



COMPACT ATTACHMENTS



STANLEY
Infrastructure

INDUSTRIAL TOOLS & ATTACHMENTS

PALADIN. **STANLEY.** **LABOUNTY.** **PENGO.**

YOUR "ONE-STOP SHOP"

FOR HYDRAULIC TOOLS AND ATTACHMENTS



Paladin is the one-stop-shop for quality, productive and powerful attachment tools. In addition to the extensive independent Paladin dealer network, Paladin manufactures construction equipment attachments for companies such as Caterpillar, Komatsu and John Deere to sell under their respective trademarks. Contact us today to inquire as to our manufacturing services for your construction equipment attachments.

FEATURED PRODUCT

FD60 FORESTRY DISK MULCHER



Maximize Productivity and Up-Time

- Wide-angle intake promotes mulching and helps avoid jams
- Ultra-efficient drive system starts up fast and delivers tremendous power to the head

Minimize Service Time and Costs

- Zero-maintenance bearing housing never needs to be greased
- Reinforced debris shovel keeps teeth out of the dirt and places material perfectly for optimal processing
- Interchangeable QUADCO teeth simplifies service and allows for tooth rotation to combat uneven wear patterns

Flexible Across Applications

- Control debris projection with a two-position, adjustable deflector
- Removable debris shovel allows teeth to work below grade and provides easier processing of light brush
- Dual-function push bar smoothly pulls trees in on the right side, grabs to manipulate trees on the left side

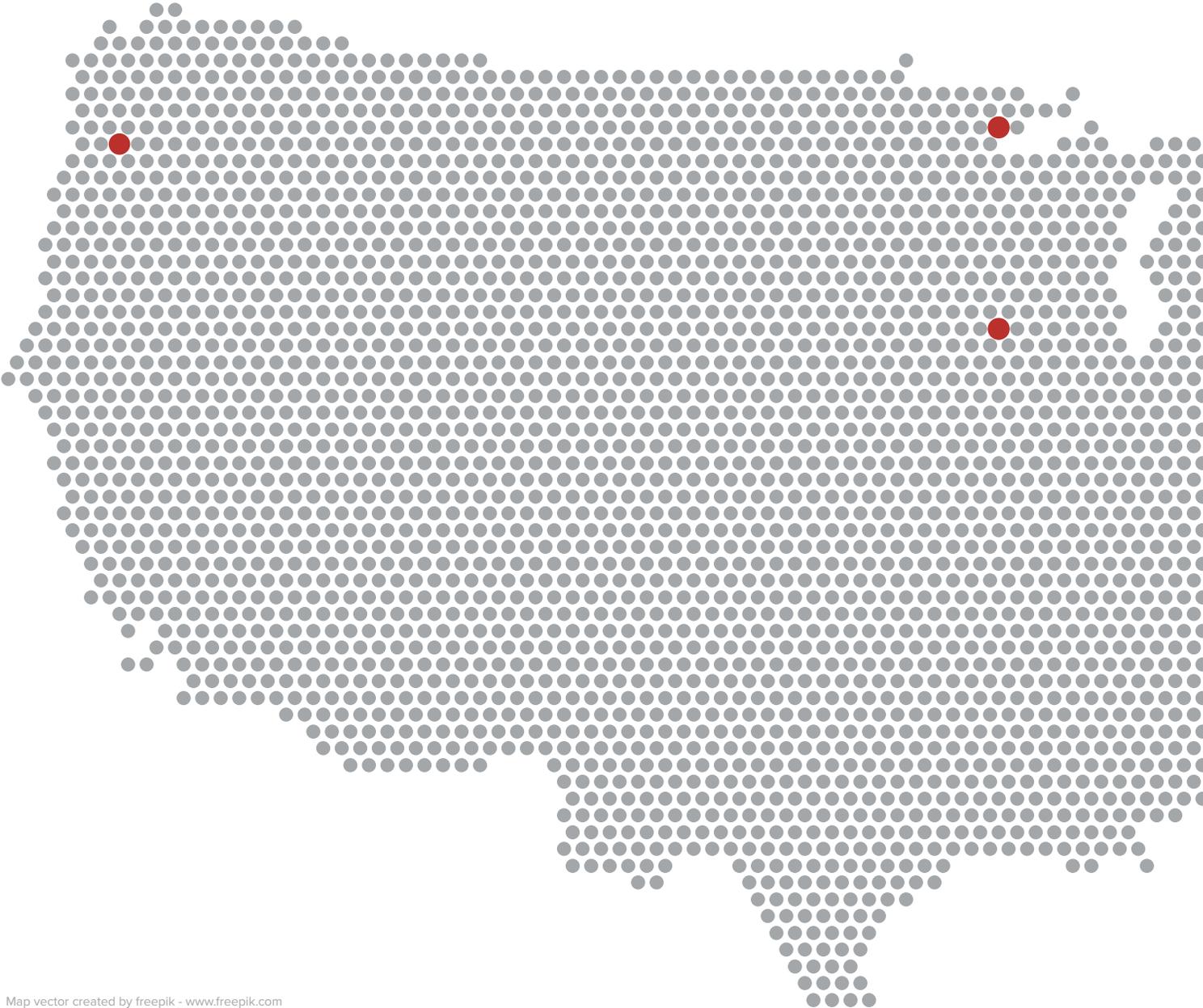
Reap the Benefits of Superior Power

Paladin MulchPower™ Technology provides live, dynamic power and loading feedback to the operator through a unique pressure monitoring gauge. With MulchPower™ operators can see when the tool is fully charged and also when it is nearing a state of being overloaded, so that operating technique can be adjusted to maximize performance.

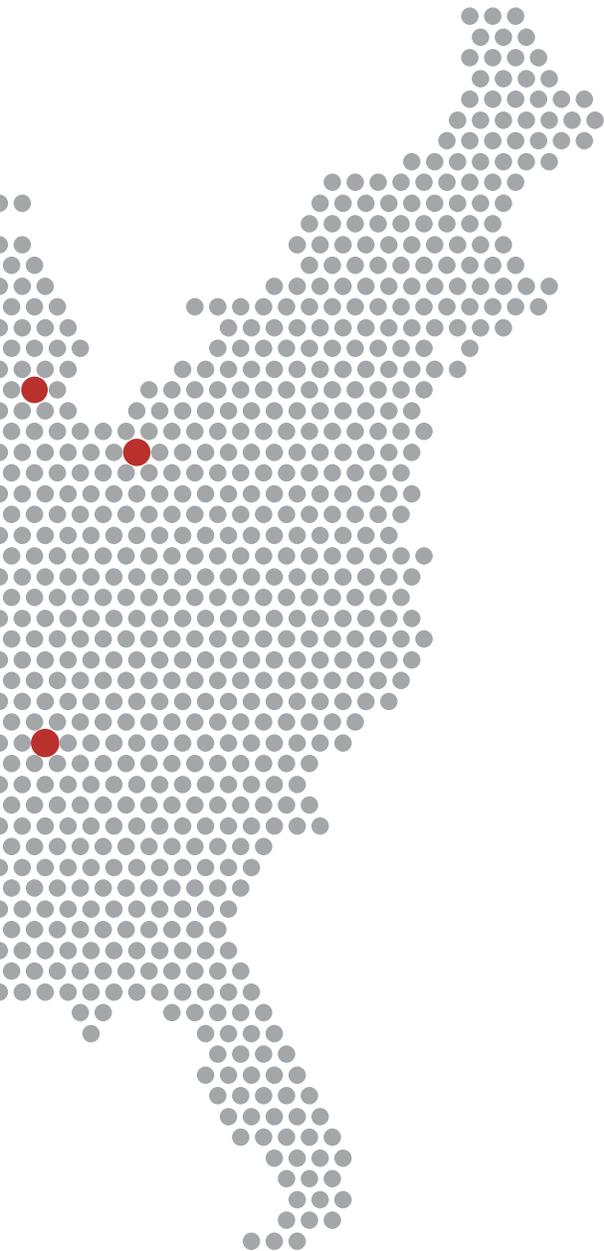


- **RUN AT PEAK POWER:** Greater starting power improves cutting efficiency and tool life, increasing overall job productivity and decreasing total operating costs.
- **AVOID JAMMING:** Greater starting power dramatically reduces the likelihood of jamming and stalling.
- **WORK WITH CONFIDENCE:** Conditions change from job to job. MulchPower™ lets you be more aggressive when the job will allow it, letting you maximize your production.

MANUFACTURING FACILITIES



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Dexter Facility

2800 Zeeb Road
Dexter, MI, 48130

Akron Facility

820 Glaser Parkway
Akron, OH, 44306

Delhi Facility

503 Gay Street
Delhi, IA, 52223

Ooltewah Facility

8822 Apison Pike
Ooltewah, TN, 37363

Surrey Facility

19490 92nd Avenue
Surrey, B.C. Canada V4N 4G7

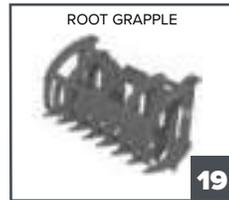
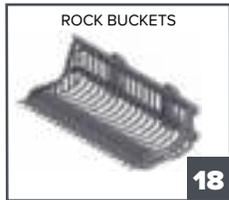
Milwaukie Facility

3810 SE Naef Road
Milwaukie, OR 97267

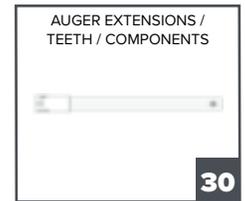
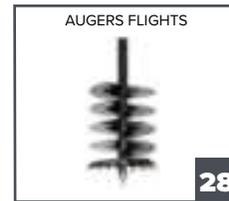
Two Harbors Facility

1538 Hwy 2
Two Harbors, MN 55616

ADAPTERS, BUCKETS, GRAPPLES & ACCESSORIES



AUGERS



MATERIAL HANDLING



SNOW & ICE



BRUSH & TREE MANAGEMENT

CHOOSE THE RIGHT TOOL 44



DEMOLITION & RECYCLING



SWEEPERS



CONCRETE & ASPHALT



SOIL PREPARATION **CHOOSE THE RIGHT TOOL 66**



DIGGING & TRENCHING



NURSERY TOOLS

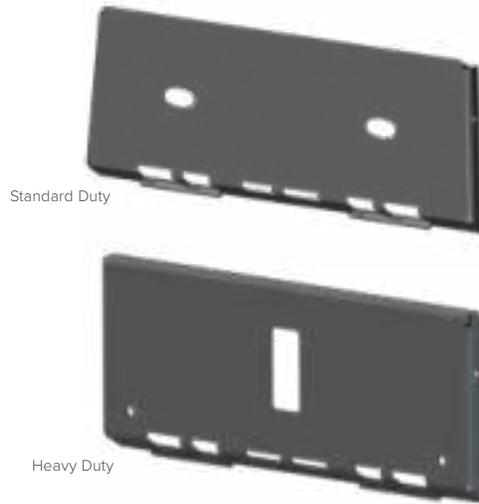


QUALITY. PRODUCTIVE. POWERFUL.



WELD-ON UNIVERSAL ADAPTERS

STANDARD DUTY / HEAVY DUTY



FEATURES

- Welds to your implement to convert it to a universal hitch

WELD-ON UNIVERSAL ADAPTERS		
DUTY CLASS	WEIGHT	ORDER CODE
Standard Duty (SD)	75 lbs	86914
Heavy Duty (HD)	123 lbs	88987

TILT ATTACH™ ADAPTER

HEAVY DUTY



FEATURES

- Tilt Attach provides better utilization of skid steer on uneven terrain
- Optional valve package is mounted to Tilt Attach for use with hydraulic powered attachments
- Simple connection by electric wiring keeps valves and hoses out of operator's cabin
- Large spherical ball bushing in center pivot allows extra strength and durability
- Abrasion resistant plate steel allows longer life

TILT ATTACH ADAPTERS (96" HOSES INCLUDED)			
DUTY CLASS	WEIGHT	TILT	ORDER CODE
Heavy Duty (HD)	400 lbs	+/- 14-deg	17446 _ 103603

ADDITIONAL HYDRAULIC FUNCTION OPTIONS		
DESCRIPTION	WEIGHT	ORDER CODE
Universal valve package*	23 lbs	88725
Electrical control box**	10 lbs	15756

CONSTRUCTION BUCKETS

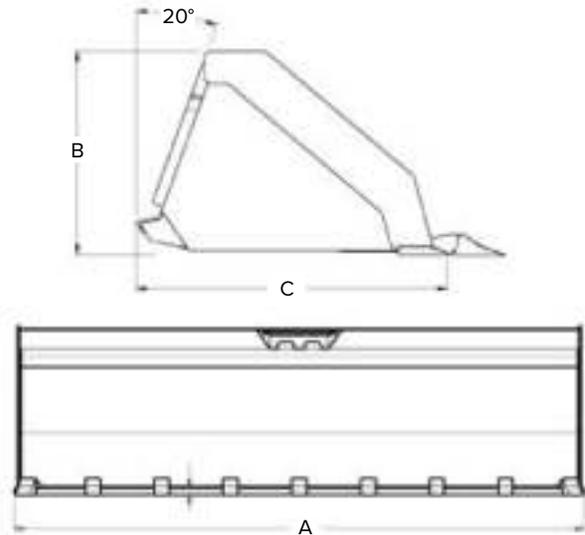
BOLT-ON EDGE



FEATURES

- Bolt-on side cutters included standard
- 75", 80" & 84" with 1" cutting edge and back drag plating for strength and protection from wear
- Optional bolt-on wear edge
- Strong box sections across the top, heel, and front edge
- High tensile side plates to support greater break out force
- Used for nursery applications, snow removal, & construction
- All bucket sizes available with H&L 23 series weld-on shanks and side pin teeth

WELD-ON TEETH



CONSTRUCTION BUCKETS

CONFIGURATION	(A) WIDTH	WEIGHT	(B) HEIGHT	(C) DEPTH	CAPACITY (HEAPED)	NO OF HOLES	HOLE SPACING	ORDER CODE
Bolt-On Edge and Side Cutters Installed	75"	710 lbs	25"	38"	.75 yd	8	10"	125784
	80"	830 lbs	25"	38"	.9 yd	7	12"	125786
	84"	850 lbs	25"	38"	1 yd	9	10"	125788
Weld-On Teeth and Side Cutters Installed	75"	645 lbs	25"	38"	.75 yd	No bolt pattern available		125785
	80"	765 lbs	25"	38"	.9 yd	No bolt pattern available		125787
	84"	785 lbs	25"	38"	1 yd	No bolt pattern available		125789

EDGES AND SIDE-CUTTER KITS

DESCRIPTION	WEIGHT	ORDER CODE
Extreme-Duty Bolt-On Side Cutter Kit (Pair)	18 lbs	107786
75" Bolt-On Edge Kit	125 lbs	18880
80" Bolt-On Edge Kit	132 lbs	89578
84" Bolt-On Edge Kit	203 lbs	16183

LIGHT MATERIAL BUCKETS

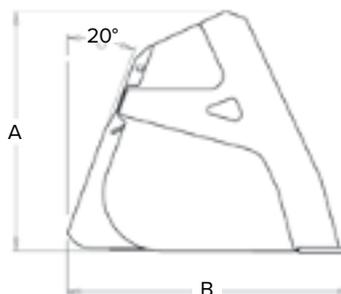
TRACTOR DUTY



FEATURES

- .75" x 6" high carbon, bevelled cutting edge
- Optional bolt-on wear edge
- Rolled inside surface for easier material clean out
- Fully integrated torque box design coupled with high tensile steel side profile cutter edges provide more load handling capacity
- Wear plating across bottom to prevent damage on bucket floor
- Forward swept top wrap to better contain wet or loose materials
- Heavy gauge bucket wrap material

STANDARD DUTY



LIGHT MATERIAL BUCKETS

DUTY CLASS	WIDTH	CONFIGURATION	WEIGHT	(A) HEIGHT	(B) DEPTH	CAPACITY (HEAPED)	HOLES	HOLE SPACING	ORDER CODE
Tractor Duty (TD)	72"	with edge	595 lbs	26.5"	30"	.6 yd	11	6.5"	125882
	78"	with edge	614 lbs	27"	31.5"	.75 yd	9	9"	125883
	84"	with edge	653 lbs	27"	32"	.75 yd	9	10"	125884
Standard Duty (SD)	84"	without edge	740 lbs	35"	41"	1.6 yd	9	10"	102191
	84"	with edge	943 lbs	35"	41"	1.6 yd	9	10"	125920
	96"	without edge	880 lbs	35"	41"	2 yd	9	11"	102333
	96"	with edge	1112 lbs	35"	41"	2 yd	9	11"	125921
Standard Duty (SD) for Wheel Loaders	54"	without edge	490 lbs	31"	30"	.5 yd	5	11"	13294
	60"	without edge	598 lbs	29"	32"	.66 yd	7	9"	13326
	60"	without edge	720 lbs	34"	42"	1 yd	7	9"	13327
	72"	without edge	760 lbs	30"	36.5"	1 yd	7	11"	13133
	78"	without edge	1000 lbs	44"	50"	2 yd	7	11"	13328
	84"	without edge	975 lbs	36"	55"	2 yd	8	11"	12975

EDGES

DESCRIPTION	ORDER CODE
54" Bolt-On Edge Kit	12927
60" Bolt-On Edge Kit	15025
72" Bolt-On Edge Kit (11 holes @ 6.5")	307104
72" Bolt-On Edge Kit (7 holes @ 11")	15028
78" Bolt-On Edge Kit (9 holes @ 9")	16204

EDGES (cont.)

DESCRIPTION	ORDER CODE
78" Bolt-On Edge Kit (7 holes @ 10.83")	12597
84" Bolt-On Edge Kit (9 holes @ 9.75")	16183
84" Bolt-On Edge Kit (8 holes @ 11")	12506
96" Bolt-On Edge Kit	11002

LOW PROFILE BUCKETS

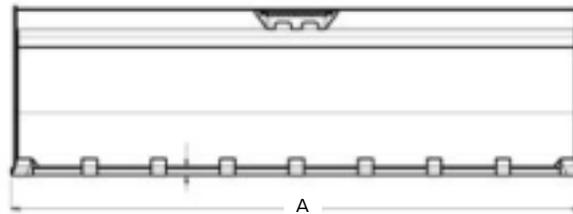
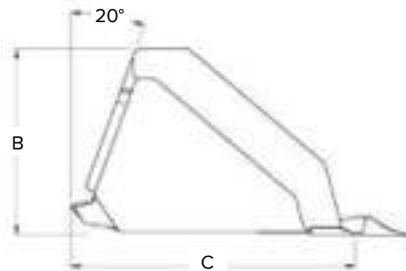
STANDARD AND LONG FLOOR



Shown with weld-on teeth and side-cutters.
Also available with bolt-on edge and side cutters.

FEATURES

- Bolt-on side cutters included standard
- 30" standard floor buckets for more severe conditions when break out force is required
- 36" long floor buckets for better visibility, productivity & cutting grade
- Heavy edges 1" for 78" width and above .75" for less than 78"
- Strong box sections and full wear strips for better bottom protection
- High tensile side cutters tie into the front edge for better support
- All bucket sizes available with H&L 23 series weld-on shanks and side pin teeth



LOW-PROFILE, HIGH-VISIBILITY LANDSCAPING BUCKETS (LPSF AND LPLF BUCKETS)

SERIES	(A) WIDTH	(B) HEIGHT	(C) DEPTH	WEIGHT	HOLES	HOLE SPACING	WITH WELD-ON TEETH AND SIDE-CUTTERS	WITH BOLT-ON EDGE AND SIDE-CUTTERS
Standard Floor (32" Floor)	60"	20"	32"	429 lbs	7	9"	KD33861	KD15120*
	68"	20"	32"	465 lbs	7	10"	KD111814	KD111813*
	72"	20"	32"	473 lbs	7	11"	KD113901	KD113900*
	78"	20"	32"	543 lbs	9	9"	KD16265	KD16270*
	84"	20"	32"	683 lbs	9	10"	KD16190	KD16180*
Long Floor (36" Floor)	68"	20"	36"	506 lbs	7	10"	KD111713	KD111712*
	72"	20"	36"	533 lbs	7	11"	KD113903	KD113902*
	75"	20"	36"	719 lbs	8	10"	125929	121488*
	78"	20"	36"	608 lbs	9	9"	KD16266	KD16271*
	80"	20"	36"	748 lbs	7	12"	KD111755	KD111754*
	84"	20"	36"	728 lbs	9	10"	KD16191	KD16181*

*Hole pattern only applies to models with Bolt-on Edge

EDGES AND SIDE-CUTTER KITS

DESCRIPTION	WEIGHT	ORDER CODE
Extreme-Duty Bolt-On Side Cutter Kit (Pair)	18 lbs	107786
60" Bolt-On Edge Kit	124 lbs	15025
68" Bolt-On Edge Kit	110 lbs	111726
72" Bolt-On Edge Kit	120 lbs	15028

EDGES AND SIDE-CUTTER KITS (cont.)

DESCRIPTION	WEIGHT	ORDER CODE
75" Bolt-On Kit	125 lbs	18880
78" Bolt-On Edge Kit	130 lbs	16204
80" Bolt-On Edge Kit	132 lbs	89578
84" Bolt-On Edge Kit	136 lbs	15029

4-IN-1 MULTI-PURPOSE BUCKETS

TRACTOR DUTY



FEATURES

- Functions as a loader bucket, clam, dozer, scraper, and bottom dump bucket
- Strong hinges & pins to distribute load
- Replacement bolt-on wear edge, bolt-on tooth bars, and bolt-on tooth bars that fit over weld-on wear edge

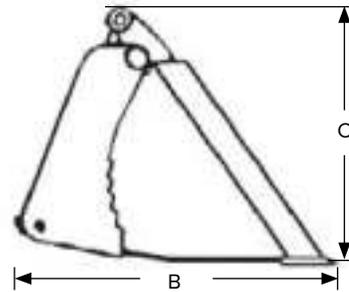
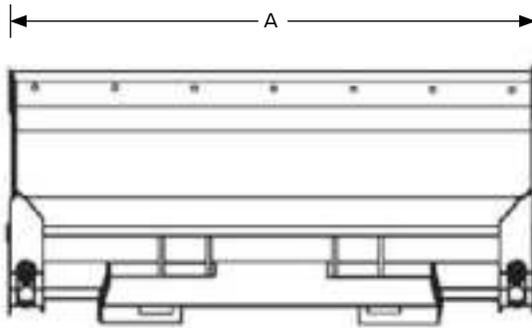
STANDARD DUTY



HEAVY DUTY



4-IN-1 MULTI-PURPOSE BUCKETS SPECIFICATIONS



4-IN-1 MULTI-PURPOSE BUCKETS (HOSES NOT INCLUDED)

DUTY CLASS	(A) WIDTH	WEIGHT	DEPTH	(C) LENGTH	CAPACITY	HEIGHT OPEN	(C) HEIGHT CLOSED	HOLES	HOLE SPACING	ORDER CODE
Tractor Duty (TD)	60"	380 lbs	28"	34.5"		29"	27"	BOE not available		108196
	72"	430 lbs	28"	34.5"		29"	27"	BOE not available		108198
Standard Duty (SD) <i>Bolt-On Edge Optional</i>	60"	585 lbs	35"	34.5"	.53 yd	35"	28"	7	9"	111470
	66"	620 lbs	35"	34.5"	.58 yd	35"	28"	7	10"	108018
	72"	655 lbs	35"	34.5"	.64 yd	35"	28"	7	11"	108020
Heavy Duty (HD) <i>Bolt-On Edge and Side-Cutters Optional</i>	72"	900 lbs	38"	34.5"	.75 yd	35"	28"	9	9"	108022
	78"	935 lbs	38"	34.5"	.80 yd	35"	28"	9	10"	108024
	84"	975 lbs	38"	34.5"	.87 yd	35"	28"	9	10"	108026
Heavy Duty (HD) with Weld-On Teeth <i>Side-Cutters Optional</i>	72"	958 lbs	38"	34.5"	.75 yd	35"	28"	BOE not available		108023
	78"	993 lbs	38"	34.5"	.80 yd	35"	28"	BOE not available		108025
	84"	1040 lbs	38"	34.5"	.87 yd	35"	28"	BOE not available		108027

HOSES (1/2" QD)

HOSE LENGTH	ORDER CODE
66"	103577
75"	105845
94"	103603

EDGES AND SIDE-CUTTER KITS

DESCRIPTION	WEIGHT	ORDER CODE
Extreme-Duty Bolt-On Side Cutter Kit (Pair)	18 lbs	107786
60" Bolt-On Edge Kit	124 lbs	15025
66" Bolt-On Edge Kit	120 lbs	15027
72" Bolt-On Edge Kit	150 lbs	15028
78" Bolt-On Edge Kit	130 lbs	16204
84" Bolt-On Edge Kit	203 lbs	16183

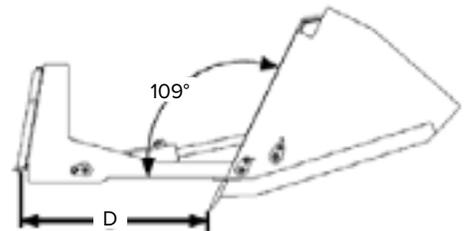
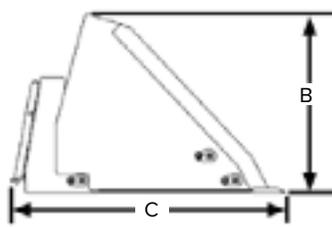
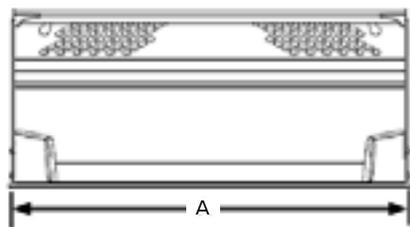
HIGH-DUMP BUCKETS

HEAVY DUTY



FEATURES

- Robust industry leading design
- Increases dump height by 74" compared to standard buckets
- Dual cushion cylinders for smooth operation and rapid cycle times
- 1.5" diameter pivot pins from high-strength material



HIGH-DUMP BUCKETS (HOSES NOT INCLUDED)

DUTY CLASS	(A) WIDTH	WEIGHT	(B) HEIGHT	(C) LENGTH	(D) DUMP REACH	HOLES	HOLE SPACING	ORDER CODE
Standard Duty (SD)	60"	1000 lbs	32.5"	50"	34"	7	9"	122651
	72"	1170 lbs	32.5"	50"	34"	7	11"	122619
	84"	1275 lbs	32.5"	50"	34"	9	10"	122657
	96"	1359 lbs	32.5"	50"	34"	16	6"	122660

*Does not include hoses or optional bolt-on edge.

HOSES (1/2" QD)

HOSE LENGTH	ORDER CODE
60"	MTG1113-0022
80"	MTG1113-0903
88"	MTG1113-9783
96"	117285

BOLT-ON EDGE KITS

DESCRIPTION	WEIGHT	ORDER CODE
60" Bolt-On Edge Kit	124 lbs	15025
72" Bolt-On Edge Kit	120 lbs	15028
84" Bolt-On Edge Kit	203 lbs	16183
96" Bolt-On Edge Kit	232 lbs	FFC10084

SNOW BUCKETS

STANDARD CAPACITY



STANDARD CAPACITY FEATURES

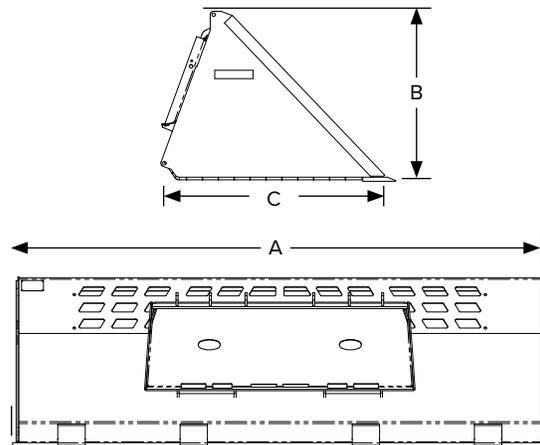
- See-through tall-back design enables high-capacity without sacrificing visibility
- Vertical reinforcements inside the bucket create strength and rigidity without compromising volume
- Wear guards on the bucket bottom extend life

HIGH CAPACITY



HIGH CAPACITY FEATURES

- Taller back and larger side plates, for increased capacity without increasing width
- 108" option moves nearly 3 yards of snow in a single scoop



SNOW BUCKETS (INCLUDES BOLT ON EDGE)

DUTY CLASS	(A) WIDTH	WEIGHT	(B) HEIGHT	(C) DEPTH	CAPACITY (HEAPED)	HOLES	HOLE SPACING	ORDER CODE
Standard Capacity	84"	733 lbs	30"	42"	1.47 yd	9	10"	11184-0022
	96"	795 lbs	30"	42"	1.70 yd	16	6"	11196-0022
	101"	820 lbs	30"	42"	1.82 yd	17	6"	11101-0022
High Capacity	96"	999 lbs	37.5"	46"	2.36 yd	16	6"	11197-0022
	101"	1020 lbs	37.5"	46"	2.52 yd	17	6"	11102-0022
	108"	1078 lbs	37.5"	46"	2.67 yd	18	6"	11108-0022

BOLT-ON EDGE KITS

DESCRIPTION	WEIGHT	ORDER CODE
84" Bolt-On Edge Kit	203 lbs	16183
96" Bolt-On Edge Kit	232 lbs	FFC10084
101" Bolt-On Edge Kit	247 lbs	118960
108" Bolt-On Edge Kit	254 lbs	10094

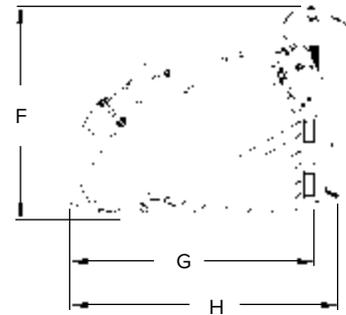
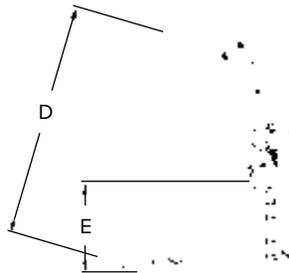
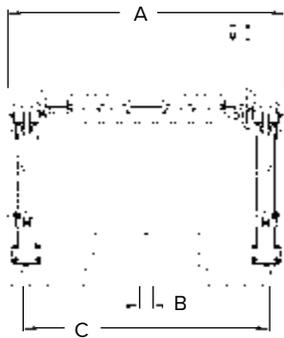
ROCK BUCKETS

HEAVY DUTY



FEATURES

- One grapple assembly fits 66", 75", and 84" rock buckets with 2" and 3" bucket tine spacing
- Hooks are welded to front tube rather than individual bolted for added strength and ease of assembly
- Replaceable front tine assembly
- Hooks do not extend beyond front plane of bucket tines
- Grapple hooks interlock with bucket tines
- Added structure between grapple arms to trap and contain debris
- Spherical bearings, threaded cylinder glands, and secluded grease zerks for added durability
- Easy to assemble grapple mounting



ROCK BUCKETS

DUTY CLASS	(A) WIDTH	(B) TINE SPACING	WEIGHT	(D) GRAPPLE OPENING	(E) BUCKET HEIGHT	(F) SHIPPING WIDTH GRAPPLE	(G) DEPTH NO MOUNTING	(H) DEPTH WITH MOUNTING	ORDER CODE
Heavy Duty (HD)	66"	3"	555 lbs	60"	22"	38"	43"	50"	89627
	75"	2"	742 lbs	60"	22"	38"	43"	50"	16297
	75"	3"	625 lbs	60"	22"	38"	43"	50"	89646
	84"	3"	692 lbs	60"	22"	38"	43"	50"	16503

OPTIONS

DESCRIPTION	(C) WIDTH	COMPATIBILITY	WEIGHT	ORDER CODE
Grapple kit + 75" hose kit	60"	Heavy Duty Rock Buckets	510 lbs	104950 _ 105845

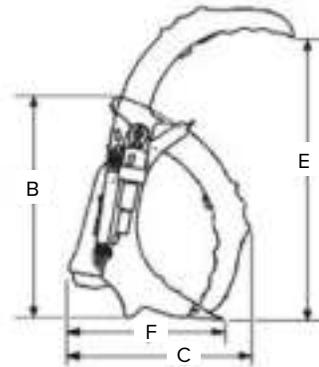
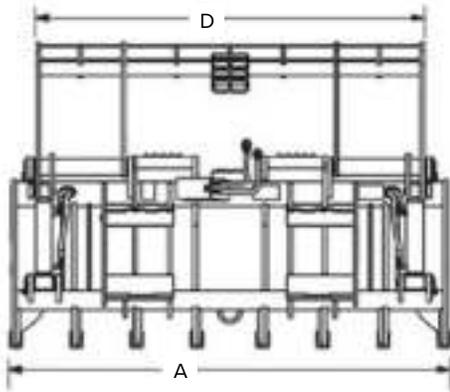
ROOT GRAPPLES

HEAVY DUTY



FEATURES

- Leading edge of the grapple travels in a range of motion that pulls material into the bucket area to optimize its large capacity for brush and debris
- Constructed of high strength material with replaceable pin-on H&L style teeth for durability, serviceability, and extended life
- Pilot operated check for positive lock clamping
- Replaceable hardened steel bushings at all pivot locations
- Weld-on D-ring for countless applications



ROOT GRAPPLES

DUTY CLASS	(A) WIDTH	WEIGHT	(E) GRAPPLE OPENING	(F) TOOTH POSITIONING	TINE THICKNESS	TINE SPACING	(B) HEIGHT	(C) LENGTH	(D) GRAPPLE WIDTH	ORDER CODE
Heavy Duty (HD)	72"	1300 lbs	51"	27"	1.5"	9.5"	40"	31"	70"	123685
	78"	1350 lbs	51"	27"	1.5"	10"	40"	31"	70"	123682
	84"	1399 lbs	51"	27"	1.5"	8.5"	40"	31"	70"	123683

*Includes 84" hoses with 1/2" QD

OPTIONS

DESCRIPTION	WIDTH	ORDER CODE
Replacement Tooth Kit (2 Teeth & 2 Pins)*	Fits All Models	118887

*72" & 78" Grapple requires 8 teeth. 84" Grapple requires 10 teeth.

