



**AUTOMIZER HELPING-HAND
 BID SPECIFICATIONS
 CAPACITY 24 CU.YD.**

YES NO OFFERED

1- Body capacity

The body has a rounded shape enhancing resistance to deformation, durability and better legal payload.

The minimum capacity of the body, excluding hopper area is:	20 cu.yd	<input type="checkbox"/>	<input type="checkbox"/>	_____
Hopper capacity is:	6.5 cu.yd	<input type="checkbox"/>	<input type="checkbox"/>	_____
The capacity of the tailgate is:	4 cu.yd	<input type="checkbox"/>	<input type="checkbox"/>	_____

2- Body dimensions

The body is rounded for better resistance

The body is tapered (walls and roof) to facilitate the unloading of the material and to increase compaction ratio.

The total taper dimension of the body sides is:	7.325 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
The inside body width at front is:	78 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
The inside body width at rear is:	85.325 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
The outside body width is:	96 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
The inside body height at front is:	89 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
The inside body height at rear is:	91.625 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
The height tapering is:	2.625 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
The outside body height above frame is:	102 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
The overall length including hopper is:	256 in	<input type="checkbox"/>	<input type="checkbox"/>	_____

3- Body floor construction

The body floor is rounded.

The body floor thickness is:	0.157 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
The body floor steel grade is:	Hardox 450	<input type="checkbox"/>	<input type="checkbox"/>	_____
The body floor yield strength is:	175,000 psi	<input type="checkbox"/>	<input type="checkbox"/>	_____
The body long sills dimensions are:	HSS tubing 5 x 2 x 1/4 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
The body long sills yield strength is:	50,000 psi	<input type="checkbox"/>	<input type="checkbox"/>	_____
The hopper sump box volume is:	45 gal	<input type="checkbox"/>	<input type="checkbox"/>	_____
The hopper sump box dimensions are:	24 X 19 X 93 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Crossmember thickness is:	0.250 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Crossmember steel grade is:	CSA G40.21 50W	<input type="checkbox"/>	<input type="checkbox"/>	_____
Crossmember dimensions are:	21 5/8 x 2 15/16 x 8 5/1 in	<input type="checkbox"/>	<input type="checkbox"/>	_____

4- Body side walls construction

The body walls are rounded and smooth, improving resistance and lightness.

They are in one piece, full length of the body to reduce welding seams.

Body windows are installed on the front wall of the body, to indicate when body is full.	<input type="checkbox"/>	<input type="checkbox"/>	_____
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A hinged door is installed to allow operator's access to the hopper on curbside.

Door on street side not accepted

Upper wall corner is rounded for better resistance to compression and stress	<input type="checkbox"/>	<input type="checkbox"/>	_____	
Lower body walls thickness is:	10 ga	<input type="checkbox"/>	<input type="checkbox"/>	_____
Lower body walls steel grade is:	ASTM A1011 GR 80	<input type="checkbox"/>	<input type="checkbox"/>	_____
Lower body walls yield strength is:	80 000 psi	<input type="checkbox"/>	<input type="checkbox"/>	_____
Upper body walls thickness is:	12 ga	<input type="checkbox"/>	<input type="checkbox"/>	_____
Upper body walls steel grade is:	ASTM A1011 GR 80	<input type="checkbox"/>	<input type="checkbox"/>	_____
Upper body walls yield strength is:	80 000 psi	<input type="checkbox"/>	<input type="checkbox"/>	_____
The hopper lower sides thickness is:	1/4 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
The hopper lower sides steel grade is:	Hardox 450	<input type="checkbox"/>	<input type="checkbox"/>	_____
The hopper sides yield strength is:	175,000 psi	<input type="checkbox"/>	<input type="checkbox"/>	_____
Dimensions of body windows (2), are:	8 x 8 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
The hopper upper left wall thickness is:	10 ga	<input type="checkbox"/>	<input type="checkbox"/>	_____
The hopper upper right wall thickness is:	10 ga	<input type="checkbox"/>	<input type="checkbox"/>	_____
The hopper walls upper part steel grade is:	ASTM A1011 CS	<input type="checkbox"/>	<input type="checkbox"/>	_____
The hopper access door thickness is:	10 ga	<input type="checkbox"/>	<input type="checkbox"/>	_____
The hopper access door steel grade is:	ASTM A1011 CS	<input type="checkbox"/>	<input type="checkbox"/>	_____
The hopper access door dimensions:	28 5/8 x 44 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Front bolster thickness is:	12 ga	<input type="checkbox"/>	<input type="checkbox"/>	_____



