

# ***BELL AQUATIC WEED HARVESTER WH80-2***

***INTERNATIONAL DREDGING SPECIALIST***

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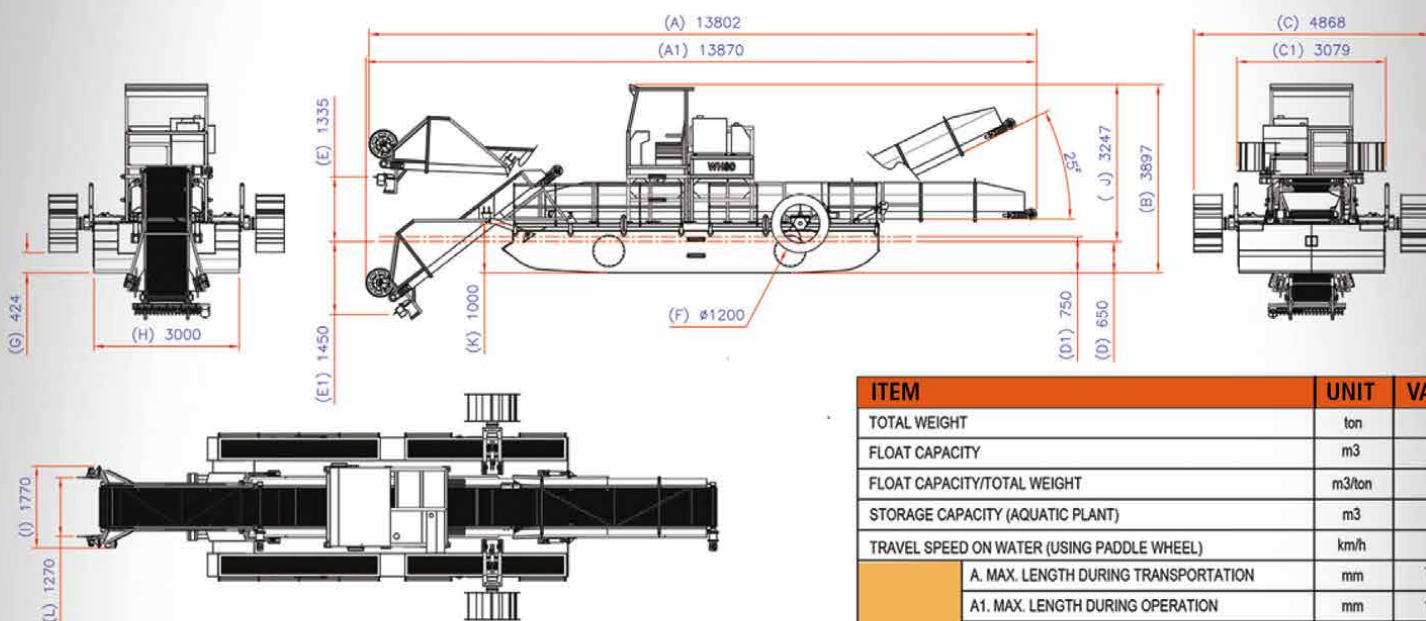
## **BELL DREDGING PUMPS**

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## TECHNICAL SPECIFICATION



MODEL	WH80-2
<b>General</b>	
Operating Dimension	13.9m x 4.9m x 3.9m
Average Processing Capacity	2,200m <sup>2</sup> /h
Harvesting Depth	1.5m (from water level)
<b>Fabrication</b>	
Hull Size	7.8m x 3.0m x 1.0m
Materials	SMA490 Steel base & side plate thickness: 6mm SMA490 steel deck plate thickness: 6mm
<b>Power Source</b>	
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
<b>Hydraulics</b>	
Hydraulic pump	Two axial piston pumps: 2 x 55 L/min
Hydraulic tank	335 L
<b>Harvesting Head</b>	
Dimension	4.6m x 1.6m x 2.0m
Collecting conveyor belt	Stainless steel
Cutting scissors Length	1.6m, 1 set
Flywheel cutter Diameter	600mm
Flywheel Rotation speed	300RPM
<b>Operation Deck</b>	
Dimension	1.3m x 1.7m x 1.6m
<b>Storage Conveyor</b>	
Dimension	10.1m x 1.3m x 0.9m
Lifting Cylinder	2 pieces
Unloading conveyor belt	Stainless steel
<b>Propulsion</b>	
Twin paddle wheel Diameter	1.2m, Width 0.6m
Features	Tilt paddle wheel for transportation.