HOSE KITS

DESCRIPTION	ORDER CODE
76" with 1/2" QD	121151
84" with 1/2" QD	121152
96" with 1/2" QD	121084

BRUSH GRAPPLES

TRACTOR DUTY



FEATURES

- 6" tine spacing
- Standard cylinder guards protect all cylinder components
- 1.25" cylinder pivot pins
- 1.25" x 24" patented grapple pins greatly reduce torsional force
- .375" end plates on Tractor Duty and .5" end plates on Standard and Extreme Duty
- Patented cushioned and sleeved cylinders are 2" x 8" x 1.25"
- Standard load check valve
- 100,000 PSI yield strength tine material

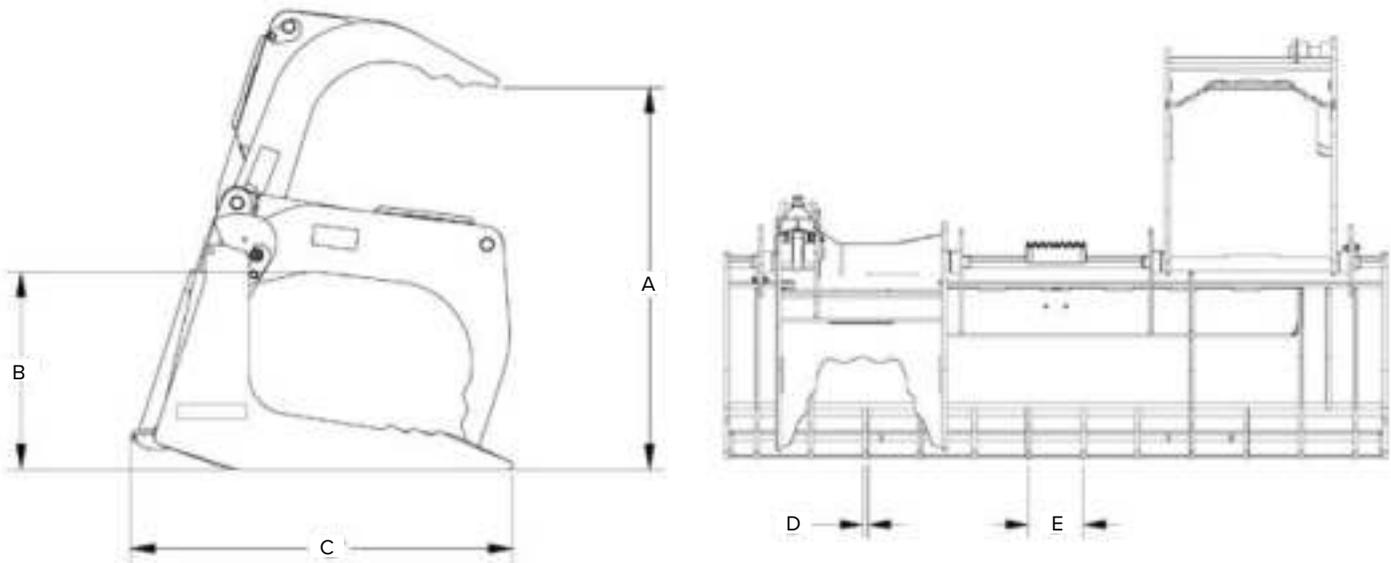
STANDARD DUTY



HEAVY DUTY



BRUSH GRAPPLES SPECIFICATIONS



BRUSH GRAPPLES									
DUTY CLASS	WIDTH	WEIGHT	CYLINDERS	(A) HEIGHT OPEN	(B) HEIGHT CLOSED	(C) DEPTH	(D) TINE THICKNESS	(E) TINE SPACING	ORDER CODE
Tractor Duty (TD)	48"	300 lbs	1	29"	25.5"	30.5"	0.3"	6"	108597
	54"	315 lbs	1	29"	25.5"	30.5"	0.3"	6"	108598
	72"	435 lbs	2	29"	25.5"	30.5"	0.3"	6"	108415
Standard Duty (SD)	60"	723 lbs	2	33"	17.5"	36"	0.4"	6"	123661
	66"	740 lbs	2	33"	17.5"	36"	0.4"	6"	123662
	72"	775 lbs	2	33"	17.5"	36"	0.4"	6"	123663
Heavy Duty (HD)	72"	925 lbs	2	40"	16.5"	39"	0.5"	6"	123664
	78"	999 lbs	2	40"	16.5"	39"	0.5"	6"	123665
	84"	1054 lbs	2	40"	16.5"	39"	0.5"	6"	123666

TD models do not include hoses.
 SD and HD models include 88" hoses with 90° 1/2 QD's routed to operator left hand side.
 Each model contains 2 independent grapples.

REPLACEMENT HOSE KITS		
COMPATIBILITY	DESCRIPTION	ORDER CODE
TD	Dealer-supplied	
SD, HD	60" with 1/2" QD	MTG1113-0022
	80" with 1/2" QD	MTG1113-0903
	80" with 1/2" QD and 90-deg couplers (use for Bobcat M series)	MTG1113-0319
	88" with 1/2" QD	MTG1113-9783
	96" with 1/2" QD	117285

SCRAP GRAPPLE BUCKETS

STANDARD & HEAVY DUTY



SD & HD FEATURES

- Standard cylinder guards protect all cylinder components
- Standard load check valve
- 1.25" cylinder pivot pins
- 1.25" x 24" patented grapple pins reduce torsional force
- Patented cushioned cylinders are 2" x 8" x 1.25" on full feature
- Bucket edge drilled for FFC® replaceable edge unless specified
- Optional .75" x 8" double bevelled edge

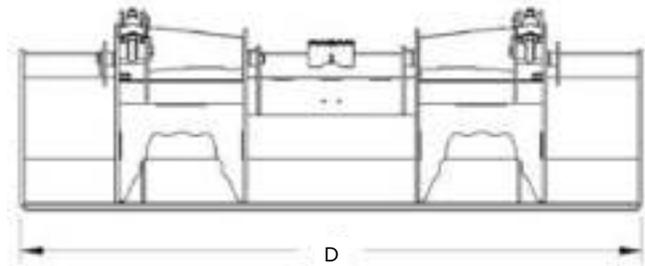
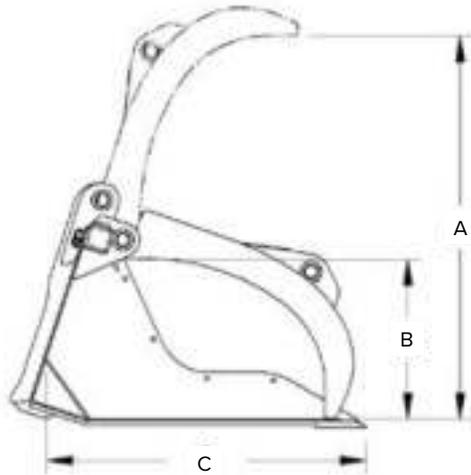
EXTREME DUTY



XD FEATURES

- Optional cylinder guards protect all cylinder components
- 1.5" x 8.625" heat-treated, greasable pivot pins on full feature
- 1.5" x 27.125" patented grapple pins reduce torsional force
- .375" end plates
- Patented cushioned & sleeved cylinders are 2.5" x 8" x 1.75" on full feature
- Bucket edge drilled for FFC® replaceable edge unless specified
- Optional .75" x 8" double bevelled edge

SCRAP GRAPPLE BUCKETS SPECIFICATIONS



SCRAP GRAPPLE BUCKETS (INCLUDES BOLT-ON EDGE)

DUTY CLASS	(D) WIDTH	WEIGHT	(A) HEIGHT OPEN	(B) HEIGHT CLOSED	(C) DEPTH	HOLES	HOLE SPACING	ORDER CODE
Standard Duty (SD)	60"	775 lbs	34"	20"	36"	7	9"	123668
	66"	800 lbs	34"	20"	36"	7	10"	123669
	72"	870 lbs	34"	20"	36"	7	11"	123670
Heavy Duty (HD)	76"	1081 lbs	40"	20"	38"	8	10"	123671
	82"	1133 lbs	40"	20"	38"	9	10"	123672
Extreme Duty (XD)	72"	1303 lbs	45.5"	19"	38"	7	11"	LAF5273-0022
	78"	1514 lbs	45.5"	19"	38"	9	9"	LAF5278-0022
	82"	1542 lbs	45.5"	19"	38"	9	10"	LAF5282-0022

SD and HD models include 88" hoses with 90° 1/2" QD's with hoses routed to operator's left hand side.
 XD models include 78" hoses with 1/2" QD's routed straight back.
 Each model contains 2 independent grapples.

REPLACEMENT HOSE KITS

DESCRIPTION	ORDER CODE
60" with 1/2" QD	MTG1113-0022
80" with 1/2" QD	MTG1113-0903
80" with 1/2" QD and 90-deg couplers (use for Bobcat M series)	MTG1113-0319
88" with 1/2" QD	MTG1113-9783
96" with 1/2" QD	117285

BOLT-ON EDGE KITS

DESCRIPTION	ORDER CODE
60" Bolt-On Edge Kit, fits Scrap Grapple Buckets	15025
66" Bolt-On Edge Kit, fits Scrap Grapple Buckets	15027
72" Bolt-On Edge Kit, fits Scrap Grapple Buckets	15028
76" Bolt-On Edge Kit, fits Scrap Grapple Buckets	11800
78" Bolt-On Edge Kit, fits Scrap Grapple Buckets	16204
82" Bolt-On Edge Kit, fits Scrap Grapple Buckets	15029

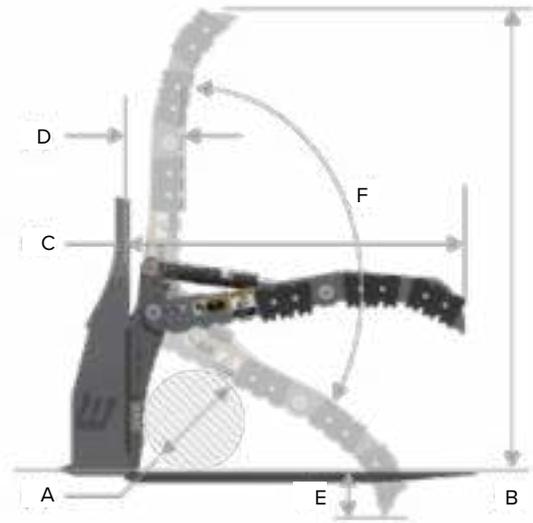
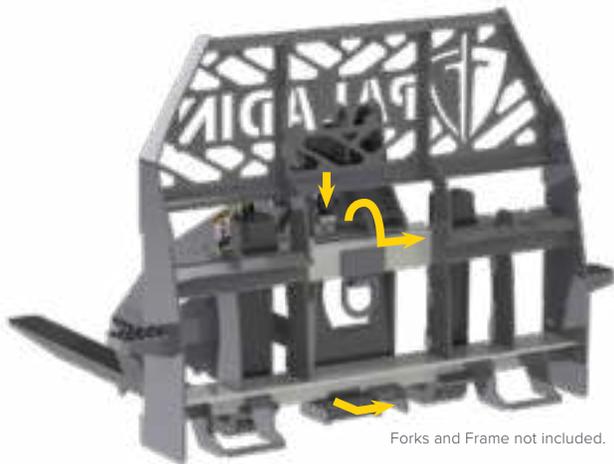
SHARKBITE™ GRAPPLE



FEATURES

- Fits all standard Class II ITA fork rails
- Field install is under 5 minutes with no tools
- High strength steel construction
- Powder coat finish

FORK-STYLE INSTALL



SHARKBITE™ GRAPPLE (HOSES INCLUDED)

WEIGHT	(A) MINIMUM LOAD DIAMETER	(B) OVERALL HEIGHT	(C) DEPTH	(D) MINIMUM ENVELOPE	(E) PASS-THRU	(F) RANGE OF MOTION	ORDER CODE
175 lbs	14"	63.5"	46.5"	7.5"	7.5"	117°	233180

*Includes 80" hoses with 1/2" QD.
Optional Shark Teeth sold separately.
Forks and frame sold separately.

OPTIONAL TOOTH KIT

DESCRIPTION	ORDER CODE
Reversible AR400 Hardened Teeth (QTY 6 - Field Install)	233215

QUALITY. PRODUCTIVE. POWERFUL.



AUGER DRIVES

75D SERIES AUGER DRIVES



FEATURES

- All 75 Series hydraulic motors drive the auger through a sealed planetary gear reduction
- The heavy-duty, all-gear design gives these units a long life with minimal maintenance and service costs
- 75 Series drive units are completely sealed, with all moving components running in oil for total lubrication on a constant basis
- All models feature reverse rotation for quick backout when obstructions are encountered
- The system's hydraulic relief valve protects the units from damage when the auger hits large, immovable objects

AUGER DRIVES (INCLUDES MOUNT WITH CRADLE AND HOSES)

SERIES	FLOW	HUB SHAPE	WEIGHT	ORDER CODE
X975D*	6 - 15 GPM	2.56" Round	405 lbs	124803
		2" Hex	405 lbs	124804
X1475D*	10 - 25 GPM	2.56" Round	407 lbs	124805
		2" Hex	407 lbs	124806
X1975D*	15 - 30 GPM	2.56" Round	409 lbs	124807
		2" Hex	409 lbs	124808
X2475D*	20 - 35 GPM	2.56" Round	411 lbs	124809
		2" Hex	411 lbs	124810

*Includes mount with cradle and 108" hoses with 1/2" QD

AUGER SSL MOUNTS

DESCRIPTION	ORDER CODE
SSL Mount with Cradle (Included in SSL Drives)	113026

AUGER DRIVES SPECIFICATIONS

OUTPUT SPEED		
SERIES	FLOW	SPEED
X975D	6 GPM 23 LPM	38 RPM
	8 GPM 30 LPM	50 RPM
	10 GPM 38 LPM	63 RPM
	12 GPM 45 LPM	75 RPM
	15 GPM 57 LPM	94 RPM
X1475D	10 GPM 38 LPM	40 RPM
	12 GPM 45 LPM	49 RPM
	14 GPM 53 LPM	57 RPM
	15 GPM 61 LPM	61 RPM
	20 GPM 76 LPM	79 RPM
X1975D	25 GPM 95 LPM	104 RPM
	15 GPM 57 LPM	53 RPM
	18 GPM 68 LPM	63 RPM
	20 GPM 76 LPM	70 RPM
	24 GPM 91 LPM	84 RPM
X2475D	28 GPM 106 LPM	98 RPM
	30 GPM 114 LPM	106 RPM
	20 GPM 76 LPM	56 RPM
	22 GPM 83 LPM	61 RPM
	24 GPM 91 LPM	67 RPM
X2475D	26 GPM 98 LPM	73 RPM
	28 GPM 106 LPM	78 RPM
	30 GPM 114 LPM	84 RPM
	35 GPM 132 LPM	98 RPM

OUTPUT TORQUE			
SERIES	PRESSURE	TORQUE	
X975D	2000 PSI 141 BAR	1000 ft. lbs.	1356 N. m.
	2500 PSI 176 BAR	1277 ft. lbs.	1731 N. m.
	3000 PSI 211 BAR	1500 ft. lbs.	2034 N. m.
	3500 PSI 241 BAR	1713 ft. lbs.	2330 N. m.
	2000 PSI 138 BAR	1600 ft. lbs.	2169 N. m.
X1475D	2500 PSI 172 BAR	2000 ft. lbs.	2712 N. m.
	3000 PSI 207 BAR	2377 ft. lbs.	3223 N. m.
	3500 PSI 241 BAR	2630 ft. lbs.	3577 N. m.
X1975D	2000 PSI 138 BAR	1856 ft. lbs.	2516 N. m.
	2500 PSI 172 BAR	2328 ft. lbs.	3156 N. m.
	3000 PSI 207 BAR	2769 ft. lbs.	3754 N. m.
	3500 PSI 241 BAR	3044 ft. lbs.	4140 N. m.
X2475D	2000 PSI 138 BAR	2308 lb. ft.	3129 N. m.
	2500 PSI 172 BAR	2895 lb. ft.	3925 N. m.
	3000 PSI 207 BAR	3451 lb. ft.	4686 N. m.
	3500 PSI 241 BAR	3821 ft. lbs.	5196 N. m.

AUGER FLIGHTS

MEDIUM DUTY - HDF STYLE



These Augers are made for light to moderate ground conditions. The HDF augers feature a fabricated boring head with hardened bolt-on gage (outside) and wisdom (inside) teeth, as well as a hardened fishtail point. These augers also are equipped with heavy-duty double flighting.

HEAVY DUTY - HDC STYLE



These Augers are made for difficult ground conditions, compacted soils, heavy clay, frozen ground and fracturable rock. The HDC Augers feature heavy duty cast steel boring head, hardened drive-in gage (outside) and wisdom (inside) teeth. Equipped with hardened fishtail point and heavy-duty, double flighting.

ROCK AUGERS - BULLET TOOTH



These Augers are made for solid, fracturable rock, frozen ground, asphalt and compacted soils. These rock augers feature bullet style teeth and a fabricated boring head, as well as heavy-duty single flighting. This auger comes in 2" hexagon collar only and is available in 4' length. The auger has a .75" thick bottom flight and a hardface outer edge.

HEAVY DUTY - HTF STYLE



These Augers are made for tree and shrub planting. The HTF augers have a 2" diameter design with a fabricated boring head and hardened bolt-on gauge (outside) and wisdom (inside) teeth. Augers also come equipped with a hardened fishtail point and heavy-duty double flighting.

AUGER FLIGHTS SPECIFICATIONS

AUGERS						
STYLE	LENGTH	WIDTH	NO. OF TEETH	WEIGHT	ORDER CODE (2" HEX)	ORDER CODE (2.56" ROUND)
HDF	36"	6"	2	32 lbs	20018	20020
		9"	3	62 lbs	20092	20095
		12"	4	83 lbs	20180	20182
		18"	6	115 lbs	20302	20304
		24"	8	164 lbs	20383	20385
		30"	10	233 lbs	20426	20428
		36"	12	315 lbs	20471	20473
	48"	6"	2	42 lbs	20021	20025
		9"	4	86 lbs	20096	20100
		12"	4	120 lbs	20183	20187
		18"	6	160 lbs	20306	20309
		24"	8	278 lbs	20386	20389
		30"	10	325 lbs	20429	20431
		36"	12	443 lbs	20474	20476
HDC	36"	6"	2	36 lbs	20033	20035
		9"	4	74 lbs	20109	20112
		12"	4	96 lbs	20198	20200
		18"	6	134 lbs	20318	20320
		24"	8	173 lbs	20397	20399
		30"	10	220 lbs	20438	20440
		36"	12	302 lbs	20483	20485
	48"	6"	2	45 lbs	20036	20039
		9"	4	98 lbs	20113	20116
		12"	4	128 lbs	20201	20204
		18"	6	204 lbs	20321	20324
		24"	8	272 lbs	20401	20403
		30"	10	312 lbs	20441	20443
		36"	12	430 lbs	20486	20488
ROCK	48"	42"	16	460 lbs	20512	20514
		48"	18	550 lbs	20523	20524
		6"	8	82 lbs	157430	N/A
		9"	10	110 lbs	157431	N/A
		12"	12	137 lbs	157433	N/A
		18"	16	192 lbs	157435	N/A
		24"	20	285 lbs	157437	N/A
HTF	48"	30"	24	315 lbs	157438	N/A
		36"	26	414 lbs	157439	N/A
		18"	7	144 lbs	20334	20335
		24"	10	198 lbs	20414	20416
		30"	11	264 lbs	20454	20456
		36"	13	349 lbs	20499	20501
HTF	48"	42"	15	330 lbs	20515	20516
		48"	17	427 lbs	20525	20527

AUGER EXTENSIONS / TEETH / COMPONENTS

FIXED LENGTH AUGER EXTENSIONS



- Fixed length auger extensions extend the augers digging depth to exactly the length of the extension. McMillen Fixed Length Extensions are available with 2" round, 2.5625" round, 2" hexagon, 2.5" hexagon or 2.625" hexagon collars. These extensions do not store within the auger.

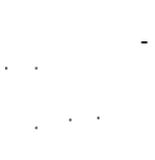
VARIABLE LENGTH AUGER EXTENSIONS



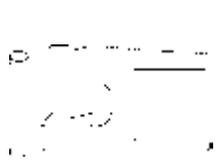
- Variable length auger extensions store inside the center tube of the augers that are 10" diameter or larger. Extension increments are every 6" on 12" through 24" extensions and every 12" on 48" through 72" extensions. Variable length extensions are available with 2" round, 2.5625" round, 2" hexagon, 2.5" hexagon, or 2.5625" hexagon collars.

AUGER TEETH / COMPONENTS

Gage Tooth



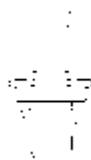
Wisdom Tooth



Chisel Tooth



Rock Tooth



Fishtail Point Female



Fishtail Point Male Square Shank



AUGER EXTENSIONS / TEETH / COMPONENTS

AUGERS EXTENSIONS				
STYLE	HUB SHAPE	LENGTH	WEIGHT	ORDER CODE
Fixed Length	2" Hex	24"	34 lbs	22851
		48"	57 lbs	22858
		72"	83 lbs	22865
	2.56" Round	24"	40 lbs	22856
		48"	74 lbs	22863
		72"	109 lbs	22872
Variable Length	2" Hex	24"	32 lbs	23117
		48"	57 lbs	23126
		72"	80 lbs	23135
	2.56" Round	24"	39 lbs	23122
		48"	74 lbs	23133
		72"	109 lbs	23143

AUGER TEETH AND COMPONENTS					
FITS HDF	FITS HDC	FITS HTF	FITS ROCK	DESCRIPTION	ORDER CODE
x	x	x		G Fishtail Point, 3.5", Fits HDF HDC HTF	22190
x	x	x		G Fishtail Point Carbide, Fits HDF HDC HTF	22191
x	x	x		Hard-Faced/Carbide Fishtail, 3.5" (Male), Fits HDF HDC HTF	22192
x	x	x		A Gage Tooth (Outside), Fits HDF HDC HTF	22169
x	x	x		B Carbide Tooth (Inside and Outside), Fits HDF HDC HTF	22186
	x	x		D Chisel Tooth, Fits HDC HTF	22181
	x	x		D Chisel Tooth Carbide, Fits HDC HTF	22182
x		x		Bolt, .625", Fits HDF HTF	22306
	x	x		Nut, .625", Fits HDF HTF	1839
	x			C Rubber Lock, Fits HDC	22154
			x	Pilot Bit Assembly, Fits Rock	137208
			x	Bullet Tooth, Fits Rock	113724
			x	Tooth Holder, Fits Rock	24055
x	x			Hard-Faced Wisdom Tooth, Fits HDF HDC HTF	22170
x	x	x		Carbide Wisdom, Fits HDF HDC HTF	22186
	x	x		Carbide Chisel, Fits HDC HTF	22182
x	x	x		Carbide Fishtail (Male), Fits HDF HDC HTF	22191
x	x	x		Hard-Faced/Carbide Fishtail (Male), Fits HDF HDC HTF	22193
x	x	x	x	2.56" Round Auger Collar, Fits HDF HDC HTF Rock	22236
x	x	x	x	2" Hex Auger Collar, Fits HDF HDC HTF Rock	22209

PALLET FORKS

STANDARD DUTY - HIGH VIS



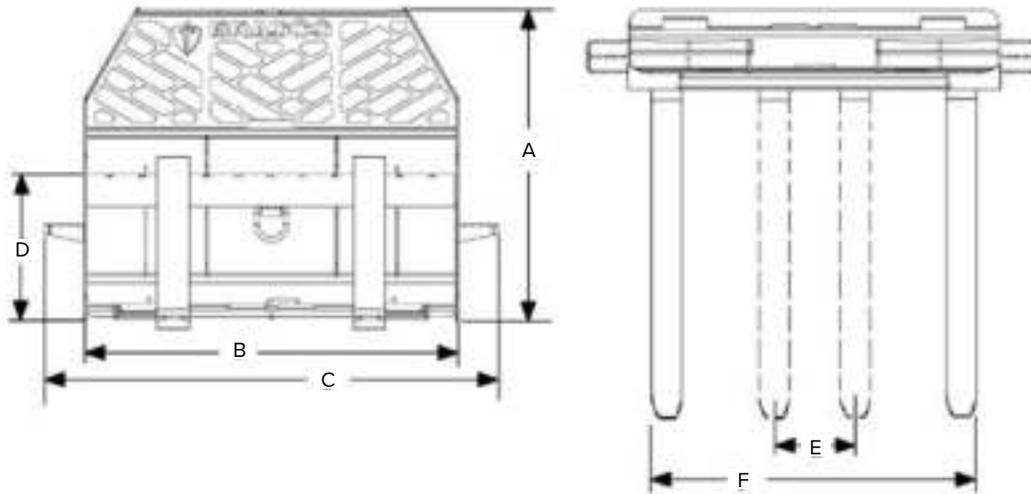
FEATURES

- Lever style locks provide additional leverage when operating the tine latching mechanism
- Patented pull "D" ring design can be used to pull loads out of trucks, retain loads, and much more. US Patent # 6,881,023
- Excellent see through visibility allows the operator to see tine ends
- Standard, Extended, Walk-Thru available
- Walk-Thru carriage design has an open frame for easy, safe access to operator compartment on loader

STANDARD DUTY - WALK-THRU



PALLET FORKS SPECIFICATIONS



PALLET FORK SPECIFICATIONS	STANDARD	EXTENDED	WALK-THRU
A. Overall Height	39.5"	39"	37.5"
B. Overall Width (Without Step)	46"	61"	46"
C. Overall Width With Step (One Step on 60")	55.5"	66"	55.5"
D. ITA Category II Fork Mounting	16"	16"	16"
E. Adjustable Tine Spacing - Minimum (Center)	9"	9"	9"
F. Adjustable Tine Spacing - Maximum (Outside)	44"	60"	44"

CLASS II ITA FORK FRAMES (FORKS NOT INCLUDED)				
DUTY CLASS	STYLE	WIDTH	WEIGHT	ORDER CODE
Tractor Duty (TD)	Standard Brick Guard	45.5"	120 lbs	107283
	Signature Series: High-Vis, Solid Brick Guard	55"	219 lbs	30945-0022
Standard Duty (SD)	Walk-Thru Brick Guard	50.5"	209 lbs	30947-0022
	Extra-Wide Frame	65"	265 lbs	119401

CLASS III ITA FORK FRAMES (FORKS NOT INCLUDED)				
DUTY CLASS	STYLE	WIDTH	WEIGHT	ORDER CODE
Heavy Duty (HD) for Wheel Loaders	Heavy Duty Class III Fork Frame for Wheel Loaders	60"	560 lbs	10047-0022

Signature-Series Frames with Custom Logos Available By Request - Pricing May Vary

ITA-MOUNT FORKS		
CLASS AND WEIGHT RATING	LENGTH	ORDER CODE
Class II - 3750 LBS	42"	102028
	48"	102030
Class II - 4000 LBS	42"	66302
	48"	67604
Class II - 5500 LBS	42"	102032
	48"	102034
Class II - 6000 LBS	42"	85962
	48"	85994
Class II - 6200 LBS	60"	12678
	72"	12509
Class III - 10000 LBS	42"	FFC10043
	48"	FFC10044
	60"	FFC10045

ITA-MOUNT BALE SPEARS	
STYLE	ORDER CODE
2-Spear	17253
3-Spear	17240

Upgrade your pallet forks into an ultra-versatile grapple with the SharkBite Grapple on page 24.

