



ULTRATREX MACHINERY SDN. BHD.

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ULTRATREX MACHINERY SDN. BHD.



UTX, your trusted partner in shallow dredging equipment



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ISO 9001 : 2008

www.amphibousexcavator.com

About Us - Ultratrex's Journey

Ultratrex Machinery Sdn Bhd (formerly known as BHELLink Sdn. Bhd.) or commercially known as UTX is an identity of the leading producer of high performance and versatile range of amphibious excavators ranging from 5 to 40 tons. We are specialized in custom made and designing high quality amphibious undercarriages for various brands and models of excavators. UTX Machinery has been perpetual in the shallow dredging business due to the organisation's reliability and capacity to supply high quality and reasonably priced products. We also guarantee high workmanship being maintenance while producing the amphibious undercarriages.

To ensure our continued improvement in exceeding customers' requirements, we had a collaboration with Maruma Technica, Japan in innovatively designing and manufacturing the amphibious undercarriages in 2010. One of our model, AT80 is completely build in the Maruma's factory located in Nagoya.

Our business was established in 2008 and currently our manufacturing plant is located at Tebrau Industrial Area 3, in the metropolitan city of Johor Bahru.



Our manufacturing plant has three designated fabrication bays which had been equipped with the high tech equipment and machineries together with competent and well trained technical expertise and crew. Their commitment in working together to meet our customer's demand enable our trusted client to accomplish their project in the most effective and efficient way.

Proud to say that, Ultratrex Machinery Sdn Bhd is the first amphibious manufacturing company in the region that had successfully obtained ISO 9001 certification in 2011. We always believe that our clients are our valuable asset so we ensured that UTX Machinery complied with the company's system and customers' requirements are being met.

Meanwhile, in 2016 Ultratrex Machinery Sdn Bhd successfully been certified for integrated management system of ISO 14001 and OHSAS 18001.

What We Are Proud Of...

Our main and sole focus has and will always be – to manufacture high quality amphibious undercarriages, which we had and shall continue our fabrication to meet and exceed user's expectations. Our records show that 90% of all orders we received for amphibious undercarriages are completed within the promised timeline. Our products have been delivered world widely to more than 20 countries.

Safety!!! Yes, we fabricate varieties of amphibious undercarriages with added safety feature. Besides the safety features, we provide site installation, testing, commissioning and training to all our first time customers.

UTX amphibious excavators are specially built to withstand the harshest of environments. Extreme terrains like swamp land and water logged river basins will not bogged down your excavator. Tested with built-in features in mind and the ability of advance designed pontoons to ensure effective flotation, our range of amphibious excavators can endure any repeated environmental abuses you can just throw at it. At UTX, customers are given priority in requesting special built machine to suit their necessity in order to overcome the environmental conditions at their site and we'll go out of its way to custom build the said machinery for you!

UTX's excavators are designed to be fully functional, modular, stable, and cost effective. Each modular part can be detached and shipped out to different destinations countless of the distance with minimum costs. We can assured that our clients will have the confidence in buying a machine that gives maximum uptime and lowest operating cost in any environment.



Ultratrex's Successes



As we had sustained a potential position in the market and gained our respective customer's trust, thus we had moved further on to build mutual co-operation with a well-known dredging producer, Bell Dredging Pump B.V. in Netherlands. The high demand in shallow water dredging equipment (higher volume & longer discharge distance) of amphibious excavator had encourage us for this collaboration.

A few words about our latest venture:

The conventional work method of amphibious excavator is using bucket, with the partnership of Bell Dredging Pump B.V. in Netherlands, we'll replace the conventional bucket with amphibious dredger which fitted with a high performance hydraulic cutter suction dredging pump. This amphibious dredger has been proven to work effectively on river sand mining, ponds clearing and shallow water dredging. These combination, had helped our customers tremendously in term of higher productivity and cost saving depending on their jobs at the project site.



Our Vision, Mission & Value

Vision

To be the leading solution provider of shallow water dredging equipment with continuous improvement and well maintenance backup services.

