



Cat[®] Fusion™ Coupler System

WHEEL LOADERS

FEATURES:

Improved Machine Performance

- New, patented Wheel Loader interface provides performance virtually identical to pin-on, and all the flexibility of a quick coupler system.
- The Fusion™ coupler sits back, close in to the loader arms — minimizing offset, enabling increased machine performance.

Unsurpassed Durability

- An advanced wedging mechanism creates a tight, rattle-free fit. This patented lock up system eliminates play and wear — resulting in a long service life.

Increased Visibility

- A new, open coupler frame design clears sight lines from the operator's seat, making it easier than ever before to engage and disengage attachments with certainty.

Wide Range of Job Site Solutions

- The Fusion Coupler System work tool assortment gives many abilities and options to a single machine — or a whole fleet of Wheel Loaders — increasing production on the job site.

Common Interface Compatibility

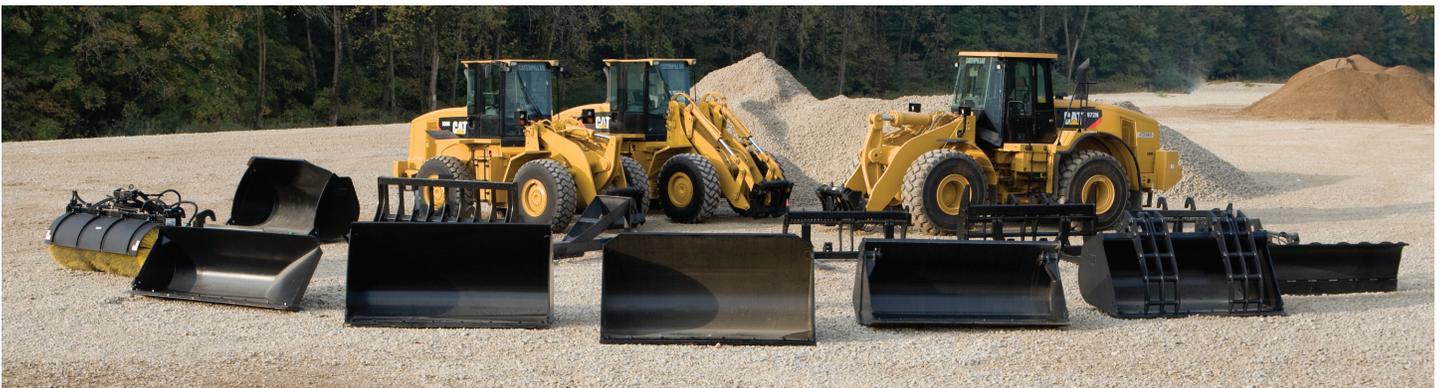
- The Fusion Coupler System gives Caterpillar customers one common interface — eliminating the need for many different couplers across the entire range of small and medium wheel loaders.
- This expanded machine compatibility not only allows one machine to use a range of work tools, but also allows one work tool to be picked up by machines of many different sizes.

Machine Compatibility

- The Fusion interface is designed to work on machines sized from 924 through 972, including IT38 and IT62 loaders.* Each machine will have their own “optimal” bucket and fork recommendations. However, cross-machine compatibility will give our dealers and customers additional options. Fusion delivers flexibility and fleet options that no other coupler can.

- The Fusion Coupler System brings compatibility across a wide range of small and medium wheel loaders:

