

## ***BAEKKUN AMPHIBIOUS DREDGER***

Baekkun cutter

Excavator bucket

Clamshell bucket

Rake

Wide bucket





## BAEKKUN AMPHIBIOUS DREDGER



### · Baekkun cutter

- Sludge pumping capacity: 900m<sup>3</sup>/hr with BKAD200



### · Excavator bucket

- for excavation work
- 600L with BKAD200



### · Clamshell bucket

- For excavating polluted materials - seals the materials inside the bucket



### · Rake

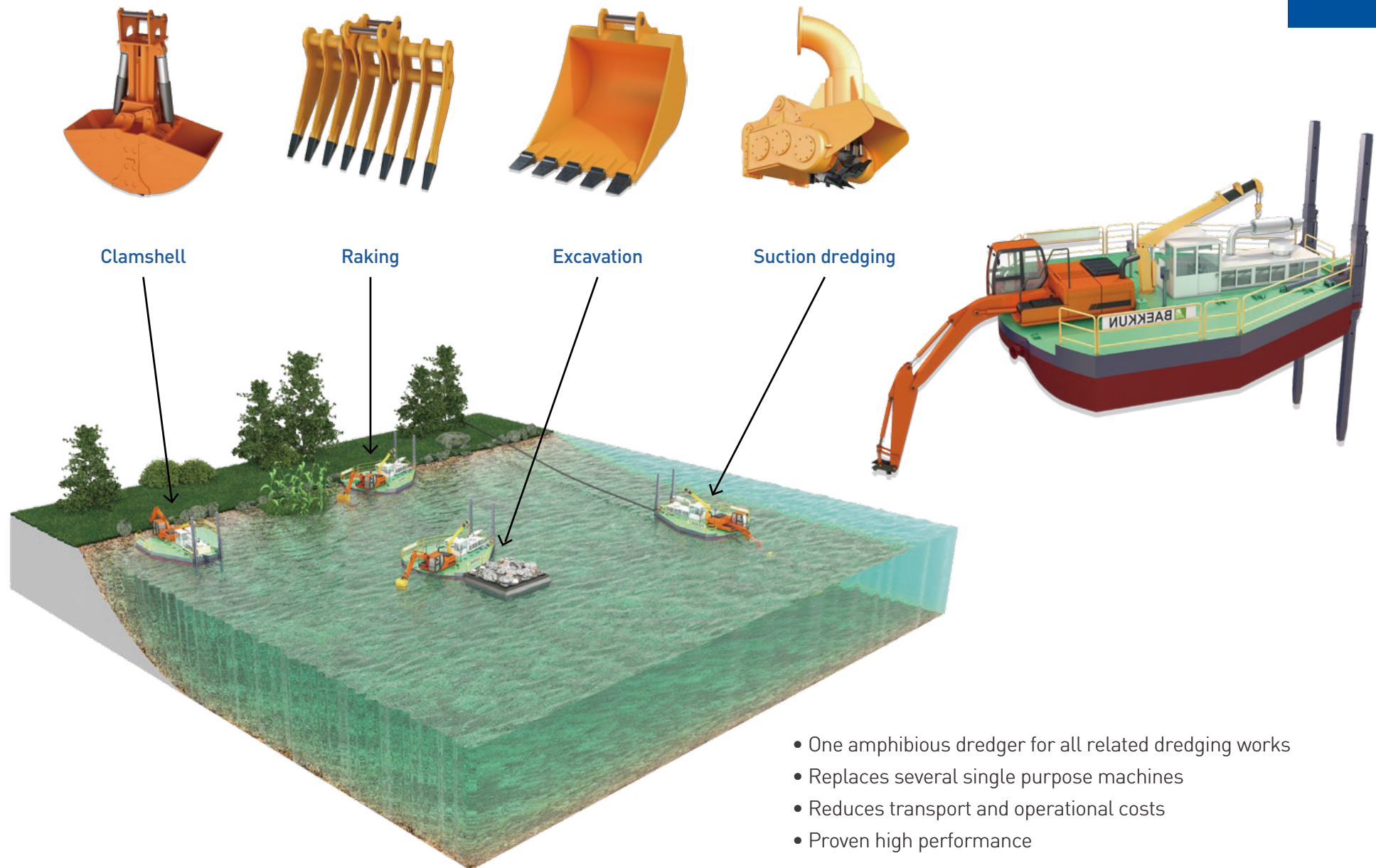
- For removal of reeds, roots and other vegetation
- For cleaning trashes from the bottom in and out of water
- Width: 1.59 m