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		YES	NO	OFFERED
Front bolsters steel grade is:	ASTM A1011 CS	<input type="checkbox"/>	<input type="checkbox"/>	_____
Front bolsters dimensions are:	5 13/16 x 5 x 4 3/4 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Rear bolsters thickness is:	0.188 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Rear bolsters steel grade is:	ASTM A1011 CS	<input type="checkbox"/>	<input type="checkbox"/>	_____
Rear bolsters dimensions are:	7 x 9 x 8 13/16 in	<input type="checkbox"/>	<input type="checkbox"/>	_____

5- Body roof construction

Body roof is rounded and made of high yield steel for maximum resistance to stress		<input type="checkbox"/>	<input type="checkbox"/>	_____
The roof thickness is:	12 ga	<input type="checkbox"/>	<input type="checkbox"/>	_____
The roof steel is:	ASTM A1011 GR 80	<input type="checkbox"/>	<input type="checkbox"/>	_____
The roof yield strength is:	80 000 psi	<input type="checkbox"/>	<input type="checkbox"/>	_____
Rear bolsters steel grade is:	CSA G40.21 50W	<input type="checkbox"/>	<input type="checkbox"/>	_____
Rear bolsters thickness is:	3/16 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Rear bolsters dimensions are:	6 5/8 x 6 5/8 x 7 7/16 in	<input type="checkbox"/>	<input type="checkbox"/>	_____

6- Hopper dimensions and construction

The hopper floor is made of abrasion resistant steel.		<input type="checkbox"/>	<input type="checkbox"/>	_____
The hopper floor steel grade is:	Hardox 450	<input type="checkbox"/>	<input type="checkbox"/>	_____
The hopper floor thickness is:	1/4 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
The hopper floor yield strength is:	175,000 psi	<input type="checkbox"/>	<input type="checkbox"/>	_____
Hopper depth curbside is:	40 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Hopper depth streetside is:	77 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Hopper length is:	73 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Hopper width is:	72 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Follower panels thickness is:	3/16 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Follower panels steel grade is:	100QT	<input type="checkbox"/>	<input type="checkbox"/>	_____

7- Rear tailgate

The rear tailgate is operated by 2 hydraulic cylinders.		<input type="checkbox"/>	<input type="checkbox"/>	_____
The rear tailgate is equipped with automatic hydraulic locks and constant pressure system to allow leakproof joint		<input type="checkbox"/>	<input type="checkbox"/>	_____
Tailgate hydraulic line is equipped with flow restrictor to prevent sudden descent.		<input type="checkbox"/>	<input type="checkbox"/>	_____
A channel mounted rubber seal is installed on the tailgate to prevent liquid leakage.		<input type="checkbox"/>	<input type="checkbox"/>	_____
The tailgate pivots around a fixed point preventing seal damage and friction against body		<input type="checkbox"/>	<input type="checkbox"/>	_____
A cab mounted audible alarm is provided to indicate when the tailgate is unlocked.		<input type="checkbox"/>	<input type="checkbox"/>	_____
A manual tailgate control with safety protection is installed in the cab to prevent accidental activation.		<input type="checkbox"/>	<input type="checkbox"/>	_____
One tailgate safety prop is provided.		<input type="checkbox"/>	<input type="checkbox"/>	_____
Tailgate length is:	33 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Tailgate side and rear thickness is:	12 ga	<input type="checkbox"/>	<input type="checkbox"/>	_____
The tailgate side and rear steel is:	ASTM A1011 GR 80	<input type="checkbox"/>	<input type="checkbox"/>	_____
The tailgate side and rear yield strength is:	80 000 psi	<input type="checkbox"/>	<input type="checkbox"/>	_____
Tailgate cylinders rods are:	Chrome-plated	<input type="checkbox"/>	<input type="checkbox"/>	_____
Tailgate cylinders bore diameter is:	2½ in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Tailgate cylinders rod diameter is:	1¾ in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Tailgate cylinders stroke is:	39 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Tailgate cycle time at idle is:	55 sec	<input type="checkbox"/>	<input type="checkbox"/>	_____
Tailgate side framing steel is:	AR200	<input type="checkbox"/>	<input type="checkbox"/>	_____
Tailgate side framing thickness is:	0.188	<input type="checkbox"/>	<input type="checkbox"/>	_____
Tailgate side framing is:	2 x 5 x 2 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Tailgate top framing steel is:	HSS tubing	<input type="checkbox"/>	<input type="checkbox"/>	_____
Tailgate top framing is:	4 X 4 X 3/16 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Tailgate bottom framing steel is:	HSS tubing	<input type="checkbox"/>	<input type="checkbox"/>	_____
Tailgate bottom framing is:	7 X 3 X 1/4 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Tailgate hinge pins diameter is:	1 1/4 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Tailgate rubber seal height is:	30 in	<input type="checkbox"/>	<input type="checkbox"/>	_____



