

# ULTRATREX AT120ERNST

**UltraTrex**  
AMPHIBIOUS EXCAVATOR



CER NO : TUV 100-01-2043  
ISO 9001 : 2015



UTX, YOUR TRUSTED PARTNER IN DREDGING & ENVIRONMENTAL CONTROL SOLUTIONS



## INTRODUCTION

The Ultratrex Amphibious Excavator is designed to travel and operate safely and efficiently on soft terrain such as swamps, wetlands, and shallow waters. Its well-engineered amphibious hydraulic undercarriage provides ultra-low ground pressure and exceptional mobility, making it ideal for soft terrain and swamp applications. We manufacture amphibious hydraulic undercarriages for excavators ranging from 15 to 50 tons.

## FEATURES

### TRACK PLATES

- Made from Ultra High Molecular Weight Polyethylene (UHMWPE)
- High strength and quality material
- 10000 hours warranty

### AMPHIBIOUS UNDERCARRIAGE CONSTRUCTION

- Anti corrosion plate (SMA 490)
- 3 independent water compartments
- Reinforce bottom area

### OPTIONAL FEATURES

- XTILT (Tilting Safety Sensor)
- Designed to enhance excavator operations by providing real-time guidance for bucket positioning

### GREASE TENSIONER SYSTEM

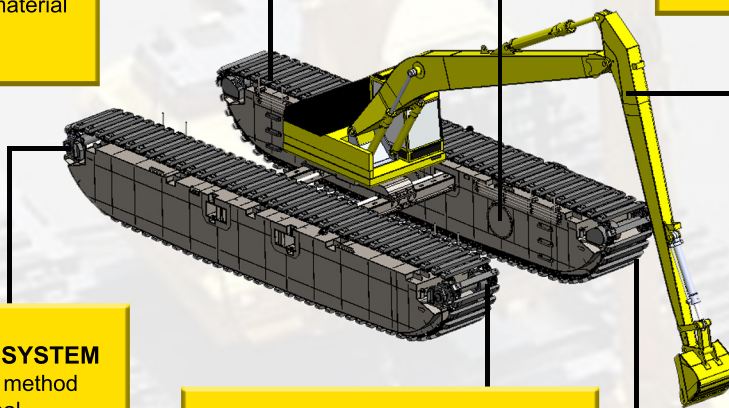
- Easier chain tensioning method compared to conventional systems using a spanner
- Uses grease to move the chain tensioning cylinder

### AMPHIBIOUS UNDERCARRIAGE HYDROSTATIC DRIVE

- Brand: Bonfiglioli
- Origin: Italy
- Integrated hydraulic 2-speed motors
- Output torque: 1835 kgfm

### TRACK CHAINS

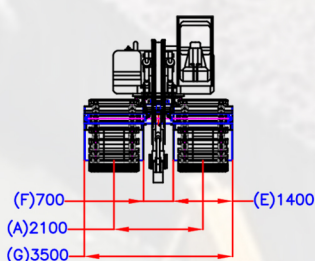
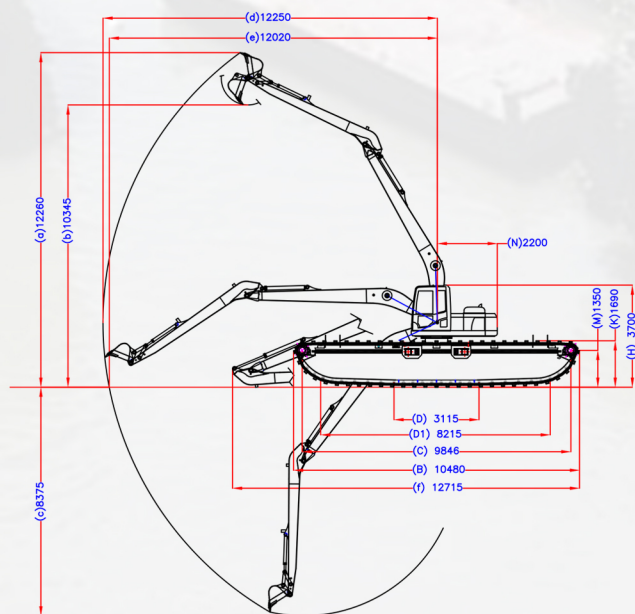
- Using standard undercarriage track chain system
- Double strands
- Running on 10mm Hardox AR400 wear plate