Mission

Ultratrex Machinery Sdn Bhd enables business partners to be more productive by providing customized solution and competitive equipment in the shallow water dredging area.

Value

Customers are assured with these values when engaging Ultratrex Machinery Sdn Bhd as your trusted partner:

- **Functionally** designated
- **Efficiency** enhanced
- **Affordability** price
- **Reliability** assured

Ultratrex Machinery, Your Trusted Partner

Our committed team can tackle and provide solutions to meet your need and exceed your expectation with a reasonable quoted price, unlimited efficiency and limited downtime. We pride ourselves in keeping promises to our customers.

We are also capable of customizing your orders to suit various environments and working conditions. Our after-sales service team can give support in technical training and are always ready to assist our business partners in achieving the efficiency.

With shipments to all over the world, UTX will endeavour to supply spare parts and technical services to any destinations in the world within the quickest time. Ultimately, it is the uptime of your machine that UTX is most concerned about. Without no worries, you can be assured that we, from Ultratrex Machinery Sdn Bhd will not fail to treat all of our clients with utmost respect. Our customers are our aspirations to excel in our business.

Amphibious Excavator

An Amphibious Excavator is specially designed to work in swampy, wet land and shallow water. Our well designed Amphibious Undercarriages provides great mobility to work on soft terrains and swampy area.

Standard package of Ultratrex's Amphibious Excavator is attached with long reach arm c/w conventional excavator bucket.

Amphibious Undercarriage has proven to work effectively on the following areas:

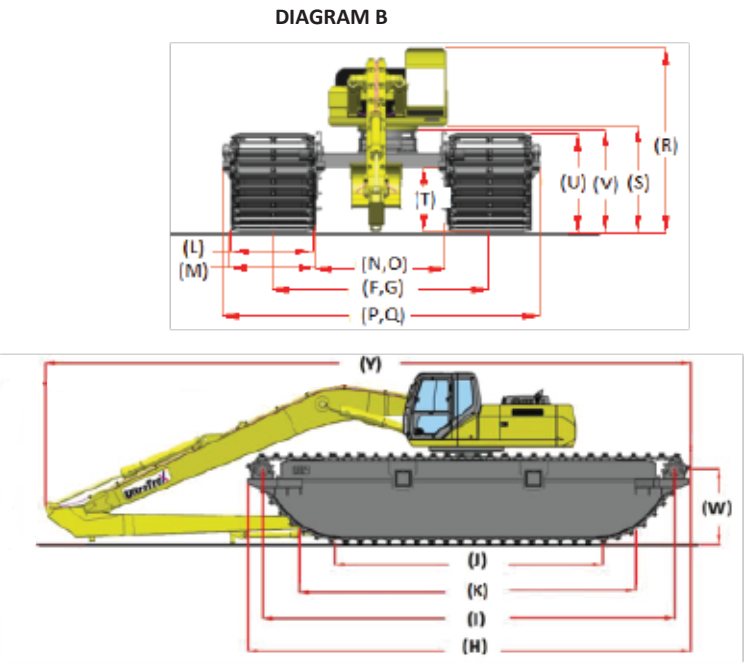
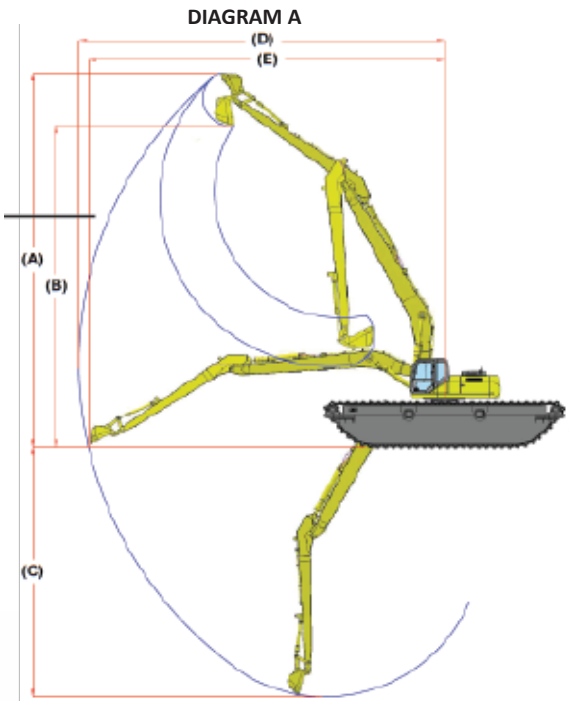
- 1) Swamp land clearing at mining, plantation and construction area.
- 2) Deepening of canal, river channel and river mouth.
- 3) Building bund for flood prevention and land reclamation.
- 4) Building bund wall for fish, shrimp ponds and salt making industry.
- 5) Clearing of lakes, ponds and water reservoir.
- 6) Digging trenches for oil & gas piping installation.
- 7) Clearing obstacles at landslide and flood hit area.
- 8) Water irrigation at paddy field and plantation.