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8- Packer

The packer face is 16" high providing 66 750 lbs of force on material		<input type="checkbox"/>	<input type="checkbox"/>	_____
Packer is operated by 2 single stage, double acting cylinders.		<input type="checkbox"/>	<input type="checkbox"/>	_____
One complete set of packer controls located in cab is provided.		<input type="checkbox"/>	<input type="checkbox"/>	_____
Emergency red button is provided to stop packer ram movement at any time.		<input type="checkbox"/>	<input type="checkbox"/>	_____
Control buttons are industrial type,color coded and weather resistant.		<input type="checkbox"/>	<input type="checkbox"/>	_____
The packer is guided by 2 rails made of steel grade:	Hardox 500	<input type="checkbox"/>	<input type="checkbox"/>	_____
Wear plates thickness is:	1/4 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Rail dimensions are:	3½ x2 3/16 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Packer wear shoes steel grade is:	Hardox 450	<input type="checkbox"/>	<input type="checkbox"/>	_____
Packer wear shoes thickness is:	3/8	<input type="checkbox"/>	<input type="checkbox"/>	_____
Packer cylinders rods are:	Chrome-plated	<input type="checkbox"/>	<input type="checkbox"/>	_____
Cylinder bore diameter is:	4 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Cylinder rod diameter is:	2½ in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Cylinder stroke is:	40 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Maximum operation pressure:	3000 psi	<input type="checkbox"/>	<input type="checkbox"/>	_____
Average compaction of refuse is:	900 lbs/cu.yd	<input type="checkbox"/>	<input type="checkbox"/>	_____
Packing force:	66,750 lbf	<input type="checkbox"/>	<input type="checkbox"/>	_____
Cylinder force:	75,400 lbf	<input type="checkbox"/>	<input type="checkbox"/>	_____
Inside width of packing ram is:	71 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Inside heigth of packing ram is:	16 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Packing ram stroke is:	52 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Packing ram top steel grade is:	CSA G40.21 100QT	<input type="checkbox"/>	<input type="checkbox"/>	_____
Packing ram top thickness is:	1/4 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Packing ram top yield strength is:	100000 psi	<input type="checkbox"/>	<input type="checkbox"/>	_____
Packing face plate steel grade is:	CSA G40.21 100QT	<input type="checkbox"/>	<input type="checkbox"/>	_____
Packing face plate thickness is:	1/4 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Packing face plate yield strength is:	100,000 psi	<input type="checkbox"/>	<input type="checkbox"/>	_____
Packing ram swept volume is:	1.3 cu.yd	<input type="checkbox"/>	<input type="checkbox"/>	_____
Penetration of the ram into body is:	6 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Packer cycle time, engine at idle, with arm in operation shall be:	18 sec	<input type="checkbox"/>	<input type="checkbox"/>	_____
Packer length (including following panels)	55 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Red packer buttons diameter is:	2 3/4 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Others packer buttons diameter is:	1 9/16 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Packer pins diameter is:	1 ¼ in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Packer pins steel grade is:	HR 1045	<input type="checkbox"/>	<input type="checkbox"/>	_____

