

Product Bulletin

July 2014
EAME and CIS

Cat® Work Tools for the Cat 924K, 930K and 938K Small Wheel Loaders

Buckets

- General Purpose
- Batch Plant Loader
- Light Material
- Multi-Purpose
- High Dump
- Grading Bucket

Forks

- Pallet
- Construction

Material Handling Arm

Brooms

- Special Application
- Angle
- Pickup

G.E.T.

Machine and Bucket Compatibility

- Quick Couplers
- Special Solutions
- Work Tool Portfolio for H and K Series
- Adapter and Hooks



For Dealer Sales Personnel

This document supplements information in the Specalog. Marketing content will be available only on secured dealer extranets and by accessing the PDF in the Electronic Sales Library.



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Caterpillar offers a wide range of work tools to fit the Small Wheel Loader. These work tools configure the machine to fit a wide range of applications, giving customers the efficiency and performance they demand.

This product bulletin provides comprehensive data on the full range of work tools offered for the 924K, 930K and 938K.



Buckets

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.

Performance Series is not a new bucket; it's a new bucket design philosophy that brings superior performance to production-oriented buckets. No matter what material you're loading, with an application-specific Performance Series bucket, your machine loads easily, carries more and is more fuel efficient.



Loads Easily. Performance Series buckets have a longer floor – easily penetrating the pile. Additionally, improved visibility to the load allows the operator to see when the bucket is full. Less time in the pile equals less fuel consumed. Performance Series Buckets also have higher fill factors, when compared with other buckets of the same rated capacity – up to 115%! More material can be moved with each pass, leading to better production over other similarly-sized buckets.

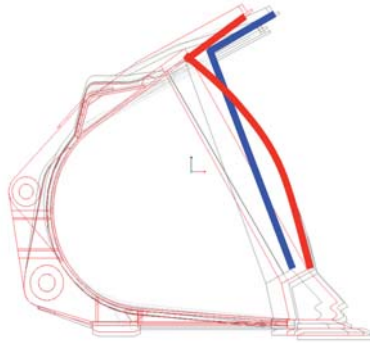
Carries More. Bucket shape, strike plane angle and curved side profile are designed for material retention and consistent load sizes. More material loads into the bucket and is carried all the way to the truck, hopper or stockpile. A spill guard diverts overflow away from hinge pins, lift arms, hydraulic cylinders and tilt sensors helping to protect these areas of the machine.

Fusion™ Coupler. The Fusion Coupler interface is a Caterpillar patented wheel loader coupler system that provides performance that is virtually identical to a pin on machine, with all the flexibility of a quick coupler system. The Fusion coupler minimizes the distance between the work tool and the tires and brings the center of gravity closer to the machine for improved stability and increased lifting capacity compared to other coupler systems. The Fusion coupler uses an advanced constant pressure wedging system that provides a tight rattle free fit. This reduces wear on components and work tools.

Performance Series Buckets – Load Easy, Carries More



- Opened throat
- Longer floor
- Curved sidebar

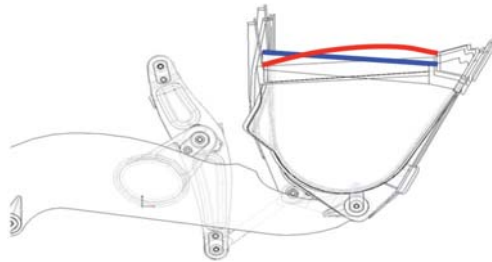
 **Performance Series**
 **Current General Purpose**



- More truckloads per hour
- Fewer passes per truck, regardless of skill level

- More rackback
- Improved strike plane

 **Performance Series**
 **Current General Purpose**

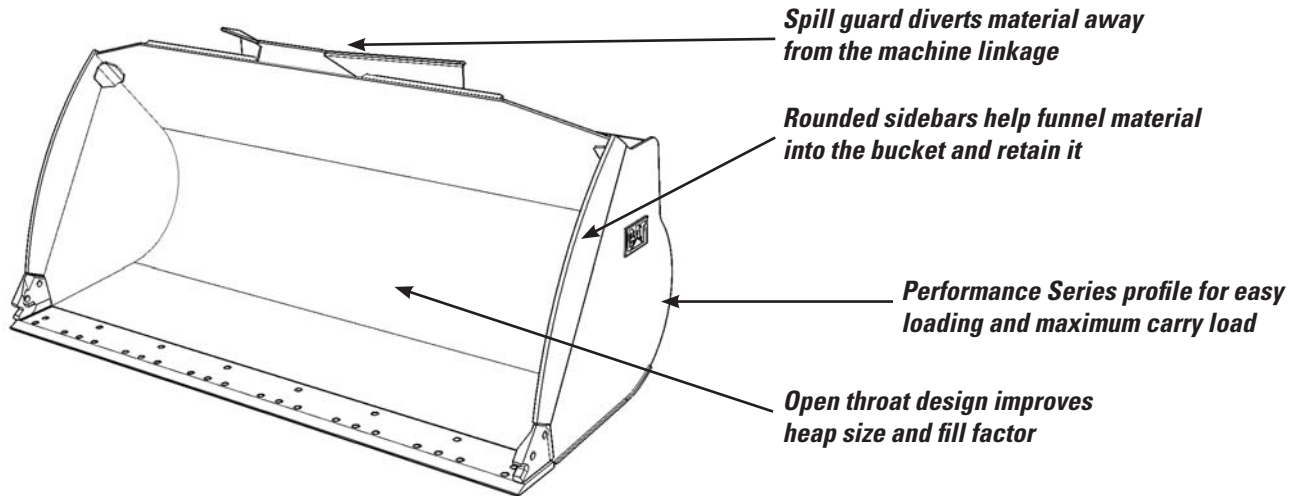


- Better sight lines
- Faster load cycle
- Less skill to fill

Buckets

General Purpose – Performance Series

General Purpose Buckets provide good all-around performance for stockpiling, re-handling, excavating and bank loading. As the name suggests, these buckets work well in loading from stockpiles as well as bank loading. They are designed for standard breakout forces and abrasion conditions.

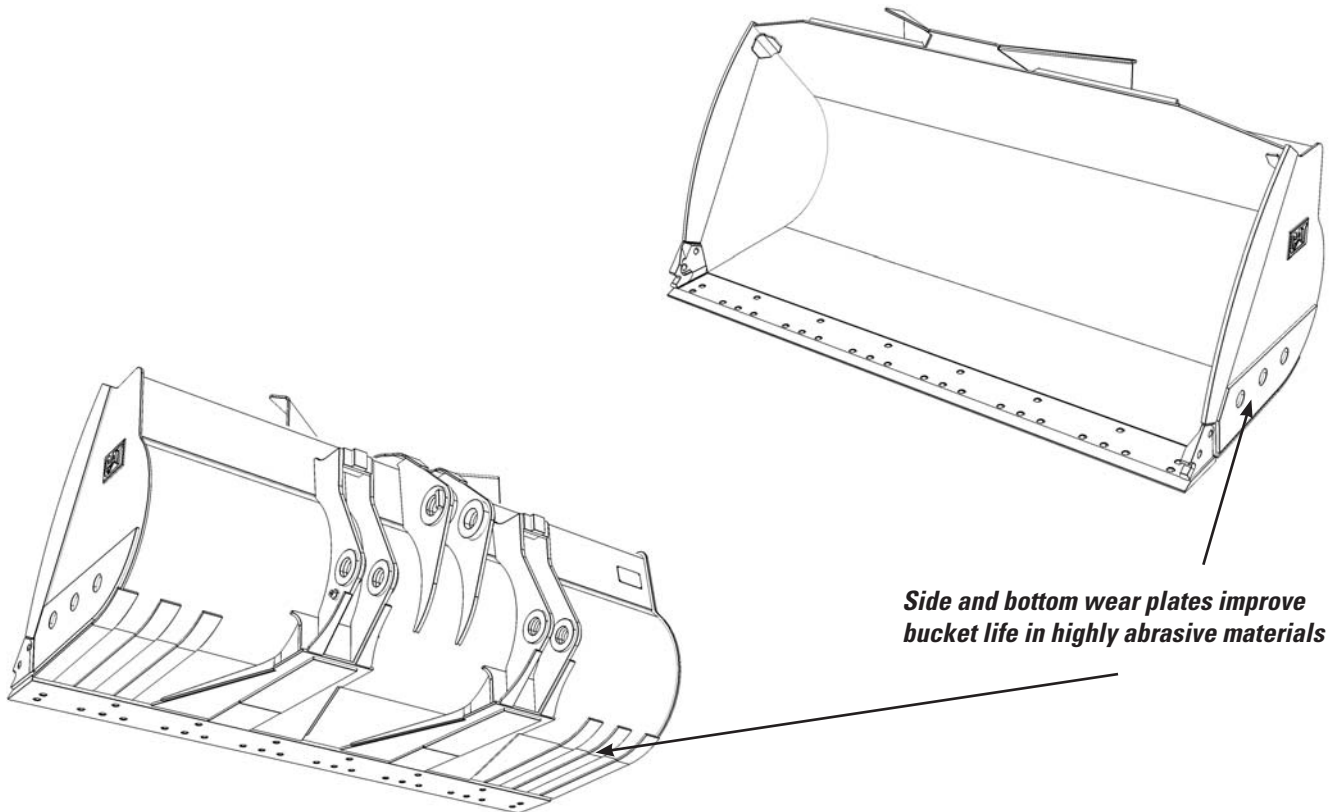


Specifications. The table below lists the general specifications for the General Purpose Buckets. Please refer to SWL K Series specalog for performance specifications.

