

#### A4 STORM Tier IVF SWEEPER FEATURES AND OPTION LISTING

SWEEPER ENGINE	PICKUP HEAD
Yanmar 4TNV98C-NYEM 68 hp @ 2500rpm	80" x 36" Sweeping Head with Rubber Blast Orifice
Fuel water separator	3/8" thick, 12" dia Pressure hose, 12" Suction Hose
3-point safety engine shutdown device	Sweeps-in-Reverse
Battery and 50 gallon fuel tank shared with chassis	Doublewide full length carbide drag shoes Warranted against wear-out, two years/2000 hours, prorated.
Centrifugal pre-cleaner, safety element, restriction indicator	
55 amp alternator	<b>DUST CONTROL SYSTEM</b>
2 year warranty on Aux Engine	Electric diaphragm water pumps with inlet restriction indicator
<b>HYDRAULIC SYSTEM</b>	60 PSI, 5.88 gpm
16 gallon vented hydraulic reservoir, w/shut-off valves	Water tank capacity 130 gallons, polyethylene
Tank mounted level and temperature indicator	25-foot long fire hydrant fill hose
Hydraulic pressure, 2500 psi	50 mesh cleanable filter, with shut off valve
Spin-on 10 micron return filter	Water spray nozzles shall be provided as follows:
Oil to air radiator type oil cooler	Four around suction head, two nozzles inside hopper
	Two at gutter broom, per option selected
<b>DUST SEPARATOR</b>	Two nozzles in suction tube, two at front axle
Centrifugal dust separator 13, 500 cu in. with 1224 sq in. area	An air purge system for flushing water lines
<b>HOPPER</b>	<b>OPERATING CONTROLS AND INSTRUMENTS</b>
Mild Steel, 4.5 CuYd, 3.4 CuYd usable Capacity	Aux engine control with display on console:
Screens - square inches, saw tooth design	Keyed ignition, electronic throttle,
Twin dumping cylinders, 53 degrees	Oil pressure gauge, water temperature gauge
Rear door hydraulically opened, closed and locked	Voltmeter, tachometer, and hour meter
Dual 15" X 32" watertight inspection doors, 1 left, 1 right	Diagnostic display gauge for Aux Engine
External weatherproof dump switches	
<b>BLOWER</b>	
Closed face turbine 10 curved blades, 30.0" dia. By 3" dia.	
500 brinell hardness abrasion resistant steel	<b>SAFETY EQUIPMENT</b>
Fully balanced within 1.5 grams on both sides	Two body props to lock hopper in raised position
Vacuum enhancer	2 rear yellow alternating LED flashing lights
<b>SWEEPER WARRANTY</b>	5-lb fire extinguisher
12 Months 1200 Hours	
DESCRIPTION	PRICE
Gutter Broom, Dual	\$ 6,940.00
Gutter Broom, Tilt Power Dual	\$ 1,445.00
Gutter Broom, GEO Dual	\$ 2,475.00
Gutter Broom, RH	\$ 4,180.00
Gutter Broom, Tilt Power RH	\$ 765.00
Gutter Broom, GEO RH	\$ 1,180.00
Gutter Broom, LH	\$ 4,180.00
Gutter Broom, Tilt Power LH	\$ 765.00
Gutter Broom, GEO LH	\$ 1,180.00
Gutter Broom, Poly Segments, each	\$ 240.00
DC Backup, Hydraulic	\$ 1,215.00
Air Filter Restriction In-Cab Auxiliary Eng.	\$ 300.00
Bar Magnet, 72" Actuator Lift	\$ 1,695.00
Manual Sweeper, Additional Copy	\$ 115.00
Low Hydraulic Level Alarm & Ind.	\$ 300.00
Mirror 12" Parabolic, Set	\$ 365.00
Shipping Pallet	\$ 2,260.00
Camera System, Dual	\$ 295.00



Camera System, Three	\$ 590.00
Water Tank Low Level Alarm & Ind.	\$ 275.00
Spray Bar, Front	\$ 730.00
Spray Bar, Hopper	\$ 565.00
High Pressure Wash System RH	\$ 5,135.00
Hopper, Shroud & Suppression	\$ 1,805.00
Hand Hose 6"	\$ 1,000.00
6"x4' Hand Hose Extension	\$ 340.00
Hopper, Dump Assist Shaker	\$ 1,310.00
Hopper Drain 4"	\$ 855.00
Hopper Deluge	\$ 595.00
Sweeper Head Deluge	\$ 375.00
Hopper, Stainless Steel ~LIFETIME WARRANTY~	\$ 6,990.00
Hopper Drain 4", Stainless Steel	\$ 880.00
Hopper, Shroud & Suppression (SS)	\$ 2,900.00
Hand Hose, 6" Stainless Steel	\$ 1,055.00
Strobe, Cab Mounted LED	\$ 465.00
Strobe, Cab Mounted W/Guard LED	\$ 630.00
Barlight, Cab Mounted LED 24"	\$ 865.00
Barlight, Cab W/Guard LED 24"	\$ 900.00
Flood Light LED (each) *	\$ 300.00
Traffic Guide Arrowboard	\$ 880.00
Paint, Special: Sweeper Unit Only *	\$ 990.00
Paint, Special: Chassis Only *	\$ 2,525.00
Isuzu NR254 17,950 '16 DS(65946)	\$ 60,160.00
Isuzu NR254 17,950 '16. S. Steer	\$ 52,255.00
Customer Chassis Mounting Fee	\$ 2,500
Air Filter Restriction Ind. In-Cab Chassis	\$ 300.00
Hour Meter, Chassis	\$ 340.00
Load Weight Alarm & Indicator	\$ 375.00
Seat, Adjustable, Rightside Only	\$ 4,960.00
Tire & Rim, Spare 17,950 GVW	\$ 955.00
Wheel Cover GMC 17,950 GVW	\$ 825.00
STANDARD- 1 Year or 1200 hours	\$ -
SILVER- 2 Years or 2400 Hours	\$ 1,025.00
GOLD- 3 Years or 3600 Hours	\$ 2,655.00
PLATINUM- 4 Years or 4800 Hours	\$ 3,705.00
DIAMOND- 5 Years or 6000 Hours	\$ 4,795.00