9- Hydraulic system

The hydraulic system is designed to allow easy maintenance		<input type="checkbox"/>	<input type="checkbox"/>	_____
Hydraulic system is composed of a double Denison vane pump, one section for the body functions and one for the arm. Pumps have a common suction port.		<input type="checkbox"/>	<input type="checkbox"/>	_____
The hydraulic pressure body line shall be equipped with a Denison relief valve R5P, a Denison vent valve VV01 with a 12 volts DC in line mounted solenoid to divert the flow back to tank when pump is not engaged, and a flow control block for system protection		<input type="checkbox"/>	<input type="checkbox"/>	_____
The hydraulic tank is pressurized for pump protection		<input type="checkbox"/>	<input type="checkbox"/>	_____
The hydraulic tank is equipped with magnetic drain plug, oil level sight gauge and shut-off ball valve on suction line.		<input type="checkbox"/>	<input type="checkbox"/>	_____
Return line filter is tank mounted style		<input type="checkbox"/>	<input type="checkbox"/>	_____
Return filter has a bypass valve and a differential pressure gauge.		<input type="checkbox"/>	<input type="checkbox"/>	_____
100 mesh suction strainer is installed in tank		<input type="checkbox"/>	<input type="checkbox"/>	_____
Hydraulic tubing is used where flexibility is not needed.		<input type="checkbox"/>	<input type="checkbox"/>	_____
All hydraulic tubes are zinc plated to prevent corrosion.		<input type="checkbox"/>	<input type="checkbox"/>	_____
All tubes are securely clamped to prevent vibration, abrasion and excessive noise		<input type="checkbox"/>	<input type="checkbox"/>	_____
All hoses are double braided minimum, high burst rated and abrasion resistant		<input type="checkbox"/>	<input type="checkbox"/>	_____
All hydraulic hoses meet SAE standards		<input type="checkbox"/>	<input type="checkbox"/>	_____
All hose bending radius respect manufacturer's requirements		<input type="checkbox"/>	<input type="checkbox"/>	_____
Hydraulic system operates at acceptable temperature without external cooler		<input type="checkbox"/>	<input type="checkbox"/>	_____
Quick disconnect fittings are provided so that a pressure gauge can be easily connected without using tools or hydraulic fittings removal.		<input type="checkbox"/>	<input type="checkbox"/>	_____



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Hydraulic pump model is:	Denison T6DC	<input type="checkbox"/>	<input type="checkbox"/>	_____
the excess flow back to tank over:	45 gpm	<input type="checkbox"/>	<input type="checkbox"/>	_____
Body functions pump maximum flow is:	20,0 gpm at 700 rpm	<input type="checkbox"/>	<input type="checkbox"/>	_____
Arm functions pump maximum flow is:	16.0 gpm at 700 rpm	<input type="checkbox"/>	<input type="checkbox"/>	_____
Hydraulic system pressure relief valve for the body is :	2000 psi	<input type="checkbox"/>	<input type="checkbox"/>	_____
Hydraulic system pressure relief valve for the arm is :	2100 psi	<input type="checkbox"/>	<input type="checkbox"/>	_____
Hydraulic tank capacity for cab over is:	85 gal	<input type="checkbox"/>	<input type="checkbox"/>	_____
Maximum quantity of oil in hydraulic tank is:	74 gal	<input type="checkbox"/>	<input type="checkbox"/>	_____
The in tank return line filter capacity is :	150 gpm	<input type="checkbox"/>	<input type="checkbox"/>	_____
Nominal filtration rating :	5 mic	<input type="checkbox"/>	<input type="checkbox"/>	_____
Beta filtration ratio per ISO 16889 is:	Beta ratio10 ≥200	<input type="checkbox"/>	<input type="checkbox"/>	_____
Suction line strainer size is:	100 mesh	<input type="checkbox"/>	<input type="checkbox"/>	_____
Suction line strainer flow capacity:	100 gpm	<input type="checkbox"/>	<input type="checkbox"/>	_____
Hydraulic tank is baffled.		<input type="checkbox"/>	<input type="checkbox"/>	_____
Hydraulic tank is pressurized at:	5 psi	<input type="checkbox"/>	<input type="checkbox"/>	_____
Return line filter cracking pressure is:	25 psi	<input type="checkbox"/>	<input type="checkbox"/>	_____
Pump drive shaft is:	HD Spicer 1310 Series	<input type="checkbox"/>	<input type="checkbox"/>	_____

