

DREDGING PROFILE

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ABOUT US

Rotawn Energy and Logistics Services Limited was established in 2007 as an indigenous Nigerian company offering tailor made solutions to the Oil & Gas, Maritime and Government Sectors. These solutions and services cover marine solutions, dredging, construction and procurement & logistics.

We have invested heavily in our staff and strategic alliances. These alliances are bonded by a single focus, to develop skills & offer superior services within the company around industry standard policies.

OUR MISSION

We will continue to execute and provide solutions utilizing industry best practices and equipment in order to meet and surpass our clients' expectations. Our solutions are met with the highest standards and are value driven.



OUR VISION

To be the long-lasting partner of choice to our clients and become the industry leader for providing turn-key solutions to our clients.



OUR VALUES

We are proud to epitomise:
Uncompromising Integrity, Professional Competence, Safety, Highest Quality Standards, Cost Effectiveness.



KEY TEAM PLAYERS

We employ diverse, experienced management executives and consultants who understand the industry of our clients, related industry issues, and have an in-depth understanding of business applications.



SHORELINE PROTECTION

Rotawn specializes in the construction and maintenance of shoreline protection structures, including jetties, groins, seawalls, breakwaters, and bulkheads. These vital structures play a crucial role in safeguarding both coastlines and navigable water channels, even at depths of up to 100 meters.

Historically, jetties and groins were utilized perpendicular to the shoreline to mitigate the impact of erosion, effectively slowing the movement of sediment along vulnerable coastal areas.

At Rotawn, we have heavily invested in state-of-the-art marine equipment, ensuring a secure and efficient approach to shoreline protection. Our dedication to professional excellence is evident through our meticulous adherence to stringent safety protocols, recognized and valued by our clients. These measures are meticulously designed to ensure that our efforts contribute to shoreline preservation, rather than unintentional erosion.



SAND FILLING

As leaders in our respective fields, we have bridged the gap between the private and public sectors.

Our dedication extends to deploying appropriate Cutter Suction Dredger (CSD) and Booster equipment to optimize resource utilization and meet client project deadlines effectively.

This expertise is supported by our extensive inventory of spare parts, encompassing suction and discharge pipes, as well as various hydraulic and mechanical components.

Our established reputation speaks volumes about our ability to complete sand-filling projects with exceptional speed, establishing new standards for efficiency.



SAND STOCK PILING

In construction, hydraulic marine sands play a pivotal role as a crucial component in the aggregate mix used for concrete production. Builders and contractors rely on sands of diverse sizes and compositions to meet the specific requirements of their projects.

We can dredge various types of sand stockpiles to meet the needs of the construction industry. Strategic stockpiles have been pumped for various ventures.

This service is central to our activities. The sand stockpiling activities are backed up by adequate feasibility studies and economic viability tests.



CHANNEL CLEARING

In our range of dredging services, Rotawn has developed expertise in canalization, expanding into new areas such as harbor and waterway deepening, widening, and maintenance. Our proficiency extends to dredging access channels, eliminating sand waves, and addressing canal blockages.

The nature of canalization demands precise execution, and in this regard, our operations are conducted with meticulous attention to detail and an unwavering commitment to the highest standards of safety, quality, and environmental stewardship. These principles align seamlessly with the stringent requirements of the oil and gas industry.

Equipped with a variety of specialized machinery, we are ready to provide reliable, thoroughly tested, and professionally executed services that underscore our commitment to excellence.



DESILTING

Rotawn Energy & Logistics provides specialized desilting solutions designed to restore and maintain the hydraulic efficiency of waterways, ports, and industrial facilities. Over time, sediment accumulation can reduce navigable depth, restrict flow, and impair operational capacity. Our desilting operations employ advanced dredging equipment and hydrographic monitoring systems to safely and efficiently remove silt and debris while minimizing environmental impact.

We execute desilting works across navigation channels, jetties, intake basins, drainage systems, and reservoirs, ensuring the continued functionality of marine and civil infrastructure. Using GPS-guided dredgers and real-time depth profiling, our teams achieve precise material removal and optimized spoil management.

