



**ARROWQUIP**

# **Q-POWER 106 SERIES HYDRAULIC CATTLE CRUSH**

**PRODUCT MANUAL**

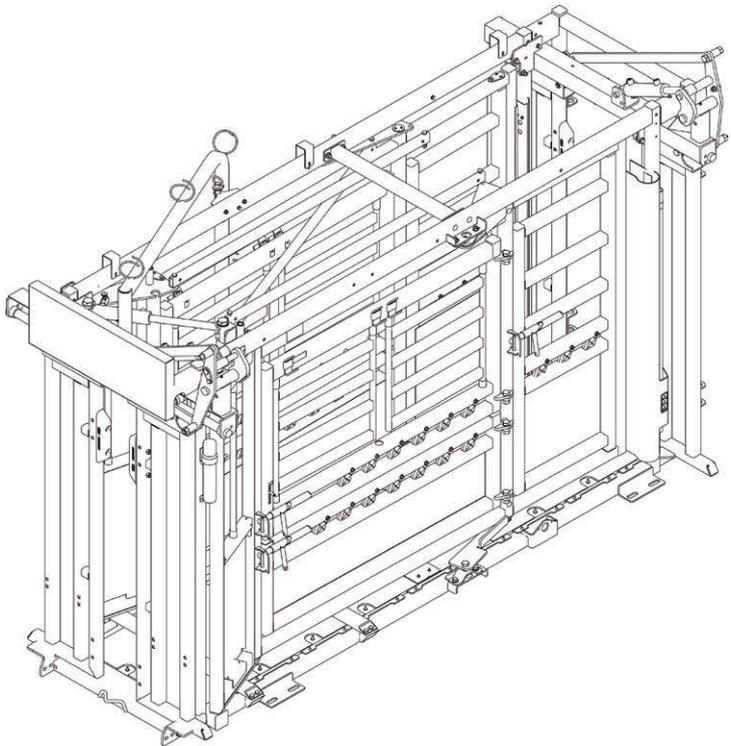
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# CONTENTS

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Safety Precautions	1
Risk Assessment	2
Q-Power 106 Series Hydraulic Cattle Crush Assembly	3
Power Failure	5
Operation of Yoke Gate	5
Cold Start	6
Recommended Maintenance	5
Troubleshooting Guide	7
Warranty	6



**PLEASE FOLLOW ALL SAFETY INSTRUCTIONS PROVIDED IN THIS MANUAL BEFORE OPERATION. ARROWQUIP DOES NOT ACCEPT RESPONSIBILITY FOR ANY ACCIDENTS OR INJURY WHEN THIS SAFETY MANUAL HAS NOT BEEN READ IN FULL AND KEPT WITH THE PRODUCT AT ALL TIMES. OPERATORS OF THIS PRODUCT TAKE AND ACCEPT RESPONSIBILITY FOR ANY HARM OR INJURY TO THE ANIMAL OR OPERATOR WHEN IT PERTAINS TO HOW THE EQUIPMENT IS USED AND MAINTAINED.**

Please keep this manual for frequent reference and to pass on to new users or owners.

## **SAFETY PRECAUTIONS**

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**PLEASE FOLLOW ALL SAFETY PRECAUTIONS OUTLINED HEREIN. ANY HARM TO THE ANIMAL OR INJURY TO THE OPERATOR WHICH OCCURS DUE TO HOW THE PRODUCT IS OPERATED, OR RESULTING FROM A LACK OF SAFETY PRECAUTIONS ARE THE SOLE RESPONSIBILITY OF THE OPERATOR.**

All farm machinery and equipment is potentially dangerous. Careless use of any Arrowquip livestock equipment may cause injury or damage to persons, cattle, or property. Arrowquip has taken precautions in the design and manufacturing of this product to ensure that it is safe and user-friendly. Therefore, user must assume all responsibility and risk associated with the possession and use of the equipment.



**WARNING: READ BELOW BEFORE OPERATION.**

Ensure the operator understands the contents of this manual before using the cattle crush.

1. Do not wear loose-fitted clothing.
2. Ensure the cattle crush is on a firm, level, dry surface that is free of rocks and other trip hazards. A level concrete pad flush with the ground and with the crush bolted to the concrete is strongly recommended.
3. Do not enter the vet cage until the animal is secured in the yoke gate and the rump bar has been placed so that the cow cannot back up.
4. Do not stand in front of the yoke gate while operator is moving the cattle through the cattle crush.

5. DO NOT ALLOW CHILDREN UNDER THE AGE OF 18 NEAR AN OPERATING MACHINE.
6. Follow safe cattle handling procedures in other areas of the yard so that cattle are more docile in the crush.
7. Do not make any modifications to Arrowquip equipment. Non-factory modifications to the equipment can reduce the safety for the operator and livestock.
8. DO NOT ALLOW CHILDREN UNDER THE AGE OF 18 TO USE THE HYDRAULIC EQUIPMENT.
9. Do not operate hydraulics while operators are working with the cattle in the crush or are touching the crush. Reaching out or into the crush while hydraulics are in operation can result in serious injury.
10. Please ensure that all hydraulic hoses and electrical leads are out of the way and safely positioned before moving cattle or using the crush.
11. Keep a distance of more than an arm's length from the hydraulic crush while hydraulics are in operation.

