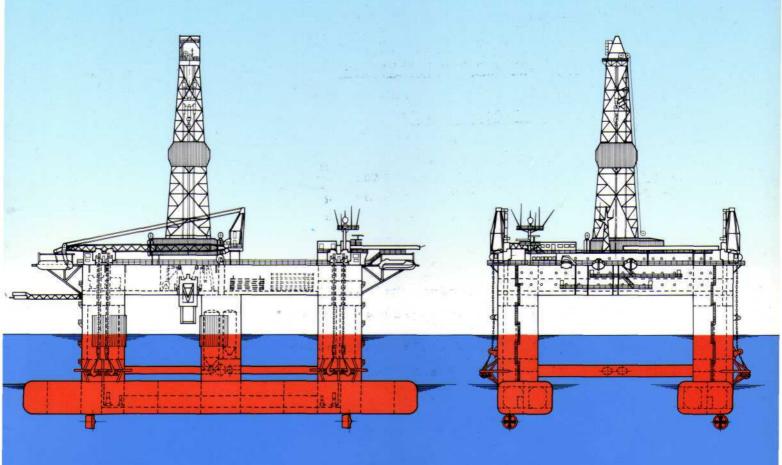
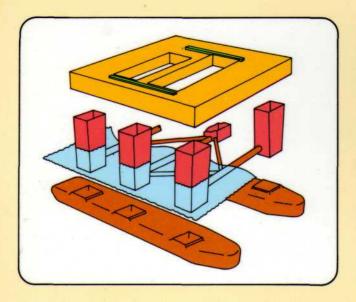
# SSDW SERIES

SEMI SUBMERSIBLE DRILLING VESSELS







#### HIGH EFFICIENCY

The versatile NORMED SSDV SERIES is designed to operate worldwide including deep and arctic seas. Carefull design gives it the highest existing performance together with the possibility to be built at any place using efficient up-to-date construction methods

Watertight tunnels in the pontoons, technical trunks in deck and columns and attention paid to easy maintainability minimize running costs of the NORMED SSDV SERIES

Four azimuthal thrusters provide high station keeping capability when used for mooring assistance, and self propulsion during transit phases

Large recesses in deck allow for:

- sheltered working area
- low centre of gravity, thus high variable load capacity

Extra flat pontoons minimize transit draft, enhance damping and thus, reduce heave and improve station keeping capability.

#### SAFETY-ORIENTED DESIGN

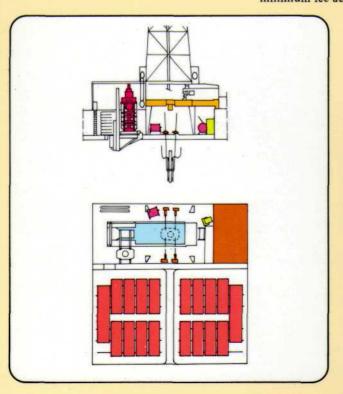
Watertight box framed deck reduces heel angle after damages

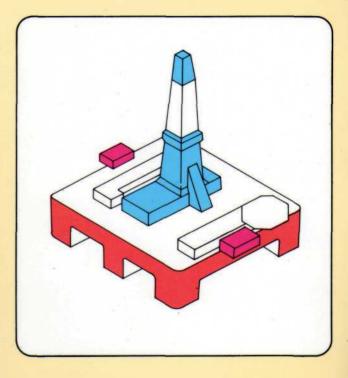
Four pump rooms and redundant ballast system meet the latest NMD and DEn requirements

#### **FULLY WINTERIZED UNITS**

Easy adaptation of NORMED SSDV SERIES into fully winterized units with following particulars:

- minimum exposed superstructure -
- light roof structures covering deck recesses -
- reserved space in deck for installation of fully sheltered vertical axis windlasses
  - heated double bottom in deck -
  - flush underside of the deck and no emerged bracings thus minimum ice accretion





## CONTINUOUS DRILLING OPERATIONS

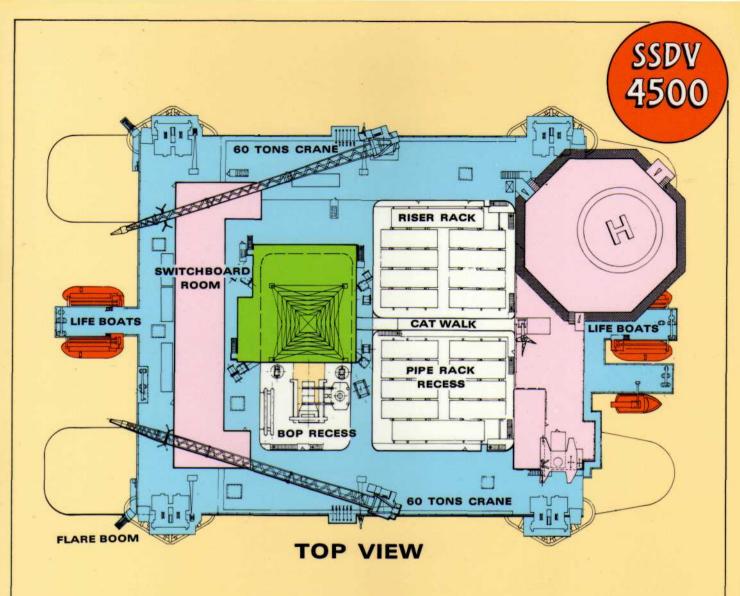
Thanks to its exceptional seaworthiness and large capacities, NORMED SSDV SERIES minimize standby time and reduce drilling operation costs