Interface	Part No.	Compatibility	Width		Capacity				Weight	
			mm	(in)	Bare or with Adapters		With BOCE or Adapters and Segments		kg	(lb)
					m ³	(yd ³)	m ³	(yd ³)		
Pin On	345-2818	924K/930K	2550	(100)	1.8	(2.4)	1.9	(2.5)	812	(1,786)
	345-2820	924K/930K	2550	(100)	2.0	(2.6)	2.1	(2.7)	856	(1,883)
	345-2822	924K/930K	2550	(100)	2.2	(2.9)	2.3	(3.0)	893	(1,965)
	345-2824	924K/930K	2550	(100)	2.4	(3.1)	2.5	(3.2)	979	(2,154)
	345-2816	938K	2550	(100)	2.6	(3.4)	2.7	(3.5)	968	(2,134)
	345-2804	938K	2750	(108)	2.4	(3.1)	2.5	(3.2)	979	(2,154)
	345-2826	938K	2750	(108)	2.6	(3.4)	2.7	(3.5)	1023	(2,251)
	345-2828	938K	2750	(108)	2.8	(3.7)	2.9	(3.8)	1059	(2,330)
Fusion	345-2418	924K/930K/938K	2550	(100)	1.8	(2.4)	1.9	(2.5)	775	(1,705)
	360-3320	924K/930K/938K	2550	(100)	2.0	(2.6)	2.1	(2.7)	827	(1,819)
	360-3322	924K/930K/938K	2550	(100)	2.2	(2.9)	2.3	(3.0)	864	(1,901)
	345-2424	924K/930K/938K	2550	(100)	2.4	(3.1)	2.5	(3.2)	963	(2,119)
	360-3336	924K/930K/938K	2550	(100)	2.6	(3.4)	2.7	(3.5)	961	(2,118)
	345-2784	924K/930K/938K	2750	(108)	2.4	(3.1)	2.5	(3.2)	964	(2,121)
	345-2426	924K/930K/938K	2750	(108)	2.6	(3.4)	2.7	(3.5)	1007	(2,215)
	345-2428	924K/930K/938K	2750	(108)	2.8	(3.7)	2.9	(3.8)	1042	(2,292)
ISO	360-3256	924K/930K/938K	2550	(100)	2.0	(2.6)	2.1	(2.7)	792	(1,746)
	360-3257	924K/930K/938K	2550	(100)	2.2	(2.9)	2.3	(3.0)	828	(1,825)
	371-2390	924K/930K/938K	2750	(108)	2.4	(3.1)	2.5	(3.2)	915	(2,017)
	360-3258	924K/930K/938K	2750	(108)	2.6	(3.4)	2.7	(3.5)	959	(2,114)
	371-2391	924K/930K/938K	2750	(108)	2.8	(3.7)	2.9	(3.8)	995	(2,194)

Sand and Gravel

Sand and Gravel Buckets are designed for aggregate handling in batch plant loader applications.



Side and bottom wear plates improve bucket life in highly abrasive materials

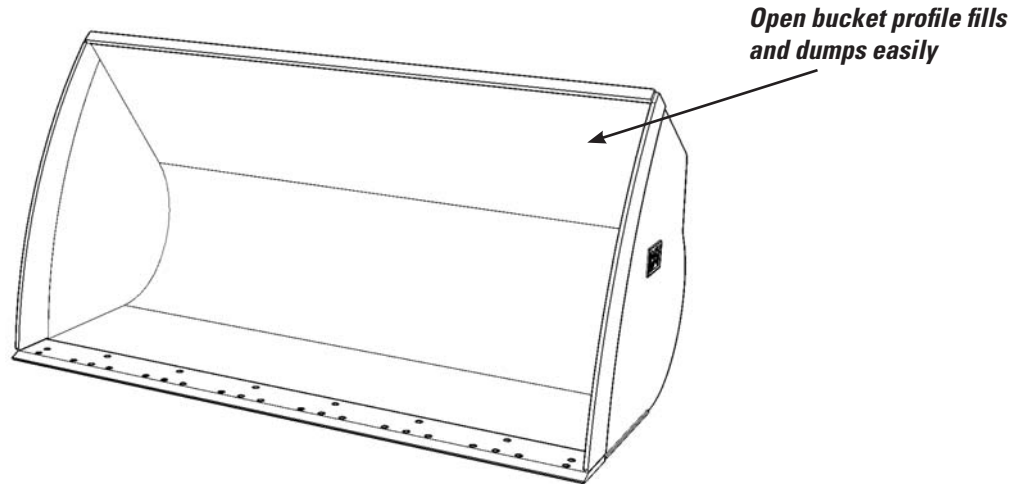
Specifications. The table below lists the general specifications for the Sand and Gravel Buckets.

Interface	Part No.	Compatibility	Width		Capacity				Weight	
					Bare or with Adapters		With BOCE or Adapters and Segments			
			mm	(in)	m ³	(yd ³)	m ³	(yd ³)	kg	(lb)
Pin On	430-3300	924K/930K	2750	(108)	2.4	(3.1)	2.5	(3.3)	1026	(2,262)
	360-3309	924K/930K	2750	(108)	2.6	(3.4)	2.7	(3.5)	1067	(2,347)
	360-3311	924K/930K	2750	(108)	3.1	(4.0)	3.2	(4.1)	1147	(2,523)
	360-3308	938K	2750	(108)	2.6	(3.4)	2.7	(3.5)	1075	(2,365)
	360-3310	938K	2750	(108)	3.1	(4.0)	3.2	(4.1)	1146	(2,521)
Fusion	451-1403	924K/930K/938K	2750	(108)	2.4	(3.2)	2.5	(3.3)	1011	(2,228)
	451-1404	924K/930K/938K	2750	(108)	2.6	(3.4)	2.7	(3.5)	1059	(2,335)
	451-1405	924K/930K/938K	2750	(108)	3.1	(4.0)	3.2	(4.1)	1127	(2,485)

Buckets

Light Material

Light Material Buckets are designed with larger capacity for light density material applications in Agriculture, Waste and other segments. These applications generally require moderate to light breakout forces.

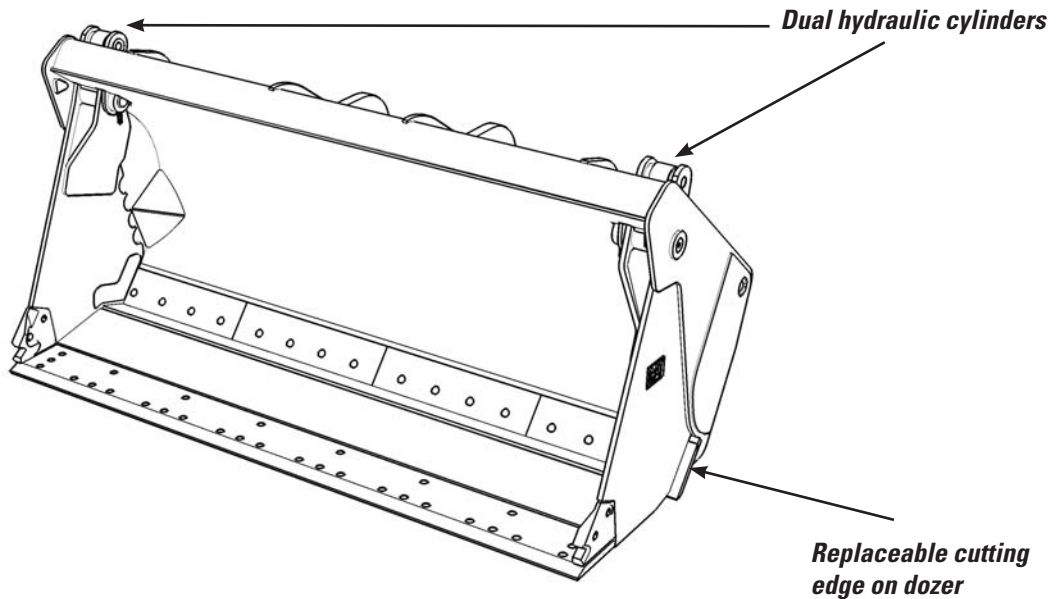


Specifications. The table below lists the general specifications for the Light Material Buckets. Please refer to SWL K Series specalog for performance specifications.

Interface	Part No.	Compatibility	Capacity							
			Width		Bare or with Adapters		With BOCE or Adapters and Segments		Weight	
			mm	(in)	m ³	(yd ³)	m ³	(yd ³)	kg	(lb)
Pin On	441-4450	924K/930K	2750	(108)	3.0	(3.9)	3.1	(4.0)	1096	(2,416)
	345-2764	924K/930K	2750	(108)	3.4	(4.4)	3.5	(4.5)	1181	(2,598)
	441-4465	924K/930K	2750	(108)	3.7	(4.8)	3.8	(5.0)	1244	(2,742)
	345-2770	924K/930K	2750	(108)	4.1	(5.4)	4.2	(5.5)	1315	(2,893)
	345-2766	930K	2750	(108)	4.9	(6.4)	5.0	(6.5)	1383	(3,043)
	360-3315	938K	2750	(108)	3.4	(4.4)	3.5	(4.5)	1178	(2,596)
	441-4470	938K	2750	(108)	3.7	(4.8)	3.8	(5.0)	1305	(2,876)
	360-3316	938K	2750	(108)	4.1	(5.4)	4.2	(5.5)	1313	(2,895)
	360-3317	938K	2750	(108)	4.9	(6.4)	5.0	(6.5)	1378	(3,038)
Fusion	441-4460	924K/930K/938K	2750	(108)	3.0	(3.9)	3.1	(4.0)	1075	(2,370)
	345-2760	924K/930K/938K	2750	(108)	3.4	(4.4)	3.5	(4.5)	1161	(2,554)
	441-4475	924K/930K/938K	2750	(108)	3.7	(4.8)	3.8	(5.0)	1223	(2,695)
	345-2768	924K/930K/938K	2750	(108)	4.1	(5.4)	4.2	(5.5)	1297	(2,853)
	345-2762	924K/930K/938K	2750	(108)	4.9	(6.4)	5.0	(6.5)	1360	(2,992)
ISO	430-6777	924K/930K/938K	2750	(108)	3.4	(4.4)	3.5	(4.5)	2454	(5,410)
	430-6779	924K/930K/938K	2750	(108)	4.1	(5.4)	4.2	(5.5)	2732	(6,023)
	430-6781	924K/930K/938K	2750	(108)	4.9	(6.4)	5.0	(6.5)	1297	(2,859)

Multi-Purpose

Multi-Purpose Buckets have a unique four-way action that can load, strip top soil, bulldoze, clamp pipe or large chunks of concrete, clean up debris, and perform many other tasks. Dual hydraulic cylinders power the front half of the bucket to work as a grapple for clamping and moving debris. Closed, the bucket works conventionally. Partly open, the bucket can meter out fill material, or even doze.