#### A7 TORNADO TIER IV FINAL SWEEPER FEATURES AND OPTIONS LISTING

SWEEPER ENGINE	PICKUP HEAD
John Deere 4045 Tier 4 engine	90" x 36" Sweeping Head with Rubber Blast Orifice
Fuel water seperator	3/8" thick, 14" dia Pressure hose, 14" Suction Hose
3-point safety engine shutdown device	Sweeps-in-Reverse
Battery and 50 gallon fuel tank shared with chassis	Doublewide full length carbide drag shoes Warranted against wear-out, two years/2000 hours, prorated.
90 amp alternator	
2 year warranty on Aux Engine	DUST CONTROL SYSTEM
HYDRAULIC SYSTEM	Twin electric diaphragm water pumps with inlet restriction indicator
25 gallon vented hydraulic reservoir, w/shut-off valves	60 PSI, 6.0 gpm
Tank mounted level and temperature indicator	Water tank capacity 250 gallons, polyethylene
Hydraulic pressure, 2500 psi	25-foot long fire hydrant fill hose
Spin-on 10 micron return filter	50 mesh cleanable filter, with shut off valve
9000 BTU oil to air radiator type oil cooler	Water spray nozzles shall be provided as follows:
12-volt DC hydraulic backup system	Five at pickup head, two nozzles inside hopper



<b>DUST SEPERATOR</b>	Two at gutter broom, per option selected
Centrifugal dust separator, 29000 cu in. with 1680 sq i	Two nozzles in suction tube, two at front axle
<b>HOPPER</b>	An air purge system for flushing water lines
Mild Steel, 8.4 CuYd, 7 CuYd usable Capacity	<b>OPERATING CONTROLS AND INSTRUMENTS</b>
Screens - 5615 square inches, saw tooth design	Aux engine control with full color display on console:
Twin dumping cylinders, 53 degrees	Keyed ignition, electronic throttle, leaf bleeder
Rear door hydraulically opened, closed and locked	Oil pressure gauge, water temperature gauge
Dual 20" X 32" watertight inspection doors, 1 left, 1 rig	Voltmeter, tachometer, and hour meter
External weatherproof dump switches	Diagnostic gauge for Aux Engine, overweight warning.
Shroud enclosing the auxiliary engine	Selectable sweep or lift in reverse, system standby, in-cab tilt,
<b>BLOWER</b>	variable speed brooms. All other STD sweeper function switches to
Closed face turbine 10 curved blades, 32.75" dia. by 5'	Included for standard and options selected
500 brinell hardness abrasion resistant steel	Swiveling console for left or right sweeping
Fully balanced within 1.5 grams on both sides	<b>SAFETY EQUIPMENT</b>
Vacuum enhancer, w/indicator in cab	Two body props to lock hopper in raised position
<b>SWEEPER WARRANTY</b>	Rear Amber LED Strobe With Guard
<b>12 Months 1200 Hours</b>	2 rear yellow alternating LED flashing lights
12 Months 1200 Hours	Slow moving vehicle emblem, backup alarm,
	5-lb fire extinguisher, and a warning triangle kit.
<b>DESCRIPTION</b>	<b>PRICE</b>
115HP John Deere Tier III Deduct	(\$23,690.00)
140HP John Deere Tier IVF IN Lieu of 115HP Tier IVF	\$1,445.00
Sweep Head Deluge (Must Pick Standard Head)	\$ 375.00
Gutter Broom, Dual	\$ 6,935.00
Gutter Broom, Tilt Power Dual or	\$ 0.00
Gutter Broom, GEO Dual	\$ 2,475.00
Gutter Broom, RH W/Power Tilt	\$ 4,180.00
Gutter Broom, GEO RH	\$ 1,275.00
Gutter Broom, LH W/ Power Tilt	\$ 4,180.00
Gutter Broom, GEO LH	\$ 1,280.00
Gutter Broom, Poly Segments, each	\$ 215.00
Gutter Broom, In-Cab Down Pressure	\$ 2,475.00
Standby, Full w/Throttle Ramp	\$ 0.00
Variable Speed Gutter Broom(S)	\$ 0.00
Manual, Sweeper, Additional Copy (Paper)	\$ 135.00
Automatic Lubrication System Vogel	\$ 7,000.00
Auto Lube Sys. Vogel Sweeper Only	\$ 3,700.00
10 point remote grease manifold	\$ 920.00
Remote Grease Fittings, Fan	\$ 0.00
Camera System, Single	\$ 0.00
Camera System, Dual	\$ 295.00
Camera System, Three	\$ 590.00
Water Tank, Standard 250G or	\$ 0.00
Water Tank, W/ Add. 350G*	\$ 3,620.00
Water Tank Sight Gauge side of tank	\$ 210.00
Water Tank Low Level Alarm & Ind.	\$ 300.00
Spray Bar, Front	\$ 665.00
Spray Bar, Hopper Add. 4 Nozzles	\$ 665.00



