

UltraTrex AMPHIBIOUS EXCAVATO 10000 HRS

ULTRATREX AT90ER / AT90ERPS AT90ERN / AT90ERNF

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UTX, YOUR TRUSTED PARTNER IN DREDGING & ENVIRONMENTAL CONTROL SOLUTIONS

SÜD

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



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



Weight Polyethylene (UHMWPE)

- High strength and quality material - 10000 hours warranty

GEAR RACK SPUD

- High precision gear rack teeth and pitch
- Robust design for enhanced stabilization when digging in deeper water

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

OPTIONAL FEATURES

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

TRACK CHAINS

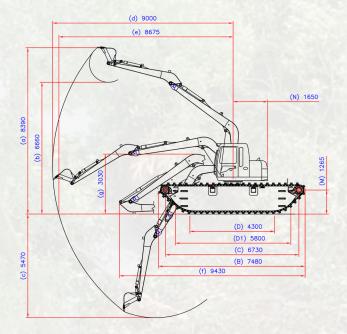
- Double strands
- Track chain pitch : 152.4 mm
- Running on 10mm Hardox AR400 wear plate

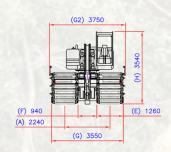
APPLICATIONS

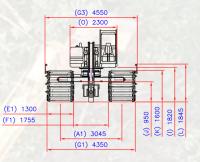
- > Swamp land clearing for mining, plantations and forest areas
- > Deepening of canals, river channels and river mouths
- > Building bunds for flood prevention and land reclamation
- > Sludge removal from lakes, ponds and water reservoirs
- > Digging trenches for oil and gas pipeline installations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



AT90ER TECHNICAL SPECIFICATIONS







RETRACTED POSITION

EXTENDED POSITION

GENERAL SPECIFICATION	S	
Base Machine		7 - 9 Ton Excavato
Total Weight		14040 kg
Floating Capacity		18 m3
Floating Capacity/Total Weight	Without Side Pontoon	1.22 m3/ton
Maximum Torque Motor		1835 kgf-m
Ground Pressure	TO DAY	0.14 kg/cm2
	High	4.2 km/h
Travel Speed	Low	2.3 km/h
Maximum Gradient	- Di	30 °
WORK EQUIPMENT		
Boom Length	1-42	3700 mm
Arm Length		1670 mm
Bucket Capacity		0.31 m3
WORKING RANGES		
a. Maximum Digging Height		8390 mm
b. Maximum Dumping Height		6660 mm
c. Maximum Digging Depth		5470 mm
d. Maximum Digging Reach		9000 mm
e. Maximum Digging Reach On Ground		8675 mm
f. Total Length During Parking	1	9430 mm
g. Total Height During Parking		3030 mm

*Dimensions are based on a 9m Long Reach Arm and 0.18m3 General Purpose Bucket

Retracted Position - For transportation purposes Extended Position - For operating purposes

DIMENSIONS		
A. Track Gauge (Fully Retracted)	2240 mm	
A1. Track Gauge (Fully Extended)	3045 mm	
B. Track Length	7480 mm	
C. Distance Between Idler And Sprocket	6730 mm	
D. Track Length On Hard Ground	4300 mm	
D1. Track Length On Soft Ground	5800 mm	
E. Width Track Shoe	1260 mm	
E1. Width Float	1300 mm	
F. Distance Between Shoe Inside (Fully Retracted)	940 mm	
F1. Distance Between Shoe Inside (Fully Extended)	1755 mm	
G. Overall Machine Floating Width (Fully Retracted)	3550 mm	
G1. Overall Machine Floating Width (Fully Extended)	4350 mm	
G2. Overall Machine Width (Fully Retracted)	3750 mm	
G3. Overall Machine Width (Fully Extended)	4550 mm	
H. Overall Machine Height	3540 mm	
I. Ground Clearance (Counterweight)	1820 mm	
J. Minimum Ground Clearance	950 mm	
K. Shoe Setting Height	1600 mm	
L. Crawler Height	1845 mm	
M. Water Line Height	1265 mm	
N. Minimum Swing Radius	1650 mm	
O. Cabin Width	2300 mm	