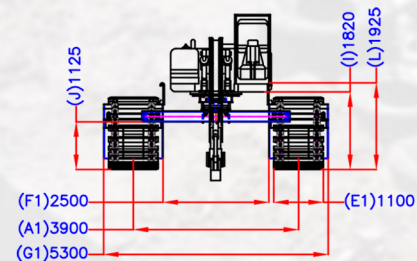
## APPLICATIONS

- Swamp land clearing for mining, plantations and forest areas
- Deepening of canals, river channels and river mouths
- Building bunds for flood prevention and land reclamation
- Sludge removal from lakes, ponds and water reservoirs
- Digging trenches for oil and gas pipeline installations
- Transporting and clearing landslides and flood hit areas
- Swamp and wetland construction
- Road construction through wetlands

## AT120ERNST TECHNICAL SPECIFICATIONS



RETRACTED POSITION



EXTENDED POSITION

GENERAL SPECIFICATIONS		
Base Machine		12 - 14 Ton Excavator
Total Weight	Without Side Pontoon	24000 kg
Floating Capacity		31.5 m <sup>3</sup>
Floating Capacity/Total Weight		1.31 m <sup>3</sup> /ton
Maximum Torque Motor		1835 kgf-m
Ground Pressure (Hard Ground)		0.35 kg/cm <sup>2</sup>
Ground Pressure (Soft Ground)		0.13 kg/cm <sup>2</sup>
Travel Speed	High	4.2 km/h
	Low	2.3 km/h
Maximum Gradient		30 °
WORK EQUIPMENT		
Boom Length		7046 mm
Arm Length		4924 mm
Bucket Capacity		0.4 m <sup>3</sup>
WORKING RANGES		
a. Maximum Digging Height		12260 mm
b. Maximum Dumping Height		10345 mm
c. Maximum Digging Depth		8375 mm
d. Maximum Digging Reach		12250 mm
e. Maximum Digging Reach On Ground		12020 mm
f. Total Length During Parking		12715 mm

DIMENSIONS	
A. Track Gauge (Fully Retracted)	2100 mm
A1. Track Gauge (Fully Extended)	3900 mm
B. Track Length	10480 mm
C. Distance Between Idler And Sprocket	9846 mm
D. Track Length On Hard Ground	3115 mm
D1. Track Length On Soft Ground	8215 mm
E. Width Track Shoe	1100 mm
E1. Width Float	1400 mm
F. Distance Between Shoe Inside (Fully Retracted)	700 mm
F1. Distance Between Shoe Inside (Fully Extended)	2500 mm
G. Overall Machine Width (Fully Retracted)	3500 mm
G1. Overall Machine Width (Fully Extended)	5300 mm
H. Overall Machine Height	3700 mm
I. Ground Clearance (Counterweight)	1820 mm
J. Minimum Ground Clearance	1125 mm
K. Shoe Setting Height	1690 mm
L. Crawler Height	1925 mm
M. Water Line Height	1350 mm
N. Minimum Swing Radius	2200 mm

\*Dimensions are based on a 12.5m Long Reach Arm and 0.4m<sup>3</sup> General Purpose Bucket  
 Retracted Position - For transportation purposes  
 Extended Position - For operating purposes



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For more information on Ultratrex products, dredging,  
and environmental control solutions, visit our website at  
**[www.amphibousexcavator.com](http://www.amphibousexcavator.com)**

Materials and specifications are subject to change without notice.  
The brochure may feature additional equipment.  
Contact your Ultratrex dealer for available options.



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