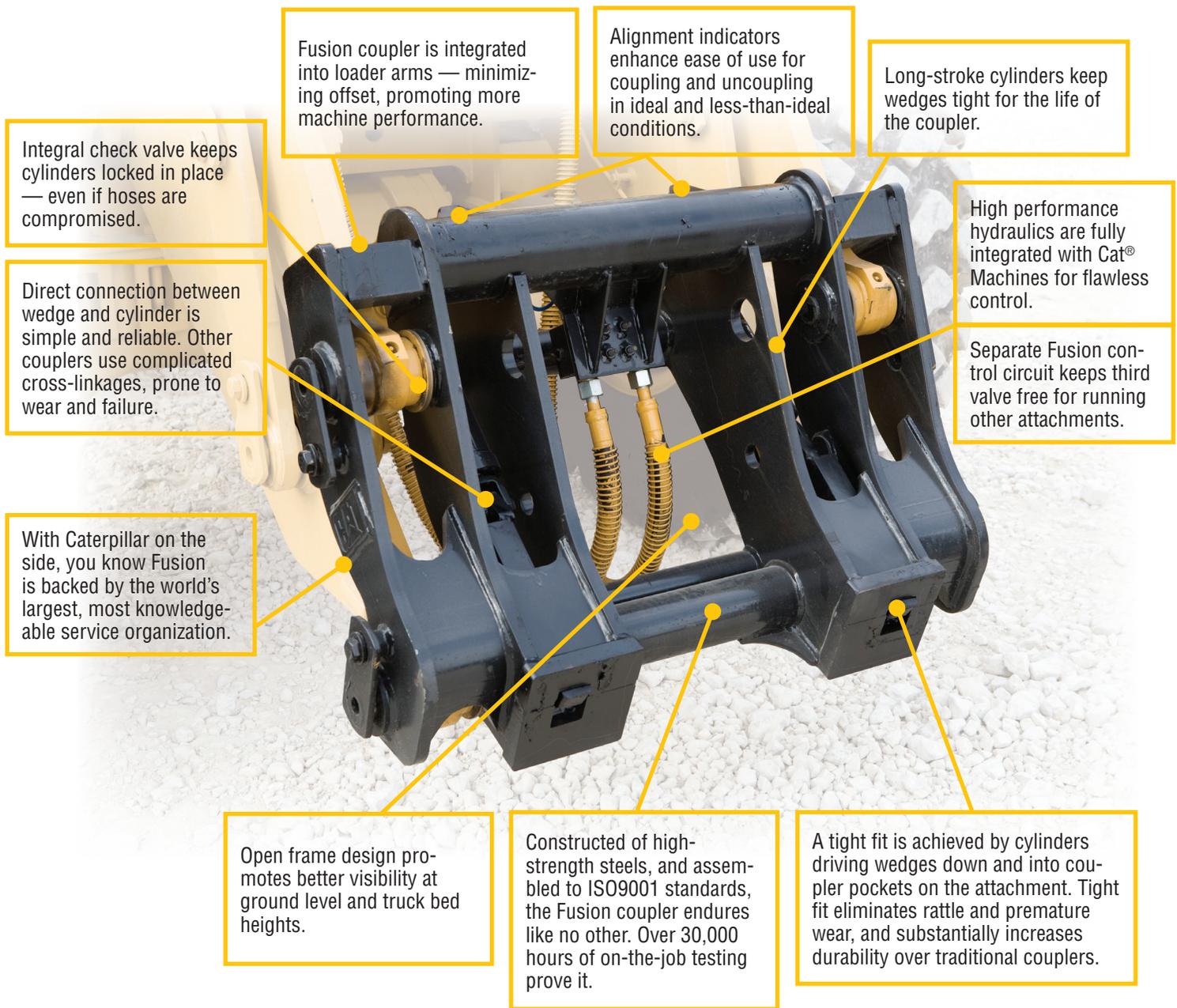
924	930	962	IT38
924z	938	966	IT62
928	950	972	



* The G Series, H Series and future Wheel Loaders

Cat Fusion Coupler System

Performance, Durability, Visibility, Flexibility



Fusion coupler is integrated into loader arms — minimizing offset, promoting more machine performance.

Alignment indicators enhance ease of use for coupling and uncoupling in ideal and less-than-ideal conditions.

Long-stroke cylinders keep wedges tight for the life of the coupler.

Integral check valve keeps cylinders locked in place — even if hoses are compromised.

Direct connection between wedge and cylinder is simple and reliable. Other couplers use complicated cross-linkages, prone to wear and failure.

High performance hydraulics are fully integrated with Cat® Machines for flawless control.

Separate Fusion control circuit keeps third valve free for running other attachments.