10- Automated arm "Helping Hand" Standard Reach

The automated arm is hydraulically operated and activated by an electro-proportional joystick located in the cab.		_____
The arm is mounted inside the hopper and is protected by a steel enclosure		_____
The gripper fingers use rubber straps to adapt to a wide variety of containers		_____
An integrated adjustable hydraulic cushioning valve is used shocks on the extension cylinder		_____
Joystick uses contactless Hall effect technology for better reliability.		_____
Joystick has a deadman switch to prevent accidental activation of the arm		_____
The center of the gripper is offset by a maximum of 24" from the center of the lift pivot point		_____
The arm is powder coated, high visibility safety yellow		_____
Minimum bin size accepted by lifting mechanism is:	32 gal	_____
Maximum bin size accepted by lifting mechanism is:	95 gal	_____
Maximum lifting capacity at maximum reach is:	400 lbs	_____
Vertical dump height is:	91 in	_____
Maximum horizontal reach from side of vehicle is:	84 in	_____
Minimum horizontal reach from side of vehicle is:	0 in	_____
Lifting mechanism cycle time at minimum reach is:	8 sec	_____
Lifting mechanism cycle time at maximum reach is:	18 sec	_____
Unit weight, including valve is:	1425 lbs	_____
Flow to Helping Hand from the flow control is:	20 gpm @ 700 RPM	_____
Maximum operating pressure is:	2 000 PSI	_____
The length of warranty on the automated arm and its cylinders is:	1 year	_____

10- Automated arm "Helping Hand" Long Reach (Optional)

The automated arm is hydraulically operated and activated by an electro-proportional joystick located in the cab.		_____
The arm is mounted inside the hopper and is protected by a steel enclosure		_____
The gripper fingers use rubber straps to adapt to a wide variety of containers		_____
An integrated adjustable hydraulic cushioning valve is used shocks on the extension cylinder		_____
Joystick uses contactless Hall effect technology for better reliability.		_____
Joystick has a deadman switch to prevent accidental activation of the arm		_____
The center of the gripper is offset by a maximum of 24" from the center of the lift pivot point		_____
The arm is powder coated, high visibility safety yellow		_____
Minimum bin size accepted by lifting mechanism is:	32 gal	_____
Maximum bin size accepted by lifting mechanism is:	95 gal	_____
Maximum lifting capacity at maximum reach is:	400 lbs	_____
Vertical dump height is:	91 in	_____
Maximum horizontal reach from side of vehicle is:	120 in	_____
Minimum horizontal reach from side of vehicle is:	0 in	_____



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Lifting mechanism cycle time at minimum reach is:	8 sec			
Lifting mechanism cycle time at maximum reach is:	22 sec			_____
Unit weight without grab and oil but including valve is:	1990 lbs			_____
Flow to Helping Hand from the flow control is:	20 gpm @ 700 RPM			_____
Maximum operating pressure is:	2 000 PSI			_____
The length of warranty on the automated arm and its cylinders is:	1 year			_____

11- Body lifting mechanism

The body hoist cylinder is front mounted with outer cover and top ported		<input type="checkbox"/>	<input type="checkbox"/>	_____
One safety prop is supplied to support the body in the raised position.		<input type="checkbox"/>	<input type="checkbox"/>	_____
A light and audible alarm in cab are provided to indicate when body is raised and remain activated until it is not completely down.		<input type="checkbox"/>	<input type="checkbox"/>	_____
Body is raised by one single acting front mounted telescopic cylinder with:	4 sections	<input type="checkbox"/>	<input type="checkbox"/>	_____
Cylinder has a stroke of:	150 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Body cylinder bore diameter is:	6 1/2 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Body cylinder is:	Salt bath Nitrided	<input type="checkbox"/>	<input type="checkbox"/>	_____
Body dump angle is:	45 deg	<input type="checkbox"/>	<input type="checkbox"/>	_____
Body lifting cycle time is:	70 sec @ 850 RPM	<input type="checkbox"/>	<input type="checkbox"/>	_____