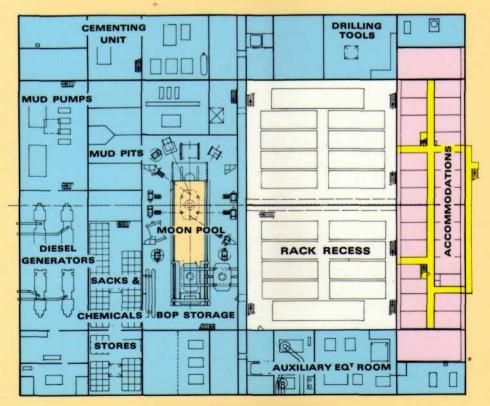
Large storage capacities such as 24,000 cuft bulk-silos and variable deck load up to 4,500 metric tons are suitable to drill down to 25,000 ft without any resupply at sea

BOP handling equipment allows to carry and store an 18"3/4 15,000 psi stack in one piece

Provision is made for last generation drilling equipment such as:

- crown mounted compensator
- top-drive system
- automated tubular handling
- computer-aided management system





**LOWER DECK** 

# MAIN DATA SSDV 4500

#### CONCEPTUAL APPROACH IS SIMILAR FOR NORMED SSDV'S 5000 - 6000 - 7000

#### MAIN CHARACTERISTICS

Length overall	103.50 m 62.00 m
Lower deck above keel line	31.25 m 39.25 m 2.50 m
Upper deck length	73.50 m 62.00 m
Transit draft	7.95 m 20.75 m
Transit displacement	22,400 T 33,200 T

### PAYLOAD

Transit deckload .	÷	20	33	8			्	0	90	8		•		÷	3,750 T
Transit payload															7,250 T
Operating deckload															4,500 T

#### CAPACITIES

Bulk mud and cement	683 m3	24,100 cuft
Sack storage	340 m2	7,500 sacks
Drill water	1,060 m3	6,670 barrels
Potable water	680 m3	4,280 barrels
Fuel oil	2,110 m3	13,280 barrels -
Pipe rack	2,200 T	2,450 US Tons
Mud pits	400 m3	2,520 barrels

#### MAIN EQUIPMENT

- 4 diesel generator sets 3040 kW 4 azimuthal thrusters 1600 kW 8 mooring chains Ø84 mm - 1,650 m 2 cranes 60 T lifting capacity Accommodation for 100 men Dynamic derrick rated 1,250 kips API
- Automatic handling in derrick
- Drawworks 3,000 HP 2 mud pumps 1,600 HP
- 4 dual riser tensionners 160 kips BOP stack 18"3/4 15,000 psi Forklift 200 T SWL for BOP handling

#### RULES AND REGULATIONS

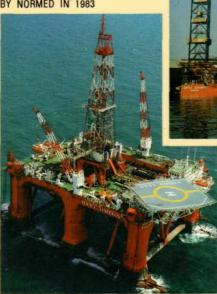
Classification: - DNV.+.1A1 Column stabilized unit Drilling vessel, EO, HELDK, POSMOOR ATA or equivalent from B.V., A.B.S., LLOYDS

Norwegian Maritime Directorate Compliance with: Department of Transportation (U.K) Department of Energy (U.K) MODU CODE --

#### ENVIRONMENTAL CRITERIA

- Water depth up to 450 m
- Maximum wave height 32 m.

DRILLING RIG DYVI OMEGA BUILT BY NORMED IN 1983





DRILLING RIGS DYVI SIGMA AND EPSILON BUILT BY NORMED IN 1981-1982

DRILLING RIG NEDDRILL 3 BUILT BY NORMED IN 1982



# CHANTIERS DU NORD ET DE LA MÉDITERRANÉE

Société Anonyme au Capital de 300.000.000 F.

# HEAD OFFICE

28, Rue Dumont D'Urville 75784 PARIS CEDEX 16 FRANCE

Tel.: (1) 45.01.50.70 Telex: NORMED 614459 F

# DUNKERQUE YARD

B.P. 1503 59381 DUNKERQUE CEDEX 1 13711 LA CIOTAT CEDEX

Tel: 28.65.97.00 Telex: CFDK- A 820010 F

# LA CIOTAT YARD

B.P. 124

Tel.: 42.08.95.11 Telex: NAVA A 410979 F

# LA SEYNE YARD

B.P. 329

83507 LA SEYNE SUR MER CEDEX

Tel.: 94.94.19.00

Telex: VASCO A 430030 F