

hm-220 series harvesters



A popular choice with contractors and smaller lake associations, the HM-220 Series Harvesters are the most efficient available in their class. Highly maneuverable in the water, this series is perfect for shoreline maintenance and clean up around docks.

The HM-220 Harvester has a 5' 0" (1,52 m) wide horizontal cutter bar and can cut up to 5' 2" (1,60 m) deep. It can hold up to 246 cubic feet (6,96 cubic meters) of cut vegetation on board, or up to 6500 lb. (2,948 kg.) by weight.

Standard models include many quality and safety features; numerous options and upgrades are also available.



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220 HM SERIES - AQUATIC PLANT HARVESTER

SPECIFICATIONS		IMPERIAL	METRIC
DIMENSIONS	Operating Dimensions: L / W / H	38' 11" long / 13' 2" wide / 7' 11" tall	11,86 m long / 4,01 m wide / 2,41 m tall
	Shipping Dimensions: L / W / H	38' 9" long / 8' 6" wide / 8' 9" tall	11,81 m long / 2,59 m wide / 2,66 m
	Overall Weight	9300 lb	4218 kg
FLOTATION	Barge Dimensions: L / W / H	22' 0" long / 8' 6" wide / 26" tall	6,71 m long / 2,59 m wide / 66 cm tall
	Compartments	3 Airtight / watertight compartments	3 Airtight / watertight compartments
	Draft: Empty / Fully Laden	11.7" Empty / 18" Fully Laden	30 cm Empty / 46 cm Fully Laden
POWER SOURCE	Standard Engine	Diesel	Diesel
	Engine Rating	Minimum 31 HP	Minimum 23,1 kW
	Engine Protection	Low oil & high temperature shutdown	Low oil & high temperature shutdown
	Fuel Tank	18 gallon fix mounted tank	68 liter fix mounted tank
HYDRAULICS	Hydraulic System	Variable volume pressure compensated	Variable volume pressure compensated
	Hydraulic Oil	Clarion 46 - environmentally safe, marine grade	Clarion 46 - environmentally safe, marine grade
	Hydraulic Reservoir Capacity	30 gallons w/ temperature & level gauge	114 liters w/ temperature & level gauge
	Hydraulic System Protection	Relief valves, low oil & clogged filter sensors	Relief valves, low oil & clogged filter sensors
CONTROL BRIDGE	Location	Over storage hold container	Over storage hold container
	Instrumentation & Controls	Valve control levers & foot pedals, gauges, warning lights & alarms	Valve control levers & foot pedals, gauges, warning lights & alarms
	Operator Amenities	Padded vinyl seat, bimini sun/rain canopy	Padded vinyl seat, bimini sun/rain canopy
	Operator Protection	All hydraulic lines/valves enclosed & shielded	All hydraulic lines/valves enclosed & shielded
HARVESTING HEAD	Harvesting Head: Width / Depth	5' wide / 0 to 5' 2" deep	1,52 meters wide / 0 to 1,60 meters deep
	Cutter Knives	Reciprocating 3" stroke, chrome plated	Reciprocating 76 mm stroke, chrome plated
	Impact Protection, Dual	Pre-compressed shocks & pivoting spring suspension	Pre-compressed shocks & pivoting spring suspension
	Conveyor Belting	1" x 1" standard duty galvanized mesh	25 mm x 25 mm standard duty galvanized mesh
STORAGE CONTAINER	Dimensions: Length / Width	28' 0" long / 4' 1" wide	8,53 meters long / 1,24 meters wide
	Capacity: Volume / Weight	246 cubic feet / 6500 lb	6.96 cubic meters / 2948 kg
	Conveyor Belting	1" x 1" standard duty galvanized mesh	25 mm x 25 mm standard duty galvanized mesh
	Discharge Height, from water surface	Up to 5'	Up to 1,52 meters
	Discharge Distance, from barge stern	6' 7"	2,00 meters
PROPULSION	Propulsion System, Size & Location	Twin paddle wheels, 68" x 24", amidships	Twin paddle wheels, 173 x 61 cm, amidships
	Operation & RPM Speed	Independent, forward & reverse, 0 to 50 RPM	Independent, forward & reverse, 0 to 50 RPM
FABRICATION	Hull Material	Carbon steel	Carbon steel
	Frame Material	Carbon steel	Carbon steel
	Fasteners	Stainless steel 18/8 throughout	Stainless steel 18/8 throughout
FINISH	Preparation	Abrasive sandblast, epoxy primer	Abrasive sandblast, epoxy primer
	Paint Type, above the waterline	High quality polyurethane	High quality polyurethane
	Paint Type, below the waterline	High quality marine epoxy	High quality marine epoxy
	Color, Manufacturer's Standard	Light blue	Light blue