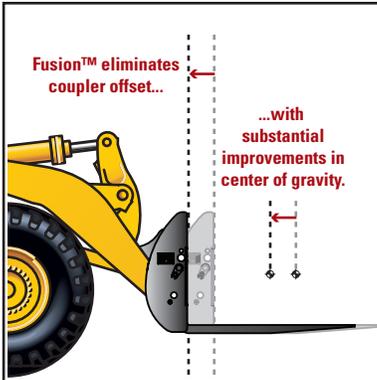
With Caterpillar on the side, you know Fusion is backed by the world's largest, most knowledgeable service organization.

Open frame design promotes better visibility at ground level and truck bed heights.

Constructed of high-strength steels, and assembled to ISO9001 standards, the Fusion coupler endures like no other. Over 30,000 hours of on-the-job testing prove it.

A tight fit is achieved by cylinders driving wedges down and into coupler pockets on the attachment. Tight fit eliminates rattle and premature wear, and substantially increases durability over traditional couplers.

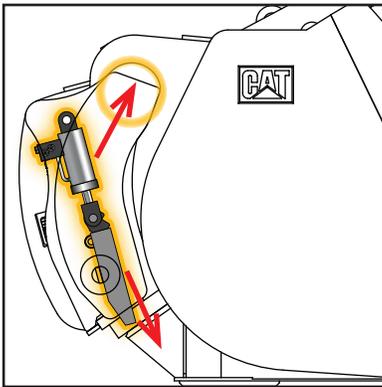
No Loss of Performance



This new, patented interface provides coupler flexibility with performance virtually identical to pin-on.

Imagine lifting a hundred-pound box with your arms fully extended. Now, imagine lifting that same load close to your body. That's the genius of Fusion: designed to integrate the work tool and the machine by pulling the coupler and tool closer to the wheel loader. As a result, the center of gravity is moved inward, towards the machine. This translates to increased lifting ability when compared to machines equipped with competing coupler systems.

Designed for Durability



The advanced wedging mechanism of the Fusion Coupler creates a tight, rattle-free fit. This new lock up system eliminates play and wear — resulting in a long service life.

Wedges pull the attachment tight to the machine in two directions — in and down. Constant hydraulic pressure on the coupler wedges compensates for wear, assuring a tight fit throughout the life of the coupler. Tight fit gives better tool control and increased productivity. Plus, coupler durability is substantially increased over traditional couplers.

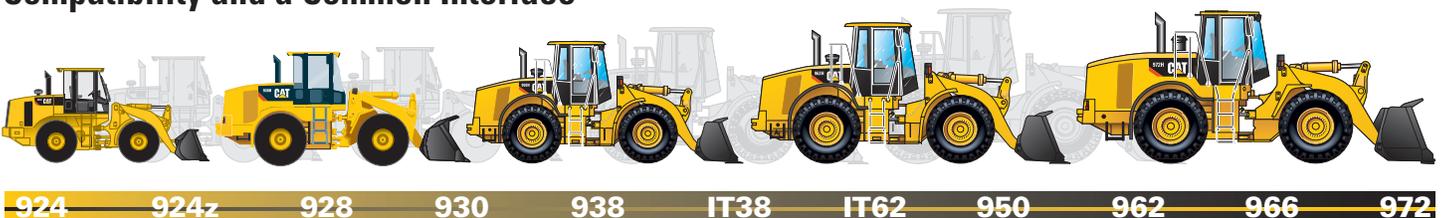
Increased Visibility



A new, open coupler frame design opens sight lines from the operator's seat, making it easier than ever before to engage and disengage attachments with certainty.

Offset tines and other design changes to Fusion Pallet Forks, working in conjunction with the Fusion Coupler, increase visibility substantially at ground level and truck bed height when compared to traditional coupler and fork combinations.

Compatibility and a Common Interface



Cat Fusion Coupler System

Performance Series Buckets

Performance Series Buckets utilize a system-based approach to balance bucket shape against the machine's linkage, weight, lift and tilt capacities. The result is a bucket optimized for performance and productivity, and intended for use in production applications.