Specifications. The table below lists the general specifications for the Multi-Purpose Buckets. Please refer to SWL K Series specalog for performance specifications.

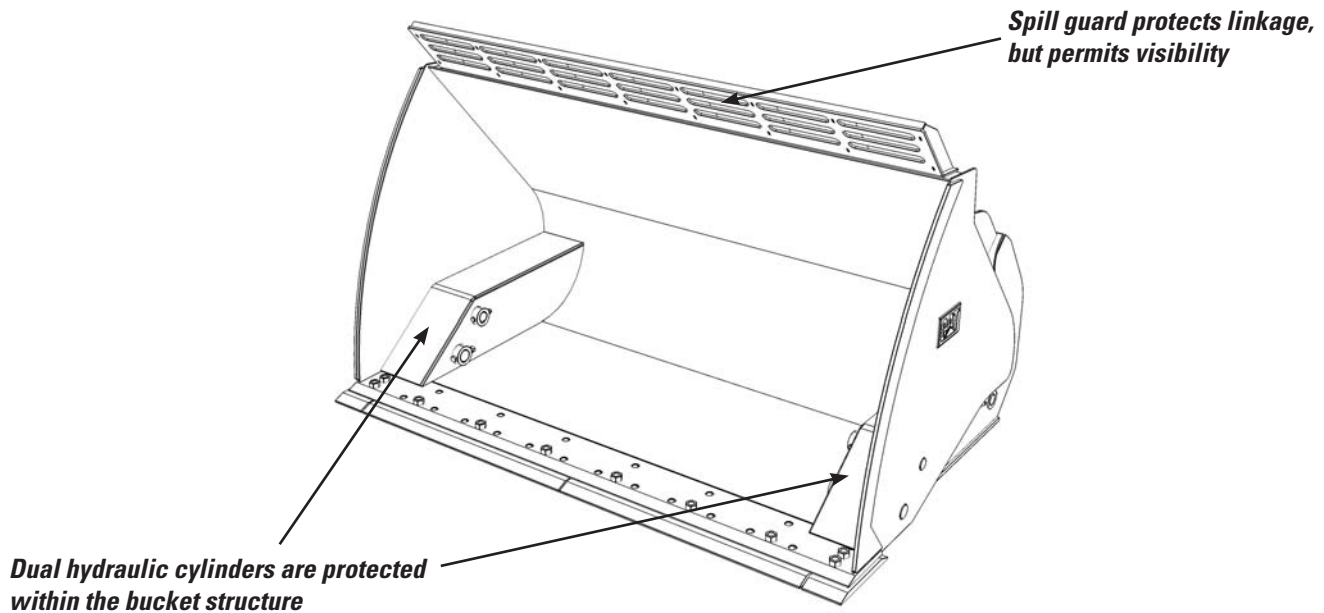
Interface	Part No.	Compatibility	Width		Capacity				Weight	
					Bare or with Adapters		With BOCE or Adapters and Segments			
			mm	(in)	m ³	(yd ³)	m ³	(yd ³)	kg	(lb)
Fusion	Coming Soon	924K/930K/938K	2550	(100)	2.0	(2.6)	2.1	(2.7)	1288	(2,834)

Hydraulic Requirements. Machine must be equipped with 3rd valve hydraulics.

Buckets

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. Sized for less dense material, they are ideal for transfer stations or loading high-sided trucks.



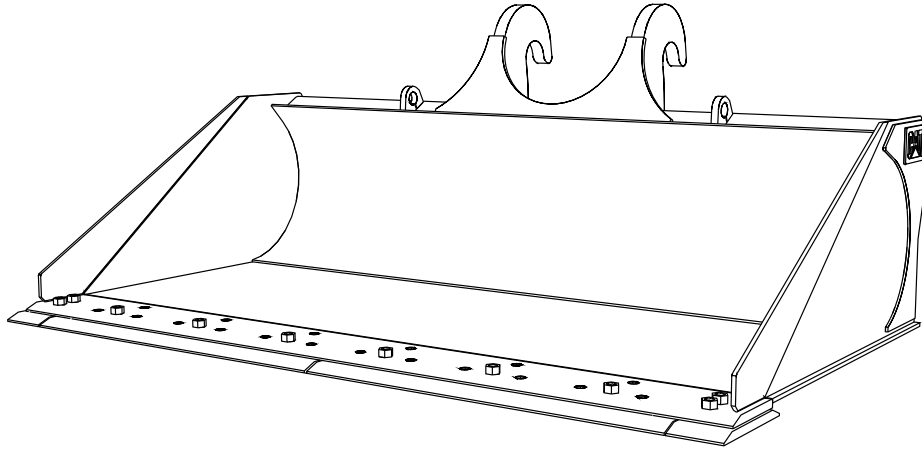
Specifications. The table below lists the general specifications for the High Dump Buckets. Please refer to SWL K Series specalog for performance specifications.

Interface	Part No.	Compatibility	Width		Capacity		Weight	
			mm	(in)	With BOCE or Adapters and Segments		kg	(lb)
Pin On	357-5070	924K/930K	2550	(100)	3.0	(4.0)	1695	(3,737)
	357-5090	924K/930K	2750	(108)	3.5	(4.5)	1782	(3,929)
	424-1516	924K/930K	3060	(120)	4.1	(5.3)	2067	(4,557)
	430-6755	924K/930K	3060	(120)	5.0	(6.5)	2149	(4,738)
	357-5100	938K	3060	(120)	4.1	(5.3)	2065	(4,553)
	430-6737	938K	3060	(120)	5.0	(6.5)	2147	(4,733)
Fusion	357-5080	924K/930K/938K	2550	(100)	3.0	(4.0)	1688	(3,721)
	357-5050	924K/930K/938K	2750	(108)	3.5	(4.5)	1755	(3,869)
	357-5130	924K/930K/938K	3060	(120)	4.1	(5.3)	2041	(4,500)
	430-6758	924K/930K/938K	3060	(120)	5.0	(6.5)	2123	(4,680)
ISO	306-6491	924K/930K/938K	2550	(100)	3.0	(4.0)	1627	(3,587)
	306-6477	924K/930K/938K	2750	(108)	3.5	(4.5)	1714	(3,779)
	357-5045	924K/930K/938K	3060	(120)	4.1	(5.3)	2011	(4,433)
	430-6761	924K/930K/938K	3060	(120)	5.0	(6.5)	2081	(4,588)

Hydraulic Requirements. Machine must be equipped with 3rd valve hydraulics.

Grading

The Cat® 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.



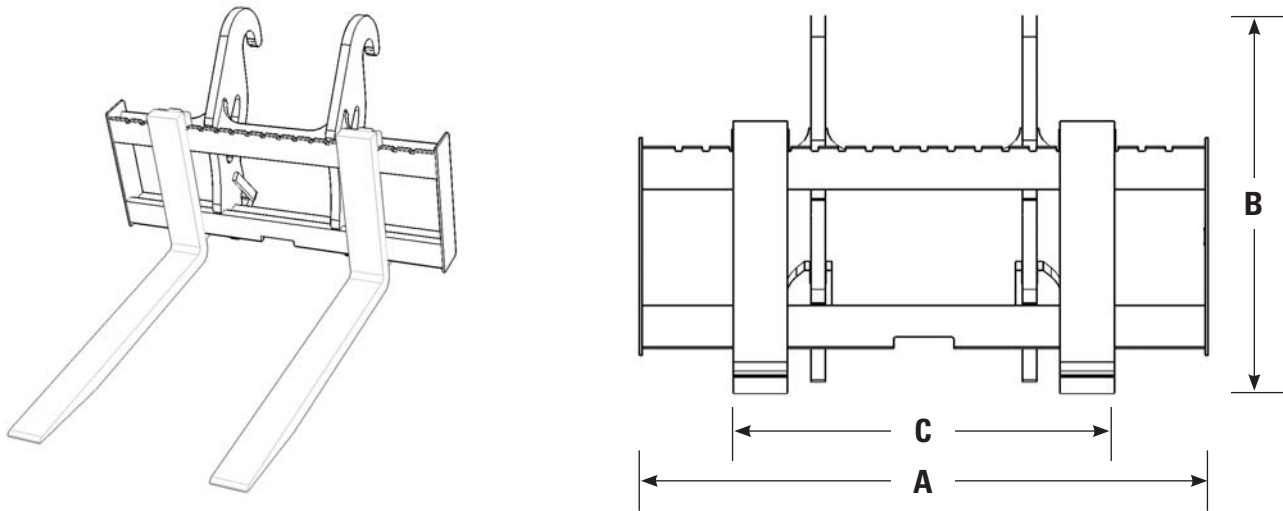
Specifications. The table below lists the general specifications for the buckets.

Interface	Part No.	Compatibility	Width		Height		Weight	
			mm	(in)	mm	(in)	kg	(lb)
ISO	430-3105	924K/930K/938K	2600	(102)	710	(28)	847	(1,867)
	428-8966	924K/930K/938K	2700	(106)	710	(28)	871	(1,920)
	396-8881	924K/930K/938K	2900	(114)	710	(28)	922	(2,033)

Forks

Pallet Forks

Pallet Forks are designed to meet a wide variety of material handling needs. Pallet Forks are well suited for moving bulky or palletized materials on construction and industrial sites and handling pallets of building materials. Straight and offset tines are offered for the pallet forks in 3 different lengths.



