



**UTX, YOUR TRUSTED PARTNER IN  
SHALLOW DREDGING EQUIPMENT**

**AT 120ERN**



CERT NO: TUV100 01 2043  
ISO 9001: 2015



**ULTRATREX MACHINERY SDN BHD**

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**[WWW.AMPHIBIOUSEXCAVATOR.COM](http://WWW.AMPHIBIOUSEXCAVATOR.COM)**

An amphibious excavator that can travel and work safely and effectively on soft terrain such as swamp, wet land and shallow water.

The well designed amphibious hydraulic undercarriage has ultra-low ground pressure and unparalleled mobility to work on soft terrains and swamps area.

We manufacture amphibious hydraulic undercarriages for excavators ranging from 5 to 50 ton excavators.

Ultratrex Amphibious Excavator has well proven itself to work effectively on the following applications:

- Swamp land clearing at mining area, plantation and forest.
- Deepening of canal, river channel & river mouth.
- Building bund for flood prevention & land reclamation.
- Building bund wall for fish & shrimp ponds & salt making industry.
- Sludge clearing of lakes, ponds & water reservoir.
- Digging trenches for oil & gas piping installation.
- Transporting & clearing landslide & flood hit area.
- Swamps and wetlands construction.
- Road construction through wetlands.

Ultratrex AT 120ERN amphibious hydraulic undercarriage technical specification:

1. Amphibious undercarriage hydrostatic drive.

Brand: Bonfiglioli.

Type: Hydrostatic drive with integrated hydraulic 2 speed motors.

Working pressure: 306kgf/cm<sup>2</sup>.

Output torque: 3059kgfm.

2. Amphibious undercarriage construction: Anti corrosion steel plate, Material code: SMA 490.

Each amphibious undercarriage is equipped with 3 independent water tight compartments. The bottom of amphibious undercarriage is reinforced.

3. Track Chains

Triple strands track chain per amphibious undercarriage. Pitch: 152.4mm.

The track chain rollers are running on Hardox 400, 10mm thickness wear plates.

4. Gradeability: 30 degree.

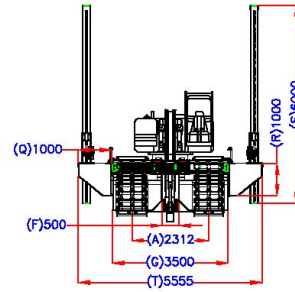
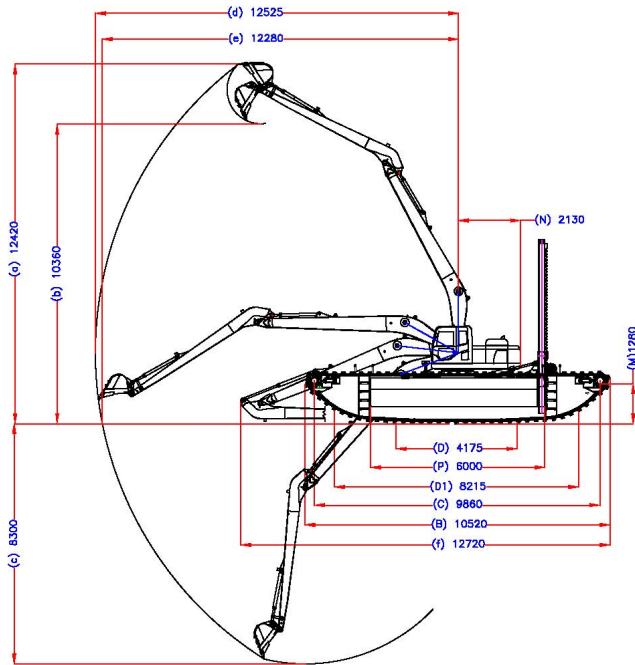
5. Operating weight

28 tons. (Including hydraulic excavator upper body and 12.5 meter Long Reach Arm).

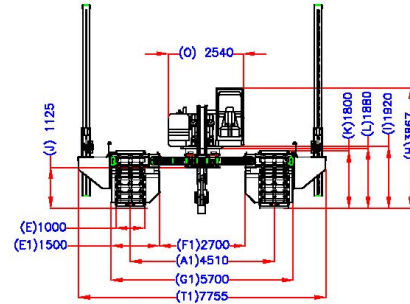
6. Warranty

10,000 hours warranty on the UHMWPE (Ultra-High-Molecular-Weight Polyethylene) track plates against cracks.





