

ULTRATREX

**AT120ER / AT120ERPS
AT120ERN / AT120ERNPS**



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

TRACK PLATES

- Made from Ultra High Molecular 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 CONSTRUCTION

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

AMPHIBIOUS UNDERCARRIAGE HYDROSTATIC DRIVE

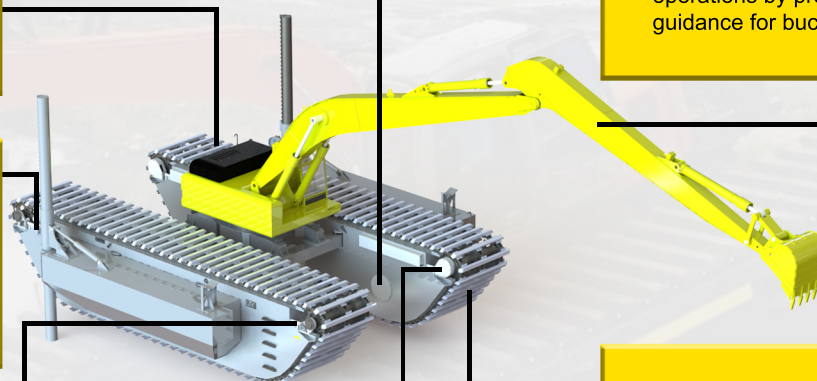
- Brand: Bonfiglioli
- Origin: Italy
- Integrated hydraulic 2-speed motors
- Output torque: 3059 kgfm

OPTIONAL FEATURES

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

TRACK CHAINS

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



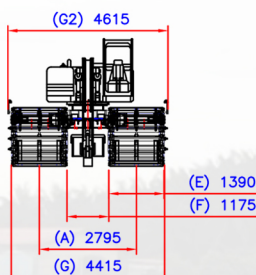
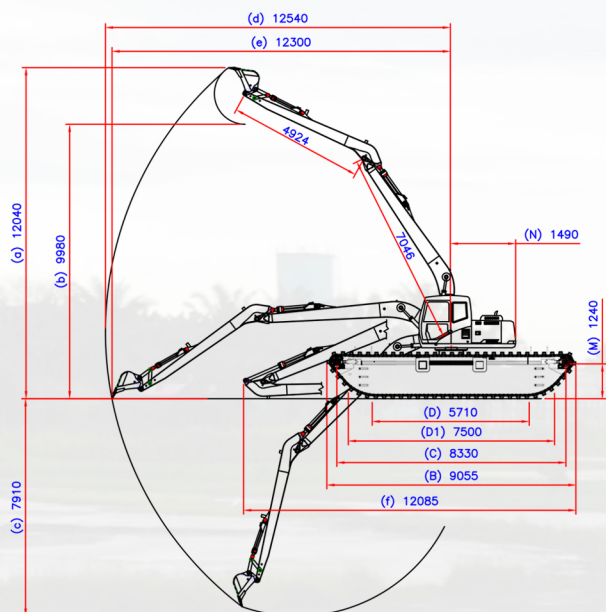
APPLICATIONS

- 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

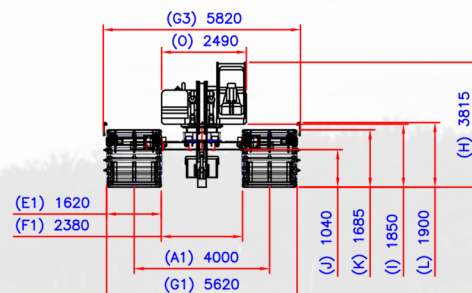
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AT120ER TECHNICAL SPECIFICATIONS



RETRACTED POSITION



EXTENDED POSITION

GENERAL SPECIFICATIONS		
Base Machine		12 - 14 Ton Excavator
Total Weight	Without Side Pontoon	24500 kg
Floating Capacity		30 m ³
Floating Capacity/Total Weight		1.22 m ³ /ton
Maximum Torque Motor		3059 kgf-m
Ground Pressure		0.16 kg/cm ²
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 ³

WORKING RANGES	
a. Maximum Digging Height	12040 mm
b. Maximum Dumping Height	9980 mm
c. Maximum Digging Depth	7912 mm
d. Maximum Digging Reach	12540 mm
e. Maximum Digging Reach On Ground	12300 mm
f. Total Length During Parking	12085 mm