Optional items:

- 1) Additional side pontoons c/w 6 meter of hydraulic spuds. These optional items are required if the water draft of the site working condition is between 2 to 3.5 meters.



Model

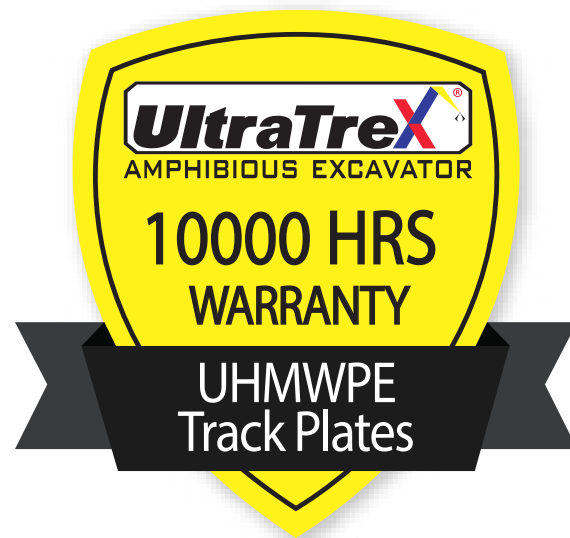


PRINCIPAL SPECIFICATIONS & DIMENSION

Item	Description	Unit	Amphibious Undercarriage Models						
			AT50 Class 5-6 ton excavator	AT90 Class 7-8 ton excavator	AT120 Class 10-14 ton excavator	AT200 - V2 Class 20-24 ton excavator	AT300 Class 28-33 ton excavator	AT400 Class 40-45 ton excavator	AT500
1)	Total Weight	KG	12500	15000	28000	32000	45000	58000	
2)	Float Capacity	m3	14	22	38	40	60	72	
3)	Float Capacity/Total Weight	m3/ton	1.12	1.47	1.36	1.25	0.75	1.24	
4)	Maximum Torque Motor	Kgf-m	1250	1835	1850	3059	3480	3480	
5)	Ground Pressure	KG/cm2	0.178	0.11	0.18	0.18	0.15	0.15	
6)	Travel Speed (HI)	KM/h	4.2	4.2	4.2	3.6	3.2	3.2	
	Travel Speed (LO)	KM/h	2.2	2.3	2.3	2.3	1.8	1.8	
7)	Maximum Gradient	Deg	30	30	30	30	30	30	
Work Equipment									
8)	Boom Length	mm	3850	5345	7050	7750	9520	9727	
9)	Arm Length	mm	2000	3320	4970	5150	6650	6650	
10)	Bucket Capacity	m3	0.16	0.3	0.4	0.5	0.9	1.1	
Working Range									
A)	A. Max Digging Height	mm	8130	10230	13420	14360	17460	16900	
	B. Max Dumping Height	mm	6430	8470	11765	12260	14790	14260	
	C. Max Digging Depth	mm	3895	5195	7915	8250	10755	11335	
	D. Max Digging Reach	mm	7450	9275	12525	13500	17000	17140	
	E. Max Digging Reach on Ground	mm	7085	9020	12345	13250	16690	16815	
Dimensions									
B)	F. Track Gauge (F.R)	mm	1970	1900	2385	2760	4405	5100	
	G. Track Gauge (F.E)	mm	2790	3600	4585	4020	4405	5100	
	H. Track Length	mm	6583	8640	10700	9375	10465	10670	
	I. Distance Between Idler	mm	5791	7925	10035	8660	9700	9802	
	J. Track Length On Hard Ground	mm	3367	5100	3000	5700	6835	6650	
	K. Track Length On Soft Ground	mm	5810	5940	8215	7735	7835	8310	
	L. Width Track Shoe	mm	1040	1260	1130	1590	1775	2040	