Spray Bar, Hopper Add. 7 Nozzles	\$	700.00
High Pressure Washdown Wand W/ Pump	\$	3,185.00
High Pressure Washdown W/ 50' Hose Reel	\$	4,355.00
Hopper, W/ Remote DD Screens	\$	4,045.00
Auto Drop Down Screens**	\$	1,340.00
Hopper Drain 6" (SS)	\$	690.00
Dual Hopper Drain, 6" (SS)	\$	1,390.00
Hopper Sound Suppression	\$	760.00
Hopper Dump Assist Shaker	\$	1,310.00
Hand Hose, 8" Spring Boom (Remote Engine Throttle Included)	\$	1,310.00
Hand Hose, 8" Power Boom (Remote Engine Throttle Included)	\$	2,705.00
Hand Hose, 8" Power Boom HD (Remote Engine Throttle Included)	\$	3,605.00
Pendant Control for Power Boom	\$	300.00
Hand Hose Extension 4 Feet Long	\$	340.00
Hand Hose Water Nozzle	\$	270.00
Hopper Deluge, Conical Spray	\$	885.00
Hopper Deluge, 4 Nozzle, Conical Spray	\$	2,260.00
Load Weight Alarm & Indicator	\$	0.00
Hopper Up Alarm & Indicator	\$	0.00
Hopper Aux. Engine Screen Cover	\$	0.00
Hopper Door Open Indicator	\$	0.00
Hopper Dump Switches Exterior Right Side	\$	465.00
Hopper, High Strength Stainless Steel ~LIFETIME WARRANTY~	\$	6,195.00
Hopper, 304 Stainless Steel ~LIFETIME WARRANTY~	\$	18,630.00
Hopper W/ Remote DD Screens (304 SS) ~LIFETIME WARRANTY~	\$	20,500.00
Block Heater, Aux Engine	\$	335.00
Hydraulic Filter Restriction Alarm & Ind	\$	300.00
Low Hydraulic Level Indicator In-Cab	\$	0.00
Engine Remote Throttle (Not on Hand Hose)	\$	335.00
Air Filter Restriction Alarm & Indicator	\$	300.00
Strobe, Rear W/Guard LED (Std) 1 ea or	\$	0.00
Strobe, Rear LED 1 each or	\$	0.00
Strobe, Dual Rear LED	\$	465.00
Strobe, Dual Rear W/Guard LED	\$	665.00
Arrowboard, Traffic Guide	\$	790.00
Arrowboard, Traffic Guide, LED	\$	1,080.00
Barlight, Rear LED	\$	855.00
Barlight, Rear W/Guard LED	\$	730.00
Floodlight, LED	\$	300.00
Strobe, Cab Cabover LED	\$	465.00
Strobe, Cab Conventional LED	\$	465.00
Strobe, Cab W/Guard Cabover LED	\$	630.00
Strobe, Cab W/Guard Conventional LED	\$	630.00
Barlight, Cab Conventional LED	\$	730.00
Barlight, Cab W/Guard, Conventional, LED	\$	855.00
Barlight, Cab Cabover LED	\$	730.00
Barlight, Cab W/Guard, Cabover LED	\$	560.00
Paint, Special: Sweeper Unit Only	\$	1,025.00

Paint, Special: Chassis Only	\$	3,235.00
FL M2 33K 200HP DS 2500 '16	\$	79,360
FL M2 CNG 33K 200HP DS 2500 '17	\$	135,940.00
Autocar Expert 33K 2500 CNG '17	\$	139,385.00
IH 4300 200HP Cummins Dual Steer '16	\$	79,655
Kenworth K370 33K 220HP RH Steer '16	\$	86,695
Kenworth K370 33K 220HP Dual Steer '16	\$	98,890
Customer Chassis Mounting Fee	\$	2,500
Mirror, 12" Parabolic, Set	\$	375.00
Air Filter Restrict Ind Chassis	\$	300.00
Tire & Rim, Spare M2	\$	1,430.00
Block Heater	\$	350.00
Horn, Air M2	\$	165.00
Rim, Spare M2	\$	430.00
Magnet, Bar, 90" FL M2	\$	2,010.00
Magnet, Bar, 87" Self Dumping, FL M2	\$	4,690.00
Air Dryer, Bendix AD9*	\$	1,280.00
Mirror, 12" Parabolic, Set	\$	375.00
Air Filter Restrict Ind Chassis	\$	300.00
Tire & Rim, Spare IH	\$	1,430.00
Block Heater, IH 4300	\$	350.00
Tow Hooks, IH	\$	270.00
Horn, Air IH	\$	785.00
Rim, Spare IH	\$	230.00
Magnet, Bar, 90" IH	\$	2,010.00
Magnet, Bar, 87" Self Dumping, IH	\$	4,690.00
Mirror, 12" Parabolic, Set	\$	375.00
Magnet, Bar, 90"	\$	2,010.00
Air Filter Restrict Ind Chassis	\$	190.00
Tire & Rim, Spare	\$	1,430.00
Horn, Air	\$	785.00
Gauge, Transmission Temp	\$	215.00
Sweeper Body CNG Conversion		(\$9,875.00)
High Speed Runway Sweeper Body Upcharge	\$	15,600.00
STANDARD- 1 Year or 1200 hours	\$	-
SILVER- 2 Years or 2400 Hours	\$	1,850.00
GOLD- 3 Years or 3600 Hours	\$	4,590.00
PLATINUM- 4 Years or 4800 Hours	\$	6,650.00
DIAMOND- 5 Years or 6000 Hours	\$	8,450.00
A8 TWISTER Tier IV Final SWEEPER FEATURES AND OPTION LISTING		
SWEEPER ENGINE	PICKUP HEAD	
John Deere 4045 Tier 4 engine	90" x 36" Sweeping Head with Rubber Blast Orifice	
Fuel water separator	3/8" thick, 14" dia Pressure hose, 14" Suction Hose	
3-point safety engine shutdown device	Sweeps-in-Reverse	
Battery and 50 gallon fuel tank shared with chassis	Doublewide full length carbide drag shoes Warranted against wear-out, two years/2000 hours, prorated.	
90 amp alternator		
2 year warranty on Aux Engine	DUST CONTROL SYSTEM	



