

# HYDRAULIC COUPLER



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# HYDRAULIC PIN GRAB

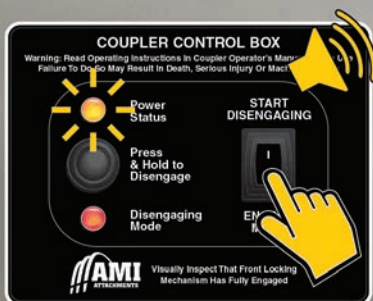
## THE PRESSURE IS ALWAYS ON FOR SAFETY

By applying constant system pressure direct from the main pump to the locking cylinder, that statement couldn't be truer for the AMI Hydraulic Pin Grab Coupler. Constant system pressure is a significant safety advantage for your crew and is one of many ingenious safety features of the AMI Hydraulic Pin Grab Coupler. Connecting and disconnecting attachments quickly, and now safely, provides measurable jobsite productivity.

Take the pressure off your safety record and put it where it counts, inside the locking cylinder of the AMI Hydraulic Pin Grab Coupler.

## 2 STAGE IN CAB CONTROLS

Easy to use and designed to prevent unintentional release, the in-cab controls require two unique actions to activate the hydraulic coupler's unlocking sequence.



**1.** Start the process by switching the engage mode on. The power status signal indicates that power is on accompanied by a continuous audio alarm.

**2.** Within 5 seconds, press and hold the disengage button for 2 seconds. After 5 seconds the control box times out preventing unintentional activation.

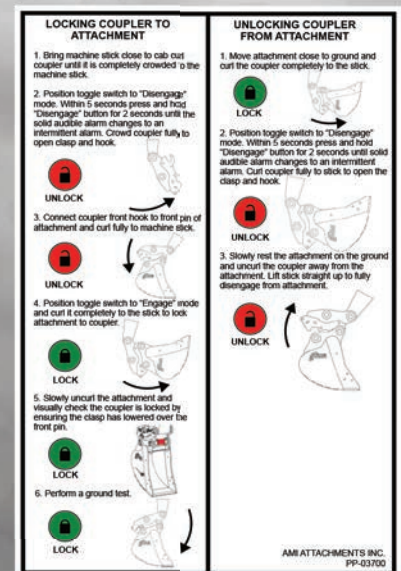
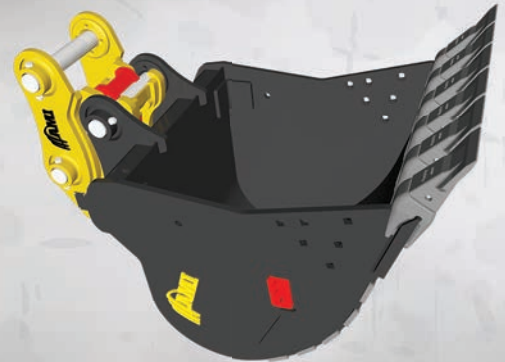
**3.** The Disengaging Mode signal light flashes, indicating the directional valve has now switched hydraulic pressure to the disengage side of the cylinder.

**4.** The audio alarm is now intermittent until the engagement switch is returned to Engaged Mode.

**5.** Hydraulic pressure is now ready to release the coupler however the pressure lock is required, ensuring the bucket is safely positioned before releasing.

## SAFE BUCKET POSITION REQUIRED

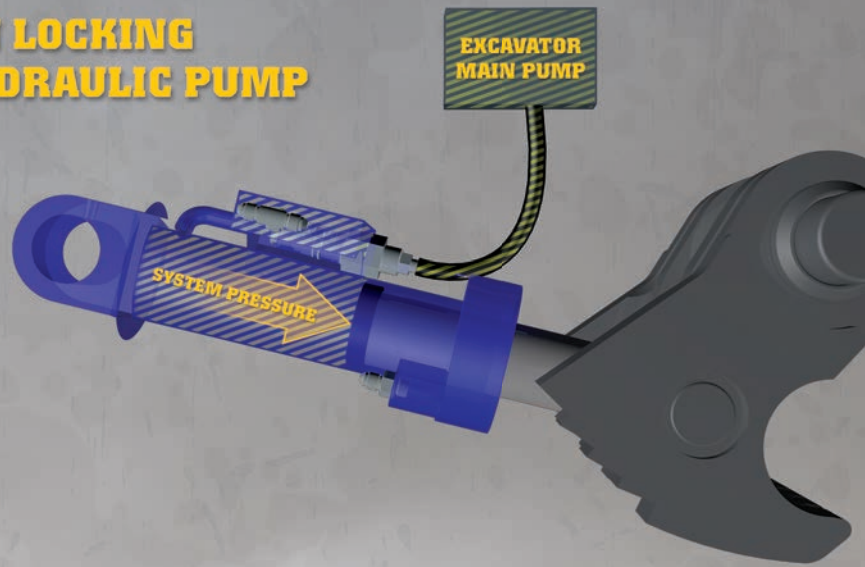
Engaging the coupler's unlock circuit requires hydraulic pressure that is only achieved when fully curling the bucket. At full curl, the bucket is now safely resting in the coupler's front clip without risk of falling off unexpectedly.