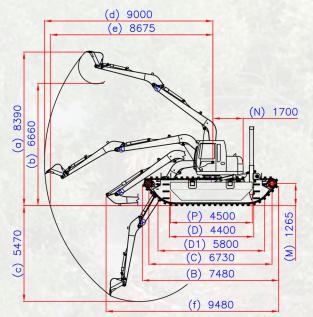


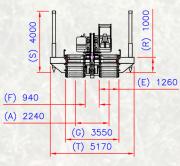
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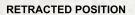
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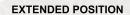
(J) 910
(K) 1620
(L) 1845
(I) 1820

AT90ERPS TECHNICAL SPECIFICATIONS









(A1) 3045

(G1)

(T1)

4350

6000

2250 (0)

(Q) 800

(E1) 1300

(F1) 1755

GENERAL SPECIFICATION	S	
Base Machine		7 - 9 Ton Excavato
Total Weight		14040 kg
Floating Capacity		18 m3
Floating Capacity/Total Weight	Without Side Pontoon	1.22 m3/ton
Maximum Torque Motor		1835 kgf-m
Ground Pressure		0.14 kg/cm2
Transformed	High	4.2 km/h
Travel Speed	Low	2.3 km/h
Maximum Gradient	0	30 °
WORK EQUIPMENT		
Boom Length		5350 mm
Arm Length		3800 mm
Bucket Capacity		0.33 m3
WORKING RANGES		
a. Maximum Digging Height		8390 mm
b. Maximum Dumping Height		6660 mm
c. Maximum Digging Depth		5470 mm
d. Maximum Digging Reach		9000 mm
e. Maximum Digging Reach	On Ground	8675 mm
f. Total Length During Parkin	n	9480 mm

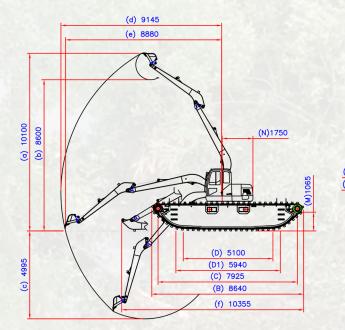
are based on a 9m Long Reach Arm and 0.18m3 General Purp Bucket

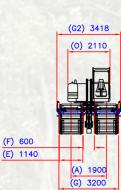
Retracted Position - For transportation purposes Extended Position - For operating purposes

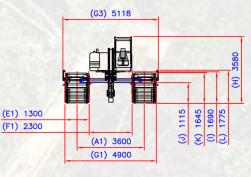
DIMENSIONS	
A. Track Gauge (Fully Retracted)	2240 mm
A1. Track Gauge (Fully Extended)	3045 mm
B. Track Length	7480 mm
C. Distance Between Idler And Sprocket	6730 mm
D. Track Length On Hard Ground	4400 mm
D1. Track Length On Soft ground	5800 mm
E. Width Track Shoe	1260 mm
E1. Width Float	1300 mm
F. Distance Between Shoe Inside (Fully Retracted)	940 mm
F1. Distance Between Shoe Inside (Fully Extended)	1755 mm
G. Overall Machine Width (Fully Retracted)	3550 mm
G1. Overall Machine Width (Fully Extended)	4350 mm
H. Overall Machine Height	3600 mm
I. Ground Clearance (Counterweight)	1820 mm
J. Minimum Ground Clearance	910 mm
K. Shoe Setting Height	1620 mm
L. Crawler Height	1845 mm
M. Water Line Height	1265 mm
N. Minimum Swing Radius	1700 mm
O. Cabin Width	2250 mm
ADDITIONAL DIMENSIONS (SIDE PONTOON)	
P. Side Pontoon Length	4500 mm
Q. Side Pontoon Width	800 mm
R. Side Pontoon Height	1000 mm
S. Spud Length	4000 mm
T. Overall Machine Width (Fully Retracted)	5170 mm
T1. Overall Machine Width (Fully Extended)	6000 mm



AT90ERN TECHNICAL SPECIFICATIONS







RETRACTED POSITION

EXTENDED POSITION

GENERAL SPECIFICATION	IS	
Base Machine		7 - 9 Ton Excavator
Total Weight		15000 kg
Floating Capacity		22 m3
Floating Capacity/Total Weight	Without Side Pontoon	1.47 m3/ton
Maximum Torque Motor	1. A. A. A.	1835 kgf-m
Ground Pressure		0.11 kg/cm2
Travel Or and	High	4.2 km/h
Travel Speed	Low	2.3 km/h
Maximum Gradient	50	30 °
WORK EQUIPMENT		
Boom Length		5345 mm
Arm Length		3320 mm
Bucket Capacity		0.18 m3
WORKING RANGES		
a. Maximum Digging Height		10100 mm
b. Maximum Dumping Height		8600 mm
c. Maximum Digging Depth		4995 mm
d. Maximum Digging Reach		9145 mm
e. Maximum Digging Reach	On Ground	8880 mm
f. Total Length During Parkin	0	10355 mm

