



# AMPHIBIOUS EXCAVATORS

2017



AMPHIBIOUS EXCAVATORS

member of **DIESEKO GROUP**





## Bell Dredging Pumps



Bell Dredging Pumps is specialized in designing and manufacturing amphibious undercarriages for hydraulic excavators. We are also specialized in manufacturing dredging pumps, cutter suction dredgers and many other equipment used in the dredging industry.

Due to high demand for our products and offering better service to our customers, we have set up 3 overseas sales and after-sales support offices since 2008. These offices are equipped with workshop, training- and spare part distribution centres. These offices are located in Asia, the Middle-East and Africa. There are more regional offices in the pipe line so that we can offer an even better service to our customers.

Our team of after-sales service & support and technical training are always ready to assist our business partners in achieving maximum efficiency and minimum downtime.







## OVERVIEW

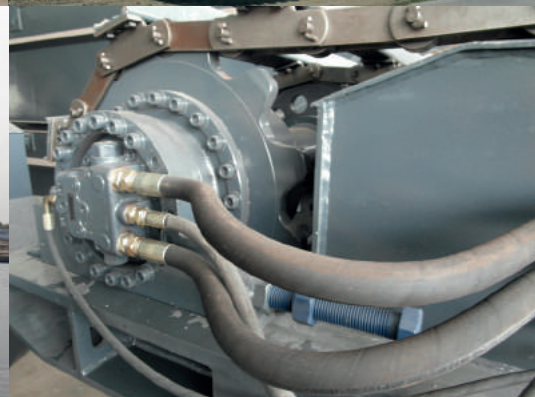




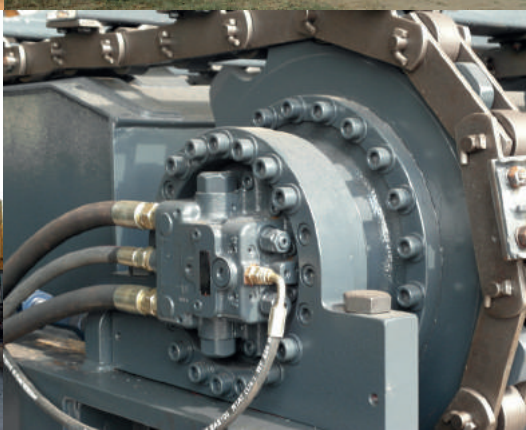
Product design is accomplished by utilizing the latest CAD software, simulated via advanced Finite Element Analysis (FEA) tools, ensuring optimum design integrity. BELL Engineering is committed to be leading in innovation and quality manufacturing to meet every customer's needs. Our goal has been and will be to further capitalize on our over 30 years of experience as a contractor in the construction industry prior to venturing into attachment design and manufacturing. We strive to be your supplier of choice with best in class quality, workmanship and outstanding customer service. We believe we are in the best position to produce functionally superior and practical attachments that customers desire, all at the best value.







# PRODUCTION AND MAINTENANCE

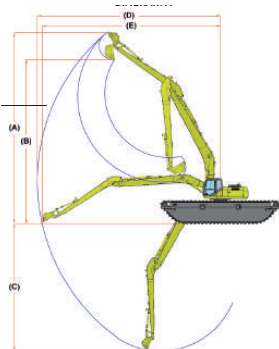




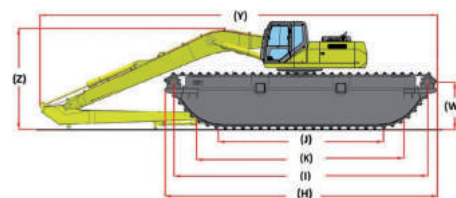
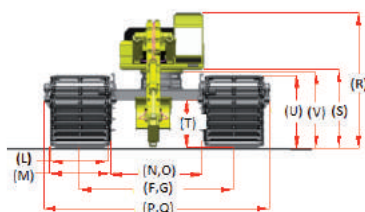
A BELLTREX is an Amphibious Excavator that is designed for working in harsh environments like water bogged soft grounds, swampy lands and shallow waterways. The excavator is fitted with large pontoons. If need be, the BELLTREX can even float in the water like a boat and it can also be propel by its own power on the waterway. When deep water ways are encountered, additional pontoons can be added for more buoyancy. BELLTREX is most effective when it works in areas

where the water depth is less than 1.8 meter. For water depth more than 1.8 meter, additional Vice Pontoon with Spuds is required. Because you will never be sure of the water depth of your workplace, fitting the BELLTREX with extra large pontoons will make your work safe. It also reduces downtime of the machine as you do not need to stop to change the size of the floaters. Either way, the BELLTREX will give you the best ROI in its class.