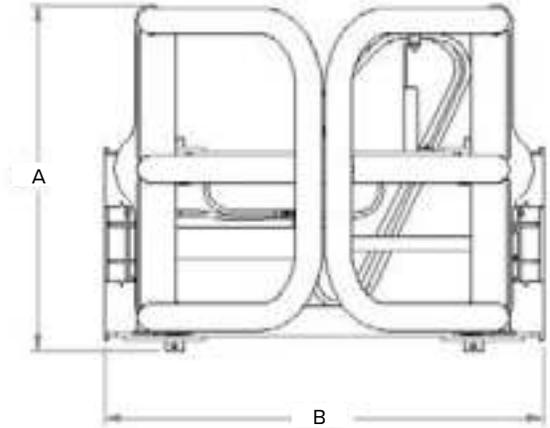


BALE HUGGERS



FEATURES

- Clamps loads from 28" to 80" wide
- Hydraulically driven pressure arms
- Ideal for placing and removing concrete forms
- Adds 6.5' of reach to your loader
- Does not include chains or clevis



BALE HUGGERS (HOSES INCLUDED)

DUTY CLASS	WEIGHT	(A) HEIGHT	(B) WIDTH	CLAMPING RANGE	ORDER CODE
Standard Duty (SD)	520 lbs	37"	47"	28" - 80"	LAF1960-0022*

*Includes 104" hoses, 1/2" QD

BALE SPEARS

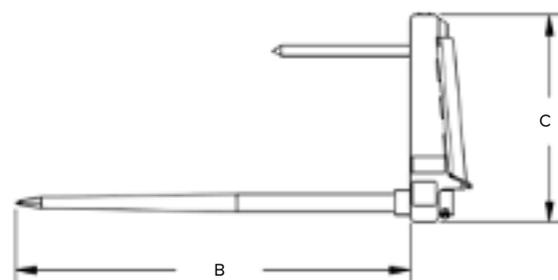
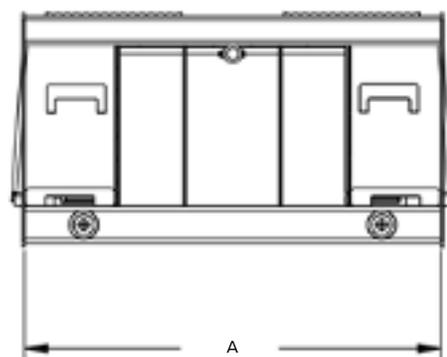
STANDARD DUTY - SINGLE SPEAR



FEATURES

- Built to lift, transport, and stack round or square bales of organic materials.
- Picks up one large round bale up to 6' in diameter
- Available in single and dual spears

STANDARD DUTY - SINGLE SPEAR



DEDICATED BALE SPEARS (INCLUDES TINES)

DUTY CLASS	STYLE	WEIGHT	(A) WIDTH	(B) LENGTH	(C) HEIGHT	ORDER CODE
Tractor Duty (TD)	Single Spear	145 lbs	48"	48"	25.25"	17200-0022
	Dual Spear	155 lbs	48"	48"	25.25"	17212-0022
Standard Duty (SD)	Single Spear	222 lbs	48"	48"	25.25"	11910-0022
	Dual Spear	240 lbs	48"	48"	25.25"	11920-0022

REPLACEMENT TINES (SOLD INDIVIDUALLY)

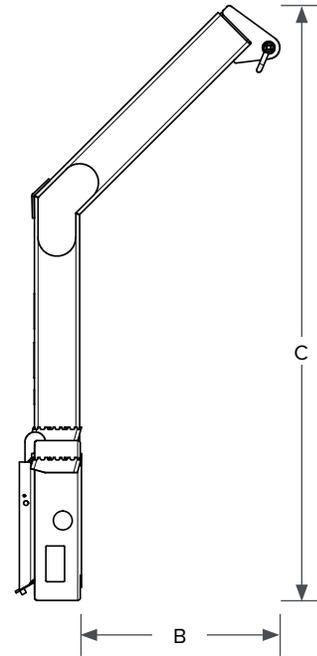
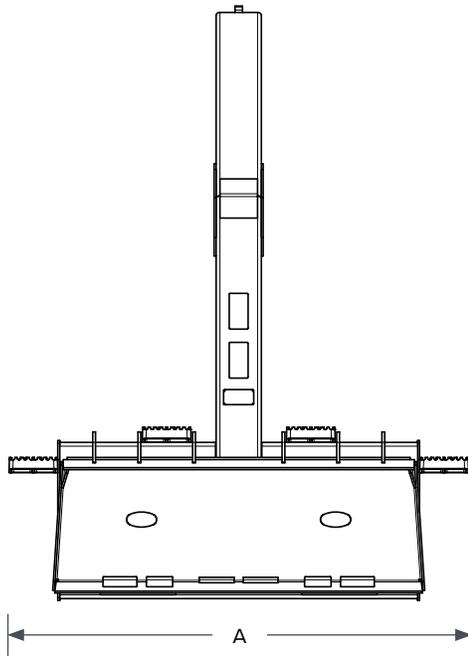
DUTY CLASS FIT	WEIGHT	DIAMETER	LENGTH	ORDER CODE
Tractor Duty	25 lbs	45mm	1250mm	116336
Standard Duty	38 lbs	55mm	1350mm	07-10150

BOOMS



FEATURES

- Ideal for moving trees for transplanting
- Use to load and unload attachments, etc.
- Ideal for placing and removing concrete forms
- Adds 6.5' of reach to your loader
- Does not include chains or clevis



LOADER BOOMS							
(A) WIDTH	(B) OVERALL DEPTH	(C) HEIGHT	LOAD DEPTH	REACH	WEIGHT	ORDER CODE	
47"	31"	73"	25"	83"	400 lbs	LAF2210-0022	

POWERFUL ATTACHMENT TOOLS



SNOW BLOWERS

STANDARD FLOW



STANDARD FLOW FEATURES

- Two-stage hydraulic blower throws snow up to 45'
- Electro/hydraulic, poly-lined chute and deflector
- Reinforced wrapper and adjustable skid shoes

HIGH FLOW



HIGH FLOW FEATURES

Same as Standard Flow with the addition of:

- More power
- Taller hood
- Larger auger size
- Larger fan diameter

HIGH FLOW, HIGH TORQUE



HIGH FLOW, HIGH TORQUE FEATURES

Same as High Flow with the addition of:

- Additional motor on auger, which adds additional torque to deal with heavier, stickier, harder snow

SNOW BLOWER SPECIFICATIONS

SNOW BLOWERS									
CLASS	SERIES	FLOW	WIDTH	WEIGHT	AUGER MOTORS	HEIGHT	DEPTH	AUGER DIAMETER	ORDER CODE
Compact Flow	A	8 - 13 GPM	48"	745 lbs	Single	25"	38"	14"	11048A-0022
	C	12 - 16 GPM	60"	795 lbs	Single	25"	38"	14"	11060C-0022
Standard Flow	D	14 - 21 GPM	60"	795 lbs	Single	25"	38"	14"	11060D-0022
	D	14 - 21 GPM	72"	845 lbs	Single	25"	38"	14"	11072D-0022
	D	14 - 21 GPM	84"	895 lbs	Single	25"	38"	14"	11084D-0022
	E	18 - 27 GPM	60"	795 lbs	Single	25"	38"	14"	11060E-0022
	E	18 - 27 GPM	72"	845 lbs	Single	25"	38"	14"	11072E-0022
	E	18 - 27 GPM	84"	895 lbs	Single	25"	38"	14"	11084E-0022
High Flow	F2	30 - 42 GPM	72"	1152 lbs	Single	36"	43"	18"	11072F2-0022
	F2	30 - 42 GPM	84"	1228 lbs	Single	36"	43"	18"	11084F2-0022
High Flow, High Torque	G	19 - 34 GPM	72"	1247 lbs	Dual	36"	43"	18"	11072G-0022
	G	19 - 34 GPM	84"	1313 lbs	Dual	36"	43"	18"	11084G-0022
	G	19 - 34 GPM	96"	1395 lbs	Dual	36"	43"	18"	11096G-0022
	H	30 - 42 GPM	72"	1271 lbs	Dual	36"	43"	18"	11072H-0022
	H	30 - 42 GPM	84"	1362 lbs	Dual	36"	43"	18"	11084H-0022
	H	30 - 42 GPM	96"	1421 lbs	Dual	36"	43"	18"	11096H-0022

*Includes Independent Control Box Powered by Machine Battery and 80" Hoses with 1/2" QDs

REPLACEMENT AND OPTIONAL CONTROLS	
TYPE	ORDER CODE
Replacement Independent Control Box, Power from Machine Battery (Included in -0022 Models)	LAF9394-0000
Wire Harness for Integrated Machine Controls, 7-pin, Fits All Series 2012+, for Bobcat	07-9548
Wire Harness for Integrated Machine Controls, 8-pin, Fits All Series, for CAT pre-B	07-10021
Wire Harness for Integrated Machine Controls, 8-pin, Fits A-E Series, for CAT B and C	07-10122
Wire Harness for Integrated Machine Controls, 8-pin, Fits F2-H Series, for CAT B and C	07-10170
Wire Harness for Integrated Machine Controls, 14-pin, Fits A-E Series, for CAT D	07-8344
Wire Harness for Integrated Machine Controls, 14-pin, Fits All Series, for Bobcat / Kubota (w multi-function in cab controls) / CNH / JCB	LAF9360-0000
Wire Harness for Integrated Machine Controls, 8-pin, Fits All Series, for CNH	LAF9393
Wire Harness for Integrated Machine Controls, 3-pin, Fits All Series, for John Deere	07-7338
Wire Harness for Integrated Machine Controls, 14-pin, Fits All Series, for John Deere-8 button	LAF9361
Wire Harness for Integrated Machine Controls, 14-pin, Fits All Series, for John Deere EH Control	07-7626
Wire Harness for Integrated Machine Controls, 14-pin, Fits All Series, for Komatsu	07-10194
Wire Harness for Integrated Machine Controls, 8-pin, Fits All Series, for Komatsu	07-10057

CONSUMABLES			
TYPE	COMPATIBILITY	DIMENSIONS	ORDER CODE
Steel Edge Kits	A, C, D, E-Series	48" x 3" x 3/8"	LAF6547-0000
		60" x 3" x 3/8"	LAF6560
		72" x 3" x 3/8"	LAF6571
		84" x 3" x 3/8"	LAF6583
		72" x 4" x 1/2"	LAF6595
Steel Skid Shoe	All Series	84" x 4" x 1/2"	LAF6590
		96" x 4" x 1/2"	LAF6591
Steel Skid Shoe	All Series	-	LAF1485-0000

SNOW PUSHES

STANDARD DUTY



FEATURES

- Moves large volumes of snow efficiently
- Rubber edge standard on all models
- Ideal for waste water, manure, feed lot and food clean up
- Optional Pull Back Kit draws back snow from buildings, fences and confined areas

HEAVY DUTY - HIGH-VISIBILITY

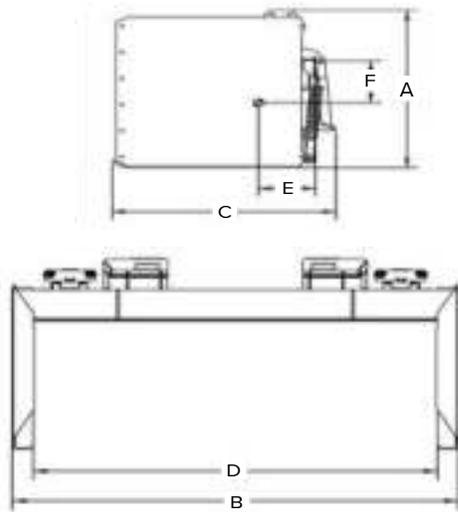


HEAVY DUTY - EXTREME-CAPACITY

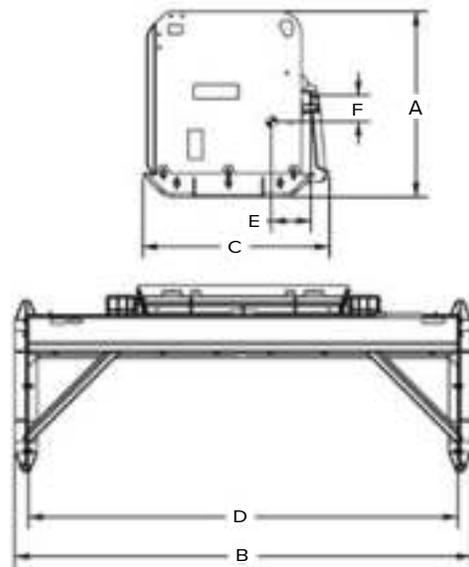


SNOW PUSHES SPECIFICATIONS

STANDARD DUTY



HIGH VISIBILITY / EXTREME CAPACITY



SNOW PUSHES (RUBBER EDGE INCLUDED)

SERIES	(B) WIDTH	WEIGHT	(A) WORKING HEIGHT	(C) LENGTH	(D) CUTTING WIDTH	(E) CENTER OF GRAVITY (HORIZONTAL)	(F) CENTER OF GRAVITY (VERTICAL)	ORDER CODE
Standard Duty (SD)	72"	450 lbs	31"	34.5"	98"	8"	11"	10707-72-0822
	84"	485 lbs	31"	34.5"	80"	8"	11"	10707-84-0822
Heavy Duty (HD) - High-Visibility	96"	615 lbs	24"	38"	95.5"	5"	12"	23296-0022
	120"	705 lbs	24"	38"	119.5"	4.5"	12"	23220-0022
Heavy Duty (HD) - Extreme-Capacity	120"	1230 lbs	41"	41.5"	119.5"	10"	6"	23320-0022

RUBBER EDGE KITS (FIELD INSTALL)

WIDTH	WEIGHT	ORDER CODE
72"	70 lbs	28-10840-72
84"	80 lbs	28-10840-84
96"	130 lbs	28-10841-96
120"	150 lbs	28-10841-120

REPLACEMENT SNOW SHOES

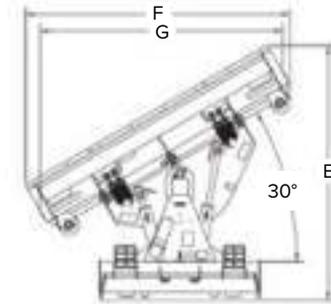
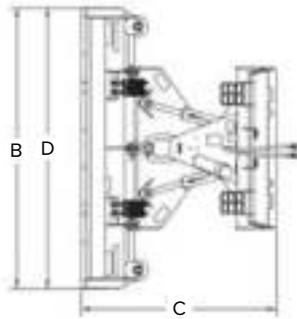
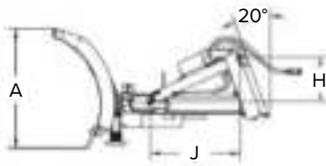
WEIGHT	ORDER CODE
50 lbs	LAF3605-0000

SNOW BLADES



FEATURES

- 114 Series hydraulically angles 30 degrees in either direction
- 115 Series hydraulically angles 35 degrees in either direction
- Replaceable bolt-on wear edge
- Optional rubber edge
- Skid shoes with adjustable height
- Reinforced seven-gauge steel blade
- Spring-loaded trip mechanism



SNOW BLADES (INCLUDES STEEL EDGE)

WIDTH	(D) BLADE WIDTH	WEIGHT	(A) OVERALL HEIGHT	(B) OVERALL WIDTH	(C) OVERALL LENGTH	ORDER CODE
60"	60"	510 lbs	24"	60"	35.5"	11460-0022
72"	72"	595 lbs	24"	72"	35"	11472-0022
84"	84"	635 lbs	24"	84"	35"	11484-0022
96"	96"	650 lbs	24"	96"	35"	11496-0022
96"	96"	1232 lbs	32"	96"	58"	11596-0022*
108"	108"	1309 lbs	32"	108"	58"	11508-0022*
120"	120"	1393 lbs	32"	120"	58"	11520-0022*

* Includes hoses with 1/2" QD

SNOW BLADES SPECIFICATIONS CONT.

WIDTH	(E) OVERALL LENGTH @ 30°	(F) OVERALL WIDTH @ 30°	(G) OVERALL BLADE WIDTH @ 30°	(H) CENTER OF GRAVITY (HORIZONTAL)	(J) CENTER OF GRAVITY (VERTICAL)
60"	49.5"	59"	51.75"	13"	12"
72"	52.5"	69"	62"	14"	12"
84"	55.5"	79.5"	72.5"	14"	12"
96"	58.5"	90"	83"	15"	12"
96"	79.5"	89"	83"	12"	25"
108"	82.5"	100"	93.5"	12"	25.5"
120"	85.5"	110"	104"	12"	26"

REPLACEMENT EDGE KITS

SERIES	WIDTH	STEEL	RUBBER	POLYURETHANE
114 Series	60"	FFC10105	LAF6485-0000	Not Available
	72"	FFC10106	LAF6486-0000	Not Available
	84"	FFC10107	LAF6487-0000	Not Available
	96"	FFC10108	LAF6488-0000	Not Available
115 Series	96"	10118	LAF1552-0000	28-10755-96
	108"	10119	LAF1553-0000	28-10755-108
	120"	10120	LAF1554-0000	28-10755-120

QUALITY YOU CAN COUNT ON



THE RIGHT TOOL

GROUND SHARK™ BRUSH CUTTERS

STANDARD DUTY (SD)



ROUTINE LAND MAINTENANCE

Cuts back heavy brush and overgrowth. Low-profile design slips easily under fences. The perfect general purpose brush cutter for routine land management.

Grass, Shrubs, Small Trees



Up to 4" Capacity

15 - 25 GPM

1,120 - 1,365 LBS



HEAVY DUTY (HD)



MORE AGGRESSIVE

For heavier brush and trees up to 7" in diameter. Includes carbide mulching teeth and a retractable front shield, allowing blades to fully engage with trees for deep, aggressive cuts.

Grass, Shrubs, Medium Trees



Up to 7" Capacity

20 - 34 GPM

1,572 - 1,816 LBS



EXTREME DUTY (XD)



MOST AGGRESSIVE

For very heavy brush and trees up to 10" in diameter. 300LBS heavier than its Heavy-Duty cousin, bigger blades, bigger deck, and double-pin blade retention. Includes carbide stump grinding teeth and MulchPower feedback technology.

Grass, Shrubs, Large Trees



Up to 10" Capacity

30 - 45 GPM

2,150 - 2,381 LBS



[CLICK HERE TO SEE THE GROUND SHARK™ IN ACTION](#)

FOR THE RIGHT JOB

DISK STYLE MULCHER



HIGH PRODUCTIVITY - COARSE CHIP SIZE

Maximize production and efficiency. Cuts trees up to 14" in diameter, with in-line mulching of trees up to 8" in diameter and a 60" stump-grinding surface. Designed to resist jamming and stalling with a unique intake and integrated MulchPower feedback technology. Leaves a coarse finish.

Heavy Brush and Mature Trees



14" Cutting Capacity
8" Mulching Capacity

30 - 45 GPM

2,410 LBS



Technology Included

[CLICK HERE TO SEE THE DISK MULCHER IN ACTION](#)

DRUM STYLE MULCHER



SUPERIOR FINISH - FINE CHIP SIZE

Creates a fine mulch with consistently small chip-size. Provides excellent ground-cover and faster decomposition. Recommended for trees up to 8" in diameter, with virtually unlimited stump grinding capacity.

Heavy Brush and Mature Trees



14" Cutting Capacity

30 - 45 GPM

2,530 - 2,860 LBS



Technology Included

[CLICK HERE TO SEE THE DRUM MULCHER IN ACTION](#)

STUMP GRINDER



DEEP ROOT STRUCTURES

Sub-grade root system removal up to 12" deep. A wide sweeping angle design provides great coverage with minimal repositioning, saving time and reducing turf impact.

Stumps and Sub-Grade Roots



12" Sub-Grade

18 - 45 GPM

875 - 983 LBS

Not Available

[CLICK HERE TO SEE THE STUMP GRINDER IN ACTION](#)

GROUND SHARK BRUSH CUTTERS

STANDARD DUTY



SD FEATURES

- Drive train is designed for maximum performance, efficiency and reliability
- Optional under-mount steel wheels
- Three bi-directional blades
- Optional pressure gauge
- Dual pressure reliefs on the hydraulic motor protect against pressure spikes that could damage the drive system
- Standard flow equipped with .5" couplers (you must specify when ordering high-flow units)

HEAVY & EXTREME DUTY



HD & XD FEATURES

- Retracting debris shield exposes blades, for aggressive full-depth cuts
- .25" steel "clean deck" design with high-quality powder coat helps keep clear of debris and is easier to clean and maintain
- Alternating bevel blade design provides a deep penetrating, self-clearing cut
- Blades made of .75" thick high-grade steel with reversible design for added blade life

HEAVY DUTY BLADES



EXTREME DUTY BLADES



GROUND SHARK BRUSH CUTTERS SPECIFICATIONS

BRUSH CUTTERS (INCLUDES HOSES AND QD'S)					
DUTY CLASS	FLOW	QD SIZE	WIDTH	WEIGHT	ORDER CODE
Standard Duty (SD)	15-25 GPM	1/2"	60"	1120 lbs	30360A-0022
			72"	1280 lbs	30372A-0022
			78"	1360 lbs	30378A-0022
Heavy Duty (HD)	20 - 34 GPM	1/2"	66"	1605 lbs	31766-0022
			72"	1800 lbs	31772-0022
		3/4"	66"	1605 lbs	31766-9925
			72"	1800 lbs	31772-9925
		5/8"	66"	1605 lbs	31766-9903
			72"	1800 lbs	31772-9903
Extreme Duty (XD)	30 - 45 GPM	1/2"	72"	2008 lbs	30272-0022
			78"	2267 lbs	30278-0022
		3/4"	72"	2008 lbs	30272-9925
			78"	2267 lbs	30278-9925
		5/8"	72"	2008 lbs	30272-9903
			78"	2267 lbs	30278-9903

REPLACEMENT KITS				
KIT TYPE	COMPATIBILITY	WIDTH	ORDER CODE	
Cutting Blades	Standard Duty	60"	118330	
		72"	118331	
		78"	118332	
	Heavy Duty	66"	123735	
		72"	123736	
	Extreme Duty	72", 78"	117194	
Carbide Stump Grinding Teeth	Standard Duty	Not Available for Standard Duty		
	Heavy Duty	66"	123781	
		72"	123733	
	Extreme Duty	72"	117193	
		78"	123734	
Skid Shoe Kit	Standard Duty	60", 72", 78"	117810	
	Heavy Duty	66"	123544	
		72"	117192	
	Extreme Duty	72"	117192	
		78"	123639	

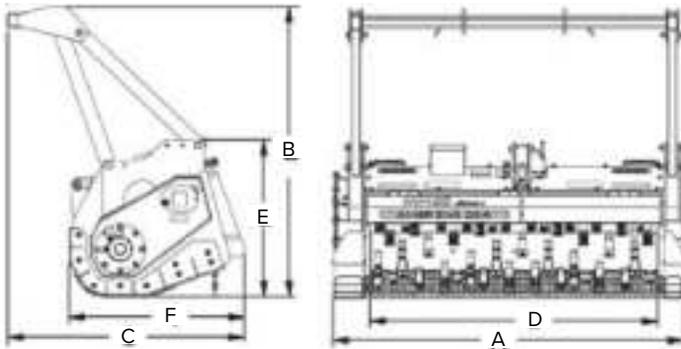
OPTIONS				
KIT TYPE	COMPATIBILITY	WIDTH	ORDER CODE	
Dual Wheel Kit	Standard Duty	60", 72", 78"	118333	
	Standard Duty	60", 72", 78"	117824	
MulchPower Gauge	Heavy Duty	66", 72"	123642	
	Extreme Duty	72", 78"	Included	

MULCHERS - DRUM STYLE



FEATURES

- Shreds up to 8" diameter hardwood trees
- Patented tooth design and easily interchangeable tooth design options
- Replaceable abrasion resistant AR400 wear plate on skid shoes
- Deflector door standard to control particle size and discharge direction
- Reversible teeth double the useful life vs. single-edge styles



DRUM STYLE MULCHER SPECIFICATIONS	60"	72"
A. Overall Width	73"	85"
B. Overall Height	60.5"	60.5"
C. Overall Length	49.5"	49.5"
D. Cutting Width	60"	72"
E. Height Without Push Bar	33"	33"
F. Length Without Push Bar	37"	37"

DRUM MULCHERS (INCLUDES STANDARD CONTROL KIT)

WIDTH	TEETH	WEIGHT	FLOW RANGE	ORDER CODE
60"	Claw Teeth	2530 lbs	30 - 45 GPM	124171*
	Reversible Carbide Hammers	2530 lbs	30 - 45 GPM	125346*
72"	Claw Teeth	2860 lbs	30 - 45 GPM	124652*
	Reversible Carbide Hammers	2860 lbs	30 - 45 GPM	126008*

* Includes Standard Control Kit and 3/8" Female Case Drain; Requires Hoses

HOSE KITS (REQUIRED)

DESCRIPTION	ORDER CODE
80" Hoses with 1/2" QDs	233133
80" Hoses with 5/8" QDs	233134
80" Hoses with 3/4" QDs	110915
3/8" Male Case Drain Coupler*	84923*

*Required for Case/CNH Machines

REPLACEMENT TEETH KITS FOR DRUM STYLE MULCHERS

STYLE	COMPATIBILITY	ORDER CODE
Reversible Claw Teeth Kit	60" Drum Style	116092
	72" Drum Style	112578
Reversible Carbide Hammer Kit	60" Drum Style	116091
	72" Drum Style	111794

CONTROLS

PRODUCT	MACHINE	ORDER CODE
Standard Control Kit (Replacement)	Kubota, Case, Takeuchi, New Holland, Volvo, JCB	LAF9360-0000
	Bobcat 2012+	07-9548
	CAT XHP D	119741
Optional Control Kit	CAT XPS D	119740
	John Deere EH	07-7626
	John Deere F	LAF9361-0000
	Komatsu	07-10170

OIL COOLERS

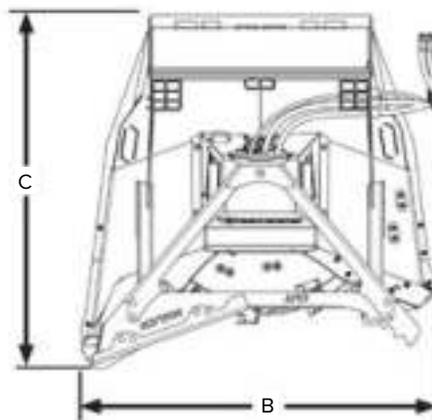
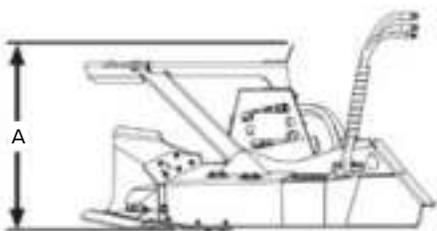
STYLE	ORDER CODE
MM60 Series II Factory Installed	115851
MM60 Series II Dealer Installed	115852
MM72 Series II Factory Installed	115853
MM72 Series II Dealer Installed	115854

MULCHERS - DISK STYLE



FEATURES

- Designed to reduce jamming
- Ultra-efficient drive system with fast start
- MulchPower™ Gauge for maximum energy
- Bearing housing never needs to be greased
- Debris shovel keeps teeth out of the dirt and guides material for processing
- High-quality QUADCO teeth are interchangeable, allowing for simple service and rotation
- Fells trees up to 14"
- Processes up to 8"
- Stump grinds to grade



DISK STYLE MULCHER

WIDTH	COUPLER CONFIGURATION	WEIGHT	FLOW RANGE	OPERATING PRESSURE	(A) HEIGHT	(B) OVERALL WIDTH	(C) LENGTH	ORDER CODE
60"	1/2" QD, 3/8" Case Drain	2217 lbs	30 - 45 GPM	3,300 minimum	39.5"	76"	75.5"	125260-0022
	5/8" QD, 3/8" Case Drain							125260-9903
	3/4" QD, 3/8" Case Drain							125260-9925

CONSUMABLES AND REPLACEMENTS FOR DISK STYLE MULCHER

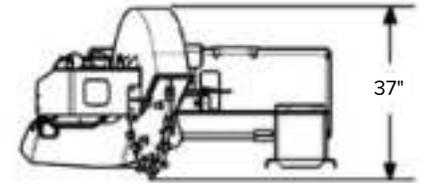
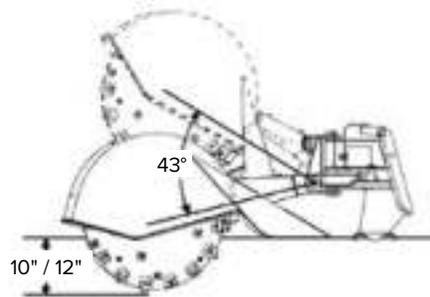
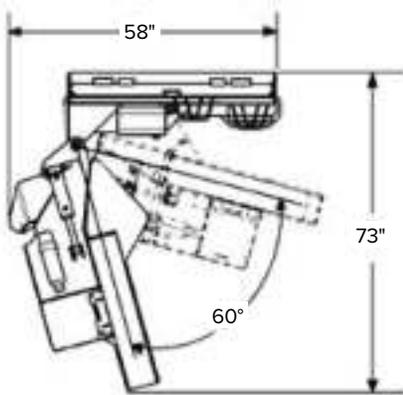
DESCRIPTION	ORDER CODE
Partial Tooth Replacement Kit (20 teeth and hardware)	125288
Right-Side Skid Shoe Replacement Kit	125984
Left-Side Skid Shoe Replacement Kit	125985
Debris Shovel Replacement Kit	125986
Swinging Debris Door Replacement Kit	125959

STUMP GRINDER



FEATURES

- Available in standard and high flow
- Wheel grinds stump down to 12" below grade with 28 teeth
- Tooth bottom permits cutting from side-to-side and vertical directions
- 60-degree range of motion will cover 45" in a single sweep
- Grouser pad stabilization prevents plunge stalls
- Dial adjust swing speed



STUMP GRINDER (CONTROLS NOT INCLUDED)

FLOW	WHEEL DIAMETER	DIGGING DEPTH	WEIGHT	ORDER CODE
16 - 23 GPM	26"	10"	875 lbs	100319_101234_100984*
29 - 44 GPM	30"	12"	983 lbs	100320_100418_102074**

* Includes 88" hoses with 1/2" QD

** Includes 88" hoses with 3/4" QD

CONTROLS (REQUIRED) - SELECT A PREFERRED INTERFACE COMPATIBLE WITH MACHINE MAKE/MODEL

INTERFACE/STYLE	MACHINE COMPATIBILITY	ORDER CODE
Independent Controls (power from battery connection)	All	104367
Independent Controls (power from 14-pin Deutsch)	All	104368 _ 101096
Integrated Controls (14-pin Deutsch)	Case, New Holland, Volvo, Bobcat, Ditch Witch, JCB, Takeuchi, Komatsu	101096
	CAT D Series	123746
	John Deere	108036
Integrated Controls (8-pin Deutsch)	ASV, Komatsu	108035
	CAT	115957

CONSUMABLES

DESCRIPTION	ORDER CODE
(28) replacement square tooth kit assembly	102075

POWER OF COMBINED EXCELLENCE



BREAKERS

STRIKEFORCE® BREAKERS



FEATURES

- **Dual mounting option:** Flat top and Pin-on, with mini-excavators and SSL adapters to maximize fleet flexibility and minimize owning cost.
- **High power to weight ratio:** From industry leading impact power and effective side plate structure design.
- **SSL mounting:** Available for standard SAE SSL interfaces in either single or multi-position adapter options.
- **StrikeForce adapter pattern:** A common adapter pattern, with other StrikeForce tools in the same weight class, maximizes flexibility in use of adapter systems, minimizing owning costs.
- **Safety:** Removes the operator from direct contact with the breaking work, protecting your worker or yourself from injury.