*Dimensions are based on a 9m Long Reach Arm and 0.18m3 General Purpose Bucket

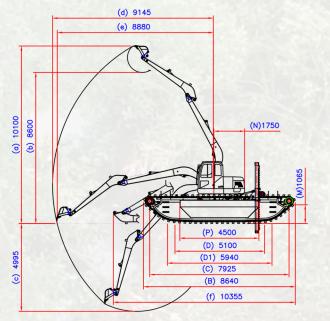
Retracted Position - For transportation purposes

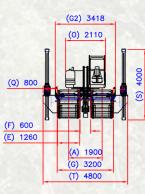
Extended Position - For operating purposes

DIMENSIONS	
A. Track Gauge (Fully Retracted)	1900 mm
A1. Track Gauge (Fully Extended)	3600 mm
B. Track Length	8640 mm
C. Distance Between Idler And Sprocket	7925 mm
D. Track Length On Hard Ground	5100 mm
D1. Track Length On Soft Ground	5940 mm
E. Width Track Shoe	1140 mm
E1. Width Float	1300 mm
F. Distance Between Shoe Inside (Fully Retracted)	600 mm
F1. Distance Between Shoe Inside (Fully Extended)	2300 mm
G. Overall Machine Floating Width (Fully Retracted)	3200 mm
G1. Overall Machine Floating Width (Fully Extended)	4900 mm
G2. Overall Machine Width (Fully Retracted)	3418 mm
G3. Overall Machine Width (Fully Extended)	5118 mm
H. Overall Machine Height	3580 mm
I. Ground Clearance (Counterweight)	1690 mm
J. Minimum Ground Clearance	1115 mm
K. Shoe Setting Height	1645 mm
L. Crawler Height	1775 mm
M. Water Line Height	1065 mm
N. Minimum Swing Radius	1750 mm
O. Cabin Width	2110 mm

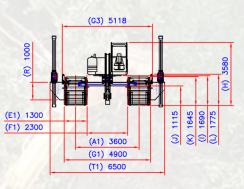


AT90ERNPS TECHNICAL SPECIFICATIONS









EXTENDED POSITION

Base Machine	And the second second	7 - 9 Ton Excavato
Total Weight		15000 kg
Floating Capacity		22 m3
Floating Capacity/Total	 Without Side Pontoon	1.47 m3/ton
Weight		
Maximum Torque Motor		1835 kgf-m
Ground Pressure		0.11 kg/cm2
Travel Speed	High	4.2 km/h
847-1/K C 2	Low	2.3 km/h
Maximum Gradient		30 °
WORK EQUIPMENT		
Boom Length	No. Contraction	5345 mm
Arm Length		3320 mm
Bucket Capacity		0.18 m3
WORKING RANGES		
a. Maximum Digging Height		10100 mm
b. Maximum Dumping Height		8600 mm
c. Maximum Digging Depth		4995 mm
d. Maximum Digging Reach		9145 mm
e. Maximum Digging Reach On Ground		8880 mm
f. Total Length During Parking		10355 mm
ADDITIONAL DIMENSIONS	(SIDE PONTOON)	
P. Side Pontoon Length		4500 mm
Q. Side Pontoon Width		800 mm
R. Side Pontoon Height		1000 mm
S. Spud Length		4000 mm
T. Overall Machine Width (Fully Retracted)		4800 mm
T1. Overall Machine Width (Fully Extended)		6000 mm

DIMENSIONS	
A. Track Gauge (Fully Retracted)	1900 mm
A1. Track Gauge (Fully Extended)	3600 mm
B. Track Length	8640 mm
C. Distance Between Idler And Sprocket	7925 mm
D. Track Length On Hard Ground	5100 mm
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*Dimensions are based on a 9m Long Reach Arm and 0.18m3 General Purpose Bucket

Retracted Position - For transportation purposes Extended Position - For operating purposes



GALLERY









UTX, YOUR TRUSTED PARTNER IN DREDGING & ENVIRONMENTAL CONTROL SOLUTIONS



For more information on Ultratrex products, dredging, and environmental control solutions, visit our website at www.amphibiousexcavator.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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