Performance Series Buckets for Wheel Loaders are designed for use in truck loading, stockpiling and load-and-carry applications. Performance is improved over current buckets in these production applications with materials such as sand, gravel and aggregates.



The Cat Fusion Coupler System includes a full line of buckets for use in a wide range of job site situations.



General Purpose

General Purpose Buckets provide good all-around performance for stockpiling, rehandling, excavating and bank loading. A heavy duty general purpose bucket can be used for more aggressive applications.

Sizes Available:

- Capacity: 1.80 to 5.00 m³ (2.40 to 6.50 yd³)
- Width: 2540 to 3201 mm (100 to 126 in.)



Material Handling

Material Handling Bucket is a flat-floor bucket used for handling stockpiled materials such as aggregates or other easy-to-load materials requiring moderate breakout force.

Sizes Available:

- Capacity: 1.80 to 5.20 m³ (2.40 to 6.75 yd³)
- Width: 2540 to 3201 mm (100 to 126 in.)



Coal/Light Material

Coal Buckets maximize productivity in loading and stockpiling coal and other materials of similar density.

Sizes Available:

- Capacity: 3.60 to 7.10 m³ (4.75 to 9.25 yd³)
- Width: 2777 to 3447 mm (109 to 136 in.)



Rock

Rock Buckets are designed for face or bank loading in mining or quarry applications. The spade-edge offers increased penetration in certain applications.

Sizes Available:

- Capacity: 2.90 to 3.60 m³ (3.75 to 4.75 yd³)
- Width: 2969 to 3255 mm (117 to 128 in.)



Scan here to see
Performance Series
Buckets in action!

Specialty Buckets



Multi-Purpose

Multi-Purpose Buckets have a unique four-way action that can load, strip top soil, bull doze, clamp pipe or large chunks of concrete, clean up debris, and many other tasks.

Sizes Available:

- Capacity: 1.50 to 3.10 m³ (2.00 to 4.00 yd³)
- Width: 2606 to 3220 mm (103 to 127 in.)

Side Dump

Side Dump Buckets dump both to the front and to the side of the machine — an advantage when working in tight quarters such as street work, tunnel construction and building levees.



Sizes Available:

- Capacity: 1.50 to 3.90 m³ (2.00 to 4.75 yd³)
- Width: 3047 to 3677 mm (115 to 145 in.)

High Dump

High dump buckets utilize dedicated dumping cylinders and a bottom hinge to “roll out” material. This bucket reaches up and over the sides of loading bins and truck sides, higher than ordinary bucket types.

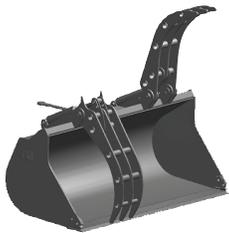


Sizes Available:

- Capacity: 2.10 to 6.10 m³ (2.75 to 8.00 yd³)
- Width: 2664 to 3059 mm (105 to 120 in.)

Grapple

Grapple Buckets are key producers in transfer stations, landfills and similar applications. Twin top clamps hold down paper, refuse and other loose material. With a top clamp bucket, the loader becomes a versatile material handling machine.



Sizes Available:

- Capacity: 2.30 to 4.60 m³ (3.00 to 6.00 yd³)
- Width: 2697 to 3048 mm (106 to 120 in.)

Waste

Waste Buckets are designed for long life in the harsh world of refuse applications. This high-capacity bucket is well-suited for loading, sorting and other transfer station work.

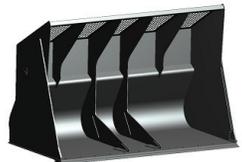


Sizes Available:

- Capacity: 3.00 to 6.50 m³ (4.00 to 8.50 yd³)
- Width: 2549 to 3323 mm (100 to 131 in.)

Woodchip

Woodchip Buckets are available for forestry and millyard applications.



Sizes Available:

- Capacity: 4.80 to 9.90 m³ (6.25 to 13.00 yd³)
- Width: 2777 to 3943 mm (109 to 155 in.)