## **RISK ASSESSMENT**

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Conduct a risk assessment on procedures regarding the operation of an Arrowquip hydraulic cattle crush, establishing a safe work procedure.

1. Ensure all users of the equipment have been inducted and comply with safe working procedures.
2. Please ensure that the hydraulic crush is secured on firm ground.
3. Please ensure that there are no hazardous hydraulic cords or large objects within or around the crush where cattle and operator will be.
4. Please ensure that all hydraulics work properly before putting cattle through the crush.
5. Please make sure that all hydraulic hoses are properly secured to the hydraulic pump or tractor.
6. Ensure that the hydraulic controls are functioning properly. Specifically ensure that the adjustable side mechanism and the yoke gate are adjusting smoothly.
7. If hydraulics do not function properly when testing the equipment, DO NOT put cattle through the crush.
8. Ensure that access gates are closed securely before running cattle through the crush.

9. Some chemicals and medicines can damage powder coat. Take all precautions and wash after use.
10. Make sure your crush has been cleared of ALL livestock after use.

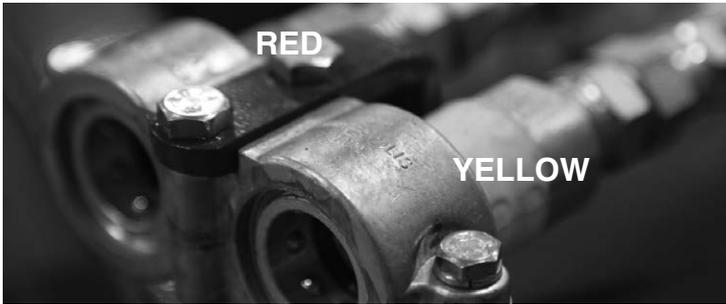
## **Q-POWER 106 SERIES HYDRAULIC CATTLE CRUSH ASSEMBLY**

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Your crush will come fully assembled with the options you have ordered already fitted to the crush. However, it will be necessary to connect the hydraulics to a tractor or power pack. The following guide will assist you in properly setting up your crush for use.

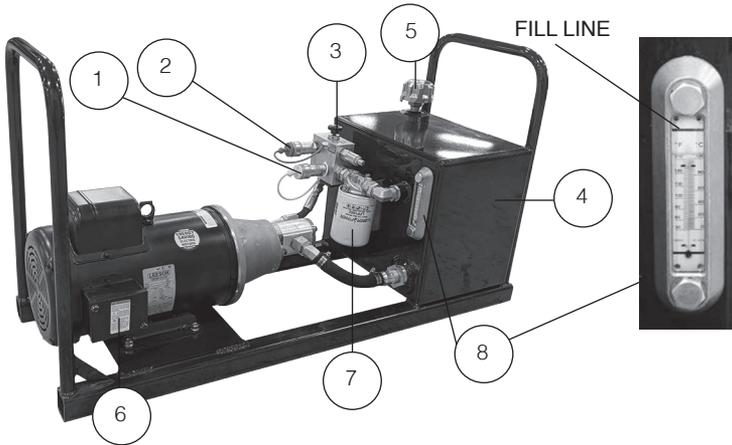
### **A. SETTING UP A HYDRAULIC CATTLE CRUSH**

1. Hydraulics are plug and play. Please ensure that the color code of the hoses matches to the quick connects. Rule of thumb: red is pressure, yellow is tank.
2. When hooking up the hoses, ensure the couplers are engaged and the female sleeve is snapped into place.
3. Ensure the tank hose is hooked into the tank ports at both ends, and the hose for pressure is hooked into the same parts as both ends.



## B. ELECTRIC POWER PACK

DO NOT ATTEMPT TO CONNECT THE ELECTRIC POWER PACK IF YOU ARE NOT A CERTIFIED ELECTRICIAN. For your safety, electric power packs must be connected and wired by a fully certified electrician.



1. TANK

2. PRESSURE

3. COLD START VALVE

A. UP = OPEN

B. DOWN = CLOSED

4. 10-GALLON RESERVOIR

5. FILLER CAP

6. ELECTRICAL HOOK-UP

7. OIL FILTER (RECOMMENDED  
REPLACEMENT EVERY 12 MOS.)

8. SITE GLASS TEMP AND OIL LEVEL

### ADDITIONAL INFORMATION

- 5 HP 220V- #4-6 AWG WIRE

- 50 AMP BREAKER

- CLOCKWISE ROTATION

- P1: LEAD 1

- T4 & T8: LEAD 2

- T1 & T5L MARRET TOGETHER



**DO NOT CONNECT MOTOR TO POWER SOURCE WITHOUT  
CONNECTING PRESSURE AND TANK HOSES TO UNIT.  
SEVERE DAMAGE MAY OCCUR.**

## **POWER FAILURE**

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### **PLEASE READ BELOW IN CASE OF POWER FAILURE**

If you should experience a loss of power while you have an animal in the crush, please follow the instructions below:

1. Disconnect the hydraulic hoses from the power unit.
2. Operate the hydraulic levers to allow fluid to flow out of the cylinders and release the pressure on the animal.
3. Check to make sure that the animal is free of any injury.