STRIKEFORCE® HYDRAULIC BREAKERS (INCLUDES 2 MOIL TOOLS, SPARE SEAL KIT, ADAPTER BRACKET AND HOSES)

MODEL	WORKING WEIGHT	IMPACT ENERGY CLASS	BPM	OPERATING PRES-SURE (psi)	RELIEF PRESSURE (psi)	OIL FLOW RANGE (gal/min)	ORDER CODE
SFB500	532 lbs	550 ft. lbs	640~1470	1595~2117	2320~2610	10.0~21.9	237500M-0022
SFB750	650 lbs	750 ft. lbs	620~1150	1566~2175	2320~2610	11.9~21.9	237750M-0022

STRIKEFORCE® ACCESSORIES

DESCRIPTION	SFB500	SFB750
Blunt Point	07-8866	07-8867
Cross Cut Chisel	07-8873	07-8874
Cone Point	07-8875	07-8876
Moil Point	07-8839	07-8836

DROP HAMMER



FEATURES

- **Shock Free** - Patented "skid" system keeps the Cyclone grounded and dissipates the shock as it pulverizes the concrete
- **Moveable Hammer Pin** - For adjusting impact energy
- **Minimal Setup Time** - Increased productivity
- **Low Maintenance** - Field serviceable, no special tools required
- **Heavy Duty Buffer System** - Absorbs impact of a "mis-hit"
- **Easy Operation** - Reduces operator error and fatigue
- **Compact Design** - Makes transport simple
- **Simple Hook-Up** - Allows for easy change of attachments
- **Low Investment** - High production results in the lowest cost per yard-ton figures attainable

DROP HAMMER

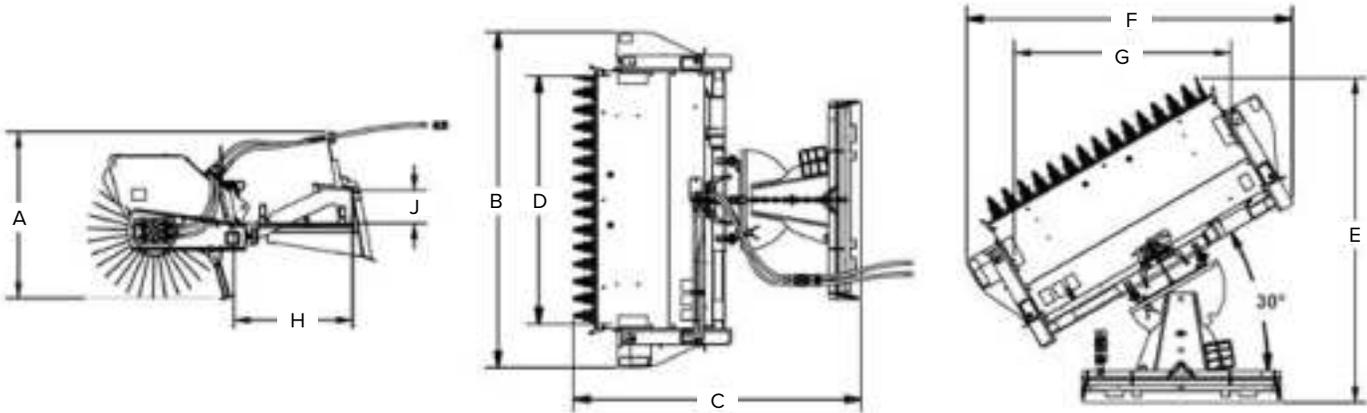
MODEL	IMPACT ENERGY CLASS	IMPACT RATE (BPM)	WEIGHT WITH BRACKET	OVERALL LENGTH	HYDRAULIC FLOW (GPM)	CARRIER WEIGHT CLASS
DH3500	3500 ft-lbs	32	1540 lbs	65.5"	10.6-20.6	15400-26500
DH9000	9000 ft-lbs	23	3150 lbs	74"	21-31	26500+

ANGLE BROOMS



FEATURES

- Drive slips out of core without removing hydraulic lines from wheel motor
- Brush core is reversible for even brush wear
- 32" diameter brush for longer life
- Angles manually 30° left/right
- Faceted hood design provides maximum strength at ends of the hood
- Choose poly, wire, or poly/wire brush
- Includes skid steer mounting



HYDRAULIC ANGLE BROOM SPECIFICATIONS	60"	72"	84"	96"
A. Overall Height	39.5"	39.5"	39.5"	39.5"
B. Overall Width	80"	92"	104"	116"
C. Overall Length	68.5"	68.5"	68.5"	68.5"
D. Sweeping Width	60"	72"	84"	96"
E. Overall Length @ 30° Angle	77"	80"	83"	86"
F. Overall Width @ 30° Angle	77.5"	88"	98"	108.5"
G. Sweeping Width @ 30° Angle	52"	62.5"	73"	83"
H. Center of Gravity (Horizontal)				
Manual Angle / Single Motor	28"	29"	30"	30.5"
Manual Angle / Dual Motor	29"	29.5"	30.5"	40"
Hydraulic Angle / Single Motor	27"	28"	29"	30"
Hydraulic Angle / Dual Motor	28"	29"	29.5"	30"
J. Center of Gravity (Vertical)	8"	8"	8"	8"
Weight - Manual Angle/Single 17 CID Motor	815 lbs	865 lbs	915 lbs	965 lbs
Weight - Manual Angle/Single 25 CID Motor	820 lbs	870 lbs	920 lbs	970 lbs
Weight - Manual Angle/Dual 17 CID Motor	845 lbs	895 lbs	945 lbs	995 lbs

ANGLE BROOMS SPECIFICATIONS

ANGLE BROOMS WITH 32" BRUSHES ("QC BROOMS")				
STYLE	WIDTH	FLOW	BRISTLE MATERIAL	ORDER CODE
Manual Angle	72"	12 - 25 GPM	Poly-Wire Mix	22072MM-0022
	84"	12 - 25 GPM	Poly-Wire Mix	22084MM-0022
Hydraulic Angle	60"	12 - 25 GPM	Poly-Wire Mix	22060MH-0022
			100% Poly	22060PH-0022
	72"	12 - 25 GPM	100% Poly	22072PH-0022
			Poly-Wire Mix	22072MH-0022
	84"	20 - 36 GPM	Poly-Wire Mix	22073MH-0022
			100% Poly	22084PH-0022
		12 - 25 GPM	Poly-Wire Mix	22084MH-0022
			100% Poly	22085PH-0022
		20 - 36 GPM	Poly-Wire Mix	22085MH-0022
			100% Poly	22096MH-0022
96"	12 - 25 GPM	Poly-Wire Mix	22096MH-0022	
		100% Poly	22097PH-0022	
	20 - 36 GPM	Poly-Wire Mix	22097MH-0022	

+ Includes 144" hoses for auxiliary hydraulic circuit with 1/2" flat-face QD's

32" REPLACEMENT BRUSHES FOR ANGLE BROOMS		
MATERIAL	DESCRIPTION	ORDER CODE
Poly-Wire Mix	Set of Brush Sections for 60" Broom (Qty 29), 32" Diameter	01-1085
Poly-Wire Mix	Set of Brush Sections for 72" Broom (Qty 35), 32" Diameter	01-0930
Poly-Wire Mix	Set of Brush Sections for 84" Broom (Qty 41), 32" Diameter	01-0931
Poly-Wire Mix	Set of Brush Sections for 96" Broom (Qty 47), 32" Diameter	01-0933
100% Poly Bristles	Set of Brush Sections for 60" Broom (Qty 29), 32" Diameter	01-0272C
100% Poly Bristles	Set of Brush Sections for 72" Broom (Qty 35), 32" Diameter	01-0020C
100% Poly Bristles	Set of Brush Sections for 84" Broom (Qty 41), 32" Diameter	01-0079C
100% Poly Bristles	Set of Brush Sections for 96" Broom (Qty 47), 32" Diameter	01-0080C

CONTROLS FOR ANGLE BROOMS (REQUIRED FOR HYDRAULIC ANGLE ONLY)	
DESCRIPTION	ORDER CODE
Independent Control Box	28-10754
7-pin for Bobcat 2012+ Models	07-9548
14-pin for Bobcat, Kubota, CNH, JCB	LAF9360-0000
14-pin for CAT D-series	07-8344
14-pin for John Deere 8-button	LAF9361
14-pin for John Deere EH control	07-7626
14-pin for Komatsu	07-10194
8-pin for CAT pre-B	07-10021
8-pin for CAT B and C	07-10122
8-pin for CNH	LAF9393
8-pin for Komatsu	07-10057
3-pin for John Deere	07-7338
60" 8-Wire Cable Extension for H or H2	07-7887

POLY BRUSH



POLY/WIRE BRUSH



PICKUP BROOMS

PICKUP BROOMS (SB HOPPER)



FEATURES

- Direct-drive motor powered from loader hydraulics
- 10-25 GPM flow required (2,000-3,500 psi)
- 26" brush diameter
- 5', 6', 7' brush widths available
- Brush head reversible for "dust panning" debris
- Dump bucket by lifting arms
- Quick change core

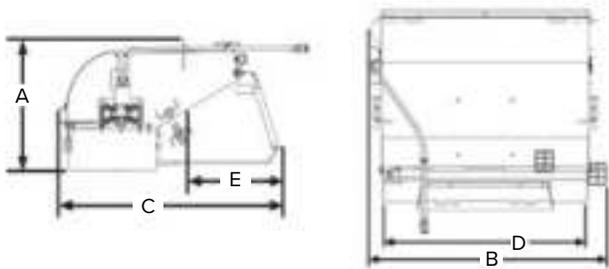
HIGH-DUMP, HIGH-CAPACITY PICKUP BROOMS (VRS)



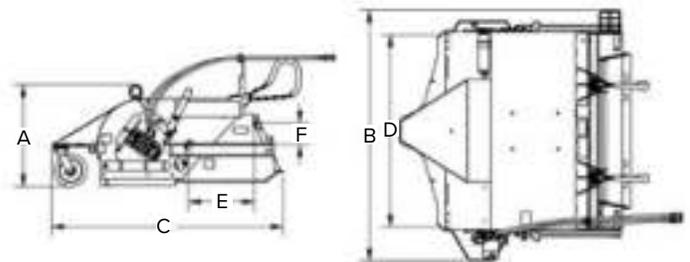
FEATURES

- "Volumizing" feature: bucket holds more debris with less recirculation
- High dump design holds sweeper head clear of dumping bucket
- Quick-change brush without breaking hydraulic lines
- The hydraulic motor can be removed for brush change without tools

PICKUP BROOM (SB HOPPER)



HIGH-DUMP, HIGH-CAPACITY BROOM (VRS)



PICKUP BROOMS SPECIFICATIONS

PICKUP BROOMS FOR 15-25 GPM ("SB HOPPER BROOMS") (INCLUDES BOLT-ON EDGE)

DUTY CLASS	(D) WIDTH	BRISTLE MATERIAL	NUMBER OF HOLES	(A) HEIGHT	(B) OVERALL WIDTH	(C) LENGTH	(E) CENTER OF GRAVITY	WEIGHT	ORDER CODE
Standard Duty (SD)	60"	100% Poly	6	30"	72.5"	61"	20.5"	943 lbs	21560P-0022
		Poly-Wire Mix	6	30"	72.5"	61"	20.5"	943 lbs	21560M-0022
	72"	100% Poly	7	30"	84.5"	61"	20.5"	1068 lbs	21572P-0022
		Poly-Wire Mix	7	30"	84.5"	61"	20.5"	1068 lbs	21572M-0022
	84"	100% Poly	8	30"	84.5"	61"	20.5"	1068 lbs	21584P-0022
		Poly-Wire Mix	8	30"	84.5"	61"	20.5"	1068 lbs	21584M-0022
Heavy Duty (HD)	72"	Poly-Wire Mix	7	30"	96.5"	61"	20.5"	1190 lbs	21572M-0022HD
	84"	Poly-Wire Mix	8	30"	96.5"	61"	20.5"	1190 lbs	21584M-0022HD

HIGH-CAPACITY PICKUP BROOMS FOR 15-25 GPM ("VRS BROOMS") (INCLUDES BOLT-ON EDGE)

(D) WIDTH	BRISTLE MATERIAL	(A) HEIGHT	(B) OVERALL WIDTH	(C) LENGTH	(E) CENTER OF GRAVITY (HORIZONTAL)	(F) CENTER OF GRAVITY (VERTICAL)	WEIGHT	ORDER CODE
60"	Poly-Wire Mix	31.5"	78.5"	72.5"	20.5"	7"	1150 lbs	VRS5M-0022
72"	Poly-Wire Mix	31.5"	90.5"	72.5"	20.5"	7"	1275 lbs	VRS6M-0022
84"	Poly-Wire Mix	31.5"	100"	72.5"	20.5"	7"	1400 lbs	VRS7M-0022

26" REPLACEMENT BRUSHES FOR PICKUP BROOMS

MATERIAL	DESCRIPTION	ORDER CODE
Poly-Wire Mix	Set of Brush Sections for 60" Broom (Qty 35), 26" Diameter	01-1167
Poly-Wire Mix	Set of Brush Sections for 72" Broom (Qty 41), 26" Diameter	01-1168
Poly-Wire Mix	Set of Brush Sections for 84" Broom (Qty 49), 26" Diameter	01-1169
100% Poly Bristles	Set of Brush Sections for 60" Broom (Qty 35), 26" Diameter	01-0873
100% Poly Bristles	Set of Brush Sections for 72" Broom (Qty 41), 26" Diameter	01-1162
100% Poly Bristles	Set of Brush Sections for 84" Broom (Qty 49), 26" Diameter	01-1163

OPTIONAL GUTTER BROOM KIT FOR PICKUP BROOMS

MATERIAL	TYPE	ORDER CODE
100% Wire	Factory-Install	28-10323-W
100% Wire	Field-Install Kit	28-10327-W
100% Poly	Factory-Install	28-10323-P
100% Poly	Field-Install Kit	28-10327-P

25 GALLON SPRINKLER KITS FOR PICKUP BROOMS

TYPE	MACHINE ELECTRICAL	ORDER CODE
Factory-Install	12v	28-10136
Field-Install Kit	12v	28-9139
Factory-Install	24v	28-10137
Field-Install Kit	24v	28-9193

REPLACEMENT EDGE KITS

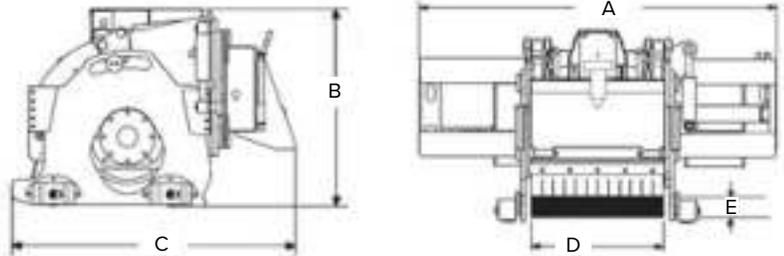
DESCRIPTION	ORDER CODE
60" Bolt-On Edge Kit	07-6974
72" Bolt-On Edge Kit	07-6975
84" Bolt-On Edge Kit	07-6976

COLD PLANERS



FEATURES

- Planetary drive delivers high torque
- High rear spoil clearance to prevent recirculation of material
- Protective shields for hydraulic and electrical components
- Efficient piston drive motor
- Optional water tank available with adjustable mounting brackets to fit most skid steer loaders



COLD PLANER SPECIFICATIONS

(D) PLANING WIDTH	(B) OVERALL HEIGHT	(C) OVERALL LENGTH	(A) OVERALL WIDTH	(E) PLANING DEPTH	NUMBER OF PICKS
12"	32"	44"	52"	0"-5"	37
18"	34.5"	50.5"	65"	0"-5"	45
24"	34.5"	50.5"	65"	0"-5"	57
40"	34.5"	50.5"	65"	0"-5"	89

COLD PLANERS (MUST ORDER CONTROL SEPARATELY)

WIDTH	FLOW	HYDRAULIC CONNECTION	WEIGHT	ORDER CODE
12"	15 - 22 GPM	1/2" QD w/o Case Drain	1500 lbs	101196
		1/2" QD w/ 3/8" Female Case Drain	2200 lbs	100265 _ 17777 _ 119997
18"	26 - 30 GPM	5/8" QD w/ 3/8" Male Case Drain	2200 lbs	100265 _ 17777 _ 119998
		3/4" QD w/ 3/8" Female Case Drain	2200 lbs	100265 _ 17777 _ 120002
		1/2" QD w/ 3/8" Female Case Drain	2200 lbs	100265 _ 17778 _ 119997
		5/8" QD w/ 3/8" Male Case Drain	2200 lbs	100265 _ 17778 _ 119998
24"	31 - 44 GPM	3/4" QD w/ 3/8" Female Case Drain	2200 lbs	100265 _ 17778 _ 120002
		1/2" QD w/ 3/8" Female Case Drain	2400 lbs	100266 _ 17777 _ 119997
		5/8" QD w/ 3/8" Male Case Drain	2400 lbs	100266 _ 17777 _ 119998
		3/4" QD w/ 3/8" Female Case Drain	2400 lbs	100266 _ 17777 _ 120002
40"	26 - 30 GPM	1/2" QD w/ 3/8" Female Case Drain	2400 lbs	100266 _ 17778 _ 119997
		5/8" QD w/ 3/8" Male Case Drain	2400 lbs	100266 _ 17778 _ 119998
		3/4" QD w/ 3/8" Female Case Drain	2400 lbs	100266 _ 17778 _ 120002
		1/2" QD w/ 3/8" Female Case Drain	3100 lbs	103030 _ 17778 _ 119997
40"	31 - 44 GPM	5/8" QD w/ 3/8" Female Case Drain	3100 lbs	103030 _ 17778 _ 119999
		5/8" QD w/ 3/8" Male Case Drain	3100 lbs	103030 _ 17778 _ 119998
		3/4" QD w/ 3/8" Female Case Drain	3100 lbs	103030 _ 17778 _ 120002

COLD PLANER CONTROLS

DESCRIPTION	ORDER CODE
Bobcat, Ditch Witch, Gehl, Mustang, JCB, Takeuchi, Volvo	114874
CNH, Kubota SVL Series 2, Kubota SSV-2	116745
John Deere	114969
Kubota w/ Multi-Function Control Kit, JCB, Volvo, Takeuchi	118470
Bradco Control Handle Assembly	115403
CAT D-Series	120262

COLD PLANER CONSUMABLES

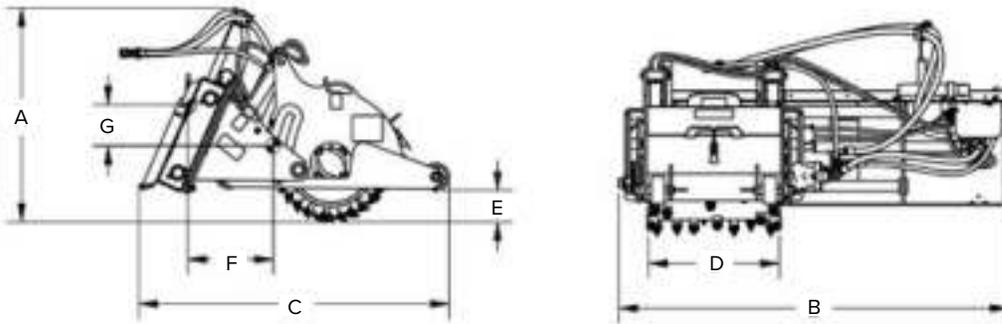
DESCRIPTION	ORDER CODE
Replacement 50 Asphalt Picks	102058
Replacement 50 Extreme Duty Concrete Picks	102059
30gal Universal mount tank, 12v pump, with electrical control box (Mounts to skid steer roof)	104444

ASPHALT MILLS



FEATURES

- Ø1 Scarifies concrete and planes sidewalks and street joints
- Ø2 Side shifts 24" left or right to cut next to curbs and obstacles
- Ø3 Solid drum pushes milled material to the back, preventing remilling



ASPHALT MILLS (INCLUDES STANDARD ASPHALT PICKS, REQUIRES CONTROLS)

(D) CUTTING WIDTH	FLOW	(A) OVERALL HEIGHT	(B) OVERALL WIDTH	(C) OVERALL LENGTH	(E) MAX. CUTTING DEPTH	(F) CENTER OF GRAVITY (HORIZONTAL)	(G) CENTER OF GRAVITY (VERTICAL)	WEIGHT	ORDER CODE
16"	16 - 25 GPM	32.5"	70.5"	45"	5"	7"	11"	1225 lbs	LAF5413-0022
24"	28 - 45 GPM	39"	72.5"	57.5"	6"	16"	7.5"	1690 lbs	LAF5424-0022

Includes 60" hoses with 1/2" QD's

CONTROLS (REQUIRED) - SELECT A PREFERRED INTERFACE COMPATIBLE WITH MACHINE MAKE/MODEL

COMPATIBILITY	MACHINE	ORDER CODE
All	Independent control box	07-10013
7-pin	Bobcat, 2012+ Models	07-9548
	Bobcat, Case, JCB, New Holland, Komatsu, and Volvo	LAF9360-0000
	CAT D XPS	07-8373
	CAT D XHP	07-8378
	John Deere pre-D with 8-button controls	LAF9361
14-pin	John Deere with EH controls and D/E series	07-7626
	Kubota (must have Kubota Multi-Function Control Kit)	19644
8-pin	Case	LAF9393

ASPHALT MILLS CONSUMABLES

DESCRIPTION	ORDER CODE
Replacement 50 Standard Asphalt Picks	28-10930

ROCK SAWS



FEATURES

- Needle valve flow control adjustment allows precise control of skid shoe height allowing digging depth to be adjusted "on the go"
- Abrasion resistant plate steel allows longer life
- Open front of saw allows efficient ejection of debris
- Forward movement allows operator to see what they are doing
- 2.5" or 4" wide cut available
- Standard general purpose picks, optional concrete picks

ROCK SAWS (HOSES AND CONTROLS NOT INCLUDED)

CUT DEPTH	FLOW	CUT WIDTH	WEIGHT	ORDER CODE
24"	29 - 35 GPM	2.5"	2095 lbs	106875 _ 17777 _ 106684
		4.0"	2095 lbs	106875 _ 17777 _ 106685
	36 - 44 GPM	2.5"	2095 lbs	106875 _ 17778 _ 106684
		4.0"	2095 lbs	106875 _ 17778 _ 106685

88" HOSE KITS (REQUIRED)

COUPLER SIZE	ORDER CODE
1/2"	106876
5/8"	106878
3/4"	106880

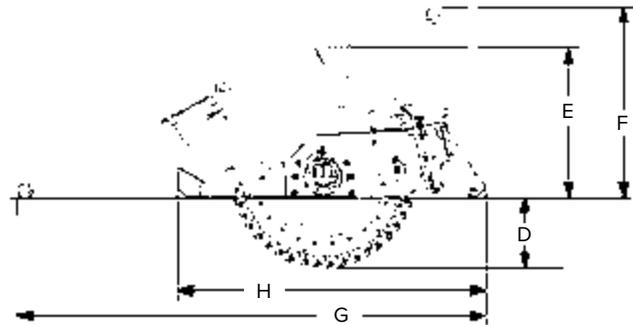
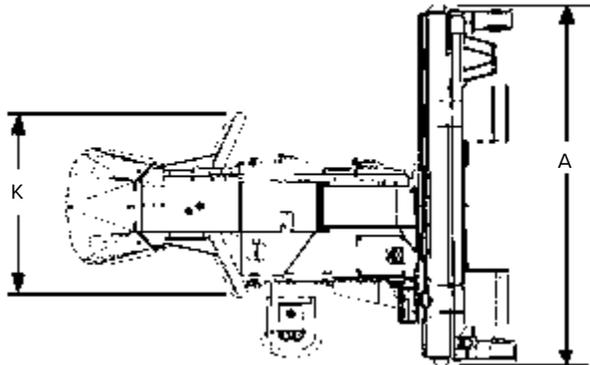
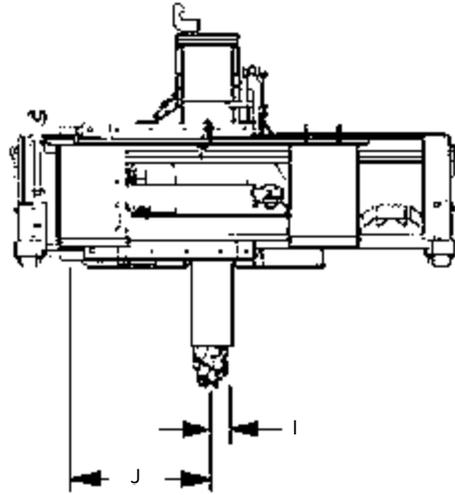
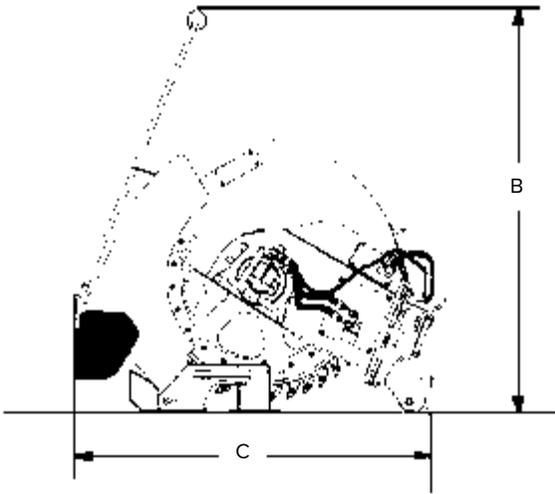
CONTROLS (REQUIRED)

INTERFACE/STYLE	MACHINE COMPATIBILITY	ORDER CODE
Independent Controls (power from battery connection)	All	104367
Independent Controls (power from 14-pin Deutsch)	All	104368 _ 101096
Integrated Controls (14-pin Deutsch)	Case, New Holland, Volvo, Bobcat, Ditch Witch, JCB, Takeuchi, Komatsu	101096
	CAT D Series	123746
	John Deere	108036
Integrated Controls (8-pin Deutsch)	ASV, Komatsu	108035
	CAT	115957

OPTIONAL WATER KIT AND REPLACEMENT TEETH

DESCRIPTION	ORDER CODE
30gal Universal mount tank, 12v pump, with electrical control box (Mounts to skid steer roof)	104444
Replacement 50 Extreme Duty Concrete Picks	102059
Replacement 50 Heavy Duty Picks (Comes Standard on Rock Saw)	102058

ROCK SAWS SPECIFICATIONS



RS24 ROCK SAW SPECIFICATIONS

A. Width (overall)	67"
B. Height (transport)(overall)	81"
C. Length (transport)(overall)	86"
D. Cutting Depth (maximum)	24"
E. Operating Height (guide arm down)	44"
F. Operating Height (guide arm up)	58"
G. Operating Length (guide arm down)	132"
H. Operating Length (guide arm down)	89"
I. Side Shift (center to left)	2.72"
J. Side Shift (center to right)	24"
K. Spoil Removal Path	34"
Wheel Diameter	60"
Number of Picks	56
Hydraulic Flow Requirement (GPM)	30 to 44
Operating Pressure (PSI)	2500 to 3000
Weight (without picks)(lbs)	2095
Operating Weight (with 2.5" cutting width)(lbs)	2385
Operating Weight (with 4" cutting width)(lbs)	2420

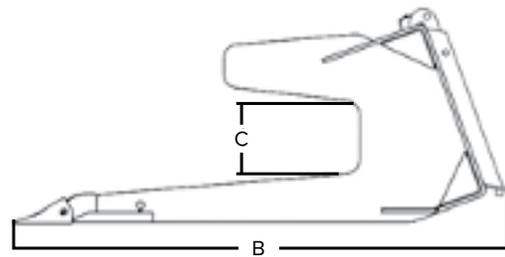
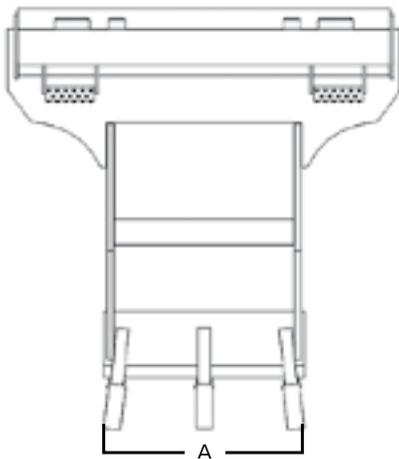
CONCRETE CLAW

EXTREME DUTY



FEATURES

- Excellent attachment for removing concrete on sidewalks, driveways or any construction site
- High strength cast replacement points
- Rubberized flex points securely fasten replaceable points
- End plates and tooth shanks are made with high strength T1 steel
- 1" x 8" wear-resistant pacal steel tapered cutting edge



CONCRETE DEMOLITION CLAWS

DUTY CLASS	(A) WORKING WIDTH	(B) WORKING DEPTH	(C) REAR OPENING HEIGHT	WEIGHT	ORDER CODE
Extreme Duty (XD)	24"	48"	7.5"	442 lbs	10024-0022