**Diagram A**



**Diagram B**



## PRINCIPAL SPECIFICATIONS & DIMENSION

Item	Description	Unit	Amphibious Undercarriage Models					
			BELL50 Class 5-6 ton excavator	BELL80 Class 7-8 ton excavator	BELL120 Class 10-14 ton excavator	BELL200 Class 20-24 ton excavator	BELL300 Class 28-36 ton excavator	BELL400 Class 40-45 ton excavator
1	Total Weight (Hollow/UHMPE Trackshoe)	KG	12500/11750	16000/15000	24500/22750	32000/30000	45000/43000	48530
2	Float Capacity	m <sup>3</sup>	15	21	30	40	60	65.6
3	Total Weight/Float Capacity (Max)	Ton/m <sup>3</sup>	0.83	0.76	0.82	0.80	0.75	0.74
4	Maximum Torque Motor	Kgf-m	1250	1250	1850	2616	3480	3800
5	Ground Pressure (Soft Ground)	KG/cm <sup>2</sup>	0.10	0.12	0.12	0.13	0.15	0.12
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	2.2	2.3	2.3	1.8	1.8
7	Maximum Gradient	Deg	30	30	30	30	30	35
Work Equipment								
8	Boom Length	mm	3850	4600	7250	7750	9100	10600
9	Arm Length	mm	1640	2600	5125	5150	6200	5000
10	Bucket Capacity	m <sup>3</sup>	0.16	0.3	0.4	0.5	0.9	1.4
Working Range								
A	A. Max Digging Height	mm	6900	9570	13720	14360	17035	15310
	B. Max Dumping Height	mm	5185	7440	12320	12260	14545	12000
	C. Max Digging Depth	mm	2845	4980	7930	8250	10150	11240
	D. Max Digging Reach	mm	6220	9000	12500	13500	16000	17000
	E. Max Digging Reach on Ground	mm	5805	8780	12280	13250	15725	15330
Dimensions								
B	F. Track Gauge (Fully Retracted)	mm	1970	2200	2760	2760	3805	4680
	G. Track Gauge (Fully Extend)	mm	2790	3020	4020	4020	4405	
	H. Track Length	mm	6583	7710	9210	9520	10670	10640
	I. Distance Between Idler	mm	5790	6910	8433	8790	9802	9900
	J. Track Length On Hard Ground	mm	3367	4275	5710	5700	6650	7100
	K. Track Length On Soft Ground	mm	5810	6825	7150	7735	8310	10145
	L. Width Track Shoe	mm	1040	1270	1590	1590	1775	2000
	M. Width Float	mm	1070	1300	1620	1620	1807	2025
	N. Distance Between Pontoon (Fully Retracted)	mm	900	900	1170	1170	2030	2680
	O. Distance Between Pontoon (Fully Extend)	mm	1720	1720	2440	2440	2630	
	P. Overall Machine Width (Fully Retracted)	mm	3300	3760	4660	4660	5950	7200
	Q. Overall Machine Width (Fully Extend)	mm	4120	4580	5930	5930	6550	
	R. Overall Machine Height (Cabin)	mm	3500	3500	3685	4050	4435	4450
	S. Ground Clearance (Counterweight)	mm	1655	1655	1755	2120	2520	2460
	T. Min. Ground Clearance	mm	990	990	1040	1250	1610	1640
	U. Shoe Setting Height	mm	1550	1550	1610	1920	2295	2220
	V. Crawler Height	mm	1580	1580	1700	2035	2370	2355
	W. Water Line Level	mm	1130	1150	1185	1510	1880	1850
	X. Min Swing Radius (Counterweight)	mm	1060	1576	2140	2750	3500	3605
	Y. Overall Length	mm	7010	7100	12290	13100	14900	17180
	Z. Height of Boom (Transportation)	mm	2700	2700	2850	3450	4000	5240

\*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



# SPUDLEGS



A BELLTREX is an Amphibious Excavator that can travel and work safely on soft terrain such as swamp, wet land and shallow water. It can float in the water like a boat.

BELLTREX is Most Effective when it works in areas where the water depth is less than 1.8 meter. For water depth more than 1.8 meter, additional Side Pontoon with Spuds is required.







SPECIALS

## BELL 300 AMPHIBIOUS SELF-PROPELLED DRILLING MACHINE

### Hydraulic power pack general data

Engine model	John Deere 4045 HFG 82
Engine power	115 kW
Displacement	4,5 L
Total weight	2000 kg
Height	8 m
Length	11.5 m
Width	8.6 m

### Platform

Total weight	5760 kg
Height	145 mm
Length	10.5 m
Width	650 mm



## AMPHIBIOUS UNDERCARRIAGE

- Heavy duty undercarriage
- Fully floatable
- 3 track chains per pontoon
- 2 hydraulic motors per pontoon
- PE track plates







## SPARES AND SERVICES

### After sales department:

- Components with short delivery time
- Complete package of spare parts
- Registration of components
- Advice and support
- Dedicated team involved from order to shipment

### Bell Field Service:

- Post delivery support
- Warranty and after sales services
- Training courses (in house and on site)
- Technical check-ups
- Service in remote areas









MORE INFORMATION:  
**BELLDREDGINGPUMPS.COM**

member of **DIESEKO GROUP**

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**Dealer:**

