



**Al Kaser** Stimulation vessel is one of the most advanced stimulation vessels owned by Al Mansoori. Years of Marine, Stimulation and Engineering have been vested to come up with a complete solution for Stimulation and Pumping services. The vessel has been fully utilized in the Arabian Gulf for stimulation applications in different countries with an excellent safety and service delivery record.

Al Kaser offers up to 5,400 HHP of hydraulic horse power at 10,000 psi of treatment pressure with the highest level of flexibility and rapid response to weather changes. With 63,000 gal storage capacity of 32% HCl under deck, the vessel can provide:

- Up to 20 Barrel per minute continuous fly mixing and pumping;
- 6 x 1,000 gal precisely metered Chemical tanks with dosage pumps;
- 2 x 100 barrels batch mixing.

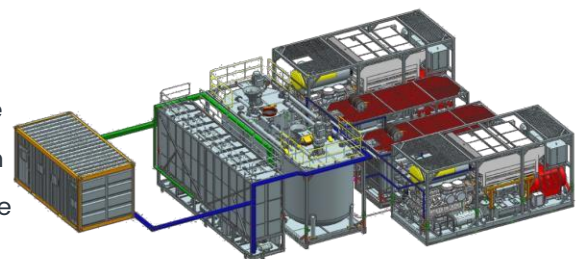
All treatments are controlled and monitored remotely using a state-of-the-art control room, in addition to a full QAQC at all times. With full treatment design capabilities on board, real-time operation sequence and volumes alteration based on formation response is possible allowing full treatment optimization.

## Dynamic Positioning System

Al Kaser is equipped with DP II system and fully trained and certified crew to allow the vessel to remain in a fixed position while stimulation treatment is carried out in weather conditions up to 14 ft. of sea swell.

## Performance

Al Kaser has been providing first in class stimulation services for multiple customers in the Middle East since 2014. Treatments have been ranging from large volume Coiled Tubing and Bull heading HCl stimulation to scale inhibition treatments.



## APPLICATIONS

- *High-rate, High-pressure pumping*
- *Fracturing, Acidizing*
- *Scale Inhibition Treatments*
- *Remote Offshore Operations*

## BENEFITS

- *Rapid deployment and rig up*
- *Heavy Duty Equipment*
- *High Storage Capacity*
- *On the Fly Mixing*
- *Real-time data Transmission*

## FEATURES

- *Fully Automated mixing facility*
- *Up to 5,400 HHP pumping capacity*
- *10,000 psi 3" manifolds*
- *10,000 psi 3" x150 ft. Coflexip Hose*
- *3" Emergency disconnect for HP lines*
- *Remote controlled Mixing and pumping through electronic Control Room*

## MARINE SPECIFICATIONS

Length	196 FEET
Breadth	50 FEET

## MACHINERY & EQUIPMENT:

MAIN ENGINE	2 CAT x 2500 BHP, 3516C
BOW THRUSTERS	2 x 600 HHP Tunnel Thrusters
GENERATORS	4 x 679 BHP - 3 PHASE - CATERPILLAR, C18- 60 Hz
SPEED	13.0 Knots @ 100 % MC
FIRE FIGHTING & LSA EQUIPMENT	Fi-Fi : Class 1
FUEL PUMP	1 x 150 M <sup>3</sup> / HR @ 80 M HEAD
FRESH WATER / DRILL WATER PUMP	2 x 100 M <sup>3</sup> / HR @ 80 M HEAD

## DECK & AUX. EQUIPMENT

ANCHORS	2 x 1200 Kgs HHP
CHAIN	34mm U2 grade Tot 412.5 M
ANCHOR/ MOORING WINDLASS	1 x 5t @ 12m/Min C/W warping Heads
CAPSTANS	2 x 5t @ 15m/min
DECK CRANES	18 @ 12 M (Domestic)
PEDESTAL CRANE	40 T @ 6.5 M / 3 T @ 40 M

## DP MARINE TECHNOLOGY, C Pos DPS-2 (Following Reference Systems):

GYRO COMPASS	2
JOY STICK	3
DGPS	2
RADIUS	1

## FLUID STORAGE CAPACITIES:

FUEL OIL	138,177 USG
FRESH WATER	97,754 USG
WATER BALLAST/DRILL WATER	158,520 USG
32% HCL ACID STORAGE (BELOW DECK)	63,280 USG
2 tanks x 15,000 USG each (Vertical) -	30,000 USG
1 tank x 11,780 USG each (Vertical) -	11,780 USG
2 tanks x 10,750 USG each (Horizontal) -	21,500 USG

## STIMULATION EQUIPMENT ON DECK:

HIGH PRESSURE PUMPING UNITS	2 x 600 HHP
HIGH PRESSURE PUMPING UNITS	2 x 2,250 HHP
ACID BATCH MIXER – TWIN TANK x 100 BBLS EA	8,400 USG
CHEMI. STORAGE & SUPPLY SYSTEM 6 TANKS x 1000 USG	6,000 USG
TWIN POD FILTER UNIT	500 GPM
SYSTEM CONTROL CABIN	AUTO SYSTEM CONTROL AND DAS
HYDRAULIC QUICK DISCONNECT COUPLING	3", 15,000 PSI
HIGH PRESSURE COFLEXIP HOSE	3" ID FIG 1502 ENDS - 15,000 PSI WP - 150 FT LONG
HIGH PRESSURE NITROGEN PUMPING UNIT	180,000 SCFH
LIQUID NITROGEN STORAGE TANKS	UP TO 12,000 USG LIQUID N2