ITEM	UNIT	VALUE
TOTAL WEIGHT	ton	13
FLOAT CAPACITY	m <sup>3</sup>	20
FLOAT CAPACITY/TOTAL WEIGHT	m <sup>3</sup> /ton	1.54
STORAGE CAPACITY (AQUATIC PLANT)	m <sup>3</sup>	8
TRAVEL SPEED ON WATER (USING PADDLE WHEEL)	km/h	5
DIMENSIONS	A. MAX. LENGTH DURING TRANSPORTATION	mm 13802
	A1. MAX. LENGTH DURING OPERATION	mm 13870
	B. MAX. MACHINE HIGH ON THE LAND	mm 3897
	C. MAX. WIDTH DURING OPERATION	mm 4868
	C1. MAX. WIDTH FOR PADDLE WHEEL DURING TRANSPORTATION	mm 3079
	D. WATER DRAFT	mm 650
	D1. WATER DRAFT IN FULLY LOAD	mm 750
	E. MAX. INCLINED HIGH FROM WATER LEVEL	mm 1335
	E1. MAX HARVESTING DEPTH FROM WATER LEVEL	mm 1450
	F. OVERALL DIAMETER FOR PADDLE WHEEL	mm 1200
	G. GROUND CLEARANCE FOR PADDLE WHEEL	mm 424
	H. WIDTH FLOAT	mm 3000
	I. MAX. ENTRANCE STRUCTURE WIDTH	mm 1770
	J. MAX MACHINE HIGH FROM WATER LEVEL	mm 3247
	K. DECK HIGH	mm 1000
	L. HARVESTING BROADBAND	mm 1270



\* All specified data may have variations. Bell reserved the right to change it without prior notification.



## INTRODUCTION

Bell Dredging Pumps is a leading producer of high quality aquatic weed harvester. Bell Dredging Pumps 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 we complied with the company's quality system and customers' requirements.

## APPLICATION

Bell aquatic weed harvester is a type of hydraulic system weed harvester. These heavy duty machine is an environmental friendly machine that clearing excessive floating aquatic plants and cleans up floating solid wastes on dams, lakes and rivers.

Bell aquatic weed harvester equipped with one horizontal cutter, two flywheel cutters and trash skimmers to remove the floating aquatic plants and solid wastes. The collecting process occurs simultaneously while the machine moves forward. Once the storage becomes full, the aquatic weed harvester returns to the shore for unloading process.

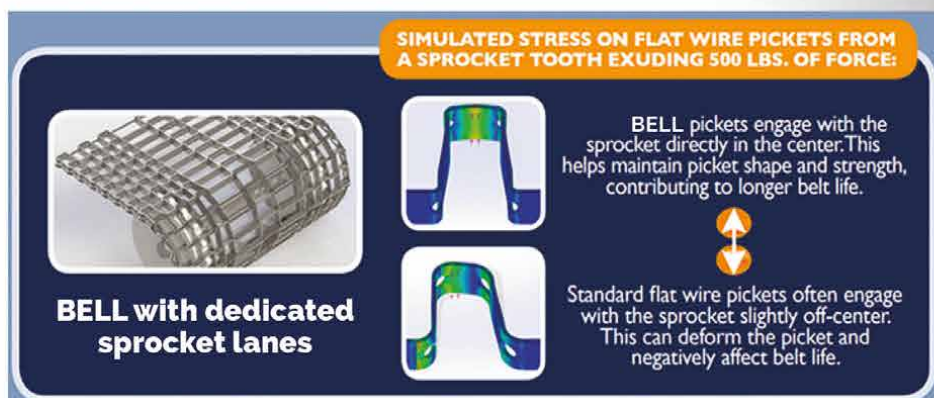
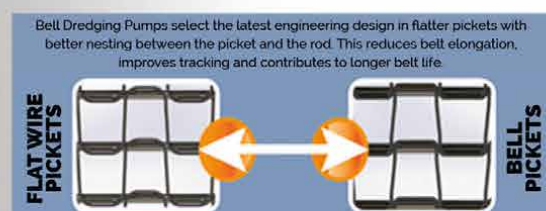
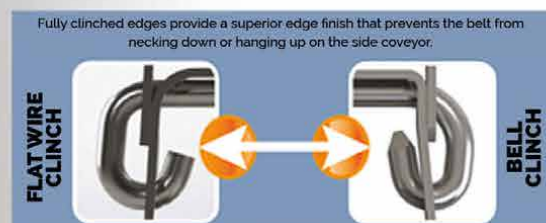
## FEATURES

### 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 <sup>3</sup>
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







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