*Dimensions are based on a 12.5m Long Reach Arm and 0.4m³ General Purpose Bucket

Retracted Position - For transportation purposes

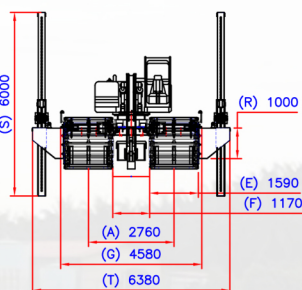
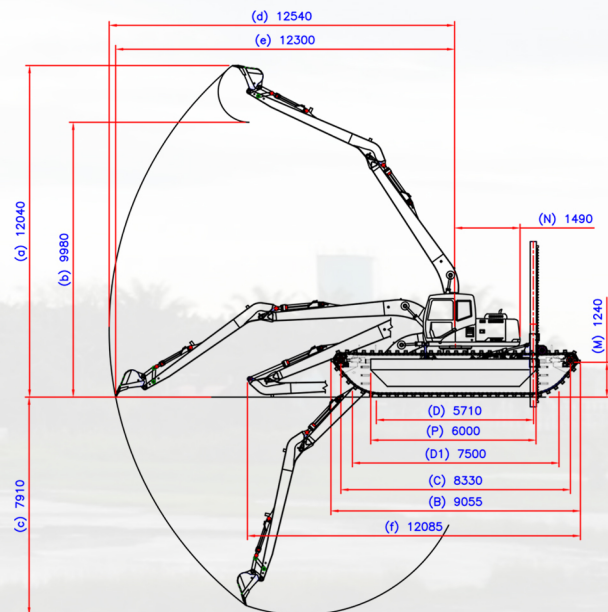
Extended Position - For operating purposes

DIMENSIONS	
A. Track Gauge (Fully Retracted)	2795 mm
A1. Track Gauge (Fully Extended)	4000 mm
B. Track Length	9055 mm
C. Distance Between Idler And Sprocket	8330 mm
D. Track Length On Hard Ground	5710 mm
D1. Track Length On Soft Ground	7500 mm
E. Width Track Shoe	1390 mm
E1. Width Float	1620 mm
F. Distance Between Shoe Inside (Fully Retracted)	1175 mm
F1. Distance Between Shoe Inside (Fully Extended)	2380 mm
G. Overall Machine Floating Width (Fully Retracted)	4415 mm
G1. Overall Machine Floating Width (Fully Extended)	5620 mm
G2. Overall Machine Width (Fully Retracted)	4615 mm
G3. Overall Machine Width (Fully Extended)	5820 mm
H. Overall Machine Height	3815 mm
I. Ground Clearance (Counterweight)	1850 mm
J. Minimum Ground Clearance	1040 mm
K. Shoe Setting Height	1685 mm
L. Crawler Height	1900 mm
M. Water Line Height	1240 mm
N. Minimum Swing Radius	1490 mm
O. Cabin Width	2490 mm

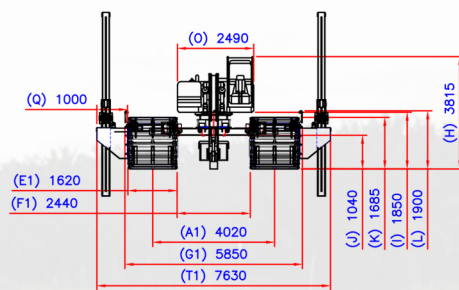
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AT120ERPS TECHNICAL SPECIFICATIONS



RETRACTED POSITION



EXTENDED POSITION

GENERAL SPECIFICATIONS		
Base Machine	12 - 14 Ton Excavator	
Total Weight	Without Side Pontoon	24500 kg
Floating Capacity		30 m ³
Floating Capacity/Total Weight		1.22 m ³ /ton
Maximum Torque Motor		3059 kgf-m
Ground Pressure		0.16 kg/cm ²
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 ³

WORKING RANGES	
a. Maximum Digging Height	12040 mm
b. Maximum Dumping Height	9980 mm
c. Maximum Digging Depth	7910 mm
d. Maximum Digging Reach	12540 mm
e. Maximum Digging Reach On Ground	12300 mm
f. Total Length During Parking	12085 mm