<b>HYDRAULIC SYSTEM</b>	Twin electric diaphragm water pumps with inlet restriction indicator
25 gallon vented hydraulic reservoir, w/shut-off valves	60 PSI, 6 gpm Each pump
Tank mounted level and temperature indicator	Water tank capacity 250 gallons, polyethylene
Hydraulic pressure, 2500 psi	25-foot long fire hydrant fill hose
Spin-on 10 micron return filter	50 mesh cleanable filter, with shut off valve
9000 BTU oil to air radiator type oil cooler	Water spray nozzles shall be provided as follows:
12-volt DC hydraulic backup system	Five at pickup head, two nozzles inside hopper
<b>DUST SEPERATOR</b>	Two at gutter broom, per option selected
Centrifugal dust separator, 29000 cu in. with 1680 sq i	Two nozzles in suction tube, two at front axle
<b>HOPPER</b>	An air purge system for flushing water lines
High strength stainless steel . 6 yd volumetric 5 yd use	<b>OPERATING CONTROLS AND INSTRUMENTS</b>
Variable height dump 2' to 12' scissors lift	Aux engine control with full color display on console:
Screens - 3950 square inches, saw tooth design	Keyed ignition, electronic throttle, leaf bleeder,
Twin dumping cylinders, 53 degrees	Oil pressure gauge, water temperature gauge
Door hydraulically opened, closed and locked	Voltmeter, tachometer, and hour meter
15" X 27" inspection doors	Diagnostic gauge for Aux Engine, overweight warning.
External weatherproof dump switches	Selectable sweep or lift in reverse, system standby, in-cab tilt,
Shroud enclosing the auxiliary engine	variable speed brooms. All other STD sweeper function switches
<b>BLOWER</b>	Included for standard and options selected
Closed face turbine 10 curved blades, 32.75" dia. by 5'	Swiveling console for left or right sweeping
500 brinell hardness abrasion resistant steel	<b>SAFETY EQUIPMENT</b>
Fully balanced within 1.5 grams on both sides	Two body props to lock hopper in raised position
Vacuum enhancer, w/indicator in cab	Rear Amber LED Strobe With Guard
<b>SWEEPER WARRANTY</b>	2 rear yellow alternating LED flashing lights
12 Months 1200 Hours	Slow moving vehicle emblem, backup alarm,
	5-lb fire extinguisher, and a warning triangle kit.
<b>DESCRIPTION</b>	<b>PRICE</b>
140HP John Deere Tier IV in Lieu of 115HP	\$ 3,095.00
Sweep Head Deluge	\$ 375.00
Gutter Broom, Dual	\$ 6,935.00
Gutter Broom, Tilt Power Dual or	\$ 0.00
Gutter Broom, GEO Dual	\$ 2,475.00
Gutter Broom, RH W/Power Tilt	\$ 4,180.00
Gutter Broom, GEO RH	\$ 1,275.00
Gutter Broom, LH W/ Power Tilt	\$ 4,180.00
Gutter Broom, GEO LH	\$ 1,280.00
Gutter Broom, Poly Segments, each	\$ 215.00
Gutter Broom,In-Cab Down Pressure	\$ 2,475.00
Standby, Full w/Throttle Ramp	\$ 0.00
Variable Speed Gutter Broom(S)	\$ 0.00
Manual, Sweeper, Additional Copy (Paper)	\$ 135.00
Automatic Lubrication System Vogel	\$ 7,000.00
Auto Lube Sys.Vogel Sweeper Only	\$ 3,700.00
Remote Grease Fittings, Fan	\$ 0.00
Camera System, Single	\$ 0.00
Camera System, Dual	\$ 295.00
Camera System, Three	\$ 590.00
Water Tank, Standard 250G or	\$ 0.00



Water Tank, W/ Add. 350G (Custom Chassis Required)	\$	3,620.00
Water Tank Sight Gauge side of tank	\$	210.00
Water Tank Low Level Alarm & Ind.	\$	0.00
Spray Bar, Front	\$	665.00
Spray Bar, Hopper Add. 4 Nozzles	\$	665.00
Spray Bar, Hopper Add. 7 Nozzles	\$	700.00
High Pressure Washdown Wand W/ Pump	\$	3,185.00
High Pressure Washdown W/ 50' Hose Reel	\$	4,355.00
Hopper, Standard SS ~LIFETIME WARRANTY~	\$	0.00
Hand Hose Power Boom HD (Remote Engine Throttle Included)	\$	3,545.00
Hand Hose, 8" Power Boom (Remote Engine Throttle Included)	\$	2,675.00
Pendant Control for Power Boom	\$	290.00
Hand Hose Extension 4 Feet Long	\$	330.00
Hopper Deluge, Conical Spray	\$	855.00
Hopper Vibrator	\$	0.00
Hopper Drain 6"	\$	855.00
Block Heater, Aux Engine	\$	335.00
Hydraulic Filter Restriction Alarm & Ind	\$	300.00
Low Hydraulic Level Indicator In-Cab	\$	0.00
Engine Remote Throttle (Not on Hand Hose)	\$	335.00
Air Filter Restriction Alarm & Indicator	\$	300.00
Strobe, hopper three corner (Std)	\$	0.00
Floodlight, LED ***	\$	300.00
Barlight, Rear LED (Not compatible with arrowboard)	\$	730.00
Arrowboard, Traffic Guide (Not compatible with rear LED Barlight)	\$	1,080.00
Strobe, Front of sweeper above cab LED	\$	360.00
Twin Strobe, Front of sweeper above cab LED	\$	720.00
Strobe, Cab Cabover LED	\$	465.00
Strobe, Cab Conventional LED	\$	465.00
Strobe, Cab W/Guard Cabover LED	\$	630.00
Strobe, Cab W/Guard Conventional LED	\$	630.00
Barlight, Cab LED	\$	730.00
Barlight, Cab W/Guard LED	\$	855.00
Barlight, Cab Cabover LED	\$	730.00
Barlight, Cab W/Guard, Cabover LED	\$	855.00
Paint, Special: Sweeper Unit Only	\$	1,025.00
Paint, Special: Chassis Only	\$	3,235.00
FL M2 33K 200HP DS 2500 '16	\$	79,360
IH 4300 200HP Cummins Dual Steer '16	\$	79,655
Kenworth K370 33K 220HP RH Steer '16	\$	86,695
Kenworth K370 33K 220HP Dual Steer '16	\$	98,890
Customer Chassis Mounting Fee	\$	2,500
Mirror, 12" Parabolic, Set	\$	375.00
Air Filter Restrict Ind Chassis	\$	300.00
Tire & Rim, Spare M2	\$	1,430.00
Block Heater	\$	350.00
Horn, Air M2	\$	165.00
Rim, Spare M2	\$	430.00