EXTENDED POSITION



ITEM		UNIT	VALUE
BASE MACHINE		12-15TON EXCAVATOR	
TOTAL WEIGHT	WITHOUT SIDE PONTOON	Kg	28000
FLOAT CAPACITY		m3	38
FLOAT CAPACITY/TOTAL WEIGHT		M3/ton	1.36
MAXIMUM TORQUE		kgf-m	3059
GROUND PRESSURE		KG/cm2	0.15
TRAVEL SPEED	HI	km/h	4.2
	LO	km/h	2.3
MAXIMUM GRADIENT			30
WORK EQUIPMENT	BOOM LENGTH	mm	7046
	ARM LENGTH	mm	4960
	BUCKET CAPACITY	m3	0.4
WORKING RANGE	a. MAX. DIGGING HEIGHT	mm	12420
	b. MAX. DUMPING HEIGHT	mm	10360
	c. MAX. DIGGING DEPTH	mm	8300
	d. MAX. DIGGING REACH	mm	12525
	e. MAX DIGGING REACH ON GROUND	mm	12280
	f. TOTAL LENGTH DURING PARKING	mm	12720
DIMENSIONS	A. TRACK GAUGE (FULLY RETRACTED)	mm	2312
	A1. TRACK GAUGE (FULLY EXTENDED)	mm	4510
	B. TRACK LENGTH	mm	10520
	C. DISTANCE BETWEEN IDLER & SPROCKET	mm	9860
	D. TRACK LENGTH ON HARD GROUND	mm	4175
	D1. TRACK LENGTH ON SOFT GROUND	mm	8215
	E. WIDTH TRACK SHOE	mm	1000
	E1. WIDTH FLOAT	mm	1500
	F. DISTANCE BETWEEN SHOE INSIDE (FULLY RETRACTED)	mm	500
	F1. DISTANCE BETWEEN SHOE INSIDE (FULLY EXTENDED)	mm	2700
	G. OVERALL MACHINE WIDTH (FULLY RETRACTED)	mm	3500
	G1. OVERALL MACHINE WIDTH (FULLY EXTENDED)	mm	5700
	H. OVERALL MACHINE HEIGHT	mm	3760
	I. GROUND CLEARANCE (COUNTERWEIGHT)	mm	1920
	J. MIN. GROUND CLEARANCE	mm	1125
	K. SHOE SETTING HEIGHT	mm	1800
	L. CRAWLER HEIGHT	mm	1880
	M. WATER LINE LEVEL	mm	1280
	N. MIN SWING RADIUS	mm	2130
	O. CABIN WIDTH	mm	2540
ADDITIONAL DIMENSIONS (SIDE PONTOON)	P. SIDE PONTOON LENGHT	mm	6000
	Q. SIDE PONTOON WIDTH	mm	1000
	R. SIDE PONTOON HEIGHT	mm	1000
	S. SPUD LENGHT	mm	6000
	T. OVERALL MACHINE WIDTH (FULLY RETRACTED)	mm	5555
	T1. OVERALL MACHINE WIDTH (FULLY EXTENDED)	mm	7755

## Technical Dimension

\*\*Dimension Are Based On  
12.5m Long Reach Arm &  
0.4m3 GP Bucket.

\*\*Specification Are Subject To  
Change Without Prior Noticed.

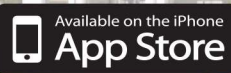
Retracted position -  
Transportation purpose.

Extended position -  
Operating purpose.



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Plo 229, Jalan Kencana Mas 2,  
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# **AT 120ER / AT 120ERPS**



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- Sludge clearing of lakes, ponds & water reservoir.
- Digging trenches for oil & gas piping installation.
- Transporting & clearing landslide & flood hit area.
- Swamps and wetlands construction.
- Road construction through wetlands.

Ultratrex AT 120ER / AT 120ERPS amphibious hydraulic undercarriage technical specification:

1. Amphibious undercarriage hydrostatic drive.

Brand: DOOSAN

Type: Hydrostatic drive with integrated hydraulic 2 speed motors.

Working pressure: 350kgf/cm<sup>2</sup>.

Output torque: 2151kgfm.

2. Amphibious undercarriage construction: Anti corrosion steel plate, Material code: SMA 490.

Each amphibious undercarriage is equipped with 3 independent water tight compartments. The bottom of amphibious undercarriage is reinforced.

3. Track Chains

Triple strands track chain per amphibious undercarriage. Pitch: 152.4mm.

The track chain rollers are running on Hardox 400, 10mm thickness wear plates.