CONSUMABLES

DESCRIPTION	ORDER CODE
Replacement Digging Tooth Kit (QTY 2)	118887

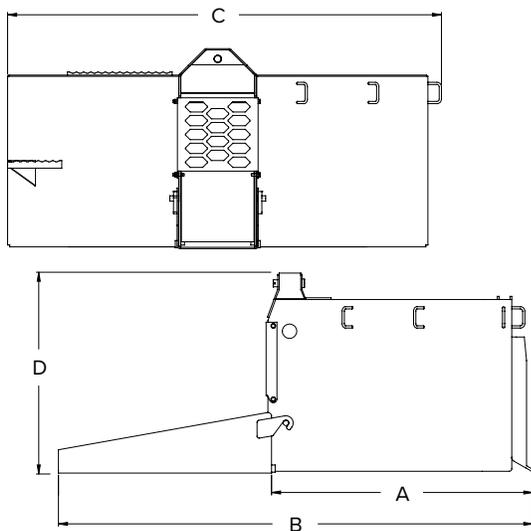
CONCRETE CHUTERS



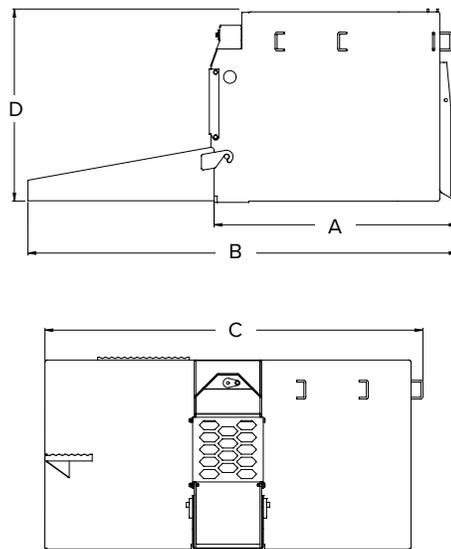
FEATURES

- Carries and places concrete with a skid steer loader where cement trucks can't go
- Quick and clean, accurate placement of concrete with no mess
- Ideal for pouring deck footings and formed columns or walls
- Hydraulically controlled dispensing door with tight fitting seal
- No spill top edge for easy clean-up

1/2 yard Concrete Chuter



3/4 yard Concrete Chuter



CONCRETE CHUTERS (INCLUDES HOSES)

CAPACITY	WEIGHT	(A) LENGTH W/O CHUTE	(B) LENGTH W/ CHUTE	(C) WIDTH	(D) HEIGHT	ORDER CODE
1/2 Yard	450 lbs	36.5"	65.5"	58"	28"	11050-0022
3/4 Yard	520 lbs	39"	68"	58"	31"	11075-0022

* Includes 40" working hose length with 1/2" QD

THE RIGHT TOOL

LAND SCULPTOR	AUTORAKE
 <p>MOST ECONOMICAL</p> <p>Inexpensive solution for light sculpting and grading. The flat deck design doubles as a light-duty platform for carrying materials and tools around the job site</p>	 <p>BEST FOR CLEANUP</p> <p>Rakes small rocks and other loose debris into a perforated bucket, leaving a clean, finished job site without affecting the established grade</p>

Direction of Use	 <p>Bi-Directional</p>	 <p>Best in Reverse</p>
Debris pickup / sorting	Does Not Collect / Sort Debris	Collects Debris .75" - 6" in Diameter
Sculpting high spots / low spots		
Leave visually "finished" surface		
Leave seed-ready surface		
Windrowing debris		
Deep aeration		

FOR THE RIGHT JOB

PREPARATOR	HARLEY RAKE	TILLER
 <p>BEST FOR SITE PREPARATION</p> <p>Collects large rocks up to 20" in diameter and corrects ruts and peaks in the ground, leaving a site that's ready for seeding and sodding</p>	 <p>BEST FOR LANDSCAPING</p> <p>The perfect landscaping tool. Breaks up tough, compacted soil, sifts out medium-sized stones and rocks, windrows debris, and leaves a sculpted surface that's grass-seed ready</p>	 <p>BEST FOR AGRICULTURE</p> <p>Deep aeration and commingling of soil additives and existing vegetation leaves a soil that's primed for planting and gardening</p>
 <p>Bi-Directional</p>	 <p>Bi-Directional</p>	 <p>Best in Reverse</p>
<p>Collects Debris Up to 20" in diameter</p>	<p>Sifts and Windrows Debris Adjustable Debris Size</p>	<p>Does Not Collect / Sort Debris</p>
		
		
		
		
		

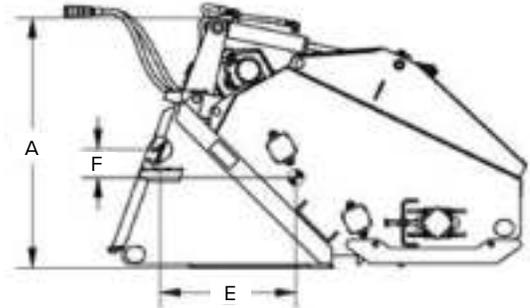
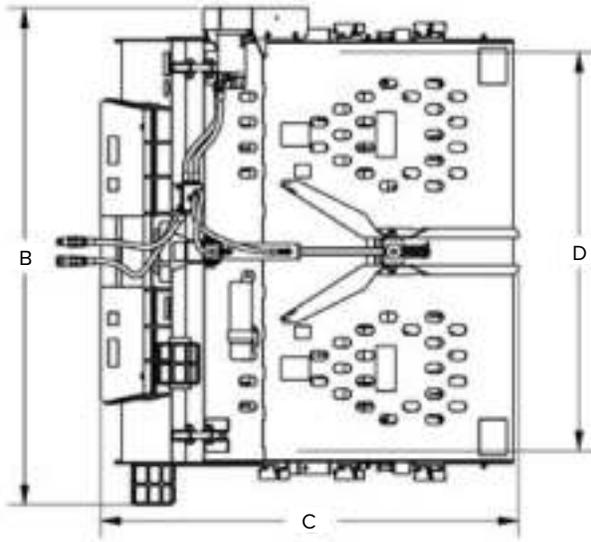
LANDSCAPE RAKE - AUTORAKE®

HEAVY DUTY



FEATURES

- Grooms and finishes soil for seeding or sodding
- Breaks up clods and levels the soil
- Picks up rocks .75" to 6" in diameter
- Collects rocks and debris in hopper
- Dumps collected debris quickly and easily
- Heavy-duty design features 1.75" hex drive shaft and pintle sprockets for longer life and increased durability
- To dump hopper, raise loader arms and open shroud hydraulically



AUTORAKE®								
DUTY CLASS	(D) WORKING WIDTH	(B) OVERALL WIDTH	WEIGHT	(A) HEIGHT	(C) LENGTH	(E) CENTER OF GRAVITY (HORIZONTAL)	(F) CENTER OF GRAVITY (VERTICAL)	ORDER CODE
Heavy Duty (HD)	62"	78"	1350 lbs	39"	65.5"	21"	4.5"	LAF6864-0022*
	72"	88"	1455 lbs	39"	65.5"	21"	4.5"	LAF6874-0022*

*Includes 93" hoses with 1/2" QD

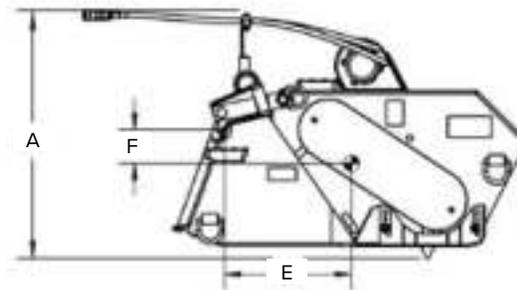
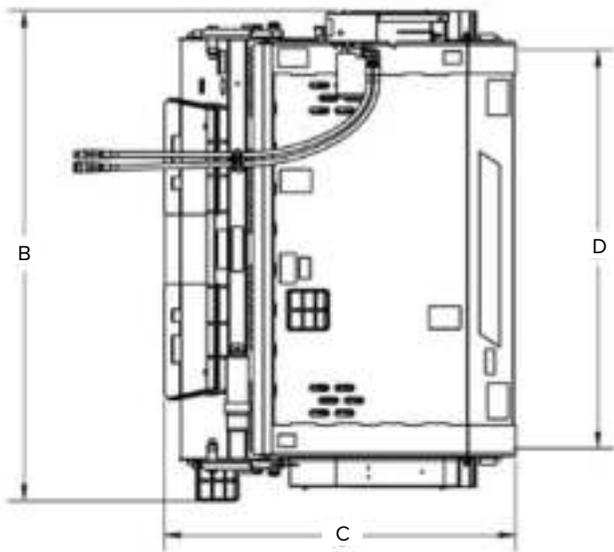
LANDSCAPE RAKE - PREPARATOR

EXTREME DUTY



FEATURES

- Clean-up, rock removal and soil preparation rolled into one
- Follows ground contour while picking up rock & debris
- Tills and fluffs as it grooms the soil
- Rotating bi-directional drum carries rock and debris into bucket
- Bi-directional drum tills up to 2.5" deep
- Picks up rocks 1" to 20" in diameter
- Perforated bucket floor sifts dirt through
- Bucket dumps quickly and easily
- Provides excellent visibility of the work



PREPARATORS

DUTY CLASS	(D) WORKING WIDTH	(B) OVERALL WIDTH	WEIGHT	(A) HEIGHT	(C) LENGTH	(E) CENTER OF GRAVITY (HORIZONTAL)	(F) CENTER OF GRAVITY (VERTICAL)	ORDER CODE
Extreme Duty (XD)	66"	78"	1445 lbs	39"	55.5"	20.5"	6"	LAF3566-0022*
	76"	88"	1565 lbs	39"	55.5"	20.5"	6"	LAF3576-0022*

*Includes 104" hoses with 1/2" QD

HARLEY RAKES

HYDRAULIC ANGLE



HYDRAULIC ANGLE FEATURES

- Adjustable 6" polypropylene barrier allows you to quickly choose the size of material you want to leave on the seedbed. The barrier is stiff enough for pushing yet flexible enough to let damaging debris to pass
- Bi-directional motor allows the drum to rotate in either direction maximizing flexibility
- Pure carbide proprietary teeth design - specially shaped to ensure the best possible seedbed sub-base fracture pattern and superior moisture retention and release
- Quick and easy removable box-end plates for windrowing and reverse box raking...no bolts, just pull the pins
- Dual independently adjustable gauge wheels allow for skim passes for over-seeding - or - adjust to cut drainage grades

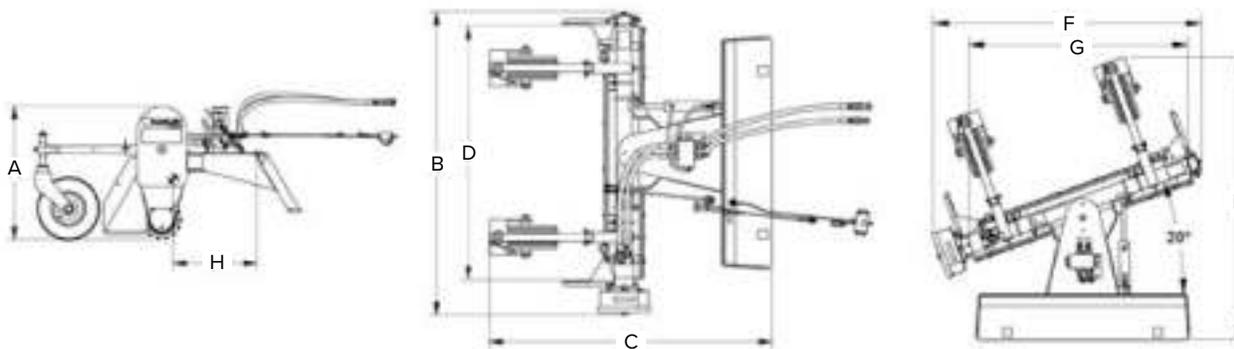
MANUAL ANGLE



MANUAL ANGLE FEATURES

- Triple-sealed and shielded bearings for extra protection and long life
- Dual independently adjustable gauge wheels allow for skim passes for over seeding - or - adjust to cut drainage grades
- Slim profile frame bearing ends allow full depth, first-pass teeth penetration
- Quick and easy removable box-end plates allow windrowing and reverse box raking - no bolts, just pull the pins

HARLEY RAKES SPECIFICATIONS



HARLEY RAKES (INCLUDES HOSES)

STYLE	(D) RAKING WIDTH	FLOW	WEIGHT	(B) OVERALL WIDTH	(C) LENGTH	ORDER CODE
Hydraulic Angle (Requires Controls)	72"	13 - 25 GPM	985 lbs	82"	61.5"	M6H-0022*
	84"	15 - 25 GPM	1055 lbs	93.5"	61.5"	MX7H-0022*
	90"	17 - 40 GPM	1325 lbs	101"	72.5"	MX8H-0022*
Manual Angle	72"	13 - 25 GPM	980 lbs	82"	61.5"	M6M-0022*

*Includes 68" hoses with 1/2" QD

SPECIFICATIONS CONT.

STYLE	ORDER CODE	(A) OVERALL HEIGHT	(G) RAKING WIDTH @ 20°	(E) OVERALL LENGTH @ 20°	(F) OVERALL WIDTH @ 20°	(H) CENTER OF GRAVITY
Hydraulic Angle	M6H-0022	33"	68"	68.5"	78"	24"
	MX7H-0022	33"	79"	71"	89"	23.5"
	MX8H-0022	36"	85"	83"	100"	27"
Manual Angle	M6M-0022	33"	68"	68.5"	78"	24"

CONTROLS

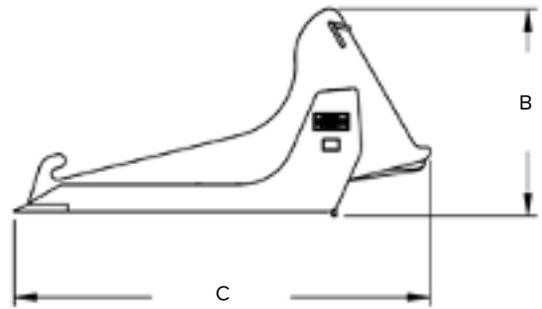
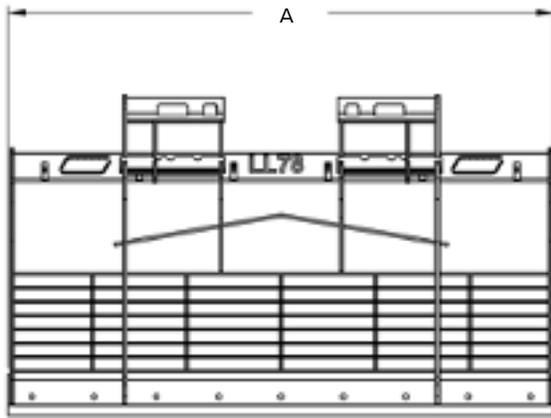
DESCRIPTION	ORDER CODE
Independent Control Box, fits Harley Rakes with Hydraulic Angle	28-10754
7-pin for Bobcat 2012+ Models, fits Harley Rakes with Hydraulic Angle	07-9548
14-pin for CAT D, fits Harley Rakes with Hydraulic Angle	07-8344
14-pin for John Deere with 8-Button Control, fits Harley Rakes with Hydraulic Angle	LAF9361
14-pin for John Deere with EH Control, fits Harley Rakes with Hydraulic Angle	07-7626
14-pin for Komatsu, fits Harley Rakes with Hydraulic Angle	07-10194
14-pin for Kubota (with multi-function in cab controls), CNH, Bobcat, and JCB, fits Harley Rakes with Hydraulic Angle	LAF9360-0000
8-pin for CAT B and C, fits Harley Rakes with Hydraulic Angle	07-10122
8-pin for CAT pre-B, fits Harley Rakes with Hydraulic Angle	07-10021
8-pin for CNH, fits Harley Rakes with Hydraulic Angle	LAF9393
8-pin for Komatsu, fits Harley Rakes with Hydraulic Angle	07-10057
3-pin for John Deere, fits Harley Rakes with Hydraulic Angle	07-7338

LAND SCULPTOR



FEATURES

- Heavy-duty bevelled front cutter bar provides extra strength and reduces wear
- Adjustable rear scraper for optimum land shaping
- Exclusive staggered grate design prevents wedging of small rocks while leveling
- Grate will sift out rocks and can be used as a carry-all
- V-shaped intermediate scraper shears off high spots and draws dirt to the sides
- Long-lasting powder paint used throughout frame and structure
- Optional scarifier assembly digs in to break up hard-packed dirt
- Strategic placement of scarifier teeth permits ground engagement while in the retracted position
- Optional comb assembly breaks up clumps and leaves a textured appearance



LAND SCULPTORS					
(A) WIDTH	STYLE	(B) OVERALL HEIGHT	(C) OVERALL LENGTH	WEIGHT	ORDER CODE
78"	Bare	23"	43.5"	515 lbs	106400
	With Comb, Scarifiers, and Bolt-On Cutter Bar	23"	43.5"	810 lbs	124730

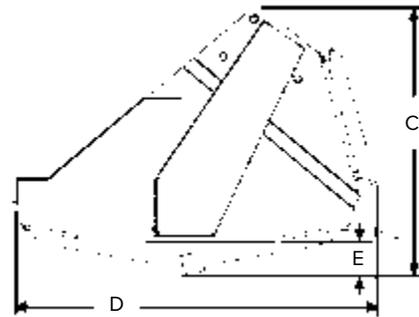
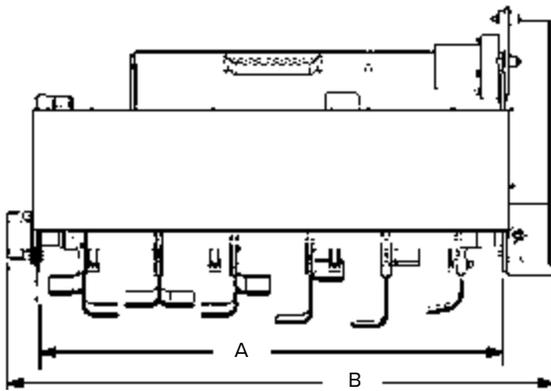
REPLACEMENT OPTIONS		
ITEM	WEIGHT	ORDER CODE
Replacement Comb	109 lbs	106379
Replacement Scarifier Kit	59 lbs	107009
Replacement Bolt-On Cutter Bar	127 lbs	16204

TILLERS



FEATURES

- Breaks up sod and clumps of soil
- Mixes compost and other materials
- Prepares soil for seeding or reseeding; great for small soil stabilization and landscape jobs
- High torque efficient chain drive system
- Exclusive two position offset mount on 66" & 78" tiller covers wheel tracks and allows tight cut next to obstacles
- Standard dual rotation with bi-directional tines
- Scarifier assembly increases productivity by combining the tractive effort and force of the loader with the hydraulic horse power of the tiller



ADJUSTABLE OFFSET TILLERS

FLOW	(A) TILLING WIDTH	(B) OVERALL WIDTH	(C) OVERALL HEIGHT	(D) OVERALL DEPTH	(E) TILLING DEPTH	WEIGHT	MAX PSI	ORDER CODE
18 - 28 GPM	66"	75.5"	35"	47"	6"	1000 lbs	3500	100935-E6-0022*
29 - 44 GPM	78"	88"	35"	47"	6"	1300 lbs	3500	103286-H6-0022*

*Includes 88" hoses, 1/2" QD

TRENCHERS

625 SERIES TRENCHER



625 SERIES FEATURES

- 30", 36", 42" & 48" digging depth available to fit most applications
- Heavy-duty boom & crumpler with replaceable wear strips
- Allows tight fit with single side spoil augering
- Several tooth options available
 - > CUP
 - > SHARK
 - > ROCK & FROST
- 50,000 lb 2" anti-back flex-chain for tooth pattern versatility to support many soil types and conditions
- Manual side shift

640 SERIES TRENCHER



640 SERIES FEATURES

- 30", 36", 42" & 48" digging depth available to fit most applications
*60" high flow only
- Two position manual side shift
- Fixed length booms available featuring spring-loaded, self adjusting idler with full rock guards
- Heavy-duty boom & crumpler
- Allows tight fit with single side spoil augering
- Replaces dedicated machines at a fraction of the cost
- Several tooth options available
 - > CUP
 - > SHARK
 - > ROCK & FROST
- 50,000 lb 2" anti-back flex-chain for tooth pattern versatility to support many soil types and conditions

TRENCHERS SPECIFICATIONS

TRENCHING HEADS (HOSES INCLUDED)			
MODEL	FLOW	WEIGHT	ORDER CODE
625 Series	12 - 25 GPM	850 lbs	89220_19709*
	18 - 26 GPM	1100 lbs	100269**
640 Series	25 - 28 GPM	850 lbs	102326**
	29 - 35 GPM	900 lbs	100270** (60"*** Chain Only Usable With Highflow)
	35 - 45 GPM	900 lbs	102325** (60"*** Chain Only Usable With Highflow)

*Includes 88" hoses with 1/2" QD

**Includes 123" hoses - QD must be ordered separately

***Requires 640 Series Head, 29+ GPM

Soil Type 1: General Purpose // Tooth Configuration: "TES" - Cup-Style Tooth at Every Station

A tooth configuration that is for generally good, normal digging conditions. Light to moderately compacted soils with generally balanced sand and loam content. Also works well in soils with some loose gravel. *In soils with higher clay content, recommend to remove up to 50% of teeth to reduce sticking and gumming.

Soil Type 2: Compacted Soils // Tooth Configuration: "70/30" - Combination 70% Shark Teeth, 30% Cup-Style Teeth

Configured for compacted soils, lightly frozen ground, baked hard clay, shale, and rocky soils. Shark teeth provide a cutting action while cup teeth remove debris from the trench.

Soil Type 3: Rock and Frost // Tooth Configuration: "R&F" - Combination 50% Bullet Carbides, 50% Cup-Style Teeth

Frozen ground, highly compacted soils, and soils with high rock content. Very aggressive in frozen and rocky conditions, but not as productive in normal digging conditions..

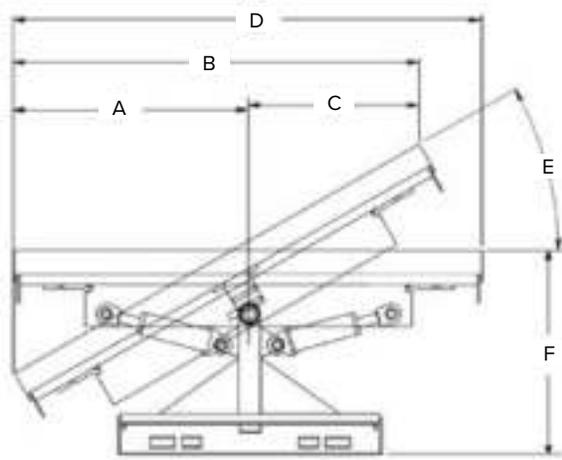
BOOM, CRUMBER, CHAIN, AND TOOTH CONFIGURATION				
TRENCHING DEPTH	CHAIN WIDTH	ORDER CODES		
		TYPE 1: GENERAL PURPOSE "TES"	TYPE 2: COMPACTED SOILS "70/30"	TYPE 3: ROCK AND FROST "R&F"
30"	6"	89281 _ 79154	89281 _ 31546	89281 _ 83706
	8"	89281 _ 79155	Not available	Not available
	10"	89281 _ 79156	Not available	Not available
	12"	89281 _ 79157	Not available	Not available
36"	6"	89282 _ 79099	89282 _ 31547	89282 _ 83707
	8"	89282 _ 79100	Not available	Not available
	10"	89282 _ 79158	Not available	Not available
	12"	89282 _ 81120	Not available	Not available
42"	6"	89283 _ 82114	89283 _ 31563	89283 _ 83708
	8"	89283 _ 82115	Not available	Not available
	10"	89283 _ 82116	Not available	Not available
48"	6"	89284 _ 79101	89284 _ 31548	89284 _ 83709
	8"	89284 _ 79102	Not available	Not available
60"	6"	100272 _ 80053	100272 _ 31542	100272 _ 83705

QD SETS FOR 640 SERIES TRENCHERS		
FLOW	DESCRIPTION	ORDER CODE
18 - 26 GPM	.50" body flat face couplers	23609
	.62" body flat face couplers	124359
	.50" body with .38" male drain	119996
	.50" body with .38" female drain	119997
	.62" body with .38" male drain	119998
25 - 45 GPM	.62" body with .38" female drain	119999
	.75" body with .25" male drain	120000
	.75" body with .38" male drain	120001
	.75" body with .38" female drain	120002
	.75" body with .50" male drain	120003

DOZER BLADES



- Hydro-electric controlled angle and tilt, using only one loader valve
- Angle 30° right or left off center
- Tilt 10° off horizontal both directions
- Tilt indicator visible from operator's seat
- Angle and tilt cylinders are interchangeable and equipped with self aligning bushings
- Reversible .75" x 8" bolt-on cutting edge & formed moldboard .31" thick & 28" high
- Large 3" center pivot pin with hardened steel bushings



SPECIFICATIONS	84"	96"
A. Width From Centerline to Inside Edge @ 15° Angle	43.5"	49.5"
A. Width From Centerline to Inside Edge @ 30° Angle	42"	47.5"
B. Dozer Blade Width @ 15° Angle	81"	93"
B. Dozer Blade Width @ 30° Angle	73"	83.5"
C. Width From Centerline to Outside Edge @ 15° Angle	37.5"	43.5"
C. Width From Centerline to Outside Edge @ 30° Angle	31"	36"
D. Overall Width	84"	96"
E. Angle Left and Right	30°	30°
F. Overall Length	36.5"	36.5"

DOZER BLADES (HOSES INCLUDED)						
WIDTH	WEIGHT	HEIGHT	OVERALL DEPTH	ANGLE LEFT/RIGHT	TILT	ORDER CODE
84"	1365 lbs	30"	37"	+/- 30-deg	+/- 10-deg	88861*
96"	1460 lbs	30"	37"	+/- 30-deg	+/- 10-deg	89681*

*Includes 80" hoses, 1/2" QD

CONTROLS (REQUIRED)	
DESCRIPTION	ORDER CODE
Independent Control Box	15756
14 pin Bobcat	110627
14 pin Kubota, Case, CAT, New Holland, Volvo, Ditch Witch, Gehl, Mustang, Komatsu	25887
14 pin John Deere	25904
14 pin Takeuchi	113330
8 pin CAT, ASV, Komatsu	25886
3 pin John Deere	25885

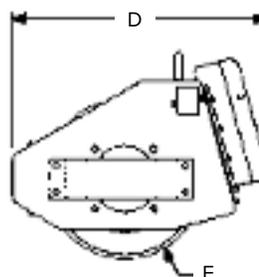
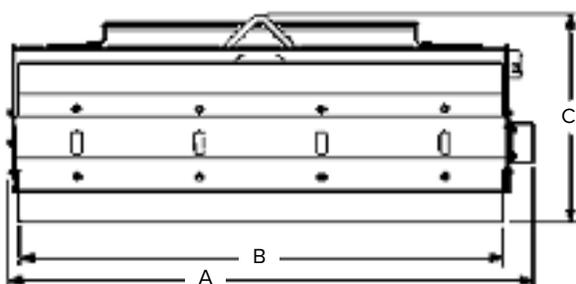
VIBRATORY ROLLER

PADDED



- Hydraulic drives are protected and isolated to provide maximum performance and reliability
- Delivers up to 9,370 lbs or dynamic force when operating at 20 GPM
- 15° oscillation of drums
- Steel drum has an adjustable steel scrap blade between the frame and the drum ensuring smooth and uniform compaction performance
- Ideal for rental fleets, contractors, landscaping, roadways, walkways, bike paths, golf courses bridges and parking lots

SMOOTH



VIBRATORY ROLLERS

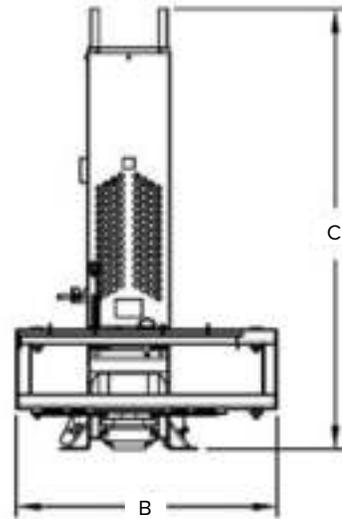
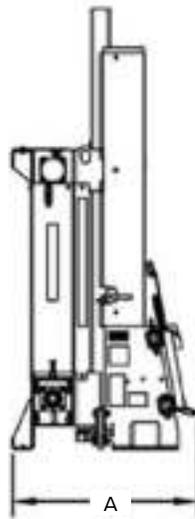
STYLE	(B) DRUM WIDTH	WEIGHT	(A) OVERALL WIDTH	(D) OVERALL DEPTH	DYNAMIC FORCE	(C) HEIGHT	(E) DRUM DIAMETER (NO PADS)	VIBRATING SPEED (VPM)	ORDER CODE
Padded	66"	2085 lbs	72"	39"	7800 lbs	31"	20"	2600	105066
	73"	2230 lbs	79"	39"	8550 lbs	31"	20"	2600	105067
	84"	2455 lbs	90"	39"	9370 lbs	31"	20"	2600	105068
Smooth	66"	2150 lbs	72"	39"	7800 lbs	31"	24"	2600	105062
	73"	2300 lbs	79"	39"	8550 lbs	31"	24"	2600	105063
	84"	2530 lbs	90"	39"	9370 lbs	31"	24"	2600	105064

*Includes 80" hoses, 1/2" QD

POST DRIVERS



- Manual side shift
- Operates off skid steer hydraulics
- Does not mushroom posts
- No shock load back to skid steer



POST DRIVER

(A) OVERALL LENGTH	(B) OVERALL WIDTH	(C) OVERALL HEIGHT	MAX. STROKE	WEIGHT	MAX. HAMMER WEIGHT	ORDER CODE
39"	54"	91.5"	48"	1360 lbs	600 lbs	11487 _ 112491 _ 112920

*Includes 108" hoses, 1/2" QD

POST DRIVER ACCESSORIES

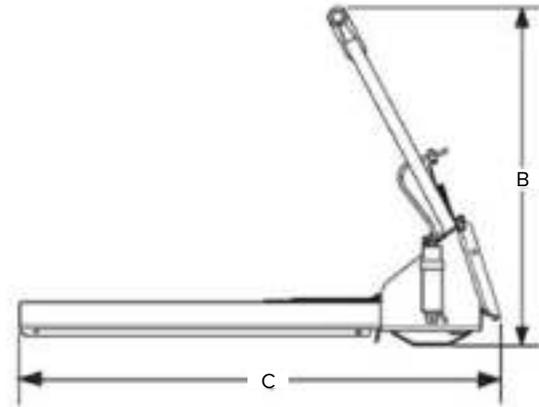
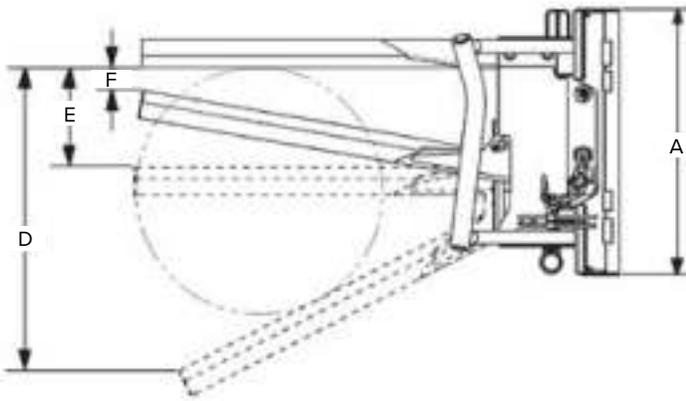
DESCRIPTION	WEIGHT	ORDER CODE
Tilt Kit and Valve Package for Post Driver, with Hoses [Requires Tilt Attach]	25 lbs	112921

TREE FORKS

HIGH CAPACITY



- Position plants, trees and large shrubs quickly and with ease
- Will grasp up to 44" tree balls
- 6" tread plate on forks to firmly grip bags, boxes, pots and rocks
- 3,000 lb carrying capacity



TREE FORK (HOSES NOT INCLUDED)

CAPACITY	WEIGHT	MAX ROOT BALL SIZE	MAX LOAD	(A) OVERALL WIDTH	ORDER CODE
High-Capacity	630 lbs	44"	3000 lbs	47.5"	101502

TREE FORKS SPECIFICATIONS CONT.

