About the M350 FPSO Hull

* Key Figures
  · 350 m long, 64 m wide, 33 m molded depth
  · 350,000 barrels storage capacity of each cargo block
    (2 wing tanks and one center tank group)
  · 350,000 m³ total cargo storage capacity (i.e. 2.2 million barrels)

* Main Features
  · Full double hull (i.e. double sides and double bottom), alleviating industry concerns about single bottom and late life corrosion
  · Design life of 25 years or more
  · Deck area available for topsides is around 20% larger compared to a VLCC
  · Suitable for topside weights ranging from 30,000 MT to 50,000 MT
  · Large living quarters for 160 people (Standard LQ Block)
  · Submerged cargo pumping system (instead of pump room)
  · Davit launched or free-fall lifeboats
  · Helideck with or without helicopter parking option
  · Designed and built to Shipbuilding Standards

* Model Tests
  M350 has been successfully model tested in a wave basin for both the internal turret and spread moored options and variable simulated topside weights. The resultant hull motions have been very much within acceptable ranges thereby presenting a stable topside platform facilitating higher asset uptime.
M350 - A SMART SOLUTION FROM EVERY ANGLE

Reasons for M350 FPSO Hull

Large FPSOs based on VLCC conversions typically have topside weights of up to 35,000 tons with production rates as high as 180,000 barrels/day, water injection of 200,000 barrels/day and gas production of 400 MMscfd. However, despite these large capacities the demands from the Oil & Gas Industry keep increasing in relation to:

- Longer FPSO design lives
- Larger and heavier topsides
- Larger storage requirements
- Larger accommodations to support campaign maintenance

M350 Mooring System Options:

The M350 Hull is designed to operate in different environmental conditions prevailing around the world. There are four variants of the hull, each designed for a different type of mooring system, namely:

- M350e: (EXTERNAL TURRET)
- M350i: (INTERNAL TURRET)
- M350s: (SPREAD MOORING)
- M350y: (TOWER YOKE)

In 2017 MODEC set out to develop a new FPSO hull code-named “M350” exploiting MODEC’s decades-long FPSO design, construction and operating experience. The M350 was jointly developed with DSIC, a Chinese shipyard with which MODEC already had a growing relationship, DSIC is an industry leader in delivering state of the art VLCCs and other offshore floating systems (incl. FPSOs).
M350 Options

M350e (EXTERNAL TURRET)

M350i (INTERNAL TURRET)

M350y (TOWER YOKE)

M350s (SPREAD MOORING)

Japan
MODEC, Inc.
Nihonbashi Maruzen Tokyu Building, 4th & 5th Floors
3-10, Nihonbashi 2-chome, Chuo-ku
Tokyo 103-0027 Japan

USA
MODEC International, Inc.
15011 Ka‘u Freeway, Suite 500
Houston, Texas 77094 USA

Singapore
MODEC Management Services Pte. Ltd.
MODEC Offshore Production Systems [Singapore] Pte. Ltd.
9 North Buona Vista Drive, #21-01 The Metropolis Tower 1
Singapore 138588

Brazil
MODEC Serviços de Petrôleo do Brasil Ltda.
Praia de Botafogo, 186 – 3º andar
Rio de Janeiro – RJ – Brasil – CEP 22250 –145

Inquiries: sales@modec.com

www.modec.com

August 2019
The information contained in this brochure is true and accurate at the time of publication, however, it may be subject to change without prior notice.