*Dimensions are based on a 12.5m Long Reach Arm and 0.4m³ General Purpose Bucket

Retracted Position - For transportation purposes

Extended Position - For operating purposes

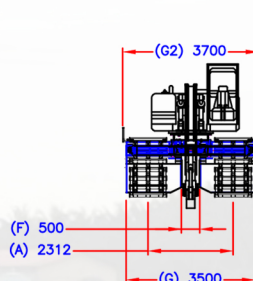
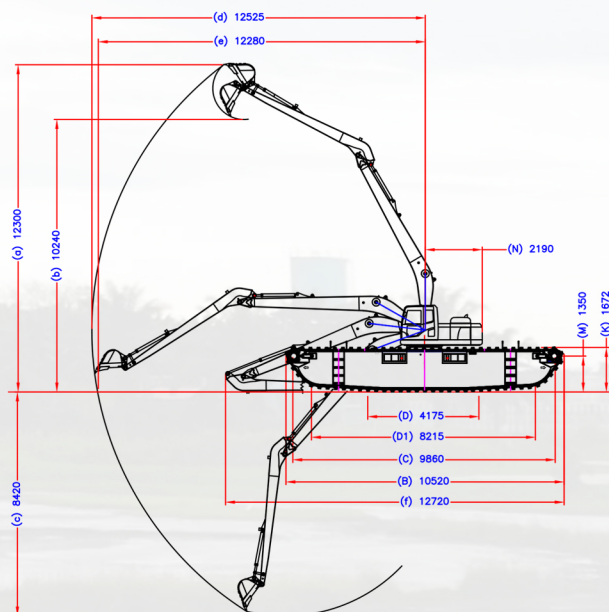
DIMENSIONS	
A. Track Gauge (Fully Retracted)	2760 mm
A1. Track Gauge (Fully Extended)	4020 mm
B. Track Length	9055 mm
C. Distance Between Idler And Sprocket	8330 mm
D. Track Length On Hard Ground	5710 mm
D1. Track Length On Soft Ground	7500 mm
E. Width Track Shoe	1590 mm
E1. Width Float	1620 mm
F. Distance Between Shoe Inside (Fully Retracted)	1170 mm
F1. Distance Between Shoe Inside (Fully Extended)	2440 mm
G. Overall Machine Width (Fully Retracted)	4580 mm
G1. Overall Machine Width (Fully Extended)	5850 mm
H. Overall Machine Height	3815 mm
I. Ground Clearance (Counterweight)	1850 mm
J. Minimum Ground Clearance	1040 mm
K. Shoe Setting Height	1685 mm
L. Crawler Height	1900 mm
M. Water Line Height	1240 mm
N. Minimum Swing Radius	1490 mm
O. Cabin Width	2490 mm

ADDITIONAL DIMENSIONS (SIDE PONTON)	
P. Side Pontoon Length	6000 mm
Q. Side Pontoon Width	1000 mm
R. Side Pontoon Height	1000 mm
S. Spud Length	6000 mm
T. Overall Machine Width (Fully Retracted)	6380 mm
T1. Overall Machine Width (Fully Extended)	7640 mm

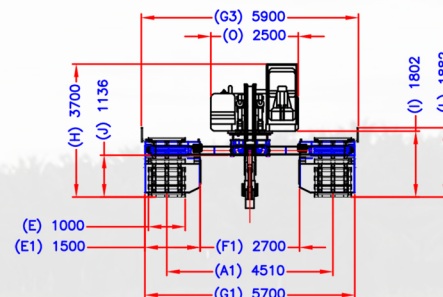
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AT120ERN TECHNICAL SPECIFICATIONS



RETRACTED POSITION



EXTENDED POSITION

GENERAL SPECIFICATIONS		
Base Machine	12 - 14 Ton Excavator	
Total Weight	Without Side Pontoon	28000 kg
Floating Capacity		35 m ³
Floating Capacity/Total Weight		1.25 m ³ /ton
Maximum Torque Motor		3059 kgf-m
Ground Pressure		0.15 kg/cm ²
Travel Speed	High	4.2 km/h
	Low	2.3 km/h
Maximum Gradient	30 °	

WORK EQUIPMENT	
Boom Length	7195 mm
Arm Length	5025 mm
Bucket Capacity	0.4 m ³

WORKING RANGES	
a. Maximum Digging Height	12300 mm
b. Maximum Dumping Height	10240 mm
c. Maximum Digging Depth	8420 mm
d. Maximum Digging Reach	12525 mm
e. Maximum Digging Reach On Ground	12280 mm
f. Total Length During Parking	12720 mm