Specifications. The table below lists the general specifications for the forks and carriage.

Interface	Part No.	Compatibility	(A) Carriage Width		(B) Carriage Height		(C) Width Over Tines				Weight	
			mm	(in)	mm	(in)	Min		Max		kg	(lb)
Fusion	345-2417	924K/930K/938K	1524	(60)	1042	(41)	305	(12)	1550	(61)	354	(780)

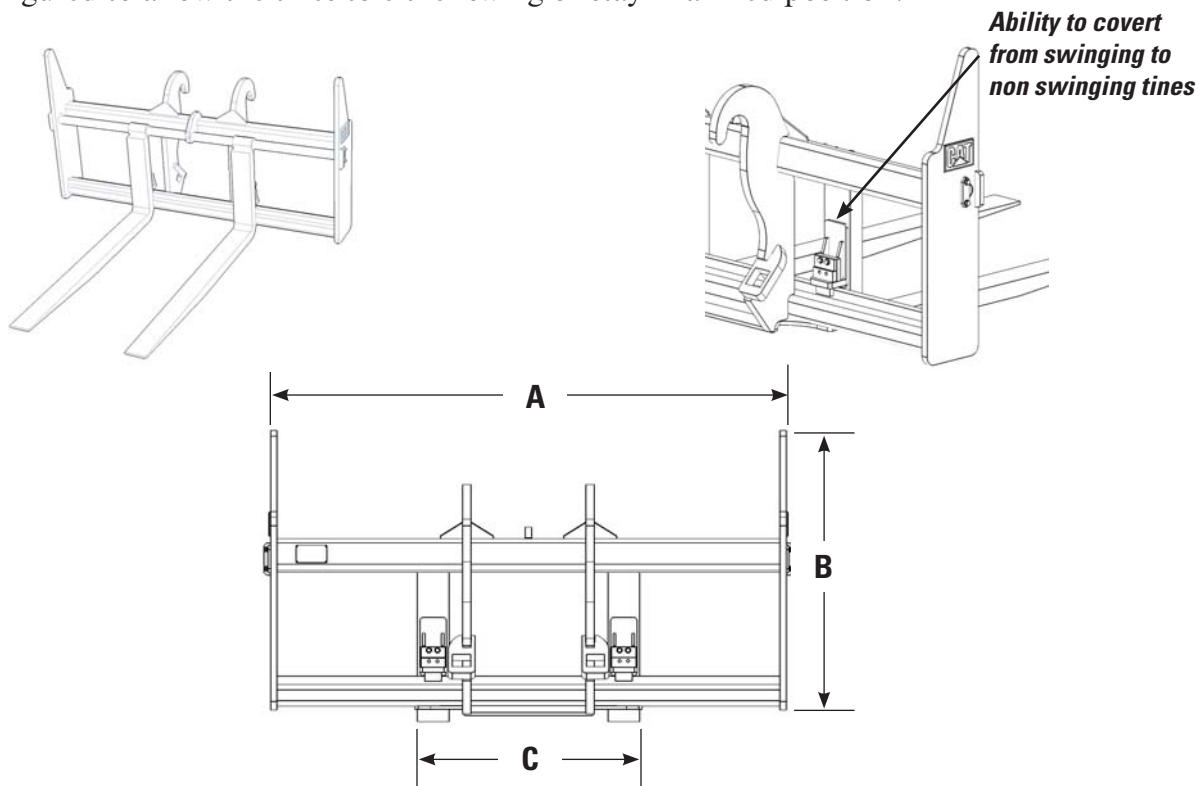
The tines compatible with the carriage above are listed below.

Part No.	Type	Tine Length		Tine Width		Tine Thickness		Per Tine Load Capacity at Load Center		Weight	
		mm	(in)	mm	(in)	mm	(in)	kg	(lb)	kg	(lb)
371-2348	Straight	1220	(48)	150	(6)	60	(2.25)	4000	(8,750)	135	(297)
371-2354	Straight	1370	(54)	150	(6)	60	(2.25)	4000	(8,750)	146	(321)
371-2360	Straight	1524	(60)	150	(6)	60	(2.25)	4000	(8,750)	157	(345)
371-2374	Offset Right	1220	(48)	150	(6)	60	(2.25)	4000	(8,750)	137	(301)
371-2375	Offset Left	1220	(48)	150	(6)	60	(2.25)	4000	(8,750)	137	(301)
360-3354	Offset Left	1370	(54)	150	(6)	60	(2.25)	4000	(8,750)	147	(323)
360-3355	Offset Right	1370	(54)	150	(6)	60	(2.25)	4000	(8,750)	147	(323)
371-2377	Offset Right	1524	(60)	150	(6)	60	(2.25)	4000	(8,750)	158	(348)
371-2376	Offset Left	1524	(60)	150	(6)	60	(2.25)	4000	(8,750)	158	(348)

Note: The tines listed above are not compatible with older carriages on G/H Series SWL and vice versa.

Construction Forks

Construction Forks are wider than the pallet forks, designed for heavy duty applications. Fork tines can be configured to allow the tines to either swing or stay in a fixed position.



Specifications. The table below lists the general specifications for the Construction Forks. These are compatible with 924K, 930K and 938K.

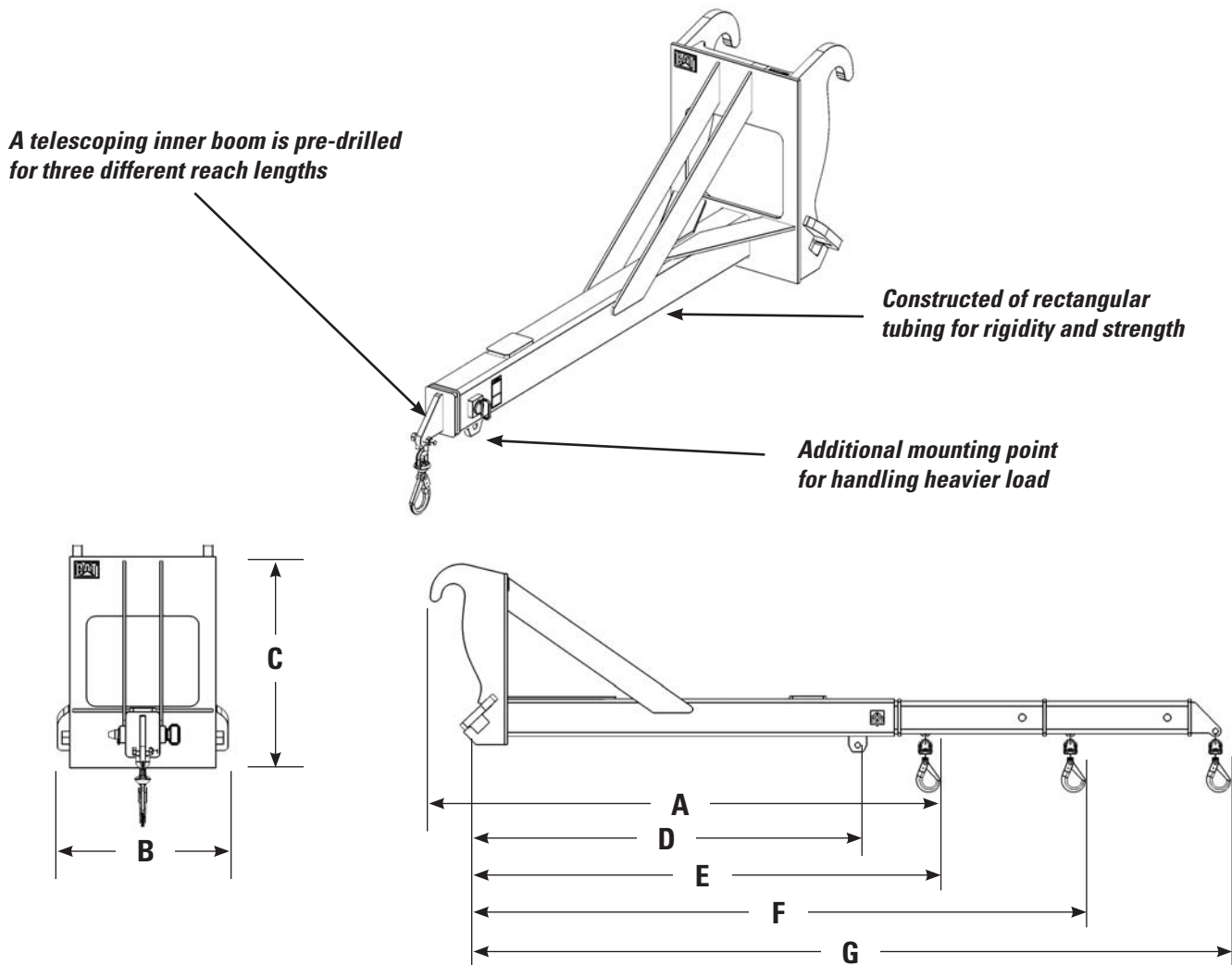
Interface	Part No.	(A) Carriage Width		(B) Carriage Height		(C) Width Over Tines			
		mm	(in)	mm	(in)	Min		Max	
Fusion	345-2740	2440	(96)	1375	(54)	300	(11.8)	2375	(93.5)
	345-2750	2440	(96)	1375	(54)	300	(11.8)	2375	(93.5)

Interface	Part No.	Tine Length		Tine Width		Tine Thickness		Per Tine Load Capacity at Load Center		Weight	
		mm	(in)	mm	(in)	mm	(in)	kg	(lb)	kg	(lb)
Fusion	345-2740	1524	(60)	150	(6)	70	(2.7)	4000	(8,750)	944	(2,081)
	345-2750	1829	(72)	150	(6)	70	(2.7)	4000	(8,750)	988	(2,178)

Material Handling Arm

Material Handling Arm

A Wheel Loader equipped with a Cat Fusion Material Handling Arm is useful in many industries, including industrial, construction, agricultural and landscaping. The heavy duty design is also well suited for road construction, pipe laying and other jobs.