### · Wide bucket

- Volume: 1,000 L





Transport - on a trailer



Self Loading-Unloading - using hydraulic spuds



Amphibious - Caterpillar & Propeller



Pump Dredging - Baekkun cutter



Bucket Dredging - multipurpose for excavating



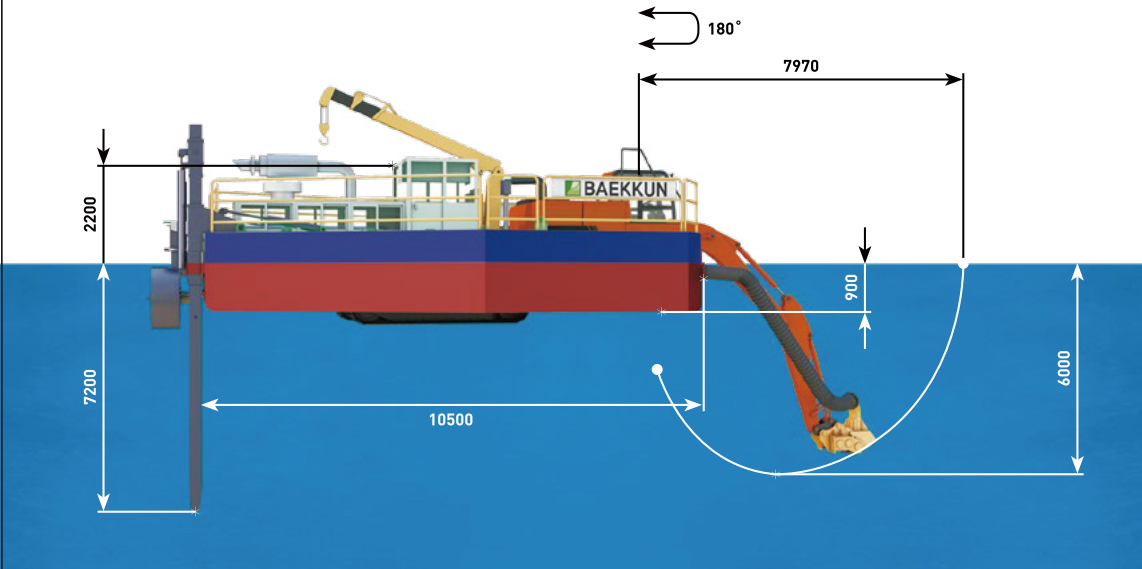
Work - without winches, wire-cables and assisting vessels



Test by KR(Korean Register) - member of IACS(International Association of Classification Societies)







## BAEKKUN AMPHIBIOUS DREDGER (BKAD200)

### Engine

- Rated output : M-rating 257kW(350HP)/1,950rpm
- 6-cylinder, direct injection, heat exchanger cooling
- Turbocharger + intercooler models

### Excavator

- Engine Power : SAE J1349, net / 71 kw(95 HP)@1,850 rpm
- Bucket capacity(SAE) : 0.24 ~ 0.76 m<sup>3</sup>

### Dredge Pump

- 8 inch
- Suction Diameter: 250mm, Discharge Diameter: 200mm
- Delivery: 600m<sup>3</sup>/h, Delivery Head: 40m/WS, Pump Speed: 650-720rpm

### Service Crane

- Load capacity: 2.50tons/3.10m

### Hydraulic system

- 4(four) spuds, propeller, caterpillar and service crane are worked by hydraulic system

### Characteristic Features

- Amphibious function in and out of water
- Self-loading and self-unloading to/from a trailer
- Side pontoons and suction hose can be assembled by its own crane
- Many attachments (cutter, suction hood, rake bucket, wide bucket etc.) are available
- Self-propelled

### Certified Quality

- Quality Certificate : ISO 9001 by KR
- Environmental Certificate: ISO 14001 by KR
- Welding Certificate: ISO 3834 by KR

