



Quick Coupler WHEEL LOADER & GRADER

A *CLW* Company

www.imac.ca

**QUICK COUPLE ONTO ALMOST ANYTHING IN SECONDS
WITHOUT LEAVING THE CAB**



For Wheel Loaders & Motor Graders
• All Brands • All sizes

Use IMAC Attachments or adapt others

- Cable Reelers
- Manual Angle Dozers
- Hydraulic Angle Dozers
- General Purpose Buckets
- Specialty Buckets
- Pallet Forks
- Log Grapples
- Barrel Handlers
- Tire Manipulators
- Jib Booms
- Pipe Forks
- Brooms
- Rail Car Couplers
- Fifth Wheel Trailer Hitches



NOTE: Many attachments interchange between various brands of machines in the same size range. Consult IMAC for details.

Quick Coupler Operation:

- 1) Approach the attachment with the Quick Coupler rolled forward.
- 2) Engage the coupler top bar with the attachment hooks.
- 3) Lift the back of the attachment off the ground by raising the loader arms.
- 4) Roll the Quick Coupler back until the attachment is firmly seated.
- 5) Operate the lock cylinder valve to engage the lock pins.
- 6) Check to insure both lock pins are fully engaged.

Powering the Lock Pin Cylinder:

There are four basic hookups for powering the Quick Coupler Lock Pin Cylinder.

- 1) The machine's third valve using a set of jump hoses called a **Third Valve Connecting Kit**.
- 2) An **Electric Pump Kit** when there is no third valve or machine based hydraulic supply.
- 3) A **Third Valve Connecting Kit with Power Beyond**, used where there is a hydraulic function on the attachment.
- 4) **Roll Back Diverter Valve** used in place of either #1 or #2 above.

Third Valve Connecting Kit:

The machine's third valve (auxiliary valve), if present on the machine, can be used to power the quick coupler pin puller cylinder. This piping system makes no allowance for powering attachments which have hydraulic functions. The kit consists of all jump hoses and fittings required to connect the quick coupler to the machine's third valve boom pipes. (Boom pipes must terminate at the lower end of the lift arms.)

Electric Pump Kit:

For application on machines that do not have an auxiliary valve available to operate the pin puller cylinder. Particularly suited where attachments with no hydraulic functions (i.e. buckets, forks, jib booms...) are being used. The kit consists of a 12 V or 24 V self contained electric hydraulic power unit c/w control switch, hoses and fittings for a simple, economical installation.

3 RD Valve Power Beyond Kit:

For use when one auxiliary valve is to be used for powering both the Quick Coupler pin puller cylinder and attachments with hydraulic functions, (i.e. Log grapples, 4:1 buckets, side dump buckets). The kit consists of all jump hoses, fittings and hydraulic quick disconnects to connect the machine's third valve (auxiliary valve) boom pipes to the quick coupler and the hydraulically actuated attachment. (Boom pipes must terminate at the lower end of the lift arms.)

Quick Disconnect fittings are positioned to make an easy switch between the Quick Coupler and the hydraulic attachment. A manual ON/OFF valve is provided to lock out the pin puller cylinder when a hydraulic attachment is in use.

Roll Back Diverter Valve:

A low cost option utilizing the machine's hydraulic system to power the lock pin cylinder where no third valve is available and an Electric Pump Kit is not desirable. For this system a solenoid valve diverts oil flow from the rollback cylinder to a directional control valve which operates the pin puller cylinder. In operation, the attachment is rolled back, then the solenoid switch is activated. Oil from the rollback circuit is now controlled by the directional control valve to operate the pin puller.