	M. Width Float	mm	1070	1300	1500	1620	1807	2100	
	N. Distance Between Pontoon (F.R)	mm	900	600	555	1170	2630	3000	
	O. Distance Between Pontoon (F.E)	mm	1720	2300	2755	2440	2630	3000	
	P. Overall Machine Width (F.R)	mm	3040	3200	3555	4575	6212	7200	
	Q. Overall Machine Width (F.E)	mm	4080	4900	5755	5815	6212	7200	
	R. Overall Machine Height	mm	3520	3580	3760	4050	4756	4485	
	S. Ground Clearance (Co. Weight)	mm	1598	1690	1920	2215	2520	2520	
	T. Min. Ground Clearance	mm	990	1115	1125	1250	1610	1610	
	U. Shoe Setting Height	mm	1548	1645	1800	2030	2295	2295	
	V. Crawler Height	mm	1580	1775	1870	2215	2370	2370	
	W. Water Line Height	mm	1130	1065	1510	1620	1880	1880	
	X. Min Swing Radius	mm	1430	1750	2140	2750	3213	3645	
	Y. Overall Length	mm	7010	10355	13020	13045	15150	15290	

*Dimension are for references only, it might be differ and depend on the brands or model of the excavator.
**Specification are subject to change without prior noticed

Warranty



Ultra-high-molecular-weight polyethylene (UHMWPE), an odorless, tasteless, and non-toxic material which contains:

- ultra-high molecular weight
- high wear resistance
- high abrasion resistance
- high impact strength

Our own designed UHMWPE track plates enhanced the machines performance with:

- a) Long lifespan for the track chain drive system due to the flexibility
- b) Minimum maintenance of the track plates
- c) Lighten and speedup the machine movement on swampy land & water

Ultratrex, the only company who warranty the UHMWPE track plates up to **10000 hours** against cracks.

Amphibious Dredger

An amphibious dredger is an amphibious excavator fitted with a high performance hydraulic driven cutter suction dredging pump. It is proven to work effectively on river sand mining, ponds clearing & shallow water dredging whereby a long discharge distance & high productivity is required.