## **OPERATION OF YOKE GATE**

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1. Ensure all gates and the yoke gate are closed before the animal enters the crush.
2. Open rear gate for the animal to enter the cattle crush enclosure.
3. Close rear gate.
4. Open yoke gate slightly more than the neck size of the animal to tempt the animal to stick its head through the yoke gate. When neck of animal is in the correct position, quickly close the yoke gate securely on the animal's neck.
5. If required, side squeeze animal and engage head restraint to restrain further movement.
6. If the animal applies excessive pulling pressure on yoke gate, it is recommended to use the anti-backing bar behind cattle rump.
7. Confirm animal is securely held before carrying out any husbandry work.

## **COLD START**

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When locked in the up position, the cold start allows the oil to circulate within the power pack to warm the oil, allowing for faster flow rate to the crush.

When locked in the down position, it is engaged to run the crush.

# RECOMMENDED MAINTENANCE

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Arrowquip cattle crushes are made with precision parts and require little maintenance as a result. However, regular maintenance is required to keep your crush running smoothly and safely.

## A. MAINTENANCE

1. Grease cylinders and zerks on a regular basis.
2. Lubricate slam latches, lube bolts, door hinges regularly with WD-40. Recommended every six months, minimum.
3. Clean bottom yoke gate door track to prevent dirt build-up.
4. Check mechanism pivot bolts for wear and lubricate or replace, as necessary.
5. Clean and lubricate main locking shaft doors regularly.
6. Inspect for signs of mechanical damage regularly, specifically to gate latches and striker plates, and ensure gates are locking securely.

## B. MAINTENANCE SAFETY

1. Please be sure the area is clear of bystanders, especially children, when doing any maintenance or repair on the hydraulic crush.
2. Keep all body parts, including hair, hands, feet, etc., away from the machine when hydraulics are in operation.
3. Before carrying out any maintenance on the cattle crush, please ensure there are no livestock in the crush.
4. Please DO NOT repair the crush or go into the crush when hydraulics are in operation. This can result in injury to the worker.

# TROUBLESHOOTING GUIDE

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If you have a problem with your Q-Power cattle crush, please consider the following pointers or call us at +44 (0)1530 632002.

1. To ensure proper operation make sure yoke gate is situated on level ground or base.
2. Make sure yoke gate door tracks are free of debris.
3. Keep floors clean. Excess build-up of manure or dirt inside crush can cause the squeeze and yoke gate to malfunction.

## OTHER PROBLEMS

### PROBLEM: PUMP IS NOT BUILDING PRESSURE

#### SOLUTIONS:

1. Try screwing relief on the valve all the way in and then back out. Keep track of turns.
2. Check that the oil level is correct in the sight glass.
3. Make sure that both couplers are engaged, and the female sleeve is snapped into place.
4. Ensure fan on motor is turning clockwise.
5. If the cold start valve is stuck in the open/up position, turn the valve one quarter turn and pin should slide down deeper.
6. If it sounds like the motor is not laboring, there is a very small possibility that the key on the shaft broke, and it is not turning the pump.
7. If the relief valve has a piece of debris in it, turning the valve in an out it should free it and cause it to by-pass.
8. Make sure hoses are hooked up correctly and align with the P and T on both the power pack and the cattle crush.
  - a. Note: 'P' is left and 'T' is right.

## WARRANTY

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**Your product must be registered to claim warranty**, and to ensure that Arrowquip has the required information to contact you in the event of a product or part recall. Any owner who fails to register their product warranty with Arrowquip through their Authorised Arrowquip Dealer voluntarily voids their warranty. Arrowquip will repair or replace products or parts of a product that prove defective due to manufacturer defect during the Warranty Period, at their sole discretion. This excludes defects resulting from normal wear and tear or product misuse. NOTE: Any modification, in any fashion, to any Arrowquip equipment immediately voids the product warranty. This includes the parts contained therein.

E.g. If a modification is made to the squeeze mechanism in a cattle crush, and the sternum bar is bent afterwards, warranty for the damaged part, the sternum bar, contained in the modified equipment, the cattle crush, is void. In addition, any remaining warranty for the cattle crush and other parts contained therein, including, but not limited to, the yoke gate, locking system, Q-Catch system, and rollers, is null and void.

**REGISTER FOR WARRANTY NOW:**

**Online:** [arrowquip.co.uk/product-registration](http://arrowquip.co.uk/product-registration)

**Phone:** +44 (0)1530 632002 | **Email:** [cs@arrowquip.com](mailto:cs@arrowquip.com)



**ARROWQUIP**

If you have any questions regarding your product or require assistance, please contact Arrowquip's Client Care Team at 1-877-275-6075 or by email at [cs@arrowquip.com](mailto:cs@arrowquip.com).