Grading

Grading Bucket has a long, flat floor giving the operator complete visibility of the cutting edge. The shape of the bucket provides flexibility to scoop material, level or backfill.



Sizes Available:

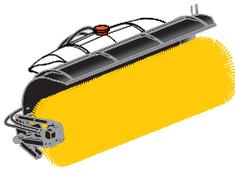
- Capacity: 1.80 to 1.90 m³ (2.35 to 2.50 yd³)
- Width: 2700 mm (106 in.)

Cat Fusion Coupler System

Brooms



Fusion brooms equip Cat Wheel Loaders for clean up on a wide range of job sites, and specialty cleaning tasks.



Angle

Cat Angling brooms cast dirt and debris forward or to either side for efficient cleanup. An optional water system controls dust. Ideal for clearing parking lots, industrial plants, millyards, streets, driveways and lanes.

The Special Application Broom is an angle broom with a unique floating suspension and high-strength design. This heavy duty broom is built for use in rugged sweeping situations such as sweeping dirt packed on pavement, coal seams, and sweeping in sewer and pipeline applications.

- Available in 2.5 and 3.0 meter widths.



Pickup

When debris must be contained and not merely swept aside, Pickup Brooms make a clean sweep. An integral hopper captures debris swept up by the rotating broom, for later dumping.

- Available in 2.5 meter width.

Forks



Forks are essential tools on any job site. Unload trucks, place material and load up again.



Pallet

No tools are so indispensable on the job site as pallet forks. Fusion Pallet Forks have an open frame design and offset tines. This offers maximum visibility to the tines at ground level and truck bed height.

Fusion pallet forks are designed to meet the needs of varying operator preferences. Forks can be configured to allow the tines to either swing or stay in a fixed position.

Sizes Available:

- 84" carriage with 48", 60", or 72" tines
- 96" carriage with 60", 72", 84" or 96" tines
- 108" carriage with 60", 72", 84" or 96" tines



Log & Lumber

Log and lumber forks utilize flat tines, a raised back and optional top clamps to secure and load loose logs or palletized lumber. Single or dual top clamps are available.

Sizes Available:

- 72" carriage with 48", 60", or 72" tines
- 84" carriage with 48", 60" or 72" tines
- 96" carriage with 48", 60", 72" or 96" tines



Pipe & Pole

Cat Pipe & Pole Forks are designed and built for use in oil and gas field drilling, pipe line construction and above-ground utilities work.

Cat Pipe & Pole Forks are perfect for transporting, loading and unloading long lengths of pipe and poles — either single or multiple pieces. The clamp can be positioned to secure 2" to 36" diameter pipe, or up and out of the way allowing the fork to handle other material.

Sizes Available:

- 108" or 123" carriage

Material Handling Arms



Material Handling Arms precisely place pipe, concrete blocks, highway dividers and other construction materials quickly — with maximum visibility and control. They provide superior performance when compared to chains-on-buckets or other improvised means. With a Material Handling Arm, the operator has full view of the load, job site and other workers. Work is faster and more efficient.

- Available with maximum extended lengths of 4585 and 4162 mm (180" and 164"); retracted lengths of 2562 and 3061 mm (101" and 120").

Plows



Plows are the perfect choice for road clearing and heavy snow removal.

Angle Plow

Angle plows for the Fusion system cast snow to whichever side needed; angling can be controlled hydraulically, or manually. Multiple widths are available. Some plows also offer a "trip" feature, protecting the plow and machine from impacts with manhole covers, curbs and similar obstacles.

- Available in 12' to 16' widths.

V-Plow

V-plows optimize snow removal operations with a heavy duty steel nose piece and divider to cut aggressively into heavy drifts and break up compacted snow. This plow is the perfect choice for road clearing and heavy snow removal.

- Available in 3069 and 3234 mm (120" and 126") cutting widths.

Rakes



Loader Rakes are durable, high-capacity tools for land clearing and site clean up. Rakes are available with single or dual top clamps.

- Available in raking widths 2146 to 3150 mm (84.5" to 124").

Cat Fusion Coupler System



Scan here to see the Fusion Coupler in action!

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

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