Magnet, Bar, 90" FL M2	\$	2,010.00
Magnet, Bar, 87" Self Dumping, FL M2	\$	4,690.00
Air Dryer, Bendix AD9	\$	1,280.00
Mirror, 12" Parabolic, Set	\$	375.00
Air Filter Restrict Ind Chassis	\$	300.00
Tire & Rim, Spare IH	\$	1,430.00
Block Heater, IH 4300	\$	350.00
Tow Hooks, IH	\$	270.00
Horn, Air IH	\$	785.00
Rim, Spare IH	\$	230.00
Magnet, Bar, 90" IH	\$	2,010.00
Magnet, Bar, 87" Self Dumping, IH	\$	4,690.00
Mirror, 12" Parabolic, Set	\$	375.00
Magnet, Bar, 90"	\$	2,010.00
Air Filter Restrict Ind Chassis	\$	190.00
Tire & Rim, Spare	\$	1,430.00
Horn, Air	\$	785.00
Gauge, Transmission Temp	\$	215.00
<b>STANDARD- 1 Year or 1200 hours</b>	<b>\$</b>	<b>0.00</b>
<b>SILVER- 2 Years or 2400 Hours</b>	<b>\$</b>	<b>2,275.00</b>
<b>GOLD- 3 Years or 3600 Hours</b>	<b>\$</b>	<b>5,650.00</b>
<b>PLATINUM- 4 Years or 4800 Hours</b>	<b>\$</b>	<b>7,925.00</b>
<b>DIAMOND- 5 Years or 6000 Hours</b>	<b>\$</b>	<b>9,995.00</b>

#### A9 MONSOON Tier IV Final SWEEPER FEATURES AND OPTION LISTINGS

SWEEPER ENGINE	PICKUP HEAD
John Deere 4045 Tier 4 engine	90" x 36" Sweeping Head with Rubber Blast Orifice
Fuel water separator	3/8" thick, 14" dia Pressure hose, 14" Suction Hose
3-point safety engine shutdown device	Sweeps-in-Reverse
Battery and 50 gallon fuel tank shared with chassis	Doublewide full length carbide drag shoes Warranted against wear-out, two years/2000 hours, prorated.
90 amp alternator	
2 year warranty on Aux Engine	DUST CONTROL SYSTEM
HYDRAULIC SYSTEM	Twin Electric diaphragm water pumps with inlet restriction indicator
25 gallon vented hydraulic reservoir, w/shut-off valves	60 PSI, 5.88 gpm
Tank mounted level and temperature indicator	Water tank capacity 250 gallons, polyethylene
Hydraulic pressure, 2500 psi	25-foot long fire hydrant fill hose
Spin-on 10 micron return filter	50 mesh cleanable filter, with shut off valve
9000 BTU oil to air radiator type oil cooler	Water spray nozzles shall be provided as follows:
12-volt DC hydraulic backup system	Five at pickup head, two nozzles inside hopper
DUST SEPARATOR	Two at gutter broom, per option selected
Centrifugal dust separator, 29000 cu in. with 1680 sq in	Two nozzles in suction tube, two at front axle
HOPPER	An air purge system for flushing water lines
Mild Steel, 9.6 CuYd, 8 CuYd usable Capacity	OPERATING CONTROLS AND INSTRUMENTS
Screens - 5615 square inches, saw tooth design	Aux engine control with full color display on console:
Twin dumping cylinders, 53 degrees	Keyed ignition, electronic throttle, leaf bleeder
Rear door hydraulically opened, closed and locked	Oil pressure gauge, water temperature gauge
Dual 20" X 32" watertight inspection doors, 1 left, 1 right	Voltmeter, tachometer, and hour meter
External weatherproof dump switches	Diagnostic gauge for Aux Engine, overweight warning.