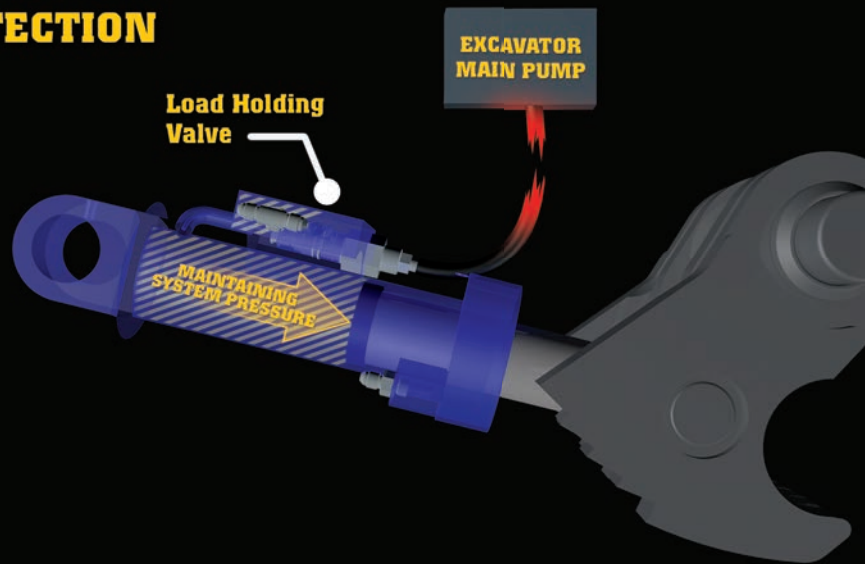
## CONSTANT SYSTEM PRESSURE ON LOCKING CYLINDER DIRECT FROM MAIN HYDRAULIC PUMP

Included with AMI Hydraulic Pin Grab Couplers are dedicated hydraulic lines connected to your machine's main hydraulic pump. These lines continuously provide full system pressure direct to the coupler's locking cylinder. Since full system pressure is always applied there is no risk of hydraulic pressure slowly slacking off and giving way. The locking cylinder is always holding tight at full system pressure.



## COMPLETE SYSTEM FAILURE PROTECTION

In the accidental event that your machine completely loses system pressure, the AMI Hydraulic Pin Grab Coupler keeps you safe by maintaining hydraulic pressure inside the locking cylinder. Integrated into the locking cylinder is a load holding valve that preserves the hydraulic pressure, keeping the attachment locked tight to the coupler. Strong hydraulic pressure is required to activate the cylinder unlock which cannot occur until system pressure is regained.



## MECHANICAL SAFETY LOCK

Further ensuring safe operation of the AMI Hydraulic Pin Grab Coupler is the most innovative and reliable automatic safety lock available. The mechanical safety lock fully secures both pins from the possibility of disconnection and does not rely on the operator to physically insert a pin. Using a spring-loaded hydraulic cylinder, the safety naturally stays in the locked position and requires hydraulic pressure to deactivate.



## AMI COUPLER PIN RANGE SPEC CHART

Class	Pin Diameter	Minimum Attachment Width (mm)	Minimum Attachment Width (in)	Pin Range min - max (mm)	Pin Range min - max (in)
130 - 60/65	60 mm	214.6 mm	8.451 in	352 - 406 mm	13.8 - 16.0 in
	65 mm	214.6 mm	8.451 in	359 - 422 mm	14.1 - 16.6 in
150 - 70/80	70 mm	271.6 mm	10.695 in	380 - 465 mm	14.9 - 18.3 in
	80 mm	271.6 mm	10.695 in	388 - 471 mm	15.3 - 18.5 in
200 - 080	80 mm	294.6 mm	11.600 in	435 - 493 mm	17.1 - 19.4 in
	80 mm	319.6 mm	12.585 in	442 - 516 mm	17.4 - 20.3 in
300 - 90/100	90 mm	319.6 mm	12.585 in	457 - 532 mm	18.0 - 20.6 in
	90 mm	339.7 mm	13.372 in	488 - 567 mm	19.2 - 22.3 in
300 - 100/110	100 mm	339.7 mm	13.372 in	501 - 588 mm	19.7 - 23.1 in
	100 mm	402.8 mm	15.860 in	519 - 604 mm	20.4 - 23.8 in
400 - 100/110	110 mm	402.8 mm	15.860 in	534 - 625 mm	21.0 - 24.6 in
	100 mm	356 mm	14.017 in	523 - 632 mm	20.6 - 24.9 in
	110 mm	356 mm	14.017 in	535 - 641 mm	21.0 - 25.2 in

\*Note: Class 650 & 750 dedicated/custom couplers available on request.

### ENGINEERED LIFTING EYE

Designed and welded as part of the coupler, the lifting eye is engineered to meet the lifting weight capabilities specified by your excavator's manufacturer.



### MINIMUM ATTACHMENT WIDTH



**Authorized Dealer**



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REVISED SEPT 2023  
EEC1231187 PRINTED IN CANADA