# CUTTER SUCTION DREDGER

## Amphibian Type

Model (inch)



BKAD200  
10"\*8"



BKAD250  
12"\*10"



BKAD300  
14"\*12"



BKAD350  
16"\*14"

### PRINCIPAL DIMENSIONS

Length over all (including excavator)	15.30 m	15.30 m	16.00~17.00 m	17.50~18.00 m
Length over pontoons	10.50 m	10.50 m	11.00~12.00 m	12.50~13.00 m
Breadth	8.36 m	8.40 m	8.50~9.50 m	9.50~10.00 m
Transport width	3.36 m	3.40 m	3.50 m	3.50 m
Height(over all)	3.40 m	3.40 m	3.40 m	3.40 m
Draught (bunkers full, approx)	0.90 m	0.90 m	0.90 m	0.90 m
Total weight (approx)	45 tons	50 tons	55tons	60tons

### DREDGING FEATURES

Min/max dredging depth (option)	0.00/6.00[12.00]m	0.00/6.00[12.00]m	0.00/6.00[12.00]m	0.00/6.00[12.00]m
Maximum mixture capacity	900 m³/h	1,050 m³/h	1,530 m³/h	1,800 m³/h
Minimum discharge distance	700 m	1,000 m	1,500 m	1,800 m
Bucket capacity	0.2~0.6 m³	0.2~0.6 m³	0.4~0.6 m³	0.6~0.8 m³

### DREDGING INSTALLATION

Suction/discharge diameter	250/200 mm	300/250 mm	350/300 mm	400/350 mm
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### ENGINE INSTALLATION

Total installed power	250 PS	350 PS	800 PS	1,200 PS
Continuous power rating	1,800~2,000 rpm	1,800~2,000 rpm	1,800~2,000 rpm	1,800~2,000 rpm

### DECK MACHINERY

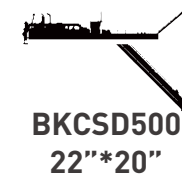
Service Crane	Service Crane	Service Crane	Service Crane
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# CUTTER SUCTION DREDGER

## Ladder Type

Model (inch)



### PRINCIPAL DIMENSIONS

Length over all (including ladder)	33.15 m	38.50 m	60.00m
Length over pontoons	22.50 m	25.50 m	49.30 m
Height (Beam over all)	6.95 m	7.95 m	9.50 m
Depth	1.80 m	2.00 m	2.50 m
Draught (bunkers full, approx)	1.15 m	1.00 m	1.40 m
Total weight (approx)	115 tons	140 tons	535 tons

### DREDGING FEATURES

Min/max dredging depth (ladder angle 5°/45°)	1.50/12.00 m	2.50/14.00 m	3.0/18.00 m
Dredging width (40° swing angle/max depth)	34.00 m	39.60 m	62.80 m
Maximum mixture capacity	3,000 m³/h	3,600 m³/h	6,000 m³/h

### DREDGING INSTALLATION

Suction/discharge diameter	500/450 mm	550/500 mm	700/650 mm
Cutter power	110 kW	180 kW	600 kW

### ENGINE INSTALLATION

Total installed power	2,400~2,600 PS	3,000 PS	4,500 PS
Continuous power rating	900~1,200 rpm	900~1,200 rpm	900 rpm
Fuel oil tank capacity (approx 100 running hrs)	2x 9.4 m³	2x 11.0 m³	4x 17.0 m³

### DECK MACHINERY

Ladder hoisting	winch 80kN, 0-15m/min	winch 120kN, 0-15m/min	winch 270kN, 0-15m/min
Side wire winches(2x)	80kN, 0-15m/min	120kN, 0-15m/min	270kN, 0-20m/min
Spud hoisting (2x)	hydr. Cylinder, stroke 1.5 m	hydr. Cylinder, stroke 1.5 m	hydr. Cylinder, stroke 2 m



The best technology for dredging



192-2 Byeollyang-gil, Byeollyang-myeon, Suncheon-si, Jeollanam-do, Republic of Korea  
TEL. **+82.61.741.5110** FAX. **+82.61.741.5117**