(B) OVERALL HEIGHT	(C) OVERALL LENGTH	(D) FORK OPENING - MAXIMUM AT TIPS	(E) FORK OPENING - PARALLEL	(F) FORK OPENING - MINIMUM AT TIPS
60.5"	86"	54"	18"	4"

HOSES (1/2" QD)

LENGTH	ORDER CODE
66"	103577
94"	103603

TREE SPADES



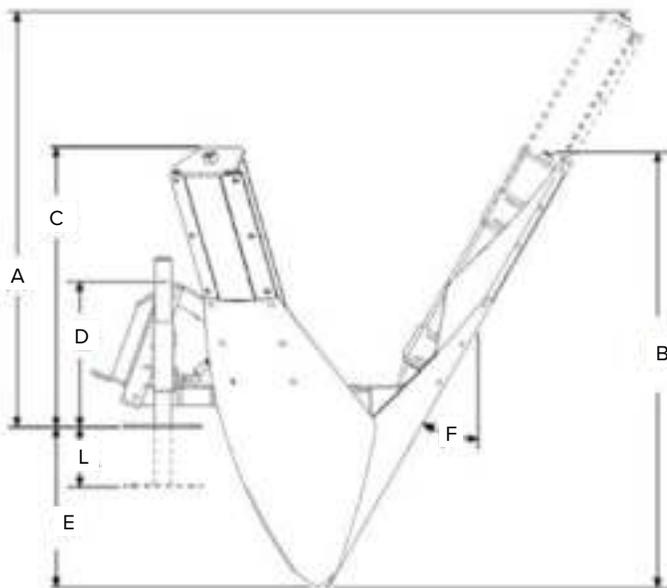
COMPACT CAPACITY FEATURES

- Ideal for transplanting and burlapping small trees and shrubs in sandy or hard packed soil
- Low profile blade towers allow tree spade to fit between closely planted trees
- Adjustable legs to set digging depth
- High tensile, abrasion resistant blades close to a point in the down position to clean cut tap roots
- Electric over hydraulic control with hand held joystick to operate the spade and rear stabilizers and an optional cord extension for the joystick control

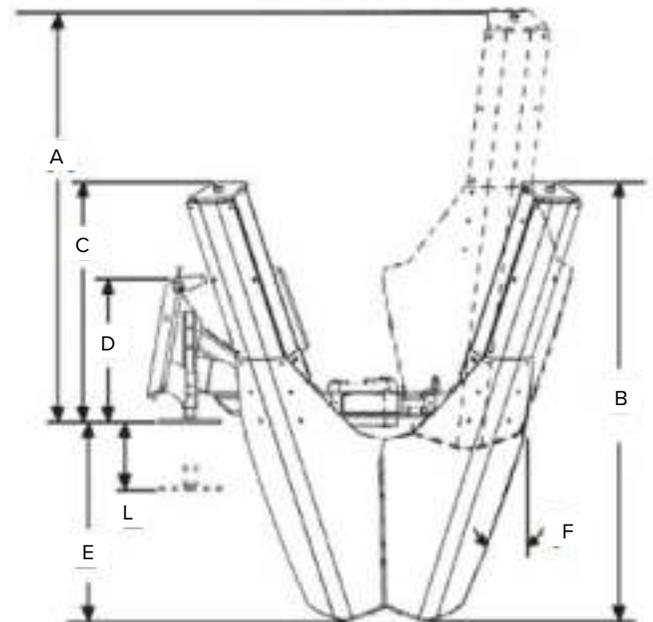
STANDARD/HIGH/EXTREME CAPACITY FEATURES

- Provides an uncompromised digging angle between truncated and cone style to adapt to various soil conditions
- 25° angle and deep stroke of the blades produces several uniform ball sizes with one set of blades
- Pointed high tensile, abrasion resistant blades
- Blade towers incorporate high density plastic slides that are self lubricating
- Industry standard wire baskets for balled and burlap tree harvesting

Compact Capacity

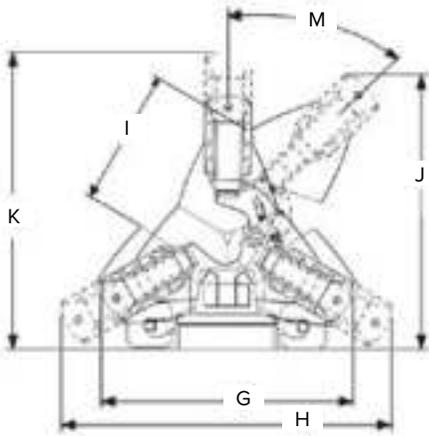


Standard / High / Extreme Capacity

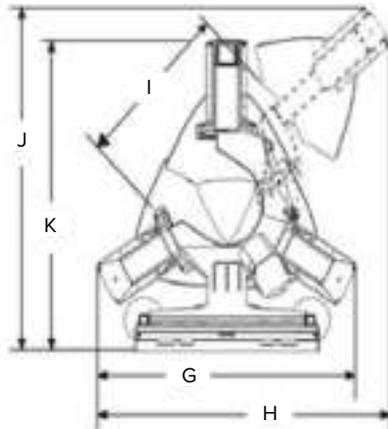


TREE SPADES SPECIFICATIONS

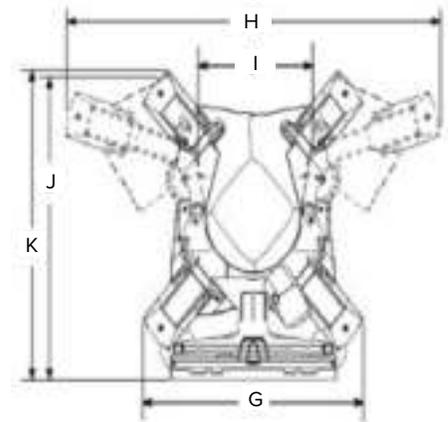
Compact Capacity



Standard / High Capacity



Extreme Capacity



TREE SPADES

CAPACITY	(E) DIGGING DEPTH	TREE BALL DIAMETER	WEIGHT	BLADES	ORDER CODE
Compact Capacity	16"	16" - 20"	525 lbs	3	25605 _ 25696*
Standard Capacity	22"	18" - 26"	1100 lbs	3	25670*
High Capacity	31"	24" - 36"	1500 lbs	3	25370*
Extreme Capacity	31"	32" - 44"	1825 lbs	4	25570*

*Includes 96" hoses with 1/2" QD

TREE SPADES SPECIFICATIONS

	COMPACT CAPACITY	STANDARD CAPACITY	HIGH CAPACITY	EXTREME CAPACITY
(A) Overall Height - Blades Up (Open)	42"	51"	64.5"	64.5"
(B) Overall Height - Blades Down (Closed)	44.5"	53.5"	69"	69"
(C) Shipping Height - Blades Removed	28.5"	32"	38"	38"
(D) Frame Height	15"	22.5"	22.5"	22.5"
(F) Cutting Angle	30°	25°	25°	25°
(G) Overall Transport Width (Gate Closed)	45.5"	51"	66"	63"
(H) Overall Width (Gates Open)(Blades Up)	59.5"	66.5"	88.5"	107"
(I) Maximum Gate Opening	26"	29"	40"	33"
(J) Overall Length (Gate Open)	49"	64"	75"	68"
(K) Overall Transport Length (Gate Closed)	53.5"	63"	68"	69.5"
(L) Maximum Leg Adjustment	6"	10.5"	10.5"	10.5"
(M) Gate Swing	45°	-	-	-

REPLACEMENT ITEMS

DESCRIPTION	WEIGHT	ORDER CODE
Replacement Joystick	10 lbs	25425

AUGER DRIVES

X1500 AUGER DRIVE



FEATURES

- Maximum output torque 1,998 lb-ft
- 2-9/16" round output shaft
- Dual pivot with lockout pin to single pivot
- Maximum 3,000 PSI
- 30" maximum auger diameter

AUGER DRIVES (INCLUDES COMMON INDUSTRY INTERFACE MOUNT, CRADLE AND HOSES)

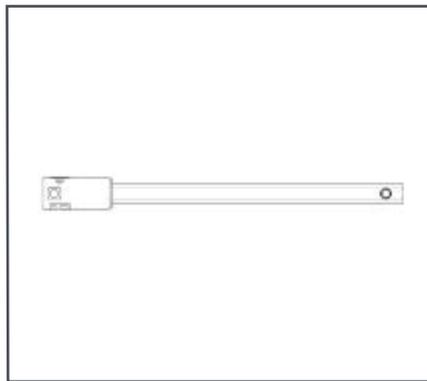
SERIES	FLOW	HUB SHAPE	WEIGHT	ORDER CODE
X1500	8 - 15 GPM	2.56" Round	150 lbs	24453
		2" Hex	150 lbs	24861

*Includes mount with cradle and 66" hoses with 1/2" QD

See page 28 for Augers



See page 30 for Extensions, Teeth and Components

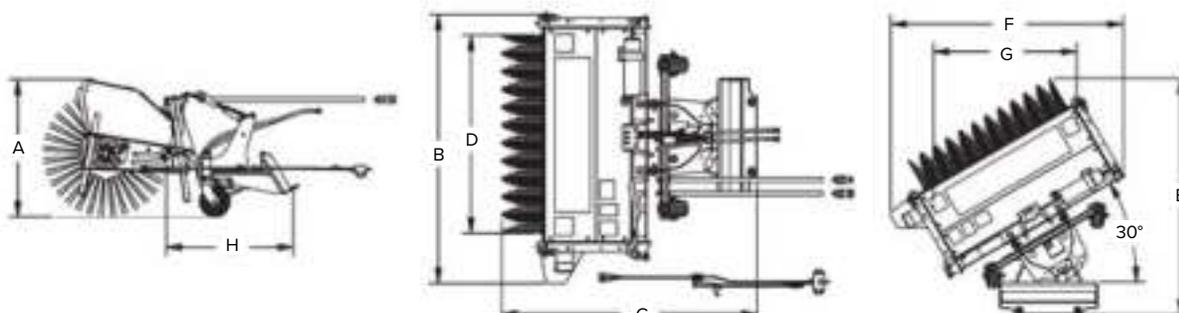


ANGLE BROOMS



FEATURES

- Dethatching lawns, snow removal, cleaning sidewalks, general clean up
- 26" diameter brush heads
- Includes pump and hydraulic tank to power brush
- Lift from mower arms
- Quick change core



ANGLE BROOM SPECIFICATIONS	42"	48"
A. Overall Height	28.5"	28.5"
B. Overall Width	55.5"	61.5"
C. Overall Length	53"	53"
D. Sweeping Width	42"	48"
E. Overall Length @ 30° Angle	58.5"	60"
F. Overall Width @ 30° Angle	57.5"	63"
G. Sweeping Width @ 30° Angle	36.5"	41.5"
H. Center of Gravity (Horizontal)	26"	27"

ANGLE BROOMS WITH 26" BRUSHES						
STYLE	WIDTH	MOUNT	FLOW	BRISTLE MATERIAL	WEIGHT	ORDER CODE
Hydraulic Angle	48"	CII	4 - 8 GPM	Poly-Wire Mix	380 lbs	22647MH-0961*
	48"	CII	6 - 12 GPM	Poly-Wire Mix	380 lbs	22648MH-0961*
Manual Angle	42"	CII	4 - 8 GPM	100% Poly	335 lbs	22641PM-0961
	42"	CII	4 - 8 GPM	Poly-Wire Mix	335 lbs	22641MM-0961
	42"	CII	6 - 12 GPM	Poly-Wire Mix	335 lbs	22642MM-0961
	48"	CII	4 - 8 GPM	Poly-Wire Mix	355 lbs	22647MM-0961
	48"	CII	6 - 12 GPM	100% Poly	355 lbs	22648PM-0961
	48"	Bobcat MT	6 - 12 GPM	Poly-Wire Mix	355 lbs	22648MM-0128

*Includes independent control box

REPLACEMENT BRUSHES FOR ANGLE BROOMS		
MATERIAL	DESCRIPTION	ORDER CODE
Poly-Wire Mix	Set of Brush Sections (Qty 25) for 42" Broom, 26" Diameter	01-5010-25
Poly-Wire Mix	Set of Brush Sections (Qty 28) for 48" Broom, 26" Diameter	01-1158
100% Poly Bristles	Set of Brush Sections (Qty 25) for 42" Broom, 26" Diameter	01-5210-25
100% Poly Bristles	Set of Brush Sections (Qty 28) for 48" Broom, 26" Diameter	01-0849

LIGHT MATERIAL BUCKETS



LIGHT MATERIAL BUCKETS (INCLUDES COMMON INDUSTRY INTERFACE MOUNT)

WIDTH	CONFIGURATION	CAPACITY	WEIGHT	ORDER CODE
44"	Bolt-On Edge (Optional)	7.5 ft ³	289 lbs	107783

EDGES

DESCRIPTION	ORDER CODE
44" Bolt-On Edge Kit	120607

DIRT BUCKETS



DIRT BUCKETS (INCLUDES COMMON INDUSTRY INTERFACE MOUNT)

WIDTH	CONFIGURATION	CAPACITY	WEIGHT	ORDER CODE
36"	Bolt-On Edge Optional	4 ft ³	200 lbs	117506
	With Teeth	4 ft ³	244 lbs	119300
42"	Bolt-On Edge Optional	4 ft ³	220 lbs	2000872
	With Teeth	4 ft ³	235 lbs	19405
48"	Bolt-On Edge Optional	6 ft ³	216 lbs	2000877
	With Teeth	6 ft ³	283 lbs	104579

EDGES

DESCRIPTION	ORDER CODE
36" Bolt-On Edge Kit	107156
42" Bolt-On Edge Kit	107157
48" Bolt-On Edge Kit	107158

GRAPPLES

BRUSH GRAPPLES



FEATURES

- The brush grapple is ideally suited for moving brush, limbs and branches. The open tine design allows the vegetative material to be moved while allowing soil to drop through and remain behind.

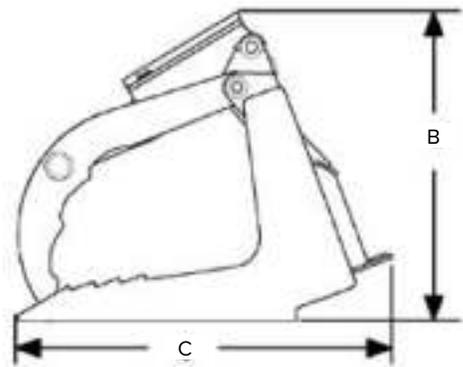
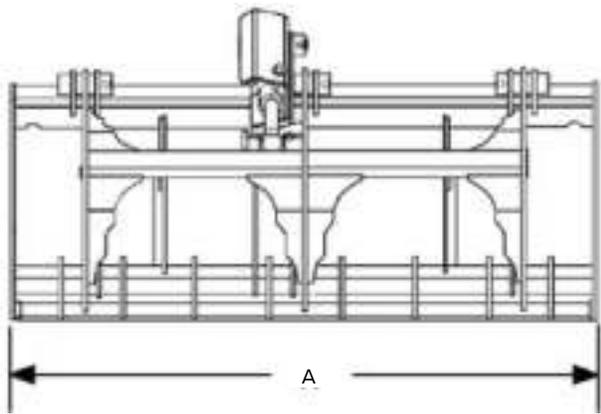
SCRAP GRAPPLES



FEATURES

- The solid floor and grapple make it the ideal mini skid steer tool for scrap and yard waste removal and construction sites, especially in tight areas.

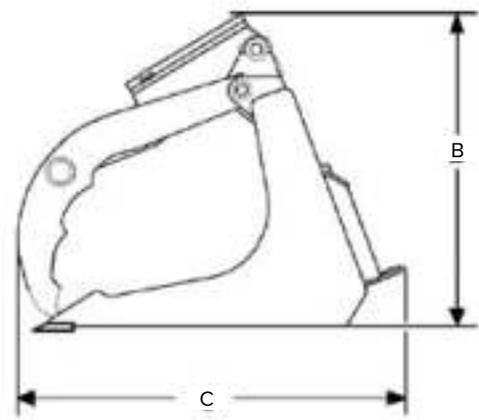
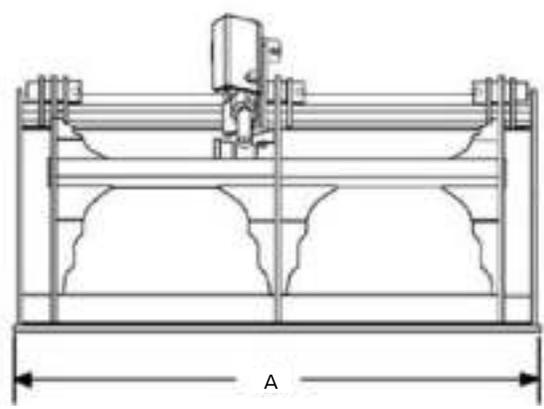
GRAPPLES SPECIFICATIONS



BRUSH GRAPPLES (FITS COMMON INDUSTRY INTERFACE MOUNT)

(A) WIDTH	(B) HEIGHT	(C) LENGTH	GRAPPLE OPENING	WEIGHT	ORDER CODE
42"	25.5"	31"	29"	270 lbs	107036
48"	25.5"	31"	29"	287 lbs	107037

*Includes 72" hoses with 1/2" QD's



SCRAP GRAPPLES (FITS COMMON INDUSTRY INTERFACE MOUNT)

(A) WIDTH	(B) HEIGHT	(C) LENGTH	GRAPPLE OPENING	WEIGHT	ORDER CODE
42"	25"	31"	29"	280 lbs	107148

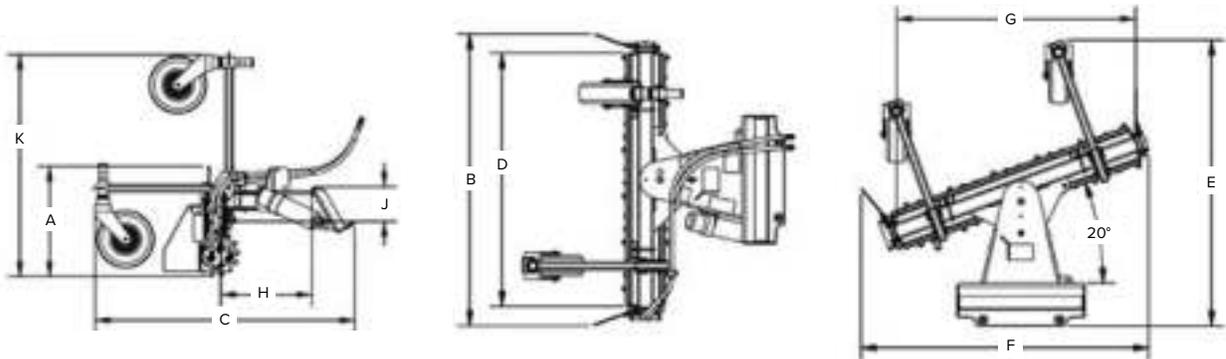
*Includes 72" hoses with 1/2" QD's

HARLEY RAKES



FEATURES

- Direct drive motor is embedded within frame and drum providing optimal protection from dirt and debris.
- Bi-directional motor allows the drum to rotate in either direction maximizing flexibility.
- Adjustable polypropylene barrier above the roller allows you to quickly react to soil moisture conditions. You can choose the size of the material you want to leave in the seedbed. Raising the barrier promotes faster soil drying and opening up of muddy sites.
- Proprietary tooth pattern design. Specially shaped and placed carbide teeth ensure the best possible seedbed sub-base fracture pattern and superior moisture retention and release.
- Easily removable box-end plates for windrowing and reverse box raking...no bolts, just pull the pins.
- Dual independently adjustable gauge wheels allow skim passes for over-seeding - or - adjust to cut drainage grades. Simple height adjustment utilizes bail pins for improved reliability



HARLEY RAKES							
STYLE	MOUNT	(D) RAKING WIDTH	FLOW	WEIGHT	(C) LENGTH	(B) OVERALL WIDTH	ORDER CODE
Hydraulic Angle	CII	48"	8-15 GPM	380 lbs	49"	55.5"	22748H-0961**
	Bobcat MT	48"	8-15 GPM	380 lbs	49"	55.5"	22748H-0128**
Manual Angle	CII	48"	8-15 GPM	365 lbs	49"	55.5"	22748M-0961
	Bobcat MT	48"	8-15 GPM	365 lbs	49"	55.5"	22748M-0128

*Includes hoses with 1/2" QD's

**Includes independent control box

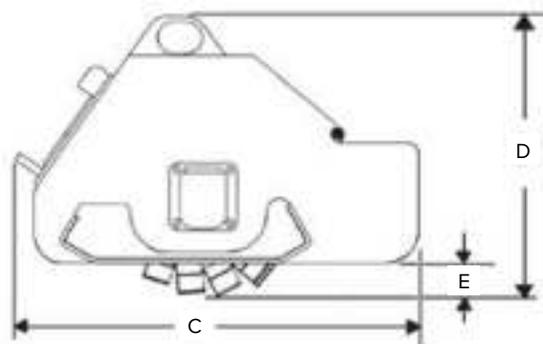
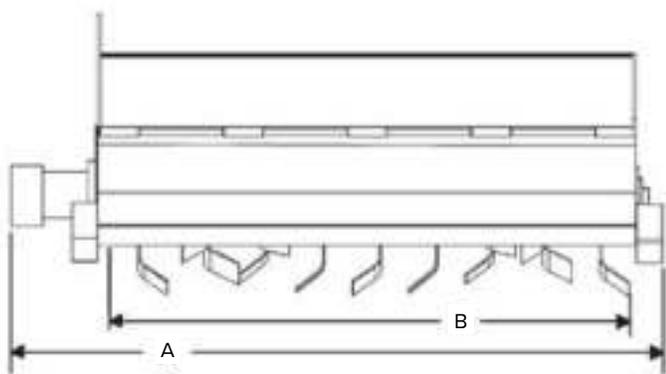
SPECIFICATIONS cont.						
(A) OVERALL HEIGHT	(E) OVERALL LENGTH @ 20°	(F) OVERALL WIDTH @ 20°	(G) RAKING WIDTH @ 20°	(H) CENTER OF GRAVITY - HORIZONTAL	(J) CENTER OF GRAVITY - VERTICAL	(K) OVERALL HEIGHT - CASTER UP
21"	54"	54.5"	45"	17"	6.5"	42"

TILLERS



FEATURES

- Breaks up sod and clumps of soil
- Mixes compost and other materials
- Prepares soil for seeding or reseeding; great for small soil stabilization and landscape jobs



TILLER (FITS COMMON INDUSTRY INTERFACE MOUNT)

FLOW	(B) TILLING WIDTH	(A) OVERALL WIDTH	(C) OVERALL LENGTH	(D) OVERALL HEIGHT	(E) TILLING DEPTH	WEIGHT	MAX PSI	ORDER CODE
8 - 15 GPM	40"	51"	32"	22"	4"	335 lbs	3000 PSI	2008000

Includes 66" hoses with 1/2" QD's

TRENCHERS

615 SERIES TRENCHER



FEATURES

- Fixed length booms available featuring spring-loaded, self adjusting idler with full rock guards
- Allows tight fit with single-side spoil augering
- Replaces dedicated machines at a fraction of the cost

TRENCHING DRIVES (REQUIRES BOOM, CRUMBER AND CHAIN)

MODEL	MOUNT	FLOW	COUPLER	WEIGHT	ORDER CODE
615 Series	CII	6 - 10 GPM	Flat-Face	294 lbs	89952_18392_18558
		10 - 16 GPM	Flat-Face	270 lbs	89952_18393_18558

Includes 56" hoses with 1/2" QD's

Soil Type 1: General Purpose // Tooth Configuration: "TES" - Cup-Style Tooth at Every Station

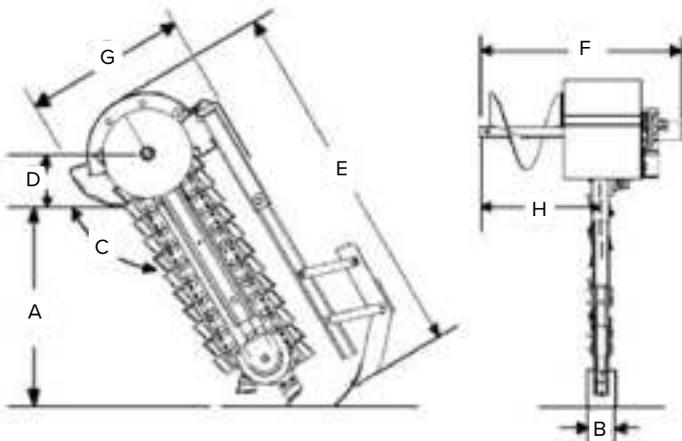
A tooth configuration that is for generally good, normal digging conditions. Light to moderately compacted soils with generally balanced sand and loam content. Also works well in soils with some loose gravel. *In soils with higher clay content, recommend to remove up to 50% of teeth to reduce sticking and gumming.

Soil Type 2: Compacted Soils // Tooth Configuration: "70/30" - Combination 70% Shark Teeth, 30% Cup-Style Teeth

Configured for compacted soils, lightly frozen ground, baked hard clay, shale, and rocky soils. Shark teeth provide a cutting action while cup teeth remove debris from the trench.

BOOM, CRUMBER, CHAIN, AND TOOTH CONFIGURATION

TRENCHING DEPTH	CHAIN WIDTH	TOOTH CONFIGURATION	WEIGHT	ORDER CODES
36"	6"	Type 1: General Purpose "TES"	84 lbs	18403_89823
36"	6"	Type 2: Compacted Soils "70/30"	84 lbs	18403_89826



615 SERIES TRENCHER SPECIFICATIONS 36"

A. 615 Trench Depth w/Auger @ 65° Digging Angle	36"
B. Chain Widths Available	4.5", 6", 8"
C. Recommended Trenching Angle	65°
D. Headshaft Height	10"
E. Overall Trencher Length	65"
F. Overall Trencher Width	42"
G. Overall Trencher Height	28"
H. Spoil Discharge Reach	24"

PALLET FORKS



FEATURES

- 42" and 48" tine lengths
- Adjustable tine widths
- Heavy-duty, easy on and off]
- Spill guard

FORK FRAME

DESCRIPTION	WIDTH	WEIGHT	ORDER CODE
Standard Brick Guard	40"	80 lbs	108366

ITA-MOUNT FORKS

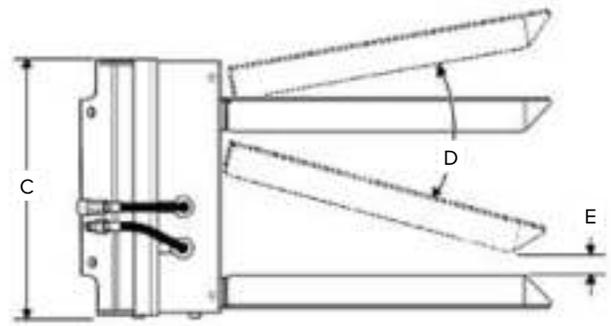
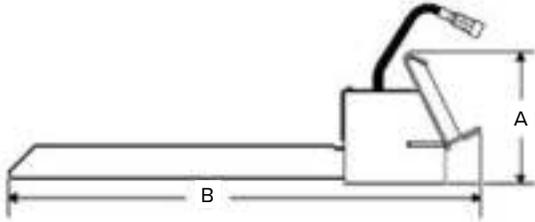
CLASS AND WEIGHT RATING	LENGTH	WEIGHT	ORDER CODE
Class II - 2310 LBS	42"	125 lbs	106220
	48"	138 lbs	106222

TREE FORKS



FEATURES

- 33" length tines
- Up to 27" maximum hydraulic adjustable width
- Hydraulic controlled cylinder



TREE FORKS

(A) OVERALL HEIGHT	(B) OVERALL LENGTH	(C) OVERALL WIDTH	(D) LEFT FORK MOVEMENT RANGE	(E) DISTANCE BETWEEN FORKS - CLOSED	WEIGHT	ORDER CODE
12.5"	47"	25"	38°	4"	145 lbs	2008130

*Includes hoses with 1/2" QD

QUALITY YOU CAN COUNT ON.