Specifications. The table below lists the general specifications for the Material Handling Arm. Please refer to SWL K Series specalog for performance specifications.

Interface	Part No.	Compatibility	Max Arm Rating		(A) Length		(B) Width		(C) Height		Weight	
			kg	(lb)	mm	(in)	mm	(in)	mm	(in)	kg	(lb)
Fusion	360-3300	924K/930K/938K	*	*	2760	(109)	758	(30)	1036	(41)	487	(1071)

Interface	Part No.	Compatibility	(D) Extension 1		(E) Extension 2		(F) Extension 3		(G) Extension 4	
			mm	(in)	mm	(in)	mm	(in)	mm	(in)
Fusion	360-3300	924K/930K/938K	2164	(85)	2537	(100)	3337	(131)	4137	(163)

*Refer to the 924K, 930K, 938K OMM.

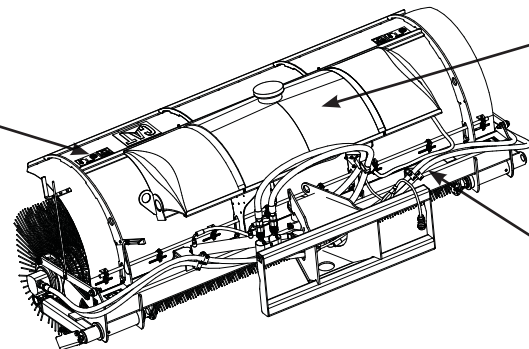
Special Application

Special Application Brooms feature several reinforcements and are built for rugged use such as sweeping heavy material and coal seams. A reinforced core and high-strength, extra-thick poly bristles provide the aggressive sweeping required, while keeping weight to a minimum and structural integrity to a maximum. Special Application Brooms are available with or without a water sprinkler system. An optional plastic shield extension can be purchased.

To save bristle wear, broom has two indicators – level and pitch – to aid operator in positioning for proper operation.

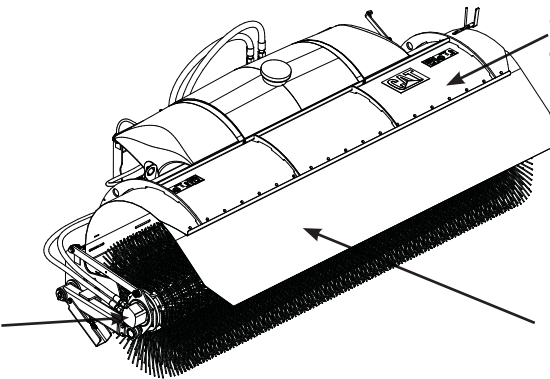
Broom down pressure adjustment is easily accessible and requires one wrench to tighten or loosen.

Core is reinforced where bristles are mounted to broom.



Brooms with water sprinkling systems are available for effective dust control.

Water lines are placed in the rear of the broom to protect them from damage.



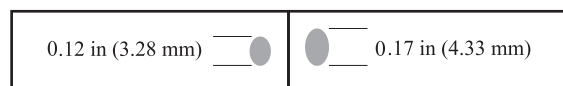
Shield is made of metal for strength and durability.

An optional plastic shield extension reduces dust in the air and the opportunity for debris to be propelled from the broom.

Special Application			
Model	Part No.	Angle	Water
3.0	274-9985	Hydraulic	No
	274-9986	Hydraulic	Yes
2.5	274-9983	Hydraulic	No
	274-9984	Hydraulic	Yes
Optional Shield Extension for Special Application Broom			
3.0	269-9281		
2.5	269-9333		

Cat Standard Bristle

Cat SA Bristle



Bristles shown actual size.

Special Application Broom bristles are 32% larger (4.33 mm/0.17 in) than standard for additional strength and durability.

Brooms

Angle

Cat Angle Brooms (BA) are perfectly suited for clearing parking lots, millyards, airport runways, streets, driveways and lanes.

The broom brush is constructed of 50% convoluted polypropylene and 50% rippled wire bristles for long brush life. 100% polypropylene bristles are available. Brush elements are easily replaceable. Cat Angle Brooms angle either hydraulically or manually – 30° to either side – or can operate in a straight position. Operator controls hydraulic broom angle from the cab.

Angle brooms are available with or without a water sprinkler system.

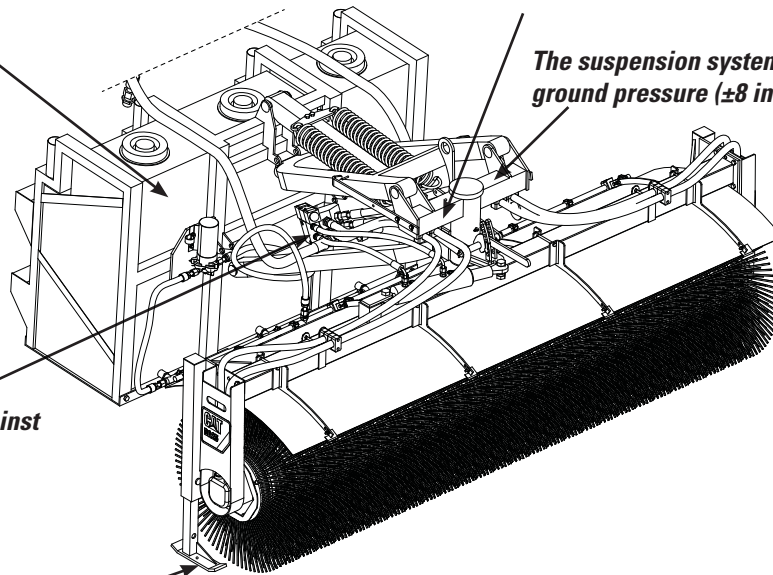
Brooms are available with water sprinkling systems for effective dust control.

A unique suspension system eliminates the need to support wheels.

The suspension system maintains constant brush ground pressure (± 8 in) from the initial setting.

Motors are protected against damage from debris – yet easily accessible.

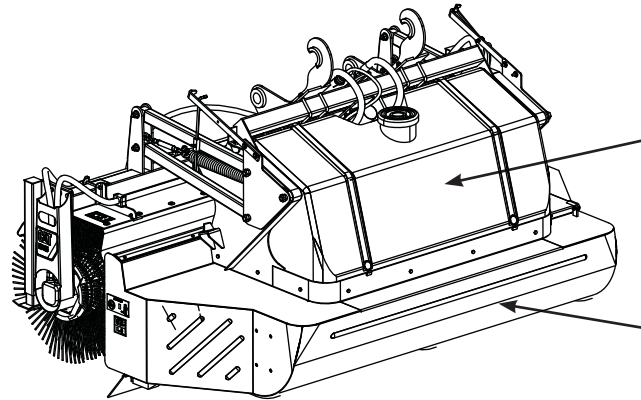
Parking supports provide stable and secure parking of the unit.



BA			
Model	Part No.	Angle	Water
BA30	202-9000	Hydraulic	No
	202-8999	Hydraulic	Yes
	202-7700	Manual	No
	202-7699	Manual	Yes
BA25	164-8485	Manual	No
	157-5880	Hydraulic	No
	164-8484	Hydraulic	Yes

Pickup

Cat Pickup Brooms (BP) sweep and deposit materials into an integrate hopper for easy removal and dumping of debris. Brush elements are easily replaceable and are constructed of convoluted polypropylene bristles for long brush life.



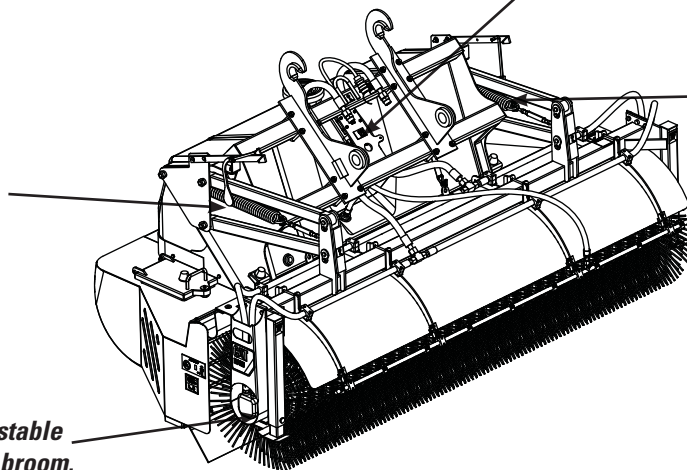
Pickup Brooms come standard with an electric water sprinkling system for effective dust control.

Large integrated hopper increases productivity.

Motors are protected against damage from debris – yet easily accessible.

A unique suspension system eliminates the need for support wheels.

The suspension system maintains constant brush ground pressure from the initial setting.