12- Crusher panel

Optional

An optional crusher panel is installed on the front wall of the body optimize the compaction of the material and to facilitate the transfer into the body.		<input type="checkbox"/>	<input type="checkbox"/>	_____
Hydraulic protection is supplied to prevent dumping on top of the panel		<input type="checkbox"/>	<input type="checkbox"/>	_____
Crusher panel steel grade is:	A-569	<input type="checkbox"/>	<input type="checkbox"/>	_____
Crusher panel thickness is:	3/16 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Crusher panel dimensions for standard body are:	63 X 34 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Crusher panel is operated by 1 cylinder.		<input type="checkbox"/>	<input type="checkbox"/>	_____
Crusher panel cylinder rod is:	Chrome-plated	<input type="checkbox"/>	<input type="checkbox"/>	_____
Crusher panel cylinder bore diameter is:	2 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Crusher panel cylinder rod diameter is:	1 1/2 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Crusher panel cylinder stroke is:	14 1/2 in	<input type="checkbox"/>	<input type="checkbox"/>	_____
Crusher panel cylinder pins steel is:	Cold-roll Stressproof	<input type="checkbox"/>	<input type="checkbox"/>	_____
Crusher panel cylinder pins diameter:	1 in	<input type="checkbox"/>	<input type="checkbox"/>	_____

13- Electrical/Pneumatic systems

All stop, directional, tail and clearance lights are LED type, recessed mount and water tight		<input type="checkbox"/>	<input type="checkbox"/>	_____
All lights are FMVSS #108 compliant		<input type="checkbox"/>	<input type="checkbox"/>	_____
Rear lights are integrated to tailgate structure.		<input type="checkbox"/>	<input type="checkbox"/>	_____
Back-up alarm is provided.		<input type="checkbox"/>	<input type="checkbox"/>	_____
Limit switches are heavy duty, industrial type, water tight with adjustable arm				
All circuits are protected with resettable circuit breakers and wiring is color coded and numbered.		<input type="checkbox"/>	<input type="checkbox"/>	_____
Wiring conforms to SAE J1128.		<input type="checkbox"/>	<input type="checkbox"/>	_____
Wiring connections are sealed with shrink tube		<input type="checkbox"/>	<input type="checkbox"/>	_____
All wiring run in plastic loom.		<input type="checkbox"/>	<input type="checkbox"/>	_____
Electrical/Pneumatic valves are installed in a watertight box		<input type="checkbox"/>	<input type="checkbox"/>	_____
All electric wires are run in side rub rails with bolted access panels for easy access, no wiring under body		<input type="checkbox"/>	<input type="checkbox"/>	_____

14- Controls characteristics

Tailgate switch is:	Electric	<input type="checkbox"/>	<input type="checkbox"/>	_____
Body lift switch is:	Electric	<input type="checkbox"/>	<input type="checkbox"/>	_____
Pump switch is:	Electric	<input type="checkbox"/>	<input type="checkbox"/>	_____
Packer controls are:	Electric	<input type="checkbox"/>	<input type="checkbox"/>	_____
Arm joystick is:	Electro-proportional	<input type="checkbox"/>	<input type="checkbox"/>	_____
If the body hydraulic control valve is pneumatic, electrical/pneumatic control valves				



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will transfer the signal from the cab control to the body hydraulic control valve. YES NO OFFERED

15- Console standard characteristics

All body and arm functions are controlled via a Canopen network _____
 An LCD display with integrated diagnostic functions is installed in the cab _____
 Real time operation assistance with continuous system status on screen _____
 All switches are illuminated _____

16- Accessories

Mud flaps are supplied at front and rear of rear axle. _____

17- Painting

All parts are properly cleaned of all dirt, grease and weld slag. _____
 Body, hopper and arm are shot blasted with steel beads _____
 One coat (0,002") of polyurethane primer Imron Elite is applied on body _____
 One finish coat (0,002") of polyurethane paint Imron Elite is applied on body _____
 Finish paint coat is baked. 125°F-150°F _____
 Arm is powder coated, safety yellow _____

18- Manuals

Parts, service and operator's manual are supplied for the refuse packer. _____

19- Lubrication

All body hinges, cylinder rod ends, cylinder base, trunnion and pivot points are supplied with grease fittings. _____

20- Warranty

The body manufacturer is certified ISO 9001. _____
 All internal inspection documents such as intermediate inspection booklets made at the body manufacturer are available and filed per vehicle. _____
 Length of warranty on defective parts will not be less than : 1 year _____
 Length of warranty on hydraulic cylinders and hoses will not be less than : 1 year _____
 Length of warranty on automated arm is not less than : 1 year _____



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