*Dimensions are based on a 12.5m Long Reach Arm and 0.4m³ General Purpose Bucket

Retracted Position - For transportation purposes

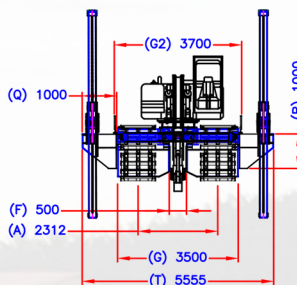
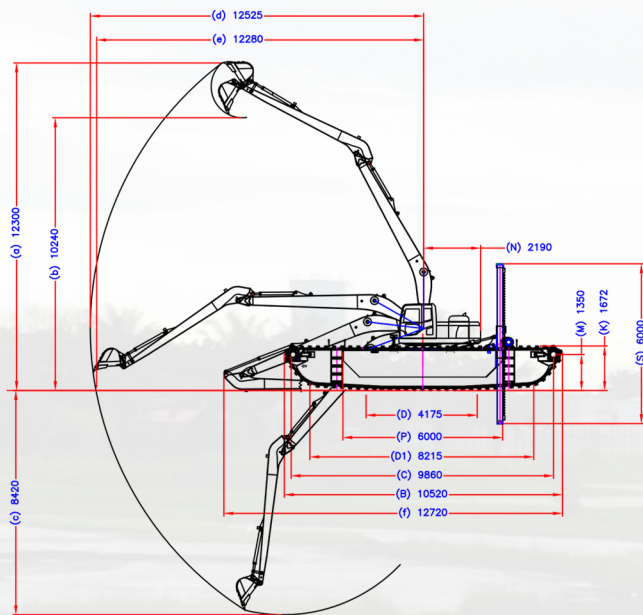
Extended Position - For operating purposes

DIMENSIONS	
A. Track Gauge (Fully Retracted)	2312 mm
A1. Track Gauge (Fully Extended)	4510 mm
B. Track Length	10520 mm
C. Distance Between Idler And Sprocket	9860 mm
D. Track Length On Hard Ground	4175 mm
D1. Track Length On Soft Ground	8215 mm
E. Width Track Shoe	1000 mm
E1. Width Float	1500 mm
F. Distance Between Shoe Inside (Fully Retracted)	500 mm
F1. Distance Between Shoe Inside (Fully Extended)	2700 mm
G. Overall Machine Floating Width (Fully Retracted)	3500 mm
G1. Overall Machine Floating Width (Fully Extended)	5700 mm
G2. Overall Machine Width (Fully Retracted)	3700 mm
G3. Overall Machine Width (Fully Extended)	5900 mm
H. Overall Machine Height	3700 mm
I. Ground Clearance (Counterweight)	1802 mm
J. Minimum Ground Clearance	1136 mm
K. Shoe Setting Height	1672 mm
L. Crawler Height	1882 mm
M. Water Line Height	1350 mm
N. Minimum Swing Radius	2190 mm
O. Cabin Width	2500 mm

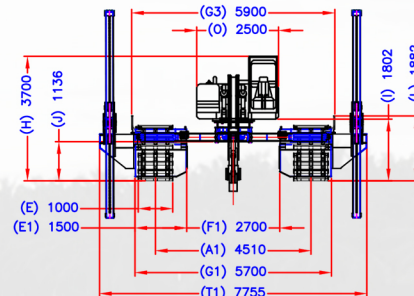
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AT120ERNPS TECHNICAL SPECIFICATIONS



RETRACTED POSITION



EXTENDED POSITION

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d. Maximum Digging Reach	12525 mm
e. Maximum Digging Reach On Ground	12280 mm
f. Total Length During Parking	12720 mm

ADDITIONAL DIMENSIONS (SIDE PONTOON)	
P. Side Pontoon Length	6000 mm
Q. Side Pontoon Width	1000 mm
R. Side Pontoon Height	1000 mm
S. Spud Length	6000 mm
T. Overall Machine Width (Fully Retracted)	5555 mm
T1. Overall Machine Width (Fully Extended)	7755 mm

DIMENSIONS	
A. Track Gauge (Fully Retracted)	2312 mm
A1. Track Gauge (Fully Extended)	4510 mm
B. Track Length	10520 mm
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Extended Position - For operating purposes

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UltraTrex
AMPHIBIOUS EXCAVATOR

GALLERY



**UTX, YOUR TRUSTED PARTNER
IN DREDGING & ENVIRONMENTAL CONTROL SOLUTIONS**



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



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and environmental control solutions, visit our website at
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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