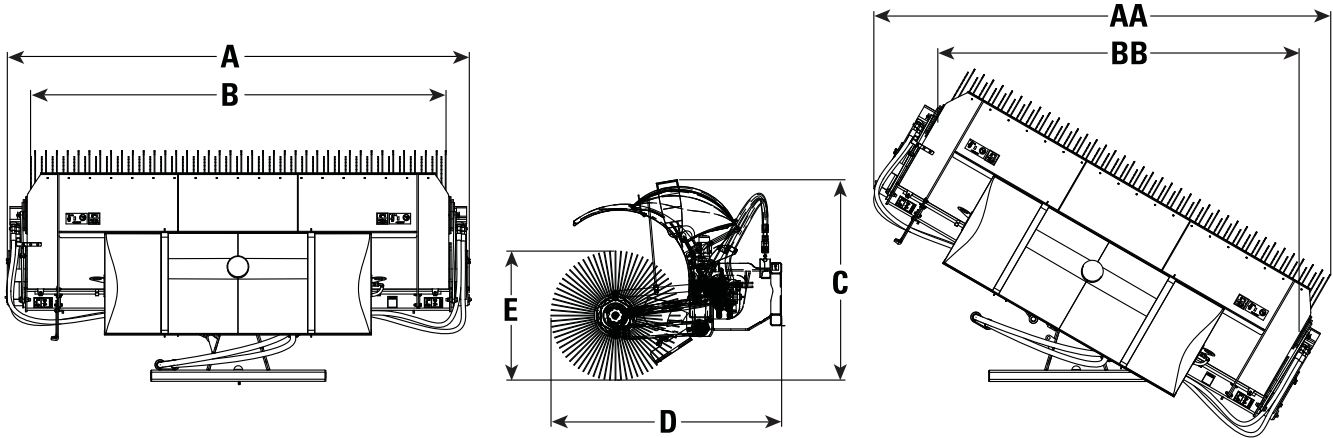
Parking supports provide stable and secure parking of the broom.

BP			
Model	Part No.	Angle	Water
BP25	158-0253	No	Yes

Brooms

Optimum Matching

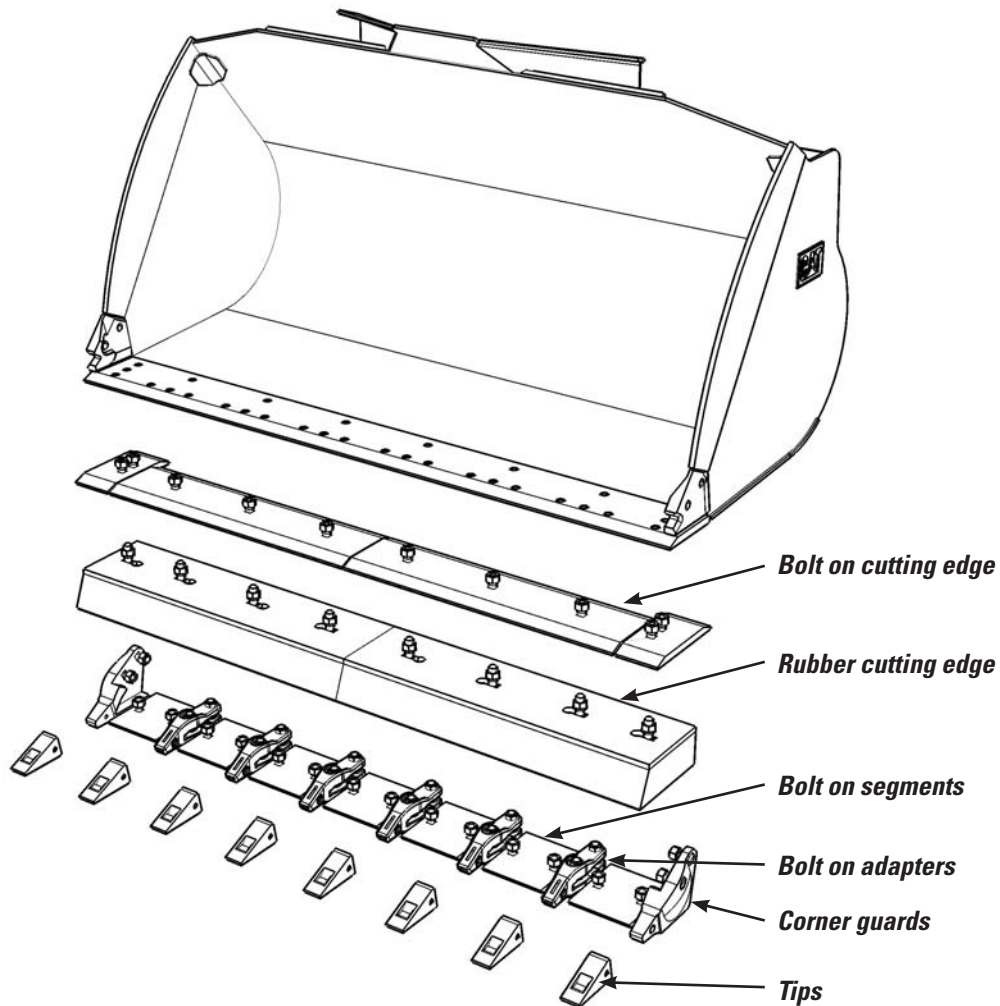
	Special Application 3.0 m	Special Application 2.5 m	BA30	BA25	BP25
924K/930K		●		●	●
938K	●		●		



Specifications

				Special Application 3.0 m		Special Application 2.5 m		BA30		BA25		BP25	
	Weight (Hydraulic Angle)	kg	(lb)	816	(1,800)	743	(1,640)	499	(1,100)	460	(1,014)	651	(1,435)
	Weight with Optional Filled Water Tank	kg	(lb)	1055	(2,325)	982	(2,165)	1104	(2,434)	1065	(2,348)	1029	(2,269)
A	Overall Width Straight	mm	(in)	3257	(128)	2757	(108.5)	3200	(126)	2700	(106.3)	2700	(106.3)
B	Sweeping Width Straight	mm	(in)	3000	(118)	2500	(98.4)	3000	(118)	2500	(98.4)	2500	(98.4)
AA	Overall Width Angled @ (±30°)	mm	(in)	3242	(128)	2742	(108)	2909	(114.5)	2434	(95.8)		
BB	Sweeping Width Angled @ (±30°)	mm	(in)	2600	(102)	2165	(85.2)	2600	(102)	2165	(85.2)		
C	Overall Height	mm	(in)	1421	(56)	1422	(56)	1579	(62.2)	1300	(51.2)	1500	(59.1)
D	Overall Depth	mm	(in)	1636	(64.4)	1636	(64.4)	2351	(92.5)	2300	(90.5)	1800	(70.9)
E	Brush Diameter	mm	(in)	915	(36)	915	(36)	915	(36)	700	(27.5)	700	(27.5)
	Water Capacity	L	(gal)	240	(63)	240	(63)	600	(160)	600	(160)	400	(100)
	Effective Waste Volume	L	(yd ³)									680	(0.89)
Operating Pressure													
	Maximum	kPa	(psi)	26 000	(3,771)	26 000	(3,771)	26 000	(3,771)	26 000	(3,771)	26 000	(3,771)
	Minimum	kPa	(psi)	1500	(2,175)	1500	(2,175)	1500	(2,175)	1500	(2,175)	1500	(2,175)
Oil Flow													
	Maximum Oil Flow	L/min	(gpm)	300	(80)	159	(42)	300	(80)	159	(42)	79.5	(21)
	Minimum Oil Flow	L/min	(gpm)	41.5	(11)	41.5	(11)	41.5	(11)	41.5	(11)	19	(5)
	Maximum Carrier Speed	kph	(mph)	30.5	(19)	30.5	(19)	30.5	(19)	30.5	(19)	30.5	(19)
	Optimal Working Speed	kph	(mph)	4-19	(2.5-12)	4-19	(2.5-12)	4-19	(2.5-12)	4-19	(2.5-12)	4-19	(2.5-12)
	Spray System Voltage	volts		24		12 or 24		24		12 or 24		12 or 24	

Various Ground Engaging Tools are offered to adapt to any application.



Part No.	Description	For Bucket Width		
		mm	(in)	
8E-4566	Cutting Edge, Bolt On (4 Piece)	2550	(100)	
345-2758	Cutting Edge, Bolt On (4 Piece)	2750	(108)	
8E-4568	Segments, Bolt On (Set of 7)	2550	(100)	
7T-9326	Segments, Bolt On (Set of 7)	2750	(108)	
251-5418	Cutting Edge Group, Rubber	2550	(100)	
444-1522	Cutting Edge Group, Rubber	2750	(108)	
398-6760	Cutting Edge Group, Rubber	3060	(120)	
116-9713	Adapters, Bolt On (Set of 8)			J250
9W-8142	Tips, Long (Set of 8)			J250
9W-8143	Tips, Short (Set of 8)			J250
253-0060	Right Hand Corner Guard			J250
253-0061	Left Hand Corner Guard			J250

Machine and Bucket Compatibility

New Machine Linkage

With the introduction of the new K Series Small Wheel Loaders comes a reinvented Z-bar linkage. Caterpillar engineers used an innovative systems integration approach to completely redesign the linkage system to meet customer needs in many applications. Development of the new optimized Z-bar linkage was done in conjunction with the Performance Series Buckets, Fusion coupler and Fusion family of work tools. The systems integration approach enabled us to optimize the design for enhanced visibility, performance and fuel efficiency.

Bucket Compatibility

With the change in linkage from H Series to K Series machines come a few considerations for bucket and machine compatibility. They are discussed below.

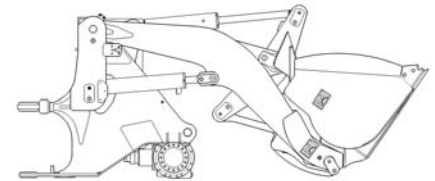
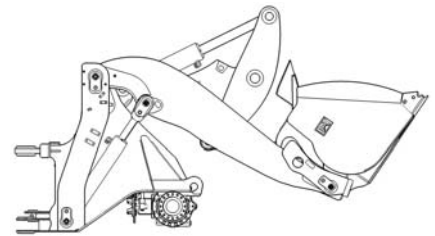
Pin On

With the linkage changes, the pin locations changed on K Series Small Wheel Loaders. As a result, the buckets meant for H Series Small Wheel Loaders will not pin on K Series Small Wheel Loaders and vice versa.

Fusion

Available on both H Series and K Series machines, the Fusion coupler provides the machines with the ability to pick up buckets for a wide range of wheel loaders. Because some buckets have been specifically designed for a particular machine's linkage, there are a few instances in which interference will be experienced.