Shroud enclosing the auxiliary engine	Selectable sweep or lift in reverse, system standby, in-cab tilt,
<b>BLOWER</b>	variable speed brooms. All other STD sweeper function switches to
Closed face turbine 10 curved blades, 32.75" dia. by 5'	Included for standard and options selected
500 brinell hardness abrasion resistant steel	Swiveling console for left or right sweeping
Fully balanced within 1.5 grams on both sides	<b>SAFETY EQUIPMENT</b>
Vacuum enhancer, w/indicator in cab	Two body props to lock hopper in raised position
<b>SWEeper WARRANTY</b>	Rear Amber LED Strobe With Guard
12 Months 1200 Hours	2 rear yellow alternating LED flashing lights
	Slow moving vehicle emblem, backup alarm,
	5-lb fire extinguisher, and a warning triangle kit.
DESCRIPTION	PRICE
140 hp John Deere Tier III Deduct	(\$23,205.00)
Sweep Head Deluge (Must Pick Standard Head)	\$ 375.00
Gutter Broom, Dual	\$ 6,935.00
Gutter Broom, Tilt Power Dual or	\$ 0.00
Gutter Broom, GEO Dual	\$ 2,475.00
Gutter Broom, RH W/Power Tilt	\$ 4,180.00
Gutter Broom, GEO RH	\$ 1,275.00
Gutter Broom, LH W/ Power Tilt	\$ 4,180.00
Gutter Broom, GEO LH	\$ 1,280.00
Gutter Broom, Poly Segments, each	\$ 215.00
Gutter Broom, In-Cab Down Pressure	\$ 2,475.00
Standby, Full w/Throttle Ramp	\$ 0.00
Variable Speed Gutter Broom(S)	\$ 0.00
Manual, Sweeper, Additional Copy (Paper)	\$ 135.00
Automatic Lubrication System Vogel	\$ 7,000.00
Auto Lube Sys. Vogel Sweeper Only	\$ 3,700.00
10 point remote grease manifold	\$ 920.00
Remote Grease Fittings, Fan	\$ 0.00
Camera System, Single	\$ 0.00
Camera System, Dual	\$ 295.00
Camera System, Three	\$ 590.00
Water Tank, Standard 250G or	\$ 0.00
Water Tank, W/ Add. 350G*	\$ 3,620.00
Water Tank Sight Gauge side of tank	\$ 210.00
Water Tank Low Level Alarm & Ind.	\$ 300.00
Spray Bar, Front	\$ 665.00
Spray Bar, Hopper Add. 4 Nozzles	\$ 665.00
Spray Bar, Hopper Add. 7 Nozzles	\$ 700.00
High Pressure Washdown Wand W/ Pump	\$ 3,185.00
High Pressure Washdown W/ 50' Hose Reel	\$ 4,355.00
Hopper W/ Remote DD Screens	\$ 2,265.00
Auto Drop Down Screens**	\$ 1,340.00
Hopper Drain 6" (SS)	\$ 690.00
Hopper Sound Suppression	\$ 760.00
Hopper Dump Assist Shaker	\$ 1,310.00
Hand Hose, 8" Spring Boom	\$ 1,310.00
Hand Hose, 8" Power Boom	\$ 2,705.00



Hand Hose, 8" Power Boom HD	\$	3,605.00
Pendant Control for Power Boom	\$	300.00
Hand Hose Water Nozzle	\$	270.00
Hand Hose Extension 4 Feet Long	\$	340.00
Hopper Deluge, Conical Spray	\$	880.00
Hopper Deluge, 4 Nozzle, Conical Spray	\$	2,260.00
Hopper Up Alarm & Indicator	\$	0.00
Hopper Aux. Engine Screen Cover	\$	0.00
Hopper, High Strength Stainless Steel ~LIFETIME WARRANTY~	\$	8,735.00
Hopper, 304 Stainless Steel ~LIFETIME WARRANTY~	\$	19,375.00
Hopper W/ Remote DD Screens (304 SS)~LIFETIME WARRANTY~	\$	20,240.00
Block Heater, Aux Engine	\$	335.00
Hydraulic Filter Restriction Alarm&Ind	\$	300.00
Low Hydraulic Level Indicator In-Cab	\$	0.00
Engine Remote Throttle (Not on Hand Hose)	\$	335.00
Air Filter Restriction Alarm & Indicator	\$	300.00
Strobe, Rear W/Guard LED (Std) 1 ea or	\$	0.00
Strobe, Rear LED 1 each or	\$	0.00
Strobe, Dual Rear LED	\$	465.00
Strobe, Dual Rear W/Guard LED	\$	665.00
Arrowboard, Traffic Guide	\$	790.00
Arrowboard, Traffic Guide, LED	\$	1,080.00
Barlight, Rear LED	\$	855.00
Barlight, Rear W/Guard LED	\$	730.00
Floodlight, LED	\$	300.00
Strobe, Cab Cabover LED	\$	465.00
Strobe, Cab Conventional LED	\$	465.00
Strobe, Cab W/Guard Cabover LED	\$	630.00
Strobe, Cab W/Guard Conventional LED	\$	630.00
Barlight, Cab Conventional LED	\$	730.00
Barlight, Cab W/Guard, Conventional, LED	\$	855.00
Barlight, Cab Cabover LED	\$	730.00
Barlight, Cab W/Guard, Cabover LED	\$	560.00
Paint, Special: Sweeper Unit Only	\$	1,025.00
Paint, Special: Chassis Only	\$	3,235.00
FL M2 33K 200HP DS 2500 '16	\$	79,360
FL M2 CNG 33K 200HP DS 2500 '17	\$	135,940.00
Autocar Expert 33K 2500 CNG '17	\$	139,385.00
IH 4300 200HP Cummins Dual Steer '16	\$	79,655
Kenworth K370 33K 220HP RH Steer '16	\$	86,695
Kenworth K370 33K 220HP Dual Steer '16	\$	98,890
Customer Chassis Mounting Fee	\$	2,500
Mirror, 12" Parabolic, Set	\$	375.00
Air Filter Restrict Ind Chassis	\$	300.00
Tire & Rim, Spare M2	\$	1,430.00
Block Heater	\$	350.00
Horn, Air M2	\$	165.00