Rotawn's approach integrates environmental protection, operational safety, and technical accuracy, delivering long-term solutions that enhance waterway performance and support sustainable marine operations. Whether as part of maintenance dredging or standalone restoration projects, our desilting expertise reinforces Rotawn's commitment to efficient and eco-conscious marine engineering.



LAND RECLAMATION

Rotawn combines global experience with advanced technology to deliver precise geotechnical, geophysical, and dredging solutions for marine and coastal projects. Our services cover site investigations, reclamation, shoreline protection, and port maintenance. Using modern survey systems and numerical modeling tools, we analyze seabed conditions, sediment behavior, and hydrodynamic impacts to ensure safety, efficiency, and environmental compliance. From land reclamation to beach nourishment, Rotawn provides data-driven, sustainable marine engineering solutions built on technical excellence and operational reliability.



EQUIPMENTS

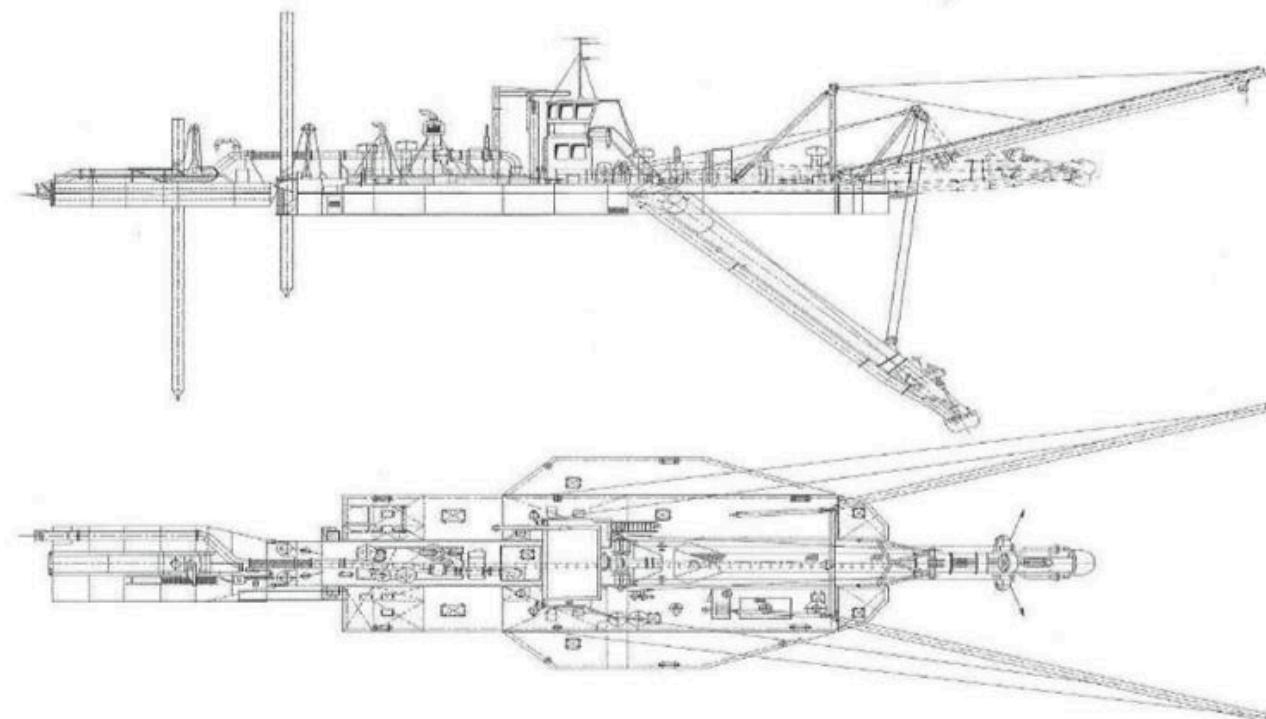
In collaboration with our partners, our plant yard is equipped with, but not limited to, the following equipment:

- 22 X 20 CS Dredger
- 18 x 18 CS Dredger
- 12 x 12 CS Dredger
- Pay loaders
- Excavators
- Bull Dozers
- Trailer Heads
- Short Dump Trucks
- Long Dump Trucks
- Utility Vehicles
- Low Beds
- Flat Beds
- Self-Loaders
- Crane
- Concrete Mixers
- Flood Lights

Our expertise in this field includes:

- Design, specification and supervision of dredging and reclamation works
- Dredging methods and equipment
- Navigation studies and maritime risk assessment
- Numerical hydrodynamic and sediment transport modeling
- Siltation studies
- Extraction of sands and gravels
- Reclamation design
- Ground treatment and monitoring instrumentation
- Bunds and revetments
- Environmental impact studies
- Contaminated sediments and spoil disposal studies.





GENERAL

Kind of vessel	: Cutter Suction Dredger
Type	: IHC Beaver 2000
Building yard - Dredger	: IHC Sliedrecht B.V., Sliedrecht
Building yard - Spudpontoon	: De Hoef B.V., Werkendam
Building year - Dredger	: 2001
Refit / Conversion	: 2014

REGISTRATION

Registered owner	: Paradigm Dredging
Sailing & dredging area	: Inland waters ONLY No propulsion - Sheltered Area
Flag	: Nigerian
Registration number	: -
MMSI number	: -
IMO number	: -
Call sign	: -
Gross tonnage	: 152
Net tonnage	: 45
Port of Registry	: Lagos

DIMENSIONS

Length over all	: 51.80 m
Breadth over all	: 14.14 m
Length between perpendiculars	: 29.00 m
Breadth moulded	: 14.10 m
Depth moulded	: 1.98 m
Draught - Light ship weight	: 1.36 m
Draught - Inland mark	: 1.74 m
Height vessel from keel to top of mast	: 12.00 m (spuds down)
Light ship weight	: 285 tons
Deadweight - Inland mark	: 95 tons
Displacement - Inland mark	: 380 tons

BUNKER CAPACITIES

Marine gas oil	: 63.7 m³
Fresh water	: 14.7 m³
Fuel type engines	: MGO (DMA)

CAPACITIES

Dredging depth - Minimum	: 1.85 m
Dredging depth - Normal	: 14.00 m
Dredging depth - Maximum	: 16.70 m
Dredging width - Minimum	: 23.00 m
Suction pipe - Diameter	: Ø 0.55 m
Delivery Pipe - Diameter	: Ø 0.50 m
Anchoring system	: 2 spuds & 2 anchors
Spud length	: 2 x 18.5 m
Spudcarrier stroke length	: 3.30 m
Required water depth for spud tilting	: -
Automatic dredge process system	: No

INSTALLED DIESEL POWER

Dredgepump engine	: 1 x Caterpillar - 3516 DI-TA
- power	: 883 kW
Hydraulic system engine	: 1 x Caterpillar - 3408 DI-TA
- power	: 268 kW
Jetpump engine	: 1 x Caterpillar - 3306 DI-T
- power	: 140 kW
Generator engine	: 1 x Caterpillar - 3306 DI-T
- power	: 140 kW
Total installed diesel power	: 1,431 kW

INSTALLED DREDGEPUMP & CUTTER POWER

Inboard dredgepump	: 1 x 883 kW
Underwater dredgepumps	: -
Jetpump	: 1 x 225 kW (as dustpan dredger)
Cutter power - Hydraulic	: 170 kW

INSTALLED PULLING FORCE WINCHES

Side winches	: 2 x 1-drum winch - 9 tons/drum
Ladder winch	: 1 x 1-drum winch - 10 tons/drum
Anchorboom winches	: 2 x 1-drum winch - 4 tons/drum
Clew winches	: 2 x 1-drum winch - 1 tons/drum
Anchor winch - stern	: -

Note:
- Dismountable dredger
- Dustpan installation available



Contact Us

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