Large capacity buckets, like Woodchip and Waste buckets feature dimensional characteristics – like the throat opening – matched to the profile of the machine's linkage. Because of this, these bucket styles will interfere with the machine linkage when racked back.



Machine and Bucket Compatibility

The table below captures the bucket compatibility between the machine models.

Fusion Bucket Compatibility

		Machines					
		924H	924K	930H	930K	938H	938K
H Series Buckets	General Purpose	●	●	●	●	●	⊖
	Multi-Purpose	●	●	●	●	●	●
	Side Dump	●	⊖	●	⊖	●	⊖
	High Dump	●	●	●	●	●	●
	Grading	●	●	●	●	●	●
K Series Buckets	General Purpose	●	●	●	●	×	●
	Multi-Purpose	●	●	●	●	⊖	●
	High Dump	⊖	●	⊖	●	×	●

- Bucket provides optimal performance
 - ⊖ Bucket will work with sub optimal performance
 - ×
- Bucket will interfere with linkage

Quick Couplers

Fusion Coupler

The Fusion Coupler interface is a Caterpillar patented wheel loader coupler system that provides performance that is virtually identical to a pin on machine, with all the flexibility of a quick coupler system. There is more useable machine breakout force through less offset. The Fusion Coupler minimizes the distance between the work tool and the tires and brings the center of gravity closer to the machine for improved stability and increased lifting capacity compared to other coupler systems.

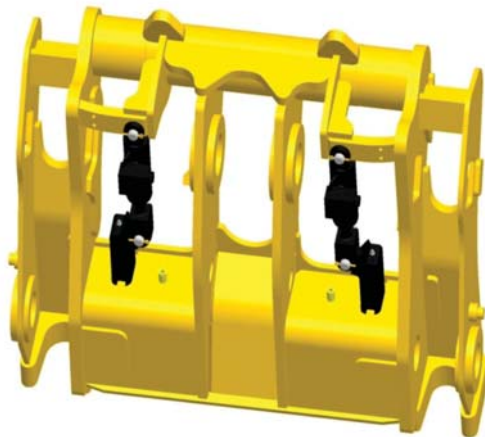


Maximal Reduction in Offset, More Usable Breakout Force Through "Fusion"

The Fusion Coupler, which is a hydraulic quick coupler, uses an advanced constant pressure wedging system that provides a tight rattle free fit. This reduces wear on components and work tools.

The Fusion Coupler for the 924K, 930K and 938K Small Wheel Loaders creates work tool exchangeability among these machines since the work tool adapter dimensions are equal.

Optimal visibility is created through its design in combination with the machine linkage.



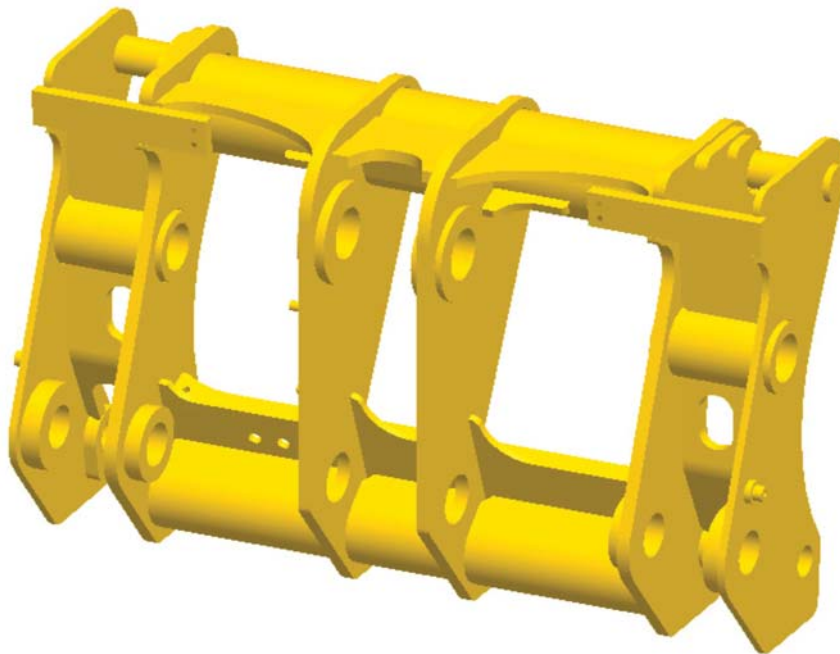
Clear visibility and a tight work tool fit with "Fusion"

ISO Coupler

Caterpillar recommends the Fusion Coupler in combination with the K Series Small Wheel Loaders for better machine performance and longer “wear life” for the quick coupler and work tools.

Caterpillar offers the hydraulic ISO Coupler to create exchangeability with existing work tools in the marketplace. Through redesign of the quick coupler hinge the offset has been reduced to a minimum as technically possible for this type of quick coupler. Also the Cat ISO Quick Coupler has been optimized to create a better visibility.

The ISO Coupler for the 924K, 930K and 938K Small Wheel Loaders creates work tool exchangeability among these machines since the work tool adapter dimensions are equal.



ISO standard quick coupler with horizontal pin locking

Special Solutions

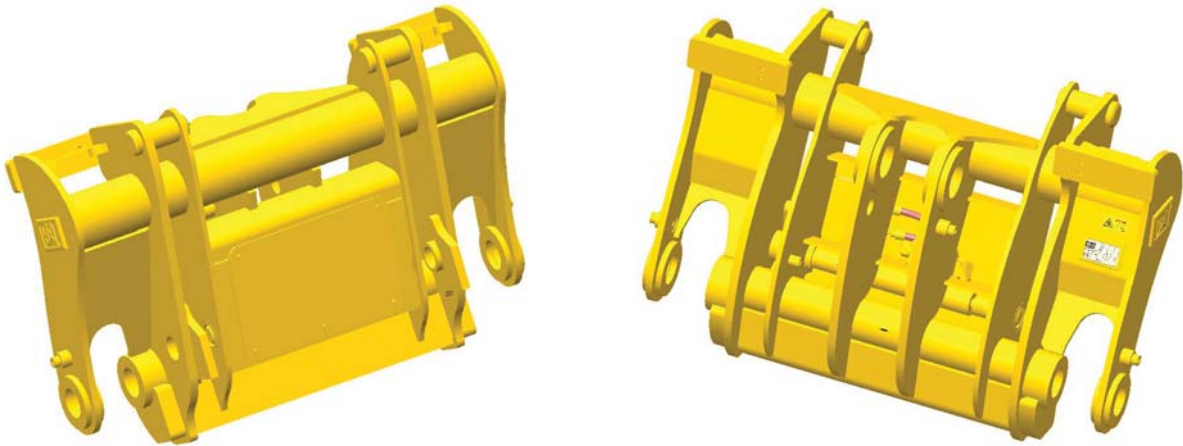
IT Quick Coupler

Caterpillar recommends the Fusion Coupler in combination with the K Series Small Wheel Loaders for better machine performance and longer “wear life” for the quick coupler and work tools.

For many years Caterpillar has offered the hydraulic IT Quick Coupler for the lower size class machines in the small wheel loader range. Caterpillar now offers a special solution to connect the hydraulic IT Quick Coupler to the 924K and 930K Small Wheel Loaders when exchangeability is required with existing H Series machines and H Series work tools.

Through redesign of the quick coupler hinge the offset has been reduced to a minimum as technically possible for this type of quick coupler for the 924K/930K/938K.

The IT Quick Coupler for the machine models 924K and 930K creates work tool exchangeability among these machines and the previous H Series Small Wheel Loaders.



Small Wheel Loader IT Quick Coupler

Work Tool Portfolio for H and K Series

					Interface PIN ON						
	Width		Capacity		924H	924Hz		928Hz	930H		
	mm	(in)	m ³	(yd ³)			924K			930K	938K
GP Bucket, IRH	2250	(89)	2.1	(2.7)				152-1613			
GP Bucket, IRH	2455	(97)	1.8	(2.4)	167-3968	173-3634					
GP Bucket	2455	(97)	2.2	(2.9)	279-1628	279-1603					
GP Bucket, IRH	2455	(97)	2.4	(3.1)					251-6600		
GP Bucket	2550	(100)	1.8	(2.4)	167-3963	172-8568					
GP Bucket	2550	(100)	1.9	(2.5)			345-2818			345-2818	
GP Bucket	2550	(100)	2.1	(2.7)			345-2820	119-1799		345-2820	
GP Bucket, IRH	2550	(100)	2.1	(2.7)		173-3635					
GP Bucket	2550	(100)	2.3	(3.0)			345-2822		256-8898	345-2822	
GP Bucket, IRH	2550	(100)	2.3	(3.0)				223-9730			
GP Bucket	2550	(100)	2.5	(3.2)			345-2824		256-8911	345-2824	345-2814
GP Bucket	2550	(100)	2.7	(3.5)							345-2816
GP Bucket	2750	(108)	2.5	(3.2)							345-2804
GP Bucket	2750	(108)	2.7	(3.5)							345-2826
GP Bucket	2750	(108)	2.9	(3.8)							345-2828
High Density Bucket	2550	(100)	2.1	(2.7)					252-6909		
LM Bucket	2550	(100)	2.8	(3.6)	252-6903				252-6903		
LM Bucket	2550	(100)	3.1	(4.0)					348-3457		
LM Bucket	2750	(108)	3.1	(4.0)			441-4450			441-4450	
LM Bucket	2750	(108)	3.5	(4.5)			345-2764			345-2764	360-3315
LM Bucket	2750	(108)	3.8	(5.0)			441-4465			441-4465	441-4470
LM Bucket	2750	(108)	4.2	(5.5)			345-2770			345-2770	360-3316
LM Bucket	2750	(108)	5.0	(6.5)			345-2766			345-2766	360-3317
Penetration Bucket	2600	(102)	2.5	(3.2)				230-7486			
Sand & Gravel Bucket	2750	(108)	2.5	(3.3)			430-3300			430-3300	
Sand & Gravel Bucket	2750	(108)	2.7	(3.5)			360-3309			360-3309	360-3308
Sand & Gravel Bucket	2750	(108)	3.2	(4.1)			360-3311			360-3311	360-3310
High Dump Bucket	2550	(100)	3.0	(4.0)			357-5070			357-5070	
High Dump Bucket	2750	(108)	3.5	(4.5)			357-5090			357-5090	
High Dump Bucket	3060	(120)	4.1	(5.3)			424-1516			424-1516	357-5100
High Dump Bucket	3060	(120)	5.0	(6.5)			430-6755			430-6755	430-6737

Remarks: Cells highlighted in grey are Performance Buckets/Tools.