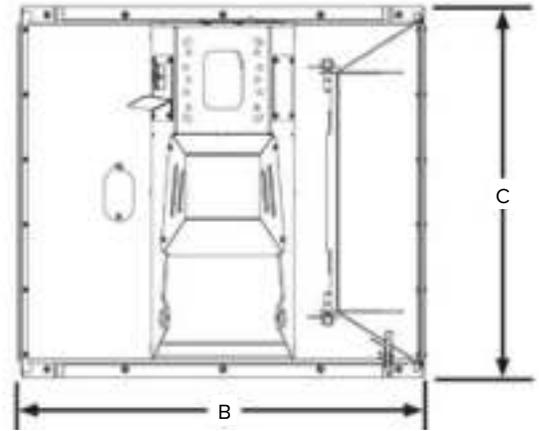
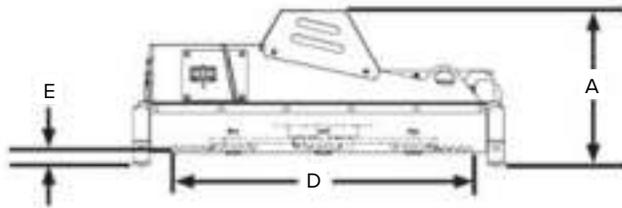


MX BRUSH CUTTER



FEATURES

- No-case-drain design and universal bolt-on mounting system means maximum fleet versatility for end-users and rental fleet owners
- Hinged debris shield provides the aggressive, full-depth cutting action of an open-deck design while limiting operator exposure to flying debris
- Patent-pending TiltLatch™ ensures debris shield stays closed with cutter is overhead, ensuring operator safety even in extreme reach situations



MX SERIES BRUSH CUTTER SPECIFICATIONS	40"	50"	60"
A. Overall Height	23"	23"	25.5"
B. Overall Width	53"	62.5"	72.5"
C. Overall Length	47"	57"	67"
D. Cutting Width	40"	50"	60"
E. Minimum Cutting Height (Skid Shoes on Ground)	2"	2"	2"
Machine Tonnage Rating	3mT-6mT	5mT-8mT	7mT-10mT

MX SERIES BRUSH CUTTER (MOUNT SOLD SEPARATELY; HOSES AND MOUNTS NOT INCLUDED)					
WIDTH	FLOW	MAX BRUSH WIDTH	WEIGHT	ADAPTER PATTERN	ORDER CODE
40"	13 - 19 GPM	4"	660 lbs	A	125140A-BLNK
	19 - 26 GPM	4"	660 lbs	A	125140B-BLNK
50"	17 - 22 GPM	5"	1050 lbs	B or C	125150A-BLNK
	22 - 34 GPM	5"	1050 lbs	B or C	125150B-BLNK
60"	20 - 28 GPM	6"	1240 lbs	B or C	125160A-BLNK
	28 - 35 GPM	6"	1240 lbs	B or C	125160B-BLNK

CONSUMABLES	
DESCRIPTION	ORDER CODE
Replacement Skid Shoe Kit, 40" Model	125178
Replacement Skid Shoe Kit, 50" Model	125179
Replacement Skid Shoe Kit, 60" Model	125180
Replacement Blade Kit, Fits All Models	125090

FOR ADAPTER INFORMATION, REFER TO THE STRIKEFORCE ADAPTER MATCHING GUIDE

MX BRUSH CUTTER ADAPTER SELECTION PROCESS

PART 1: CUTTER SELECTION (use table below)

STEP 1: Select machine ton range. (Metric Tons) = (Weight in LBS) / (2,200).

STEP 2: Select machine lifting capacity.

STEP 3: Select auxiliary hydraulic flow*. If not specified, use 65% of total machine flow in GPM.

- NOTE: Cutter must always be operated in bidirectional mode, never in hammer/breaker mode.

STEP 4: Select desired cut width (multiple options may not always be available)

- Larger = More productive / Can be used on larger, more powerful machines.
- Smaller = Less expensive / Will likely fit a broader population of machines.

RESULT: Take note of the SKU and Adapter Pattern(s); Adapter Pattern is used in Adapter Selection.

CUTTER SELECTION PROCESS					CUTTER SELECTION PROCESS		
STEP 1	STEP 2	STEP 3	STEP 4		MODEL	SKU	ADAPTER PATTERN
MACHINE WEIGHT	LIFT CAPACITY (LBS)	AUX. FLOW* (GPM)	CUTTING WIDTH				
3mT - 6mT	700+	13 - 19	40"	→	BC40MX10	125140A-BLNK	A
		19 - 26			BC40MX20	125140B-BLNK	
5mT - 8mT	1140+	17 - 22	50"	→	BC50MX10	125150A-BLNK	B and C
		22 - 34			BC50MX20	125150B-BLNK	
7mT - 10mT	1440+	20 - 28	60"	→	BC60MX10	125160A-BLNK	B and C
		28 - 35			BC60MX20	125160B-BLNK	

*Auxiliary flow to cutter, not total machine flow. If not specified, auxiliary flow is ~65% of total machine flow. Cutter must always be operated in bidirectional mode, never in hammer/breaker mode.

PART 2: ADAPTER SELECTION (use adapter matching guide)

STEP 1: Find the machine make/model in the adapter matching guide (use Ctrl F to search PDF).

STEP 2: Identify an adapter with a pattern available on the cutter selected (ex: B or C pattern); use a CORE adapter whenever possible (will tend to have best lead times and lowest price):

- A-pattern: 28-11090-****
- B-pattern: 28-11091-****
- C-pattern: 28-10973-****
- D-pattern: 28-11092-****

TROUBLESHOOTING AND SPECIAL CASES

SPECIAL CASES	SOLUTION
No direct pattern match, but larger pattern is available (ex: need an A pattern, but only B patterns available)	A. Add a pattern adapter (ex. A-to-B adapter) B. Add hardware kit for larger pattern (ex. B hardware kit)
No adapters listed, or machine make/model not listed.	Submit estimate request through Inside Sales.
Two motor sizes available (ex: BC**MX10 and BC**MX20)	Customer preference, based on application needs: A. Use lower flow range for grass (higher tip speed). B. Use higher flow range for brush (more power).
Two cutter widths available (ex: BC40MX** or BC50MX**)	Customer preference based on several considerations: A. Brush size capability (40" = 4" brush, 50" = 5", 60" = 6") B. Maneuverability (Lower weight = More maneuverable) C. Other machines in customer's fleet D. Price

AUGER DRIVES

75D SERIES AUGER DRIVES



FEATURES

- All 75 Series hydraulic motors drive the auger through a sealed planetary gear reduction
- The heavy-duty, all-gear design gives these units a long life with minimal maintenance and service costs
- 75 Series drive units are completely sealed, with all moving components running in oil for total lubrication on a constant basis
- All models feature reverse rotation for quick backout when obstructions are encountered
- The system's hydraulic relief valve protects the units from damage when the auger hits large, immovable objects

AUGER DRIVES (MOUNT SOLD SEPARATELY; HOSES AND MOUNTS NOT INCLUDED)

SERIES	FLOW	HUB SHAPE	WEIGHT	ORDER CODE
X975D	6 - 15 GPM	2" Hex	148 lbs	124720
X1475D	10 - 25 GPM	2" Hex	150 lbs	23537
X1975D	15 - 30 GPM	2" Hex	152 lbs	23540
X2475D	20 - 35 GPM	2" Hex	154 lbs	124792

AUGER EXCAVATOR MOUNTS

DESCRIPTION	ORDER CODE
CP-027 Mount, Cradle-Ready	23362
CP-030 Mount, Cradle-Ready	23435
Kubota Wedge-Style Coupler with 6.725" Ear Spacing, Cradle Not Available	24749
Kubota Wedge-Style Coupler with 8.75" Ear Spacing, Cradle-Ready	24282
Kubota Wedge-Style Coupler with 9.12" Ear Spacing, Cradle-Ready	116003
Kubota Wedge-Style Coupler with 9.125" Ear Spacing, Cradle Not Available	24450
Kubota Wedge-Style Coupler with 12.21" Ear Spacing, Cradle-Ready	113464
John Deere Wedge-Style Coupler with 8" Ear Spacing, Cradle Not Available	24008
John Deere Wedge-Style Coupler with 9" Ear Spacing, Includes Cradle	19296
Case 580/590 Pendulum Style 1.75x10.13	21279
Pin-Grabber Style Coupler with 35x5.50x8.39mm, Cradle Not Available	24403
Pin-Grabber Style Coupler with 40x5.37x7.84mm, Cradle-Ready	110770
Pin-Grabber Style Coupler with 45x6.50x10.63mm Cradle Not Available	24460
Pin-Grabber Style Coupler with 45x6.75x11.22mm, Cradle-Ready	123232
Pin-Grabber Style Coupler with 45x6.25x10.24mm, Cradle-Ready	117789
Pin-Grabber Style Coupler with 50x8.00x12.2mm Cradle Not Available	24837
Weld-On Universal Plate - No Cradle	24462
Bolt-On for Front-End-Loader or Bucket Lip	21235
SSL Mount Offset, Cradle-Ready	24777
SSL Mount with Cradle	113026

AUGER DRIVES SPECIFICATIONS

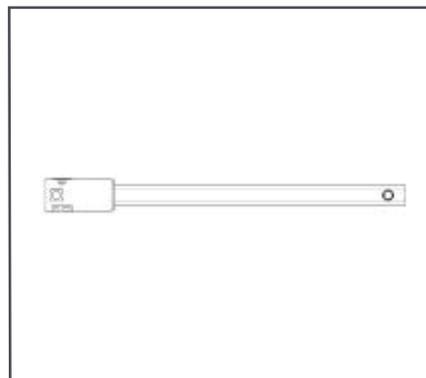
OUTPUT SPEED		
SERIES	FLOW	SPEED
X975D	6 GPM 23 LPM	38 RPM
	8 GPM 30 LPM	50 RPM
	10 GPM 38 LPM	63 RPM
	12 GPM 45 LPM	75 RPM
	15 GPM 57 LPM	94 RPM
X1475D	10 GPM 38 LPM	40 RPM
	12 GPM 45 LPM	49 RPM
	14 GPM 53 LPM	57 RPM
	15 GPM 61 LPM	61 RPM
	20 GPM 76 LPM	79 RPM
X1975D	25 GPM 95 LPM	104 RPM
	15 GPM 57 LPM	53 RPM
	18 GPM 68 LPM	63 RPM
	20 GPM 76 LPM	70 RPM
	24 GPM 91 LPM	84 RPM
X2475D	28 GPM 106 LPM	98 RPM
	30 GPM 114 LPM	106 RPM
	20 GPM 76 LPM	56 RPM
	22 GPM 83 LPM	61 RPM
	24 GPM 91 LPM	67 RPM
X2475D	26 GPM 98 LPM	73 RPM
	28 GPM 106 LPM	78 RPM
	30 GPM 114 LPM	84 RPM
	35 GPM 132 LPM	98 RPM

OUTPUT TORQUE			
SERIES	PRESSURE	TORQUE	
X975D	2000 PSI 141 BAR	1000 ft. lbs.	1356 N. m.
	2500 PSI 176 BAR	1277 ft. lbs.	1731 N. m.
	3000 PSI 211 BAR	1500 ft. lbs.	2034 N. m.
	3500 PSI 241 BAR	1713 ft. lbs.	2330 N. m.
	2000 PSI 138 BAR	1600 ft. lbs.	2169 N. m.
X1475D	2500 PSI 172 BAR	2000 ft. lbs.	2712 N. m.
	3000 PSI 207 BAR	2377 ft. lbs.	3223 N. m.
	3500 PSI 241 BAR	2630 ft. lbs.	3577 N. m.
X1975D	2000 PSI 138 BAR	1856 ft. lbs.	2516 N. m.
	2500 PSI 172 BAR	2328 ft. lbs.	3156 N. m.
	3000 PSI 207 BAR	2769 ft. lbs.	3754 N. m.
	3500 PSI 241 BAR	3044 ft. lbs.	4140 N. m.
X2475D	2000 PSI 138 BAR	2308 lb. ft.	3129 N. m.
	2500 PSI 172 BAR	2895 lb. ft.	3925 N. m.
	3000 PSI 207 BAR	3451 lb. ft.	4686 N. m.
	3500 PSI 241 BAR	3821 ft. lbs.	5196 N. m.

See page 28 for Flights



See page 30 for Extensions, Teeth and Components

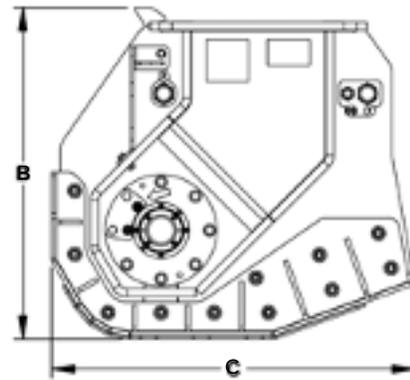
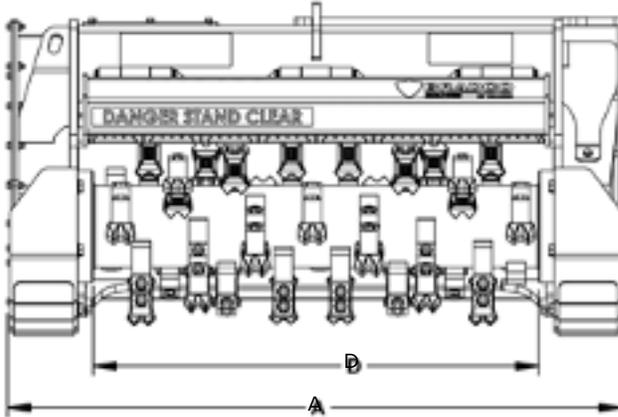


MULCHERS - DRUM STYLE



FEATURES

- Shreds up to 8" diameter hardwood trees
- Patented tooth design and easily interchangeable tooth design options
- Replaceable abrasion resistant AR400 wear plate on skid shoes
- Deflector door standard to control particle size and discharge direction
- Reversible teeth double the useful life vs. single-edge styles



DRUM STYLE MULCHER SPECIFICATIONS	MM36E	MM421E	MM422E
A. Overall Width	48.5"	58"	58.5"
B. Overall Height	25"	32"	33"
C. Overall Length	33"	34"	35"
D. Cutting Width	36"	42"	42"

MULCHERS - DRUM STYLE SPECIFICATIONS

DRUM STYLE MULCHER (REQUIRES MOUNT AND TEETH)*						
WIDTH	RATING	MODEL	WEIGHT	FLOW RANGE	OPERATING PRESSURE	ORDER CODE
36"	8-16mT	MM36E	1580 lbs	28 - 41 GPM	3500 - 5000 PSI	115620
		MM36E	1600 lbs	42 - 60 GPM	3500 - 5000 PSI	115621
42"	14-21mT	MM421E	2505 lbs	29 - 39 GPM	4500 - 5800 PSI	31442-0000
		MM421E	2505 lbs	39 - 49 GPM	4500 - 5800 PSI	31542-0000
	20-30mT	MM422E	2920 lbs	40 - 52 GPM	4500 - 5800 PSI	30742-0000

*Hoses and QD's not included

MULCHER EXCAVATOR MOUNTS	
DESCRIPTION	ORDER CODE
MM36, Case CX80	114521
MM36, Case CX160	114304
MM36, Cat 315D	114992
MM36, Hyundai HW140	125098
MM36, Kobelco SK135SR / SK140SR-5	115517
MM36, Kubota KX080	113468
MM36, Link-Belt 135 MSR / Case CX130 / CX135 / CX145	114290
MM36, Takeuchi TB1140-2150 / John Deere 120CLC	113997
MM36, Volvo EC150	114567
MM36, Volvo EC160 S1	120565
MM421, Case 160-160D / JCB 160-190 / Link-Belt 160LX-160X4	121794-9020
MM421, Deere 160-160G / Hitachi EX160LC5, ZX160LC-ZX160LC5	121794-7150
MM421, Deere 180C-180G, 190D-190G, 200-200D	121794-7201
MM421, Hitachi ZX180LC5-180W, ZX190W3, EX200LC-200LC3, ZX210LC5-210W	121794-7201
MM421, Deere 230-230C, 240D, 250G / Hitachi EX220LC3-230LC5, ZX230-ZX250LC5	121794-7230
MM422, Cat 320-320F, 321C-321D, M322C-M322D, 323D-323F (must have B Linkage, all models)	121795-0320
MM422, Deere 200-200D, 210C-210G, 220D, 225D, 245G	121795-7201
MM422, Hitachi ZX190W3, EX200LC-200LC5, ZX200LC-200LC3, ZX210LC5, ZX210W, ZX220W3, ZX225USLC-ZX225USLC3, ZX245USLC5	121795-7201
MM422, Deere 230-300 / Hitachi 220-290	121795-7230
MM422, Volvo 290-300	121795-5280
TMB, Case CX145D	124983

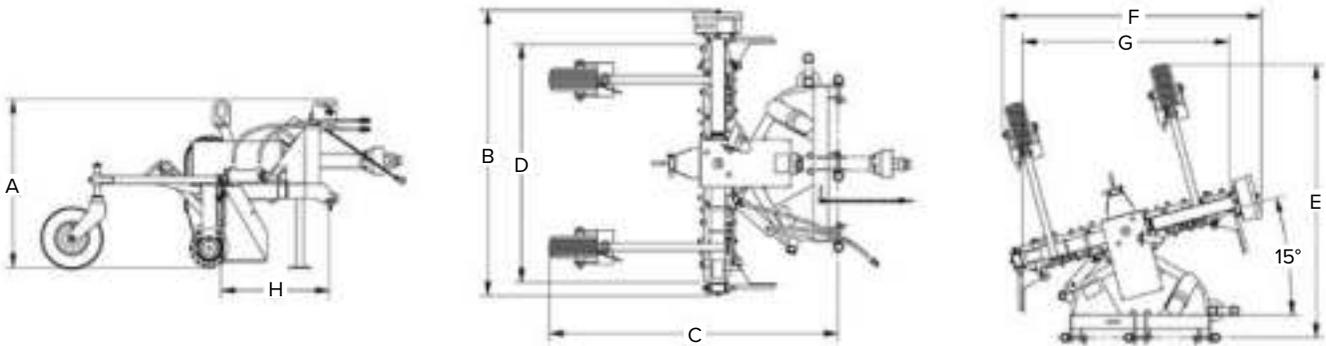
REQUIRED TOOTH KITS / REPLACEMENT TOOTH KITS		
STYLE	COMPATIBILITY	ORDER CODE
Reversible Claw Teeth Kit	MM36E	116089
	MM421E / MM422E	120052
Reversible Carbide Hammer Kit	MM36E	116088
	MM421E / MM422E	120051

HARLEY RAKES



FEATURES

- Grease-able, triple-sealed and shielded bearings for extra protection and long life
- Harley's well designed frame geometry offers excellent visibility of your work surface
- Dual independently adjustable gauge wheels allow for skim passes for over seeding - or - adjust to cut drainage grades
- Angling capability powered by the tractor hydraulics, allowing the operator to angle right or left for directing material
- Unique Tractor Mount Compensation Slot for attachment of the three point arm, fixed or floating, depending upon job site requirements.
- The Roll Back Barrier's Aperture Control gives the operator 5 separate control options over how the material is handled by the roller and teeth



HARLEY RAKES						
STYLE	(D) RAKING WIDTH	3PT ATTACHMENT	HORSEPOWER (HP) RANGE	WEIGHT	(C) LENGTH	ORDER CODE
Hydraulic Angle*	60"	Cat. I	18 - 32	560 lbs	58"	TM5H-0052
	72"	Cat. I	30 - 40	865 lbs	63.5"	T6H-0052
	84"	Cat. I-II	42 - 80	1290 lbs	69"	TM7H-0052
	90"	Cat. I-II	42 - 80	1345 lbs	69"	TM8H-0052
Manual Angle**	60"	Cat. I	18 - 32	555 lbs	58"	TM5M-0052
	72"	Cat. I	30 - 40	865 lbs	63.5"	T6M-0052

*Includes hoses with 1/2" Poppet Couplers
 **Manual Angle Rakes do not include hoses.

SPECIFICATIONS cont.						
STYLE	(A) OVERALL HEIGHT	(B) OVERALL WIDTH	(E) OVERALL LENGTH @ 15°	(F) OVERALL WIDTH @ 15°	(G) RAKING WIDTH @ 15°	(H) CENTER OF GRAVITY - HORIZONTAL
Hydraulic Angle	34"	69.5"	62.5"	68.5"	58"	22"
	40"	82.5"	68.5"	80.5"	69.5"	25.5"
	44"	94.5"	75"	92"	81"	27"
	44"	100.5"	76"	98"	87"	27"
Manual Angle	34"	69.5"	62.5"	68.5"	58"	22"
	10"	82.5"	68.5"	80.5"	69.5"	25.5"

4-IN-1 MULTI-PURPOSE BUCKETS

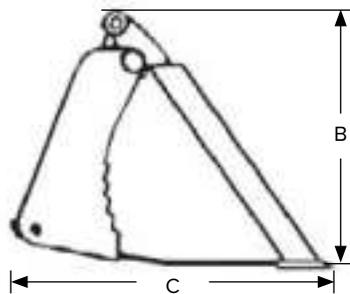
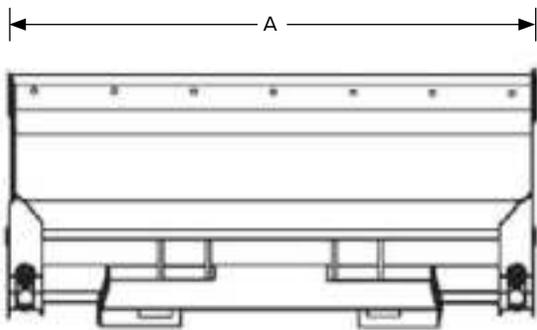
HEAVY DUTY



Shown with mount for Zettelmeyer 602

FEATURES

- Ideal for site clean up, grading, scraping, grappling, dozing and brush removal
- Single bevel bolt on dozer edge, double bevel bolt on clam edges, front and back
- Double .25" plate steel clamshell reinforced with .75" x 6" cutting edge front, .50" x 6" back and .50" wearbars; Wear resistant Pacal steel tapered cutting edge: .75" x 6"; Wear resistant Pacal steel tapered dozer edge; End plates: .375" with mounting brackets.



4-IN-1 MULTI-PURPOSE BUCKETS (INCLUDES QCP-7000 HITCH - HOSES NOT INCLUDED)

DUTY CLASS	(A)WIDTH	WEIGHT	(B) HEIGHT	(C) DEPTH	HEAPED CAPACITY	ORDER CODE
Heavy Duty	82"	1100 lbs	36.5"	35"	1 yd	LAF3182-0733
	90"	1275 lbs	36.5"	35"	1.1 yd	LAF3190-0733
	96"	1450 lbs	36.5"	35"	1.2 yd	LAF3196-0733

EDGES

DESCRIPTION	WEIGHT	ORDER CODE
82" Bolt-On Edge Kit (9 holes @ 9.75")	136 lbs	15029
90" Bolt-On Edge Kit (10 holes @ 9")	150 lbs	113991
96" Bolt-On Edge Kit (9 holes @ 10.82")	160 lbs	11002

HOSES (1/2" QD)

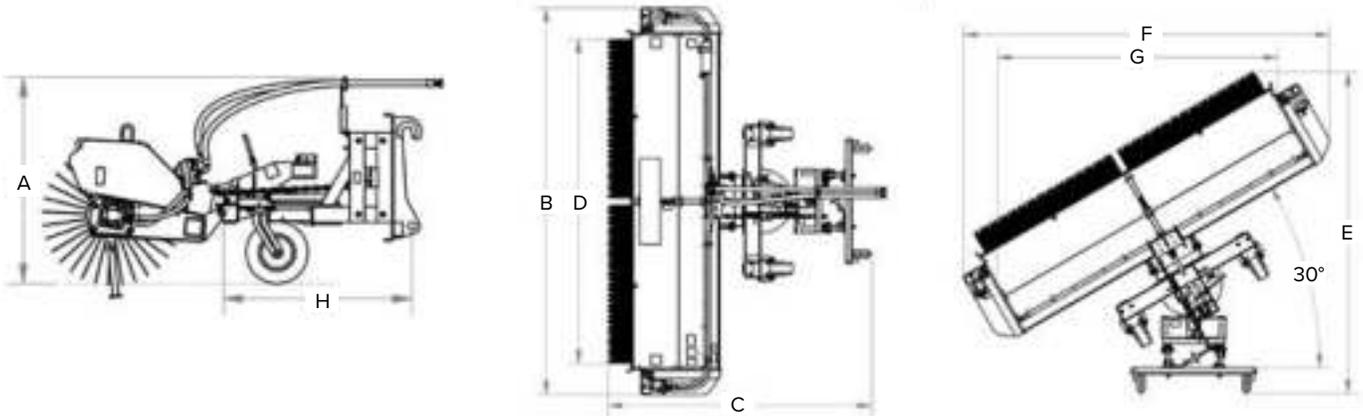
HOSE LENGTH	ORDER CODE
66"	103577
75"	105845
94"	103603

WHEEL LOADER ANGLE BROOMS (WLA)



FEATURES

- Dual-motor design for high torque
- Quick-change brush without breaking hydraulic lines
- Third valve required to operate; fourth valve required to operate optional hydraulic angle change
- Parallel linkage allows sweeper to follow ground contours
- Manual angle 30 degrees left/right is standard
- Choose poly, wire, or poly/wire brush



WLA ANGLE BROOM SPECIFICATIONS	96"	108"	120"	144"
A. Overall Height	44"	44"	53"	53"
B. Overall Width	116"	127.5"	144"	168"
C. Overall Length	87.5"	87.5"	98"	98"
D. Sweeping Width	96"	108"	120"	144"
E. Overall Length @ 30° Angle	104.5"	107.5"	119.5"	125.5"
F. Overall Width @ 30° Angle	108.5"	119"	136"	157"
G. Sweeping Width @ 30° Angle	83"	93.5"	104"	129"
H. Center of Gravity - Horizontal	39"	40"	48.5"	50"
Maximum Pressure	3000 PSI	3000 PSI	3000 PSI	3000 PSI

WHEEL LOADER ANGLE BROOMS SPECIFICATIONS

WLA ANGLE BROOMS (REQUIRES MOUNT)					
STYLE	WIDTH	FLOW	BRISTLE MATERIAL	WEIGHT	ORDER CODE
Manual Angle	96"	20 - 36 GPM	32" Poly-Wire Mix	1400 lbs	22197MM
	108"	20 - 36 GPM	32" Poly-Wire Mix	1450 lbs	22109MM
Hydraulic Angle (12V Manifold)	96"	20 - 36 GPM	32" Poly-Wire Mix	1440 lbs	22197MH
	108"	20 - 36 GPM	32" Poly-Wire Mix	1490 lbs	22109MH
	120"	18 - 45 GPM	36" Poly-Wire Mix	2240 lbs	21320MH
	120"	24 - 60 GPM	36" Poly-Wire Mix	2240 lbs	21321MH
	144"	24 - 60 GPM	36" Poly-Wire Mix	2365 lbs	21345MH
Hydraulic Angle (24V Manifold)	96"	20 - 36 GPM	32" Poly-Wire Mix	1440 lbs	22197MH2
	108"	20 - 36 GPM	32" Poly-Wire Mix	1490 lbs	22109MH2
	120"	18 - 45 GPM	36" Poly-Wire Mix	2240 lbs	21320MH2
	120"	24 - 60 GPM	36" Poly-Wire Mix	2240 lbs	21321MH2
	144"	24 - 60 GPM	36" Poly-Wire Mix	2365 lbs	21345MH2

96" and 108" models include 91" hoses without QD's
120" and 144" models include 120" hoses without QD's

WLA ANGLE BROOM MOUNTS	
DESCRIPTION	ORDER CODE
CAT IT	LAF1661-0134
CAT Fusion	LAF1661-0217
CAT 908HC	LAF1661-0984
JRB 416	LAF1661-0913
JRB 418	LAF1661-0971
JRB E-Series	LAF1661-0869
JCB 411	LAF1661-0028
L90E / ISO	LAF1661-0934
Manitou	LAF1661-0620
QCP-7000	LAF1661-0733
WA200-5	LAF1661-0434
Zettelmeyer 602	LAF1661-0906
Category II & III (3-Point)	13-19706-0790

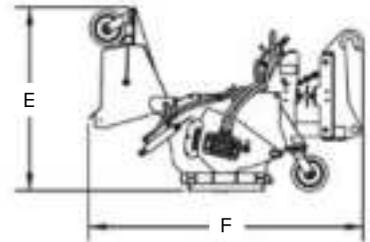
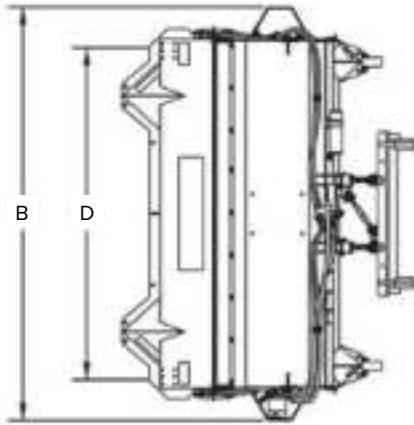
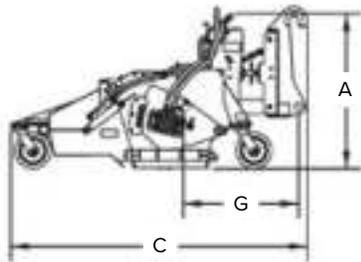
REPLACEMENT BRUSHES FOR ANGLE BROOMS		
MATERIAL	DESCRIPTION	ORDER CODE
Poly-Wire Mix	Set of Brush Sections for 96" Broom (Qty 47), 32" Diameter	01-0933
Poly-Wire Mix	Set of Brush Sections for 108" Broom (Qty 53), 32" Diameter	01-1148
Poly-Wire Mix	Set of Brush Sections for 120" Broom (Qty 54 Mixed + Qty 4 Poly), 36" Diameter	01-1211-10
Poly-Wire Mix	Set of Brush Sections for 144" Broom (Qty 66 Mixed + Qty 4 Poly), 36" Diameter	01-1211-12
100% Poly Bristles	Set of Brush Sections for 96" Broom (Qty 47), 32" Diameter	01-0080C
100% Poly Bristles	Set of Brush Sections for 108" Broom (Qty 53), 32" Diameter	01-1210-9
100% Poly Bristles	Set of Brush Sections for 120" Broom (Qty 58), 36" Diameter	01-1212-10
100% Poly Bristles	Set of Brush Sections for 144" Broom (Qty 71), 36" Diameter	01-1212-12

PICKUP BROOMS (CS)



FEATURES

- Heavy duty cleanup, millings, snow removal
- High dump feature activated by reversing flow
- Hopper positioned in front
- Powered from loader hydraulics
- Quick change core



CS PICKUP BROOM SPECIFICATIONS	CS26		CS32	
	7 FT	8 FT	8 FT	9 FT
A. Overall Height	44"	44"	40"	40"
B. Overall Width	105"	117"	117"	129"
C. Overall Length	83.5"	83.5"	80.5"	80.5"
D. Sweeping Width	84"	96"	96"	108"
E. Overall Height - Open	52"	52"	59"	59"
F. Overall Length - Open	77.5"	77.5"	79.5"	79.5"
G. Center of Gravity - Horizontal	32"	32.5"	32.5"	33"

PICKUP BROOMS (CS) SPECIFICATIONS

PICKUP BROOMS ("CS BROOMS")(REQUIRES MOUNT)					
FLOW	WIDTH	BRUSH DIAMETER	HOPPER CAPACITY	WEIGHT	ORDER CODE
15 - 25 GPM	84"	26"	0.5 yds	1268 lbs	20384M
	96"	26"	0.6 yds	1318 lbs	20396M
26 - 50 GPM	84"	26"	0.5 yds	1288 lbs	20385M
	96"	26"	0.6 yds	1338 lbs	20397M
	96"	32"	0.9 yds	1288 lbs	20497M
	108"	32"	1.0 yds	1338 lbs	20409M

PICKUP BROOM MOUNTS		
DESCRIPTION	ORDER CODE	PRICE
CAT IT	-0134	Included
CAT Fusion	-0217	Included
CAT 908HC	-0984	Included
JRB 416	-0913	Included
JRB 418	-0971	Included
JRB E-Series	-0869	Included
JCB 411	-0028	Included
L90E / ISO	-0934	Included
Manitou	-0620	Included
QCP-7000	-0733	Included
WA200-5	-0434	Included
Zettelmeyer 602	-0906	Included

REPLACEMENT BRUSHES FOR PICKUP BROOMS		
MATERIAL	DESCRIPTION	ORDER CODE
Poly-Wire Mix	Set of Brush Sections for 84" Broom (Qty 49), 26" Diameter	01-1169
Poly-Wire Mix	Set of Brush Sections for 96" Broom (Qty 53), 26" Diameter	01-9321
Poly-Wire Mix	Set of Brush Sections for 96" Broom (Qty 47), 32" Diameter	01-0933
Poly-Wire Mix	Set of Brush Sections for 108" Broom (Qty 53), 32" Diameter	01-1148
100% Poly Bristles	Set of Brush Sections for 84" Broom (Qty 49), 26" Diameter	01-1163
100% Poly Bristles	Set of Brush Sections for 96" Broom (Qty 53), 26" Diameter	01-9322
100% Poly Bristles	Set of Brush Sections for 96" Broom (Qty 47), 32" Diameter	01-0080C

OPTIONAL GUTTER BROOM KIT FOR PICKUP BROOMS		
MATERIAL	ASSEMBLY	ORDER CODE
100% Poly	Single	28-10118
100% Poly	Dual	28-10120
100% Wire	Single	28-10117
100% Wire	Dual	28-10119

25 GALLON SPRINKLER KITS FOR PICKUP BROOMS		
TYPE	MACHINE ELECTRICAL	ORDER CODE
Field-Install Kit	12v	28-9139
Field-Install Kit	24v	28-9193

INTRODUCTION

Paladin Attachments Division of Bradco, FFC Harley, McMillen & Sweepster are synonymously used throughout this manual and in reference to Company policy. When Palain Attachments is used, it is reference to the specific product of that Division.