Rim, Spare M2	\$ 430.00
Magnet, Bar, 90" FL M2	\$ 2,010.00
Magnet, Bar, 87" Self Dumping, FL M2	\$ 4,690.00
Air Dryer, Bendix AD9	\$ 1,280.00
Mirror, 12" Parabolic, Set	\$ 375.00
Air Filter Restrict Ind Chassis	\$ 300.00
Tire & Rim, Spare IH	\$ 1,430.00
Block Heater, IH 4300	\$ 350.00
Tow Hooks, IH	\$ 270.00
Horn, Air IH	\$ 785.00
Rim, Spare IH	\$ 230.00
Magnet, Bar, 90" IH	\$ 2,010.00
Magnet, Bar, 87" Self Dumping, IH	\$ 4,690.00
Mirror, 12" Parabolic, Set	\$ 375.00
Magnet, Bar, 90"	\$ 2,010.00
Air Filter Restrict Ind Chassis	\$ 190.00
Tire & Rim, Spare	\$ 1,430.00
Horn, Air	\$ 785.00
Gauge, Transmission Temp	\$ 215.00
CNG Conversion Upcharge	\$ (9,875.00)
<b>STANDARD- 1 Year or 1200 hours</b>	\$ -
<b>SILVER- 2 Years or 2400 Hours</b>	\$ 1,875.00
<b>GOLD- 3 Years or 3600 Hours</b>	\$ 4,675.00
<b>PLATINUM- 4 Years or 4800 Hours</b>	\$ 6,550.00
<b>DIAMOND- 5 Years or 6000 Hours</b>	\$ 8,395.00

#### M6 AVALANCHE TWIN ENGINE SWEEPER FEATURES AND OPTION LISTING

HYDRAULIC SYSTEM	MAIN BROOM
Pump, Variable displacement load sense piston	Diameter, 36"; Length 58"
Hydraulic Tank, 35 gallon, w/ shut-off valve	Hydraulic Direct Drive / In Cab Adjustable Variable Speed
Tank & Cab mounted level and temperature indicator	In-Cab Adjustable Pneumatic lift w/ Positive lift Lock
Hydraulic system pressure, 3200 psi	Brush type: Solid core, Wafer or poly strip broom
5 Micro Tank Breather Filter	2" wide Tungsten Carbide Trailing Arm Dirt Shoes
10 micron cartridge return filter	Self-Aligning Bearings, Triple Sealed & Shielded
100 Mesh Suction Strainer	GUTTER BROOMS
120,000 BTU oil to air twin fan oil cooler	49" Diameter
PNEUMATIC SYSTEM	5 Segment Wire Filled Vertical Digger
Electronic Digital Readout Air Regulators	Hydraulic Direct Drive / In Cab Adjustable Variable Speed
Auxiliary Air Tank - 1,488 cu. in. capacity	Free Floating Air Suspension & Air Extention
Electro-Pneumatic valves with push to connect fittings	DUST CONTROL SYSTEM
HOPPER	Heavy Duty Electric diaphragm water pump
Construction, A36 Carbon Steel, 10 Gauge, 3/16" Floor	50 PSI, 5.88 GPM
Roof skylights plus LED illumination & viewing window	Water tank capacity 350 gallons, polyethylene
Capacity, 5.0 Cu.Yd.	25-foot long fire hydrant fill hose
Lift Capacity, 14,000 LBS	50 mesh cleanable filter, with shut off valve
Twin Cylinder Scissor Lift and Dump	Five nozzles in front of main broom



Variable Dump Height, 16" to 138"	Seven nozzle front spray bar
Side Inspection Door with Built In Ladder Access	Four nozzles per gutter broom
External weatherproof dump switches	Air purge system for flushing water lines
<b>ENGINE</b>	<b>OPERATING CONTROLS</b>
Yanmar 4TNV98C-NYEM 69 HP, Liquid Cooled	Six Sense - Six programmable sweep settings
<b>SQUEEGEE CONVEYOR</b>	Swivel base console for left or right sweeping
Heavy Duty, Constant-Radius Roller Chain	Keyed Ignition switch & Electronic Throttle
Self-Aligning Bearings, Triple Sealed & Shielded	Voltmeter, tach, oil pressure, water temp and hour meter
Hydraulic Direct Drive / In Cab Adjustable Variable Speed	Back lit sealed rocker switches with icon and text markings
Bolt In 3/16" Abrasion Resisting Floor Plate	7" TFT LCD color display, 800 x 480 pixels
<b>BELT CONVEYOR</b>	<b>SAFETY EQUIPMENT</b>
Heavy Duty Multi-Ply Belt w/ Full Width Cleats	Two body props to lock hopper in raised position
Self-Aligning Bearings, Triple Sealed & Shielded	Rear Amber LED Strobe / 4 way LED flashing lights
Hydraulic Direct Drive / In Cab Adjustable Variable Speed	Rear view camera system
<b>SWEEPER WARRANTY</b>	Slow moving vehicle emblem, backup alarm,
12 Months 1200 Hours	5-lb fire extinguisher, and a warning triangle kit.
Single Engine Sweeper Body Deduct (Must use Single Engine Chassis)	\$ (16,850.00)
Squeegee Conveyor	\$ 0.00
Belt Conveyor	\$ 0.00
Main Broom, Tube, Standard	\$ 0.00
Main Broom, Strip	\$ 515.00
Main Broom , Wafer	\$ 410.00
Main Broom, Wafer Ploy/Steel	\$ 670.00
Broom, Dual	\$ 0.00
Broom, Tilt Power Dual	\$ 1,700.00
Broom, Reversible - Per Side (Specify Side)	\$ 880.00
Auto Lube System Vogel Chassis & Sweeper	\$ 9,435.00
Auto Lube System VogelSweeper	\$ 9,120.00
Auto Lube Fill Kit, Pump and Grease	\$ 440.00
Autolube GL2 Sweeper/Chassis	\$ 11,800.00
Autolube GL2 Sweeper Only	\$ 10,395.00
Remote Grease Point, Conveyor/Main Broom	\$ 260.00
Toolbox Behind Cab (Cabover Only)**	\$ 1,075.00
Manual, Sweeper, Additional Copy	\$ 235.00
Additional Squeegee Conveyor	\$ 17,805.00
Additional Belt Conveyor	\$ 17,805.00
Camera System, Single	\$ 0.00
Camera System, Dual	\$ 295.00
Camera System, Three	\$ 590.00
Hydraulic Filter RestrictionAlarm&Ind	\$ 125.00
Hydraulic Pressure Gauge @ Valve Bank	\$ 160.00
Hydraulic Pressure Gauge @ Valve Bank W/6" Hose	\$ 190.00
High Pressure Washdown w/ Hose Reel	\$ 2,890.00
Brass Frt. Spray Bar in lieu of std	\$ 650.00
Additional 350 Gallon Water Tank* Cabover Only	\$ 3,325.00
Water Fill Strainer	\$ 280.00



