubricated AT ALL TIMES, and that no rust or other forms of corrosion is allowed to weaken any part of the crane.

## HYDRAULIC RAM COMPONENTS



## PARTS DIAGRAM



## ASSEMBLY

### NOTE:

a. *During assembly, unless otherwise stated, nuts and bolts should be finger tight only. They should be fully tightened, once assembly is completed, in the manner described below.*

b. *All figures in brackets, refer to the parts list item numbers.*

1. Attach the two castors to the Base using the bolts supplied, tighten the bolts securely.
2. Insert the Left Hand Leg (3) into its housing in the base, line up the holes and insert the pin (12), securing in place with the 'R' clip (13). Repeat the procedure for the Right Hand Leg (4).

### NOTE:

*The leg ends should be parallel when legs are correctly assembled.*

3. Attach the Main Column (1) to the base using the five nuts, bolts and washers provided.
4. With assistance, lift the Ram assembly and enter the lower mounting into its housing on the main support. Locate it using the Bolt (17), and secure the bolt with washer (16) and nut (28). Rest the ram against the main column.
5. With assistance, raise the jib (5) and slide it into position on top of the main column, locate it using the bolt (15), and secure the bolt with washer (16) and nut (28).
6. Lower the jib and position the ram so that its upper end slides into the housing on the jib. Line up the holes and locate it using the bolt (21), secure the bolt with washer (16) and nut (28).

### NOTE:

*It may be necessary to extend the ram slightly in order for the holes to line up. See 'Operation' for details of how to achieve this.*

7. Insert the jib extension (6) into the end of the jib and secure in one of the four positions using the Lock Pin and 'R' Clip (71).
8. Attach the hook and chain assembly (24) to the end of the jib extension using bolt (23) secure with washer (68) and nut (25). Tighten securely.
9. Bolt the Handle (14) onto the main column using the four bolts (20) with washers (19) and tighten securely.
10. Rock the assembly to ensure that no part is under stress, then tighten all nuts and bolts, ensuring they are completely secure.
11. To fold the legs, for storage purposes, first manoeuvre the crane to its storage location, then lower the stabilising foot and secure with bolt (10) and nut (11).
12. Remove the 'R' clips from the leg locking pins then remove the locking pins. Lift each leg to the vertical position, securing in place, again using the locking pins. Replace the 'R' clips.

### Warning

*It is not intended for the crane to be manoeuvred around the workshop in the storage position. However, if the crane MUST be moved this way, exercise extreme caution with regard to its stability*

## PREPARING FOR USE

1. Unfold the legs if necessary by reversing the procedure in paras, 11 and 12 on page 5.
2. With legs unfolded, release the base stabilising foot by unscrewing and re moving its retaining bolt and rotating it upwards until the bolt can be relocated, locking it in that position.
3. Select the required Jib Arm Length according to the load to be lifted.

**Note: Use the shortest jib length possible to give the greatest safety margin and extra stability.**

## OPERATION

1. When removing an engine ensure the vehicle is well supported and secure. All ancillary parts must be disconnected, i.e. exhaust system, speedo cable, electrics etc., and only lifting points recommended by the vehicle manufacturer should be used.
2. To raise the jib, first locate the slotted end of the pump handle on to the Hydraulic Pressure Release Nut at the base of the Ram assembly. Turn the nut clockwise until tight (**DO NOT OVERTIGHTEN a firm pressure only is required**), remove the handle and locate it in the pump collar. Pump the ram to raise the jib to the required height.
3. To lower the jib arm, locate the slotted end of the pump handle on to the pressure release nut and **VERY SLOWLY** turn in an anticlockwise direction. The jib will lower under its own weight. The more the handle is turned...the faster the rate of descent.

**EXERCISE GREAT CARE WHEN LOWERING HEAVY LOADS.**

**Clarke**  
INTERNATIONAL

## MAINTENANCE

### Before Use

Always inspect the crane for visible signs of damage, leaking hydraulic fluid, loose, worn, missing or broken parts etc.

#### Note:

**If the crane is subjected to any abnormal load or shock, it should be removed from service immediately and inspected by a local agent or Clarke International Service Division.**

### Daily

- a) check for tightness of all bolts, and pivoting joints for wear.
- b) lubricate wheels and bearings and inspect for cracks or other possible damage.
- c) inspect the hydraulic ram assembly for leaks and wipe with oily rag to prevent corrosion.

### Storage

When not in use, store the crane with the jib in its lowest position so there is no load on the ram and to prevent corrosion of the ram.

### To fill The Hydraulic Pump

With the ram fully retracted (in lowered position), remove vent plug (43), on side of cylinder (it may be necessary to disconnect ram from jib to access plug.

Top up to level of hole with Clarke hydraulic oil (pt. no. 3050830). Replace the plug and refit jib as described in the assembly instructions.

## SPARE PARTS AND SERVICING

Please contact your nearest dealer, or  
CLARKE International, on one of the following numbers.

**PARTS & SERVICE TEL: 020 8988 7400**

**PARTS & SERVICE FAX 020 8558 3622**

**or e-mail as follows:**

**PARTS: [Parts@clarkeinternational.com](mailto:Parts@clarkeinternational.com)**

**SERVICE: [Service@clarkeinternational.com](mailto:Service@clarkeinternational.com)**