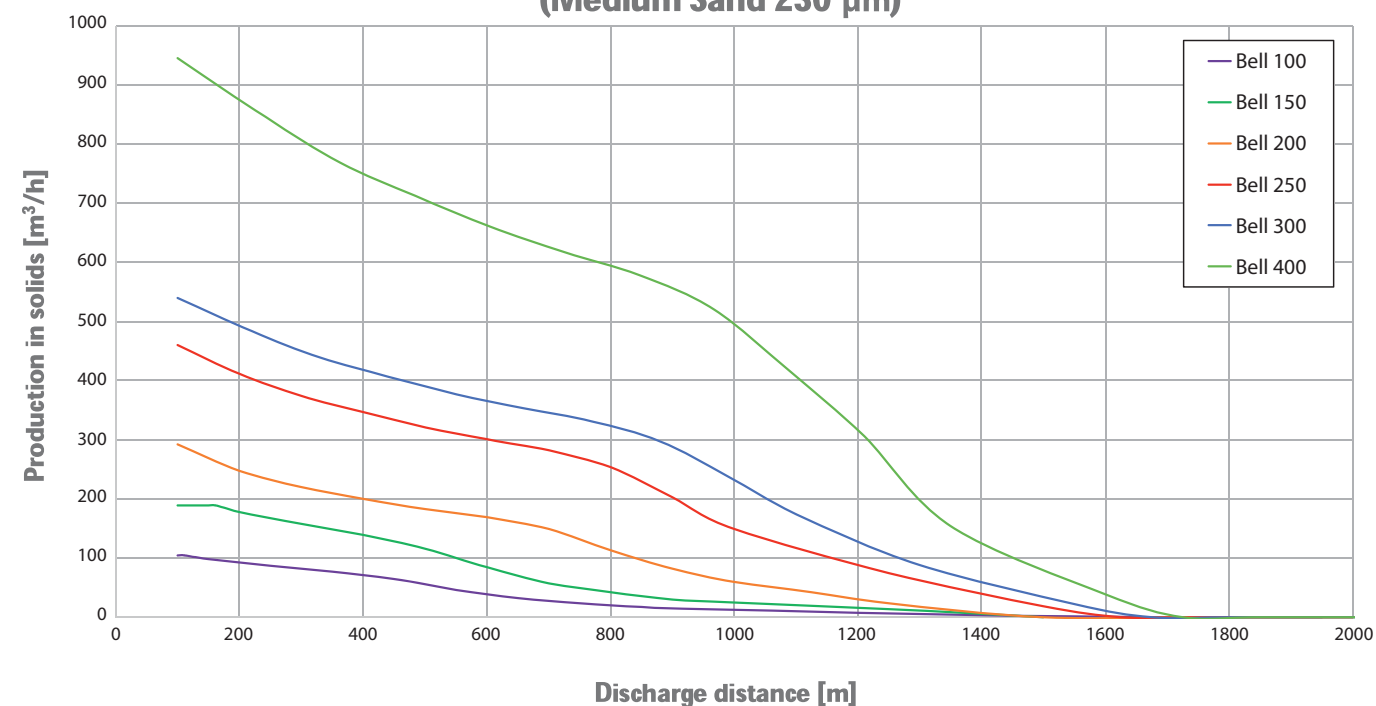
Bell Cutter Suction Dredging Pump

SPECIFICATION

	Units	BELL 100	BELL 150	BELL 200	BELL 250	BELL 300	BELL 400
Mixture capacity max	m³/h	300	500	800	1250	1800	3150
Pump speed approx.	rpm	1350	1300	1200	900	750	600
Max power at shaft	kW	30	75	110	190	300	500
Suction bore	Ømm	100	150	200	250	300	400
Discharge piping	Ømm	100	150	200	250	300	400
Spherical passage	mm	50	75	125	130	155	210
Weight (hydraulic, without head)	kg	550	950	1200	2000	3500	7750
Weight (electric, without head)	kg	1000	1375	1900	2900	4600	9150
Hydraulic Pressure	bar	250	250	250	250	300	300
Hydraulic Flow	L/min	85	195	290	425	600	1000
Hydraulic Cutter flow	L/min	15-20	15-20	35-50	35-50	70-110	70-110

PRODUCTION

**PRODUCTION DIAGRAM BELL PUMPS
(Medium Sand 230 µm)**



Ultratrex Sectional Barge



Ultratrex sectional barge can be easily mobilized / transported by trucks. This has helped customers on the inland rivers & lakes dredging project.

We design and manufacture sectional barge according to customer requirement.

Benefits of Ultratrex sectional barge:

- 1) Modular & interlocking with additional sectional barge.
- 2) Designed to be containerized & truckable.
- 3) Costumed make according to customer requirement.

Application:

- 1) Storage Barge Transporter for shallow water dredging (Lake, reservoir & inland river)
- 2) Floating platform.
- 3) Excavators, cranes & bridge construction machinery working platform