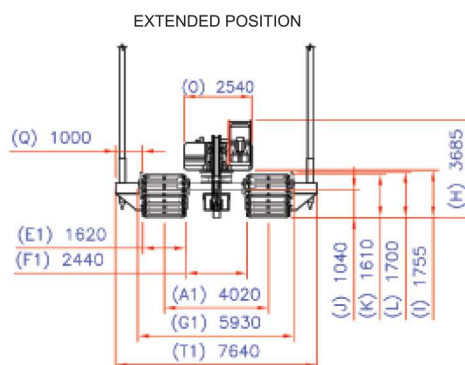
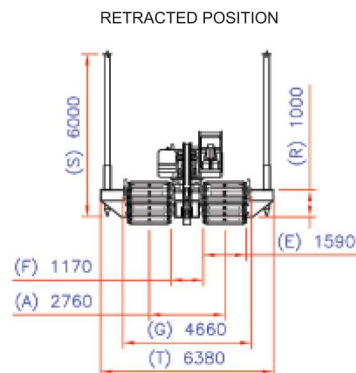
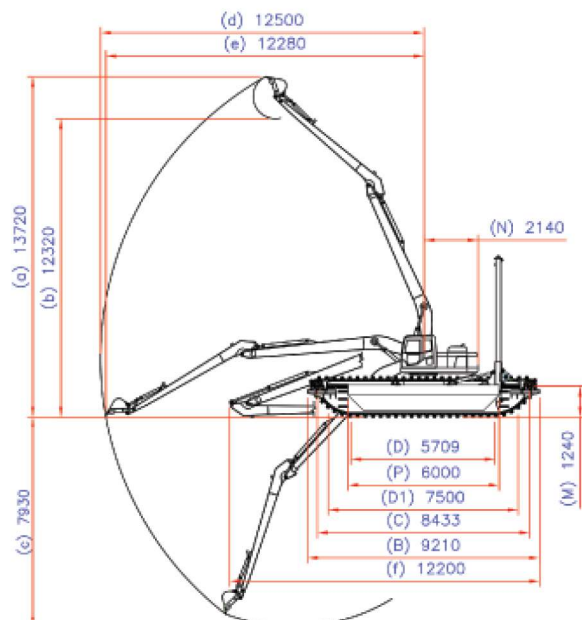
4. Gradeability: 30 degree.

5. Operating weight

25 tons. (Including hydraulic excavator upper body and 12.5 meter Long Reach Arm).

6. Warranty

10,000 hours warranty on the UHMWPE (Ultra-High-Molecular-Weight Polyethylene) track plates against cracks.



ITEM		UNIT	VALUE
BASE MACHINE		12TON EXCAVATOR	
TOTAL WEIGHT	WITHOUT SIDE PONTOON	Kg	24500
FLOAT CAPACITY		m <sup>3</sup>	30
FLOAT CAPACITY/TOTAL WEIGHT		M <sup>3</sup> /ton	1.22
MAXIMUM TORQUE MOTOR		kgf-m	1850
GROUND PRESSURE		KG/cm <sup>2</sup>	0.16
TRAVEL SPEED	HI	km/H	4.2
	LO	km/H	2.3
MAXIMUM GRADIENT		°	30
WORK EQUIPMENT	BOOM LENGTH	mm	7050
	ARM LENGTH	mm	4970
	BUCKET CAPACITY	m <sup>3</sup>	0.4
WORKING RANGE	a. MAX. DIGGING HEIGHT	mm	13720
	b. MAX. DUMPING HEIGHT	mm	12320
	c. MAX. DIGGING DEPTH	mm	7930
	d. MAX. DIGGING REACH	mm	12500
	e. MAX DIGGING REACH ON GROUND	mm	12280
	f. TOTAL LENGTH DURING PARKING	mm	12200
DIMENSIONS	A. TRACK GAUGE (FULLY RETRACTED)	mm	2760
	A1. TRACK GAUGE (FULLY EXTENDED)	mm	4020
	B. TRACK LENGTH	mm	9210
	C. DISTANCE BETWEEN IDLER & SPROCKET	mm	8433
	D. TRACK LENGTH ON HARD GROUND	mm	5709
	D1. TRACK LENGTH ON SOFT GROUND	mm	7500
	E. WIDTH TRACK SHOE	mm	1590
	E1. WIDTH FLOAT	mm	1620
	F. DISTANCE BETWEEN SHOE INSIDE (FULLY RETRACTED)	mm	1170
	F1. DISTANCE BETWEEN SHOE INSIDE (FULLY EXTENDED)	mm	2440
	G. OVERALL MACHINE WIDTH (FULLY RETRACTED)	mm	4660
	G1. OVERALL MACHINE WIDTH (FULLY EXTENDED)	mm	5930
	H. OVERALL MACHINE HEIGHT	mm	3685
	I. GROUND CLEARANCE (COUNTERWEIGHT)	mm	1755
	J. MIN. GROUND CLEARANCE	mm	1040
	K. SHOE SETTING HEIGHT	mm	1610
	L. CRAWLER HEIGHT	mm	1700
	M. WATER LINE HEIGHT	mm	1240
	N. MIN SWING RADIUS	mm	2140
	O. CABIN WIDTH	mm	2540
ADDITIONAL DIMENSIONS (SIDE PONTOON)	P. SIDE PONTOON LENGTH	mm	6000
	Q. SIDE PONTOON WIDTH	mm	1000
	R. SIDE PONTOON HEIGHT	mm	1000
	S. SPUD LENGTH	mm	6000
	T. OVERALL MACHINE WIDTH (FULLY RETRACTED)	mm	6380
	T1. OVERALL MACHINE WIDTH (FULLY EXTENDED)	mm	7640

## Technical Dimension

\*\*Dimension Are Based On  
12.5m Long Reach Arm &  
0.4m<sup>3</sup> GP Bucket.

\*\*Specification Are Subject To  
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Retracted position -  
Transportation purpose.

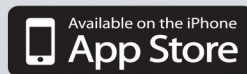
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