



Amphibious Excavator HAWK-ATD300



CERT NO: TUV100 01 2043
ISO 9001: 2015



Amphibious Excavators are designed to traverse and dredge on soft terrain such as swamp, wet-land and shallow water. This system features an ultra-low ground pressure while operating. Our amphibious hydraulic undercarriages are compatible with excavators ranging from 5 to 50-ton models. HAWK Excavators are the optimal dredging system for:



Amphibious Excavator HAWK-ATD300

- Vegetation control
- Dredging canals, river channels & harbors
- Environmental remediation
- Flood protection & maintenance
- Creating marshes & animal habitats
- Constructing pipelines & underwater cables
- Swamps & wetlands construction
- Ice breaking & management
- Remote worksites requiring navigation through water and soft terrain

1. General Specification: ATD300 with ULTRA800 Pump

- Length overall include Boom & Arm	-----	14,726 mm 579.76 in
- Length overall exclude Boom & Arm	-----	10,465 mm 412.01 in
- Width overall	-----	8,645 mm 340.35 in
- Width (Pontoon)	-----	6,212 mm 244.57 in
- Height (Include cabin)	-----	4,756 mm 187.24 in
- Main Pontoon LxWxH		
Length	-----	10,465 mm / 412.01 in
Width	-----	6,212 mm / 244.57 in
Height	-----	2,520 mm / 99.21 in
- Side Pontoon 2x each LxWxH		
Lengt		9,000 mm / 354.33 in
h		1,200mm / 47.24 in
Width		1,000 mm / 39.37 in
-	Height	7,000 mm / 275.59 in



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- Max. Dredging Depth	-----	11.51 meters 37.76 feet
- Dredging Angle @Dredging Position	-----	90 Degrees
- Steel Specification:		
Steel Grade (Marine Grade A)		
	Main Pontoon	
	Bottom plates -----	8.00 mm / .31 in
	Side plates -----	6.00 mm / .24 in
	Side Pontoon	
	Bottom plates -----	6.00 mm / .24 in
	Side plates -----	6.00 mm / .24 in
- Total Operating Weight	54,140 Kg / 119358.27 lbs	

2. Cabin and Instrument Specification:

- One-man operation
- Air Conditioner included
- Sound Suppression and Heat Proof
- High-resolution 10" LCD touchscreen Smart monitor
- LED chassis light, Left and right hand boom lights, Cabin light
- Controller seat with air-adjustable suspension

3. Dredger Pump Specification: ULTRA800

Capacity max.	-----	800 m3/hr 1046.36 yd3/hr
Suction diameter	-----	200 mm / 7.87 in
Pressure diameter	-----	200 mm / 7.87 in
Spherical passage	-----	4.92 mm / .19 in
Hydraulic pressure	-----	250 bar
		24mm / .94 in



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Cutter head diameter	-----	Centrifugal, Single Stage
Pump type	-----	Crown Head Steel
Cutter head type	-----	
Cutter head material	-----	

4. Engine Specification:

Main Engine Power ----- 224 (300) KW (HP)

Brand CA

Model C 9.3 ACERT

RPM 2,200

Displacement 9,300 cc.

- Fuel Tank Capacity ----- 1,200 Liter / 317 Gallon

- Emergency engine shutoff switch

- Auto engine speed control
- Fault Alarm monitor

5. Performance Specification:

- Digging Bucket Capacity ----- 0.9 m³ / 1.31 yd³
- Weed Bucket Capacity ----- 1.3 m³ / 1.70 yd³
- Dredging Pump Capacity ----- 800 m³/h & 1046.36 yd³
- MAX. Digging Height ----- 18.1 m / 59.38 ft
- MAX. Dredging Depth ----- 11.5 m / 37.73 ft
- MAX. Digging Reach ----- 18 m / 59.06 ft



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6. Hydraulics Performance and Specification:

The cutter motor and dredging pump operates by hydraulic. Drive by one main pump, controlled in the cabin.

Main System -----	558 l/min
Max. flow	147.41 g/min
Max. Pressure equipment -----	5,076 psi
Hydraulic Tank Capacity -----	161 Liters / 42.53 Gallons
Hydraulic System include Tank -----	373 Liters 98.54 Gallons
DEF Tank -----	80 Liters / 21.13 Gallons
Cooling System -----	40 Liters / 10.57 Gallons



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The electrical system is 24V system, power by Maintenance-free 1,000 CCA batteries.
Centralized electrical disconnect switch

8. Lighting and Signals

- Dredging indicator light
- Signaling light
- Warning horn
- LED chassis light
- Left and right hand boom lights
- Cabin lights

9. Thruster Specification:

The ATD300 thrusters is hydraulically driven and connected to the oil flow of undercarriage with a 4/3-way valve.
With the thruster you can maneuverer the amphibious dredger.

Controllable from cabin.

- | | | |
|----------------------|-------|-------------------|
| - Total weight | ----- | 90kg / 197.42 lbs |
| - Propeller diameter | ----- | 405 mm / 15.95 in |
| - MAX. power | ----- | 40 kw / 53.64 in |

10. Warranty:

2,000 hours warranty on the UHMWPE (Ultra-High-Molecular-Weight Polyethylene) track plates against cracks.
Warranty on the long reach and amphibious undercarriage will be covered up to 2,000 hours or up to 1 year of usage, whichever comes first. Coverage will be determined if an operating defect appears within the warranty period as measured from the date of delivery to the time of claim. Warranty covers against manufacturer defects excluding wear & tear and operator negligence. All Hawk Excavator-warranted parts and components that are defective in materials and/or workmanship will be repaired or replaced without charge for parts or labor. Warranty claim and service location: Hawk Excavation Headquarters 15405 Olde Hwy 80, El Cajon, CA 92021.