

ULTRATREX AQUATIC WEED HARVESTER WH120

*UTX, YOUR TRUSTED PARTNER IN
SHALLOW DREDGING EQUIPMENT*

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INTRODUCTION

Ultratrex Machinery Sdn. Bhd. under branding 'UTX' is a leading producer of high quality aquatic weed harvester. We are specialized in designing high quality aquatic weed harvester. UTX has been perpetual in the aquatic weed harvester business due to the organisation's reliability and capacity to supply high quality and reasonably priced products. We can guarantee that high workmanship being maintained while producing the aquatic weed harvester. We always believe that our clients are our valuable asset so we always ensure that UTX complied with the company's quality system and customers' requirements.

APPLICATION

Ultratrex Aquatic Weed Harvester is a type of hydraulic system weed harvester. Ultratrex aquatic weed harvester is designed for job involving cleaning and clearing aquatic plant and also solid waste example plastic and etc. that floating above lake surface.

FEATURES

POWERED BY PERKINS TECHNOLOGY ENGINE UP TO 1800 RPM



Specification		
Number of cylinders	4 vertical in-line	
Bore and stroke	105 x 127 mm	4.1 x 5 in
Displacement	4.4 litres	268.5 in ³
Aspiration	Turbocharged	
Cycle	4 stroke	
Combustion system	Direct injection	
Compression ratio	17.25:1	
Rotation	Anti-clockwise, viewed from flywheel	
Total lubricating capacity	8.0 litres	2.1 US gal
Cooling system	Water-cooled	
Total coolant capacity	13.0 litres	3.4 US gal

HIGH QUALITY CONVEYOR CHAIN

Ultratrex select the latest engineering design in flatter pickets with better nesting between the picket and the rod. This reduces belt elongation, improves tracking, and contributes to longer belt life.

Fully clinched edges provide a superior edge finish that prevents the belt from necking down or hanging up on the side conveyer.

FLAT WIRE PICKETS

ULTRATREX PICKETS

FLAT WIRE CLINCH

ULTRATREX CLINCH

SIMULATED STRESS ON FLAT WIRE PICKETS FROM A SPROCKET TOOTH EXUDING 500 LBS. OF FORCE:

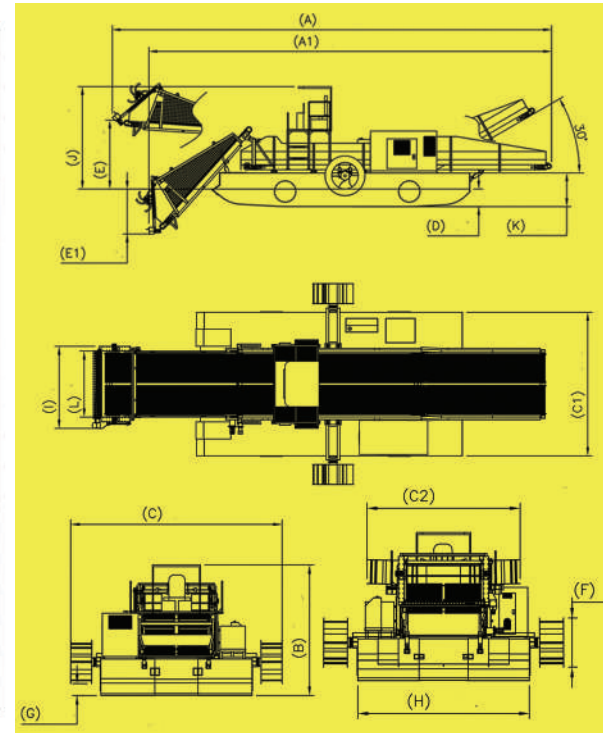
Ultratrex with dedicated sprocket lanes

Ultratrex pickets engage with the sprocket directly in the center. This helps maintain picket shape and strength, contributing to longer belt life.

Standard flat wire pickets often engage with the sprocket slightly off-center. This can deform the picket and negatively affect belt life.

TECHNICAL SPECIFICATION

ITEM	UNIT	VALUE	
TOTAL WEIGHT	ton	14.5	
FLOAT CAPACITY	m ³	28	
FLOAT CAPACITY/TOTAL WEIGHT	M ³ /ton	1.93	
MAXIMUM TORQUE MOTOR	kgf-m	1850	
TRAVEL SPEED ON WATER	kMH	3.0	
DIMENSIONS	A. MAX. LENGTH DURING TRANSPORTATION	mm	13270
	A1. MAX. LENGTH DURING OPERATION	mm	12162
	B. MAX. MACHINE HIGH ON THE LAND	mm	3800
	C. MAX. WIDTH DURING OPERATION	mm	5875
	C1. MAX. WIDTH DURING TRANSPORTATION	mm	4200
	C2. MAX. WIDTH FOR PADDLE WHEEL DURING TRASPORTATION	mm	3750
	D. WATER DRAFT	mm	520
	E. MAX. INCLINED HIGH FROM WATER LEVEL	mm	2080
	E1. MAX HARVESTING DEPTH FROM WATER LEVEL	mm	1500
	F. OVERALL DIAMETER FOR PADDLE WHEEL	mm	1200
	G. GROUND CLEARANCE FOR PADDLE WHEEL	mm	330
	H. WIDTH FLOAT	mm	4200
I. MAX. ENTRANCE STRUCTURE WIDTH	mm	2401	
J. MAX MACHINE HIGH FROM WATER LEVEL	mm	3268	
K. DECK HIGH	mm	1000	
L. HARVESTING BROADBAND	mm	2020	



MODEL	WH120
General	
Operating Dimension	12.2m x 5.9m x 3.8m
Average Processing Capacity	3,500m ² /h
Harvesting Depth	1.5m (from water level)
Fabrication	
Hull Size	7.8m x 4.2m x 1.0m
Materials	SMA490 Steel base & side plate thickness: 5mm
	SMA490 steel deck plate thickness: 5mm
Power Source	
Engine	Standard engine Diesel
Manufacturers	Perkins
Power	90.2 KW
Max. rotation speed	1800Rpm.
Starting and cooling method	Electrical, Water-Cooling
Diesel Tank	170 L
Hydraulics	
Hydraulic pump	Two axial piston pumps: 2 x 55 L/min
Hydraulic tank	335 L
Harvesting Head	
Harvesting broadband	2.02m
Collecting conveyor belt	Stainless steel
Cutting scissors Length	2.03 m, 1 set
Flywheel cutter Diameter	600mm
Flywheel Rotation speed	300RPM
Storage Conveyor	
Dimension	9.10m x 2.15m x 1.05m
Lifting Cylinder	2 pieces
Unloading conveyor belt	Stainless steel
Propulsion	
Twin paddle wheel Diameter	1.2m, Width 0.6m

- All the specification are for reference only.
 - For continous improvement purposes, specification are subjected to change without prior notice



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