Work Tool Portfolio for H and K Series

					Fusion Interface				
	Width		Capacity		924H	924Hz	928Hz	930H	
	mm	(in)	m ³	(yd ³)	924K	924K	930K	930K	938K
GP Bucket	2550	(100)	1.9	(2.5)	345-2418				
GP Bucket	2550	(100)	2.1	(2.7)	360-3320				
GP Bucket	2550	(100)	2.3	(3.0)	360-3322				
GP Bucket	2550	(100)	2.5	(3.2)	345-2424				
GP Bucket	2550	(100)	2.7	(3.5)	360-3336				
GP Bucket	2750	(108)	2.5	(3.2)	345-2784				
GP Bucket	2750	(108)	2.7	(3.5)	345-2426				
GP Bucket	2750	(108)	2.9	(3.8)	345-2428				
LM Bucket	2750	(108)	3.1	(4.0)			441-4460		
LM Bucket	2750	(108)	3.5	(4.5)	345-2760				
LM Bucket	2750	(108)	3.8	(5.0)			441-4475		
LM Bucket	2750	(108)	4.2	(5.5)	345-2768				
LM Bucket	2750	(108)	5.0	(6.5)					345-2762
High Dump Bucket	2550	(100)	3.0	(4.0)	357-5080				
High Dump Bucket	2750	(108)	3.5	(4.5)	357-5050				
High Dump Bucket	3060	(120)	4.1	(5.3)					357-5130
High Dump Bucket	3060	(120)	5.0	(6.5)					430-6758
MP Bucket	2550	(100)	2.1	(2.7)	Coming Soon				
Arm, Material Handling					360-3300				
Carriage, Pallet Fork					345-2417				

Remarks: Cells highlighted in grey are Performance Buckets/Tools.

Work Tool Portfolio for H and K Series

					ISO Interface				
	Width		Capacity		924H	924Hz	928Hz	930H	
	mm	(in)	m ³	(yd ³)	924K	924K	930K	930K	938K
GP Bucket	2524	(100)	1.9	(2.5)	240-5742				
GP Bucket	2550	(100)	2.1	(2.7)	360-3256				
GP Bucket	2540	(100)	2.3	(3.0)				240-5765	
GP Bucket	2550	(100)	2.3	(3.0)	360-3257				
GP Bucket	2750	(108)	2.5	(3.2)					371-2390
GP Bucket	2750	(108)	2.7	(3.5)					360-3258
GP Bucket	2750	(108)	2.9	(3.8)					371-2391
LM Bucket	2750	(108)	3.5	(4.5)	430-6777				
LM Bucket	2750	(108)	4.2	(5.5)	430-6779				
LM Bucket	2750	(108)	5.0	(6.5)	430-6781				
High Dump Bucket	2550	(100)	3.0	(4.0)	306-6491				
High Dump Bucket	2750	(108)	3.5	(4.5)	306-6477				
High Dump Bucket	3060	(120)	4.1	(5.3)	357-5045				
High Dump Bucket	3060	(120)	5.0	(6.5)	430-6761				
Carriage, Pallet Fork					257-2506			257-2506	

Remarks: Cells highlighted in grey are Performance Buckets/Tools.

					Interface IT			
	Width		Capacity		924H	924Hz	928Hz	930H
	mm	(in)	m ³	(yd ³)	924K	924K	930K	930K
GP Bucket, IRH	2455	(97)	1.8	(2.4)		167-3969		
GP Bucket	2455	(97)	2.2	(2.9)		279-2265		251-9878
GP Bucket	2550	(100)	1.8	(2.4)	167-3966			
GP Bucket	2550	(100)	2.1	(2.7)	256-8889			256-8889
GP Bucket	2550	(100)	2.3	(3.0)				256-8882
GP Bucket	2550	(100)	2.5	(3.3)				256-8863
LM Bucket	2550	(100)	2.8	(3.6)	251-5412			251-5412
LM Bucket	2550	(100)	3.1	(4.0)				241-0916
Arm, Material Handling					229-9714			
Carriage, Pallet Fork					257-6113			

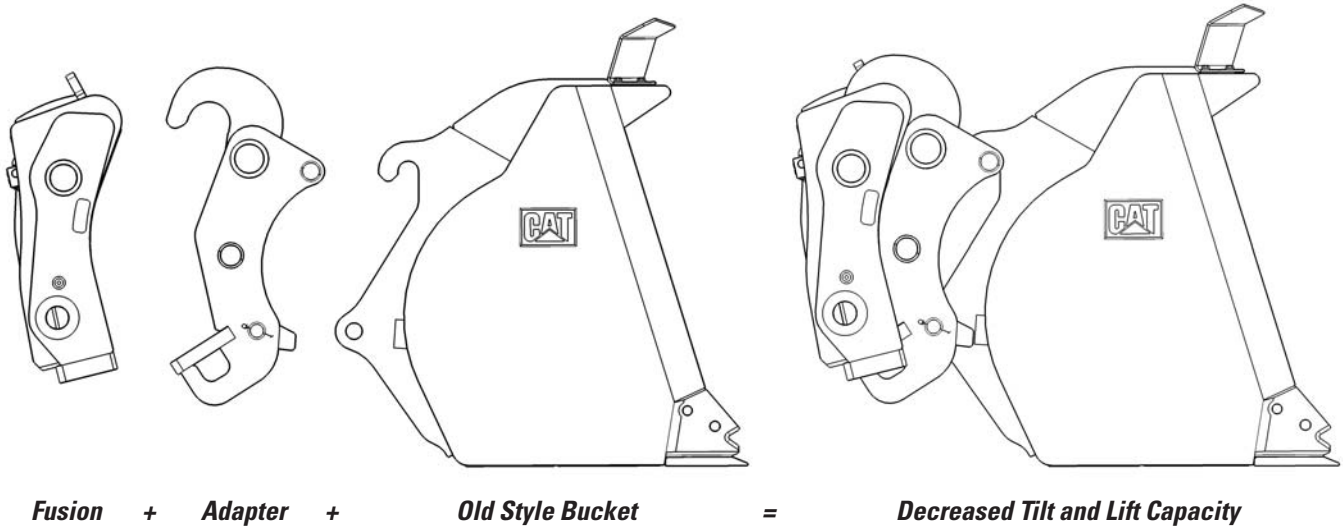
Remarks: Cells highlighted in grey are Performance Buckets/Tools.

Adapters and Hooks

Fusion Adapters

There may be some rare instances in which using an adapter may be necessary to convert a work tool for use with the Fusion Coupler.

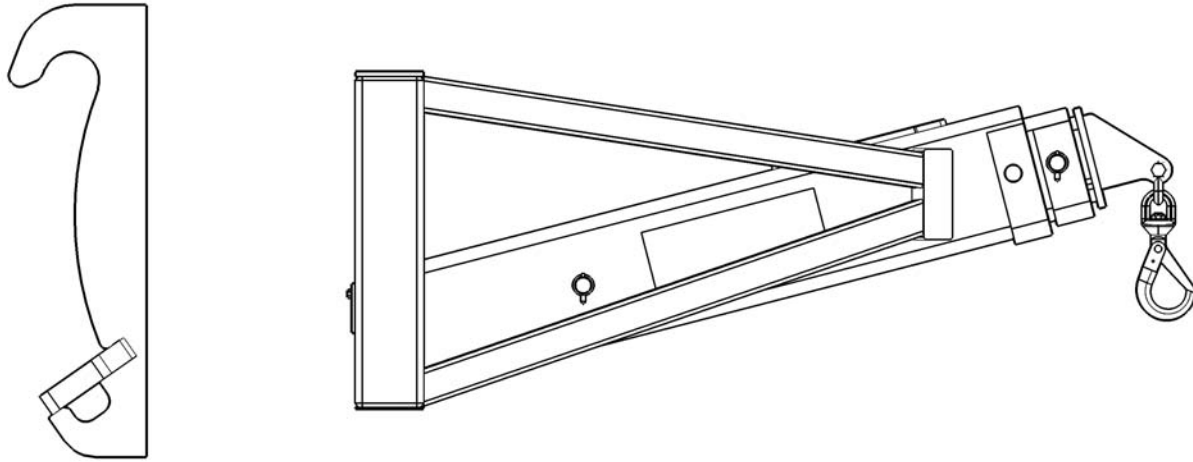
An adapter bracket has Fusion hooks on the back and hooks and pins on the front allowing it to interface with IT style coupler tools. As the diagram illustrates, the adapter pushes the attachment, and the center of gravity, farther away from the machine. The “pushing out” of the tool – up to 254 mm (10 in) in some cases – results in a substantial decrease in lift capacity, and a substantial decrease in tilt capacity.



Part No.	Compatibility	Description
377-4149	924K/930K/938K	Adapter, IT to Fusion
315-6331	924K/930K/938K	Adapter, HPL to Fusion
315-6330	924K/930K/938K	Adapter, Volvo to Fusion
343-5595	938K	Large IT38 to Fusion

Flat Back Hooks

To permanently convert work tools to Fusion interface, blank hooks are ideal, especially for material handling arm.



Flat Back Hook

+

Material Handling Arm

Part No.	Compatibility	Description
371-2400	924K/930K/938K	Fusion Hook, Flatback (2)

Notes

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