The policy of our company is one of continual improvement and we reserve the right to change specifications without notice.

TRAILER CONVEYORS

SPECIFICATIONS	IMPERIAL			METRIC		
	TRC-12	TRC-23	TRC-34	TRC-12	TRC-23	TRC-34
DIMENSIONS	Length – Shipping / Operating	33' 9" / 34' 2"	35' 9" / 36' 3"	37' 11" / 38' 5"	10,29 m / 10,42 m	11,55 m / 11,71 m
	Width – Shipping / Operating	8' 0" / 8' 0"	8' 0" / 8' 0"	8' 0" / 9' 4"	2,44 m / 2,44 m	2,44 m / 2,84 m
	Height, Shipping – to Trailer Deck	2' 7"	2' 11"	2' 11"	0,79 meters	0,89 meters
	Height, Overall – in Operating Mode	6' 4"	6' 4"	6' 7"	1,93 meters	2,01 meters
	Weight	3750 lb	4100 lb	7575 lb	1701 kg	3436 kg
LOAD CONTAINER	Conveyor Bed Length	18' 0"	20' 0"	25' 0"	5,49 meters	7,62 meters
	Conveyor Bed Width	5' 2"	5' 2"	6' 2"	1,58 meters	1,88 meters
	Conveyor Belting	1" x 1" galvanized mesh		1" x 1" heavy duty galvanized mesh	25 mm x 25 mm galvanized mesh	25 mm x 25 mm heavy duty galvanized mesh
POWER SOURCE	Conveyor Drive Motors	2	2	4	2	4
	Engine	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
	Engine Rating	Minimum 8 HP	Minimum 8 HP	Minimum 20 HP	Minimum 6,0 kW	Minimum 14,9 kW
	Electrical System	12 volt, lockable battery box			12 volt, lockable battery box	
HYDRAULICS	Hydraulic System	Gear pump			Gear pump	
	Hydraulic Oil	Clarion 46 - environmentally safe, marine grade			Clarion 46 - environmentally safe, marine grade	
	Hydraulic Reservoir Capacity	15 gallons with lockable filler cap			57 liters with lockable filler cap	
VEHICLE CAPACITY	Axles, with Wheel Fenders	2	3	3	2	3
	Gross Axle Weight Rating (GAWR)	7000 lb	7000 lb	8000 lb	3175 kg	3628 kg
	Gross Vehicle Weight Rating (GVWR)	14,000 lb	21,000 lb	24,000 lb	6350 kg	9255 kg
	Suspension System	Leaf spring axles			Leaf spring axles	
	Integrated Lighting	Electric brake lights & turn signals with 6 prong adapter			Electric brake lights & turn signals with 6 prong adapter	
DETAILS	Brakes	Electric with brake-away safety kit			Electric with brake-away safety kit	
	Winch	Electric with fairlead			Electric with fairlead	
	Winch Capacity	9000 lb	9000 lb	12,000 lb	4082 kg	5443 kg
	Hitch, with Safety Chains	2" pintle ring	2" pintle ring	2" pintle ring	5 cm pintle ring	5 cm pintle ring
	Jack Stand Capacity	5000 lb	5000 lb	Two x 5000 lb each	2268 kg	Two x 2268 kg each
FABRICATION	Vehicle Identification	Stamped ID plate with VIN number, lighted license plate holder			Stamped ID plate with VIN number, lighted license plate holder	
	Fenders	Removable wheel fenders			Removable wheel fenders	
	Material	Heavy duty tubular steel construction			Heavy duty tubular steel construction	
FINISH	Fasteners	Stainless steel 18/8			Stainless steel 18/8	
	Preparation	Abrasive sandblast, epoxy primer			Abrasive sandblast, epoxy primer	
	Paint Type	High quality urethane			High quality urethane	
	Color, Manufacturer's Standard	Black	Black	Black	Black	Black
COMPATIBILITY	Harvesters	EH-220, HM-220	320, 420	620, 820, 1020	EH-220, HM-220	320, 420
	Mini Skimmer – Harvesters	EH-120, FB-12, FB-150	n/a	n/a	EH-120, FB-12, FB-150	n/a
	Trash Hunters	TH-12	TH-23	TH-34	TH-12	TH-23
	Transport Barges	n/a	T-12	T-34	n/a	T-12