<b>Hopper, Standard</b>	<b>\$ 0.00</b>
Hopper, Stainless Steel (SS) ~LIFETIME WARRANTY~	\$ 7,775.00
Hopper Full Alarm & Indicator	\$ 150.00
Hopper Load Leveler	\$ 3,325.00
Hopper Dump Assist Shaker	\$ 1,310.00
Engine Oil Heater, Deutz	\$ 145.00
Twin Glow Plug to -20 F, Deutz	\$ 475.00
Air Filter Restriction Ind. In-Cab. Deutz	\$ 145.00
Water/Fuel Separator. Deutz	\$ 195.00
<b>Strobe, Rear W/Guard LED (Std) 1 ea or</b>	<b>\$ 0.00</b>
<b>Strobe, Rear LED 1 each or</b>	<b>\$ 0.00</b>
Strobe, Dual Rear LED	\$ 385.00
Strobe, Dual Rear W/Guard LED	\$ 590.00
Floodlight, LED ***	\$ 210.00
Arrowboard, Traffic Guide, SplitLED	\$ 1,370.00
Barlight, Rear LED	\$ 715.00
Barlight, Rear W/Guard LED	\$ 775.00
Hopper Dump Light, LED	\$ 385.00
Strobe, Cab LED	\$ 220.00
Strobe, Cab W/Guard LED	\$ 315.00
Barlight, Cab LED	\$ 700.00
Barlight, Cab W/Guard LED	\$ 770.00
<b>Paint, Standard</b>	<b>\$ 0.00</b>
Paint, Special: Sweeper Unit Only	\$ 1,025.00
Paint, Special: Chassis Only	\$ 3,235.00
<b>Decal Kit</b>	<b>\$ 0.00</b>
Freightliner M2 33K DS 2500 '16 (AIR) SINGLE ENGINE CNG	Contact Factory
Freightliner M2 33K DS 2500 '16 (AIR) SINGLE ENGINE	\$ 92,750.00
Freightliner M2 33K DS 2500 '16 (AIR) TWIN ENGINE	\$ 83,250.00
Autocar Expert 33K 2500(6SpeedTran)'15 1SP (AIR) TWIN ENGINE	\$ 102,180.00
Kenworth K370 RHS 33K '16 TWIN ENGINE	\$ 92,600.00
Kenworth K370 Dual Steer 33K '16 TWIN ENGINE	\$ 104,230.00
IH 4300 200HP Cummins Dual Steer '16 TWIN ENGINE	\$86,600.00
Customer Supplied <b>Other</b> Chassis Mounting Fee	\$ 2,500
Customer Supplied <b>International</b> Chassis Mounting Fee	\$ 5,000
Customer Supplied <b>Autocar</b> Chassis Mounting Fee	\$ 4,000
Mirror, 12" Parabolic, Set	\$ 375.00
Air Filter Restrict Ind Chassis	\$ 300.00
Tire & Rim, Spare M2	\$ 1,430.00
Block Heater	\$ 350.00
Horn, Air M2	\$ 1,795.00
Rim, Spare M2	\$ 430.00
Magnet, Bar, 90" FL M2	\$ 2,010.00
Magnet, Bar, 87" Self Dumping, FL M2	\$ 4,690.00
Mirror, 12" Parabolic, Set	\$ 375.00
Seat, Suspension Hiback, Each *	\$ 1,125.00



Air Filter Restrict Ind Chassis	\$	300.00
Tire & Rim, Spare IH	\$	1,430.00
Block Heater, IH 4300	\$	350.00
Tow Hooks, IH	\$	270.00
Rim, Spare IH	\$	230.00
Magnet, Bar, 90" IH	\$	2,010.00
Magnet, Bar, 87" Self Dumping, IH	\$	4,690.00
Mirror, 12" Parabolic, Set	\$	375.00
Magnet, Bar, 90" Paccar	\$	2,010.00
Air Filter Restrict Ind Chassis	\$	190.00
Tire & Rim, Spare AutoCar	\$	1,430.00
Horn, Air Auto Car	\$	1,795.00
CNG Conversion Upcharge (SINGLE ENGINE CONFIGURATION ONLY)	\$	53,085.00
<b>STANDARD- 1 Year or 1200 hours</b>	<b>\$</b>	<b>0.00</b>
<b>SILVER- 2 Years or 2400 Hours</b>	<b>\$</b>	<b>2,345.00</b>
<b>GOLD- 3 Years or 3600 Hours</b>	<b>\$</b>	<b>5,825.00</b>
<b>PLATINUM- 4 Years or 4800 Hours</b>	<b>\$</b>	<b>8,170.00</b>
<b>DIAMOND- 5 Years or 6000 Hours</b>	<b>\$</b>	<b>10,305.00</b>