Our equipment is warranted to be free of defects in material and/or workmanship. If a defect should exist, repair or replacement of the defective part(s) by that division to the authorized servicing agent are provided for as set forth herein. Warranty begins on the date the product is purchased by the original purchaser, first lease and/or rental of unit, or 6 months after invoiced ship date if no registration has been submitted. Once the warranty period has begun it cannot be stopped or interrupted for any reason, and all warranties are non-transferable. If leased or rented by rental yard first, then sold warranty will not transfer, warranty ends at that point.

It is important to remember that the final decision to accept or reject a warranty claim is based upon the information presented for each situation. To receive proper credit consideration, please include complete details on all defects and the procedures required to correct. Although details may seem obvious to the person preparing the claim, the manufacturer doesn't have this same first-hand information. Photographs and detailed information are a tremendous help in getting your warranty claims handled expeditiously. Additional correspondence to obtain more information only delays settlement.

IMPROVEMENTS

Paladin attachments is continually attempting to make product improvements. It reserves the right to make changes or additions to any product without incurring any obligation whatsoever to make such changes or additions to products previously sold.

LIMITED WARRANTY POLICY

Subject to the terms and conditions set forth in this Limited Warranty (this "Warranty"), this Warranty covers all new products identified in the chart included in the Addendum attached to this Warranty (the "Addendum") that are manufactured and sold by Paladin Attachments, including parts thereof (such products and parts collectively defined as "Covered Products") that are defective in material and/or workmanship during the applicable warranty period (as specified in the chart below). This Warranty does not cover any merchandise or components of a Covered Product that, in the opinion of Paladin Attachments ("Paladin"), have been subject to misuse, modifications or alterations not specifically authorized by Paladin, or any damage due to an accident or any repair to the Covered Product that has not been made with parts obtained from Paladin.

The terms and conditions of this Warranty shall include all of the terms and conditions set forth in this Warranty, including, without limitation, the "Dealer Responsibilities" and "Owner Responsibilities" set forth below, the Addendum attached to this Warranty, and adherence to the instructions set forth in the operator's manual for the Covered Product.

Subject to the terms and conditions set forth in this Warranty, in the event of an occurrence of a defect in material and/or workmanship in a Covered Product during the applicable warranty period (each such occurrence, a "Warranty Event"), such Covered Product (or part thereof) will be repaired or replaced at Paladin's option. Upon Paladin's request, the defective Covered Product (or part thereof) shall be returned PRE-PAID to Paladin for inspection at the location specified by Paladin. Any claim of a Warranty Event (a "Warranty Claim") must be submitted in accordance with the procedures set forth in this Warranty—otherwise, the Warranty Claim will be denied by Paladin.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, AND THERE ARE NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL PALADIN BE LIABLE FOR ANY CONSEQUENTIAL OR SPECIAL DAMAGES.

PALADIN'S LIABILITY FOR ANY AND ALL LOSSES AND DAMAGES INCURRED AS A RESULT OF ANY CAUSE WHATSOEVER, INCLUDING NEGLIGENCE, IRRESPECTIVE OF WHETHER SUCH DEFECTS ARE DISCOVERABLE OR LATENT, SHALL IN NO EVENT EXCEED THE PURCHASE PRICE OF THE PARTICULAR COVERED PRODUCT WITH RESPECT TO WHICH LOSSES OR DAMAGES ARE CLAIMED, OR, AT THE ELECTION OF PALADIN, THE REPAIR OR REPLACEMENT OF THE COVERED PRODUCT.

LIMITATION OF LIABILITY:

The liability of Paladin for any and all losses and damages incurred as a result of a Warranty Event or any other cause whatsoever, including the negligence of Paladin, irrespective of whether a defect is or was discoverable or latent, shall in no event exceed the purchase price of the Covered Product with respect to which such losses or damages are claimed. Under no circumstances will Paladin be liable to any person or entity for any loss arising out of or caused by delay in delivery. Any remedy for the breach of any obligation arising from or relating to the sale of the Covered Products or arising out of the purchase or sale of the Covered Products, whether derived from warranty or otherwise, shall be limited to the remedies expressly specified in this Warranty. ANY LIABILITY FOR ANY OTHER DAMAGE OR LOSS, INCLUDING, WITHOUT LIMITATION, ANY LOST PROFITS, LOST SALES, LOSS OF FUEL OR OTHER PRODUCTS, LOSS OF USE OF EQUIPMENT, COSTS OF BUSINESS INTERRUPTION OR DOWN TIME, LOSS OF BUSINESS OPPORTUNITY, CAPITAL COSTS, COST OF SUBSTITUTE EQUIPMENT, FACILITIES OR SERVICE, COSTS OF ENVIRONMENTAL REMEDIATION, DIMINUTION IN PROPERTY VALUE, OR ANY OTHER SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR ANY TYPE OR NATURE, IS HEREBY DISCLAIMED AND EXCLUDED.

WARRANTY CLAIM PROCEDURES

To be eligible to submit a Warranty Claim for any products, parts or labor, the Warranty Registration for the Covered Product must be completed and returned to Paladin. Note: The Warranty Registration is issued with each new Covered Product and can also be found on Paladin's website (www.paladinattachments.com). Any questions or requests for assistance in completing the Warranty Registration must be directed to Paladin's Technical Service Department.

To be eligible for reimbursement for any products, parts or labor, a completed Warranty Claim must be submitted in accordance with each of the following procedures—otherwise, the Warranty Claim will be denied: Warranty Claim forms may be obtained from Paladin's website or by contacting Paladin's Technical Service Department.

The Warranty Claim must be submitted by the dealer within 30 days from date of repair upon receipt of replacement components.

Before any repairs are made to a Covered Product, the dealer must obtain a Warranty Authorization Number from Paladin's Technical Service Department.

WARRANTY CLAIMS MUST CONTAIN THE FOLLOWING INFORMATION:

- Covered Product serial number.
- Model and description of the Covered Product.
- Machine serial number.
- Description of the machine.
- Date Warranty Claim is prepared.
- Covered Product in service date.
- Date of failure.
- Hours of use on the Covered Product (often the same as machine hour meter).
- Dealer claim number.
- An accurate accounting of the failure or non-conformance. Photographs are helpful in investigating the failure and help expedite your claim.
- Documentation to support the Warranty Claim.
- A listing of parts used in the repair (please note that parts not purchased from Paladin are not covered by this Warranty).
- Date of repair and name of Paladin Technical Support personnel who authorized the repair.

Any Warranty Claims approved by Paladin may be reversed by Paladin at any time in the event Paladin discovers that any terms or conditions of this Warranty were not properly applied.

MATERIAL AND LABOR REIMBURSEMENT

To be eligible for reimbursement for any products, parts or labor under this Warranty, dealers shall adhere to all of the following terms and conditions.

MATERIAL REIMBURSEMENT

Service parts will only be reimbursed at dealer net cost. A copy of the parts invoice must accompany the Warranty Claim if parts are purchased for repairs. Reimbursement for parts used in warranty repair will be made only when the parts are purchased from Paladin. Parts must be repaired by authorized dealers with a Warranty Authorization Number to be eligible for reimbursement under this Warranty. Warranty Claims submitted without a Warranty Authorization Number or repaired by anyone other than an authorized dealer will be denied.

Replacement parts for Covered Products must be ordered by the customer through a customer-issued purchase order. Such replacement parts will be sent to the dealer under a "no charge" invoice. Covered Products that are whole attachments or other serial numbered items must be ordered by the dealer and will be sent and invoiced to the dealer and reimbursed subject to the terms and conditions of this Warranty.

New, re manufactured or Paladin-approved replacement parts may be used, at Paladin's option, to repair a Covered Product. Reimbursement under this Warranty will not be allowed for assemblies or groups if it is practical to make the repair with individual parts. In some cases, the assembly or group price may be less than the total of the parts and labor required to complete the repair. In those cases, an assembly or group may be used if prior approval is granted by Paladin's Technical Service Department.

LABOR REIMBURSEMENT

All labor for performing repairs must be completed within the later of 30 days of the date of the Warranty Event. Any extension of this 30-day requirement must be authorized in writing by Paladin's Technical Service Department.

The Repair Time Allowance Table located at the back of the operator's manual for the Covered Product must be used for all repairs. Labor will be reimbursed at a rate up to, but not to exceed, the following:

Brand	Maximum Labor Rate
Bradco, FFC, Harley, Kodiak, McMillen, Strike Force, Sweepster	\$65.00 per Hour
CP, CWS, JRB, Jewell	Not to exceed 70% of the dealer's posted labor rate.

In the event that more than one warranty defect is being submitted on the same Warranty Claim, each defect must be documented to aid in receiving the proper reimbursement. For repairs not identified in the Repair Time Allowance Table, the time submitted will be adjusted based on Paladin's relevant experience and records. Only authorized dealers are eligible to receive labor reimbursement under this Warranty. If one repair leads into another, no extra time is permitted.

The dealer shall not exceed the repair times set forth in the Repair Time Allowance Table found in the operator's manual for the Covered Product. In the event the repair is not identified in the Repair Time Allowance Table, prior written approval from Paladin's Technical Service Department must be obtained before performing any repairs on the Covered Product.

The most economical repair must be performed unless otherwise directed in writing by Paladin's Technical Service Department. The cost to repair a Covered Product shall not exceed the cost of the Covered Product.

WARRANTY PROCEDURES

FREIGHT REIMBURSEMENT

Freight charges for regular ground shipment will be reimbursed by Paladin at surface delivery rates on approved Warranty Claims. Any other freight charges, including freight charges for next day or other special freight service, will not be reimbursed by Paladin and are not covered by this Warranty. Freight charges for parts ordered in connection with an approved Warranty Claim and shipped with other dealer parts, whether stock or otherwise, will not be reimbursed by Paladin.

RETURN MATERIAL AUTHORIZATION

If Paladin's Technical Service Representative requests the return of Covered Products, a Return Material Authorization ("RMA") will be issued to the dealer. Note: A Return Material Authorization is not a Warranty Claim or a Warranty Authorization Number. No Warranty Claim is approved and no reimbursement is authorized as a result of the issuance or delivery of a Return Material Authorization. When returning the Covered Product, the number for the RMA ("RMA#") must be visible on the outside of the shipping container and on the Covered Product. If the RMA# is not visible on the outside of the shipping container, it may be refused at Paladin's receiving door and returned at sender's expense. All Return Material Authorizations will be returned pre-paid by the sender unless pre-approved shipping information is supplied by Paladin. All Covered Products shipped to Paladin at Paladin's request will be tagged and held for 60 days after the Warranty Claim is submitted—and after 60 days such Covered Products may be scrapped by Paladin unless prior to the end of such 60-day period the dealer requests that a Covered Product be returned to the dealer, in which case the Covered Product will be shipped back to the dealer freight collect. Failure to return a Covered Product within 30 days from the date of issuance of a Return Material Authorization will result in a denied Warranty Claim and a voided Return Material Authorization. Any attempt to return any Covered Product that is associated with a voided RMA will be refused at by Paladin's receiving door and returned to the dealer at the dealer's risk of loss and expense. Paladin is not responsible for Covered Products returned without a Return Material Authorization or the RMA#. Covered Products sent to Paladin without a Return Material Authorization or RMS# may result in the loss of Covered Products. Parts that are supplied to Paladin by other suppliers ("Third-Party Parts") and shipped to Paladin at Paladin's request with an RMA# will be shipped by Paladin to the third-party supplier for such other supplier's evaluation. Under such circumstances, Paladin's decision to approve or deny the Warranty Claim relating to such Third-Party Parts will be based the decision by such third-party supplier. Disassembly of hydraulic motors, planetaries or gearboxes will automatically void this Warranty.

CREDITS AND CREDIT MEMOS

Any reimbursement approved under this Warranty is made solely by the issuance of a credit or credit memo to the dealer associated with a Warranty Claim that has been approved by Paladin's Technical Service Department. Credit memos are processed by Paladin's accounting department. Credit memos are normally be processed within 7 working days after a Warranty Claim has been approved. A credit memo will not be processed unless and until a Warranty Claim has been approved. Credits and credit memos will be issued to the submitting dealer only and will be issued as a credit to the dealership's account.

Any credit or credit memo issued by Paladin may be reversed by Paladin at any time in the event Paladin discovers that any terms or conditions of this Warranty were not properly applied.

**** ANY CREDIT OR CREDIT MEMOS EXPIRE WITHIN 180 DAYS OF ISSUANCE. AFTER SUCH 180-DAY PERIOD, ALL CREDITS AND CREDIT MEMOS WILL BE FORFEITED.****

DENIED CLAIMS

Paladin will notify the dealer of a denial of a Warranty Claim in writing stating the reason(s) for the denial. To appeal a denied Warranty Claim, the dealer must submit a written appeal to Paladin's Technical Service Department within 30 days of the date set forth in the notification of denial submitted by Paladin. If the dealer has not submitted such written appeal within that 30-day period, the Warranty Claim will be considered closed. There is a limit of one appeal for each denied Warranty Claim.

EXCLUSION OF OTHER WARRANTIES

This Warranty is exclusive and in lieu of any other warranty, whether written or oral, express or implied, including without limitation any implied warranty of merchantability or fitness for any particular purpose. Except for any written modifications or additional warranties signed by the Paladin Operations Manager and/or Paladin's FP&A Manager, no agents, distributors, dealers or employees of Paladin are authorized to make any modification to this Warranty or to make additional warranties that are binding on Paladin. Accordingly, statements by such persons, whether oral or written, do not constitute warranties of Paladin and must not be relied upon.

CERTAIN SPECIFIC ITEMS THAT ARE NOT COVERED BY THIS WARRANTY

Only the material reimbursements and labor reimbursements specified in this Warranty are covered by this Warranty. No other items, reimbursements, costs or expenses are covered by this Warranty including, without limitation, the following:

1. Travel time, mileage, meals, and lodging, overtime premiums, labor time for phone, fax, or other consultation between dealers, sales, or service management personnel, operators, owners etc.
2. The replacement cost of hydraulic oil, fuel, lubricants, coolants, filter elements, breathers, belts, lamps, batteries, seals, diaphragms, electrical components, couplers, and other items normally replaced as part of periodic service are not considered as warrantable items and, as such, those items shall be the responsibility of the user.
3. Attachments to major components not found to be defective, such as sensors, sending units, fitting, etc., should be reused to affect repairs, thus reducing warranty costs.
4. Reimbursement for rental units while repairing our units.
5. Normal installation procedures including mounting our units, tightening bolts, fittings, hoses, and maintaining oil levels.
6. Dealer rework that is the result of faulty repair or installation, slight machine variations or minor fit up for items that are correctly manufactured but not factory installed.
7. Damage or malfunctions resulting from natural calamity, theft, accident, vandalism, abuse due to misapplication, improper site conditions, incorrect maintenance, negligence, unauthorized modifications and/or alterations.
8. Normal maintenance items such as: adjustments, oil changes, lubrications, and tightening of bolts, clamps, hoses and fittings, tune-up, or inspections.
9. Parts that engage or contact the working material (normal wearing parts such as sprockets, digging chain, bearings, teeth, tamping and demolition heads, blade cutting edges, pilot bits, auger heads and broom brushes, cutting accessories, breaker tool bits and tamping pads).
10. Tool bits will not be considered for any warranty after two months of operation from the date of delivery.
11. Tool bit failure related to prying, overheating, and misuse.
12. Hydraulic pressure & flow, heat, type of fluid any failure or performance deficiency attributable to excess hydraulic pressure, excess hydraulic backpressure, excess hydraulic flow, excessive heat or incorrect hydraulic fluid.
13. The use of biodegradable oils or lubricants is not sanctioned and any failures when using these in mounted breaker operation.
14. Tools used in underwater applications (unless otherwise explicitly permitted in the quotation or order acknowledgment provided by Paladin for a Jewell Covered Product).
15. Hydraulic system contamination that causes, directly or indirectly, a failure of a Covered Product.
16. Exposure to natural or chemical elements, parts made of cloth, steel, synthetics, rubber, paint, chrome, polypropylene which affected by exposure to elements or chemical influence such as salt or industrial fallout.
17. Switching mounts from on prime mover to another.
18. If there are any attempts to disassemble or tamper with, or make field repairs to hydraulic motors, planetary drives, hydraulic cylinders, rotary manifolds or gearboxes.
19. Exceeding the maximum pressure setting from the factory. Alterations or modifications made without expressed written consent of Paladin.
20. Use of non-Paladin parts; parts made up or purchased by sources other than through Paladin. Engines, batteries, tires or other trade accessories, since these items are warranted separately by their respective manufacturer.
21. Any Warranty Claims that involve non-Paladin parts (which must be submitted through the original parts manufacturer—and information regarding installation of non-JRB manufactured parts will be supplied with machine paperwork for each installation).
22. Any consequential expenses, such as loss of revenue, for any reason including machine downtime etc.
23. Any failure related to the installation and/or use of an attachment not designed and/or specifically recommended by Paladin in writing.
24. Any towing or hauling charges or damages resulting in transporting a Covered Product.
25. Any damage or deterioration resulting from improper storage.
26. Any cost incurred for cannibalization or any other costs incurred as a result of extraordinary parts procurement.
27. Any equipment replacement cost due to machine downtime.
28. Any repairs to or any modifications of the prime mover while attached to a Covered Product.

DEALER RESPONSIBILITIES

In addition to the other responsibilities or terms and conditions set forth in this Warranty and in any other agreement between a dealer and Paladin, dealers shall be responsible for the following:

1. Supplying qualified service for all units sold through your distribution.
2. Using best trained and experienced service personnel to do all work.
3. Using adequate tools to perform the required work in a minimum amount of time.
4. Providing adequate parts inventory to support machine population in the dealer's territory.
5. Educating all personnel in all aspects of the product lines.
6. Using only Paladin manufactured/supplied parts for all repairs.
7. In the interest of safety, replacing safety decals that are damaged as a direct result of a failure or as a direct result of repairing a failure, provided the failure in each case is covered by this Warranty.
8. Performing all required inspections, including inspecting all Covered Products received by the dealer, and providing warranty and service repairs for units sold through the dealer and reporting all failures to Paladin.
9. Mounting units on customer's designated prime mover, performing any modifications needed to attach mounting kits and hydraulic kits.
10. Adjusting rollback and dump stops so that they contact the machine as prescribed by the machine OEM and ensuring the attachment clears the machine in all positions.
11. Adjusting pressure settings both on the machine and on the attachment to insure normal operation of the attachment and machine combination.
12. Pressure testing all hydraulic connections and tightening where necessary.
13. Checking and tightening all fasteners and pins locks, loose bolts, repair minor hydraulic leaks, such as loose hoses and fittings once the attachment has been tested.
14. Adhering to and following all service bulletins from manufacturers; ordering and installing replacement parts as quickly as possible.
15. Following all policies and procedures set forth in the operator's manual for the Covered Product, including performing preventative maintenance and upkeep of the Covered Product.
16. Explaining to the owner the "Owner Responsibilities" set forth in this Warranty.
17. Processing Warranty Claims for owners in accordance with the terms and conditions of this Warranty.
18. Supplying a machine oil sample to Paladin when requested by Paladin.
19. When installing Paladin mounted equipment, performing a flow test and keeping this the test results on file; and if this test is not performed and the results not kept, a Warranty Claim will be denied until a Paladin Technical Service Representative (at the cost of the dealer or end user) performs this test and approves the condition of the Covered Product.
20. Properly packaging and sealing all valves to prevent contaminants from entering the valve during shipment of the Covered Product. Improperly packaged or unsealed valves will result in a denial of coverage under this Warranty

OWNER RESPONSIBILITIES

In addition to the other responsibilities or terms and conditions set forth in this Warranty and in any other agreement between or among the dealer, Paladin and/or the owner of the Covered Product, owners shall be responsible for the following:

1. Following or performing the required or recommended preventive maintenance and following the safety procedures and guidelines with respect to the use and maintenance of the Covered Product as described in the operators' manual, including lubricating the machine as specified in the operator's manual.
2. Keeping all bolts torqued to specifications, and inspecting all bolts, fittings, and hoses daily.
3. Keeping all safety equipment installed and in working condition.
4. Keeping all filters clean.
5. Repairing all minor hydraulic leaks such as, loose hoses and fittings.
6. Replacing any decals that may be damaged or illegible. (Safety decals can be ordered through Paladin's Customer Service Department at no cost).
7. Using only qualified operators who have read and thoroughly understand the operator's manual.
8. Returning Covered Products to the dealer for warranty work, follow up inspections and service bulletin updates.
9. Adhering to the terms and conditions of this Warranty, including returning a Covered Product to the dealer for warranty work within 30 days from the date of any failure of the Covered Product.
10. Adhering to the service bulletin updates and requirements.
11. Reporting all accidents to Paladin (see phone numbers and addresses listed at the end of this Warranty).
12. Operating the Covered Product in accordance with the applicable design specifications.

SEVERABILITY OF PROVISIONS

If any provision or part of a provision of this Warranty shall be, or be found by any court of competent jurisdiction to be, invalid or unenforceable, such invalidity or unenforceability shall not affect the other provisions or parts of such provisions of this Warranty, all of which shall remain in full force and effect.

ADDENDUM

WARRANTY PERIOD	COVERED PRODUCTS	
	BRAND	PRODUCT
TWO YEARS	STRIKE FORCE	HYDRAULIC TOOLS (BREAKERS, PLATE COMPACTORS & WHEEL COMPACTORS)
ONE YEAR	JRB	WHEEL LOADER COUPLERS (JRB E SERIES, 416, 418, 420, 422 & ISO SERIES)
	BRADCO:	BACKHOES, TRENCHERS, DOZER BLADES, PALLET FORKS, GRAPPLE BUCKETS, 4-IN-1 BUCKETS, DIRT BUCKETS, TREE SPADES, POST DRIVERS, STUMP GRINDERS, MULCHERS, COLD PLANERS, BRUSH CUTTERS, FLAIL MOWERS, TREE SHEARS, JAWZ GRABBING TOOL, QUICK PIK MULTI-PURPOSE GRAPPLE, VIBRATORY ROLLER, VIBRATORY PLOW, ROCK SAWS, SILAGE DEFACER, MINI SKID STEER PRODUCTS
	CP	ALL PRODUCTS
	CUSTOM WORKS	ALL PRODUCTS (OTHER THAN JRB CUSTOM WORKS)
	CWS	ALL PRODUCTS
	FFC	ALL PRODUCTS
	HARLEY	ALL PRODUCTS
	KODIAK	ALL PRODUCTS
	MCMILLEN	ALL PRODUCTS
	SWEEPSTER	ALL PRODUCTS
	JEWELL	ALL PRODUCTS (EXCLUDES BASE MACHINE CONVERSION)
	JRB	ALL PRODUCTS (EXCEPT CUSTOM WORKS & HITCH LATCH KITS)
90 DAYS	JRB	CUSTOM WORKS & HITCH LATCH KITS
	BRADCO	REAR STABILIZER KITS
	JRB	HITCH LATCH KITS
	PALADIN	NEW REPLACEMENT PARTS

NOTE: JRB couplers and JRB adapters are manufactured to interface only with JRB attachments, OEM attachments and JRB female adaptors (ribs)—and the use of a JRB coupler or a JRB adapter with any other attachments (including non-standard attachments, OEM attachments or JRB female adaptors (ribs)) is not covered by, and will void, this Warranty.

JRB hydraulic kits and couplers are designed and tested to be used together. The use of a non-JRB coupler with a JRB kit or the use of a non-JRB kit with a JRB coupler is not covered by, and will void, this Warranty.

Warranty Questions or Inquiries?

Please Contact Us:

1.833.723.1843

Press 1 - Paladin Attachments

(Select Division)

Press 1 - Compact Attachments

Press 2 - Heavy Attachments

Press 1 - Customer Service / Inside Sales

Press 2 - Technical Service / Warranty

RETURN MATERIAL AUTHORIZATION (RMA) POLICY

RETURNS GOODS AUTHORIZATION:

- All returns require a Return Material Authorization (RMA) number from Stanley Infrastructure prior to return.
- Before returning any item to Stanley infrastructure, call the Technical Service Department at (833) 723-1843 or email us at Technicalservice@sbdinc.com to obtain a RMA number and instructions.
- Any shipment without authorization will be returned to the shipper at their expense.
- The RMA authorization number must be written on the carton, part or attachment and the RMA form included inside the package prior to return.
- RMA's have a time limit of 30 days from the date of invoice. Failure to request authorization within 30 days may void the RMA and the goods will be returned to the shipper upon receipt, at their expense.
- All items must be in new and sellable condition originally purchased from Stanley Infrastructure.
- A copy of the RMA (with instructions) will be emailed to the individual requesting the return.

Note: To be eligible for reimbursement of shipping charges, arrangements must be made with the Technical Service Representative at the time the RMA is issued. All returned shipments are to be sent prepaid. Any shipments sent collect will be refused and returned to the shipper at their expense or scrapped on site.

INFORMATION REQUIRED WHEN REQUESTING A RETURN MATERIAL AUTHORIZATION (RMA):

1. Part numbers to return.
2. Quantities of each part number to return.
3. Stanley Infrastructure invoice number with the original purchased price for each item.
4. Contact name, phone number and email address.
5. Stanley Infrastructure attachment serial number, if applicable.
6. Stanley Infrastructure warranty claim number if RMA is associated with a warranty claim.

RETURN AUTHORIZATION GUIDELINES:

All returns will be assessed a 25% restocking fee, with the exception of the following:

- Duplicate order if Stanley Infrastructure is at fault.
- Incorrect information in parts manual or bill of material without notification of change.
- Defective material in items prior to sale.
- Incorrect part or item shipped in error.

NON-RETURNABLE ITEMS:

1. Parts from installation kits will not be accepted as separate pieces.
2. Parts from complete tools that have been modified.
3. Seals, O-rings, Diaphragms or rubber components.
4. Non-serviceable items.
5. Parts return rusted, damaged or in poor presentable, non-sellable condition.
6. Used or modified items.
7. Obsolete parts and/or parts not on the current published parts list.
8. Special order or vendor parts not handled in Stanley Infrastructure's inventory.
9. Consumable items (Grease, Pain, Lubricants, etc.).
10. Goods damaged in shipment through the responsible carrier.
 - a. Stanley Infrastructure will not negotiate freight/insurance claims with shipping companies on behalf of the end user or the dealer/distributor.

RETURN OF NON-SERVICEABLE ITEMS:

Stanley Infrastructure will not accept return items, which are special order or non-standard items. All items returned must be in new condition in the original container or package if possible. Individuals who return non-serviceable items will be contacted and the item(s) will be returned at their expense. If the individual elects not to have the part returned or does not respond to Stanley Infrastructure's notification within five business days, the items(s) will be scrapped.

RETURN OF HAZARDOUS MATERIALS:

Consumable items such as paint, grease and oils are non-returnable. All power units and tools that are powered by gasoline, diesel and batteries must be drained and batteries to be removed and not sent with the unit when shipped.

ISSUE OF CREDIT:

Upon completion of processing return goods, credit will be issued to the Dealers account. All credits and credit memos expire within 180 days of issuance, after such 180-day period, all credits and credit memos will be forfeited. No cash payments will be made to the account holder.

CANCELLATION POLICY

Unless the Parties mutually agree in writing to alter this section and its terms, Buyer may only cancel a Standard Product order with Seller's written consent. An approved cancellation of a Standard Product order where production has started will be subject to a 10% fee (minimum \$100 charge) processed through a separate debit transaction. Further, where Seller has incurred costs and expenses that cannot reasonably be recovered through sale of the Products to another person or entity, Buyer will pay Seller for all such costs and expenses, which may include costs of related raw materials, packaging, and other items dedicated to Standard Products. Custom, Non-Standard, and Non-Current Products may not be cancelled once production has started, to include but not limited to purchase of raw materials or components associated with the order. Seller may cancel a Buyer's order without obligation or liability upon notice to Buyer.

PERFORMANCE. PARTNERSHIP. SELECTION.



STANLEY
Infrastructure

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