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Harvester DNR Grant Comparisons

	<u>Full Price</u>	<u>Adjusted Price #1</u>	<u>Adjusted Price #2</u>
Aquarius Harvester Base Price	\$ 107,720.00	\$ 107,720.00	\$ 107,720.00
UHMW #1 Conveyor	\$ 1,270.00	\$ 1,270.00	\$ 1,270.00
UHMW #2 & #3 Conveyors	\$ 2,450.00	\$ 2,450.00	\$ 2,450.00
Stainless Steel Belting	\$ 2,280.00	\$ -	\$ -
Hydraulic Paddle Lift	\$ 4,200.00	\$ -	\$ 4,200.00
6' Wide Cut #1 Conveyor	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00
Stainless Steel Hull	\$ 7,500.00	\$ -	\$ -
Jib Crane	\$ -	\$ 1,475.00	\$ -
Adjusted Harvester Price	\$ 126,420.00	\$ 113,915.00	\$ 116,640.00
Trailer/Conveyor Base Price	\$ 31,641.00	\$ 31,641.00	\$ 31,641.00
Remote Control	\$ 1,800.00	\$ -	\$ 1,800.00
Stainless Steel Belting	\$ 1,450.00	\$ -	\$ -
Adjusted Trailer/Conveyor	\$ 34,891.00	\$ 31,641.00	\$ 33,441.00
Total Adjusted Price	\$ 158,061.00	\$ 145,556.00	\$ 150,081.00
Less Sale of Used Harvester	\$ (20,000.00)	\$ (20,000.00)	\$ (20,000.00)
Less Harvester Fund (3 x \$4900)	\$ (14,700.00)	\$ (14,700.00)	\$ (14,700.00)
Less 2012 Contracted Services	\$ (4,690.00)	\$ (4,690.00)	\$ (4,690.00)
Less 2013 Contracted Services	\$ (7,040.00)	\$ (7,040.00)	\$ (7,040.00)
	\$ (46,430.00)	\$ (46,430.00)	\$ (46,430.00)
Less District Contribution	\$ 111,631.00	\$ 99,126.00	\$ 103,651.00
DNR Grant @ 40%	\$ 63,224.40	\$ 58,222.40	\$ 60,032.40
WRFLMD @ 60%	\$ 48,406.60	\$ 40,903.60	\$ 43,618.60
DNR Grant @ 45%	\$ 71,127.45	\$ 65,500.20	\$ 67,536.45
WRFLMD @ 55%	\$ 40,503.55	\$ 33,625.80	\$ 36,114.55
DNR Grant @ 50%	\$ 79,030.50	\$ 72,778.00	\$ 75,040.50
WRFLMD @ 50%	\$ 32,600.50	\$ 26,348.00	\$ 28,610.50