

## **SHEET METAL FABRICATION**

**PANEL | ENCLOSURES | DRAWOUT COMPONENTS**



# INTRODUCTION

## ABOUT US

KLEEV Middle East - Sheet metal manufacturing division is an indigenous manufacturer of sheet metal fabrication products.

Our sheet metal division is a grassroots solution provider for inception to finished products, with the dedicated team of design, fabrication, quality assurance with the optimization of cost and delivery time.

Conveniently located at Jebel Ali Free Zone, with ample floor area for multiple activities. Huge storage facility enables us for ample inventory for raw material. Factory serves requirements of both domestic and regional markets.

We are well equipped to serve domestic as well as regional customers. All products are ISO 9001, ISO 14001 & OHSAS 18001 certified.



# DESIGNS

## IN HOUSE DESIGN CAPABILITIES

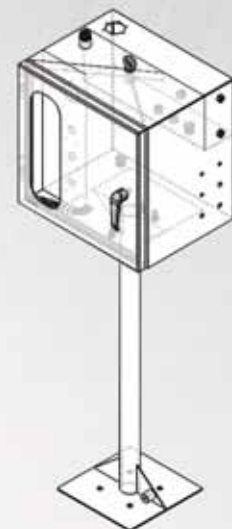
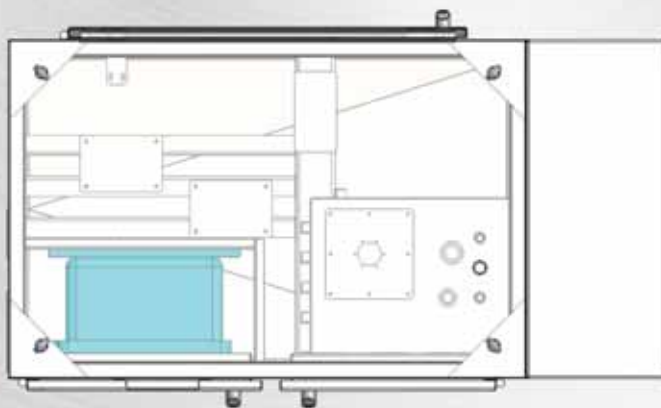
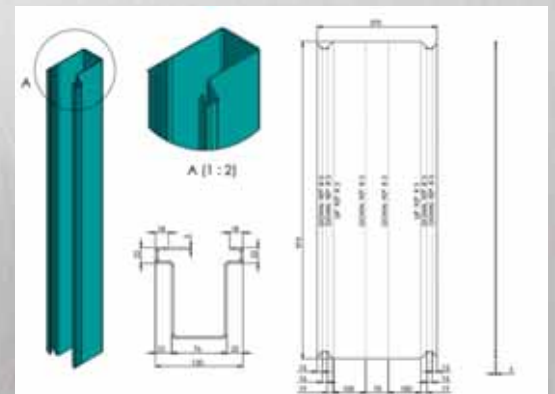
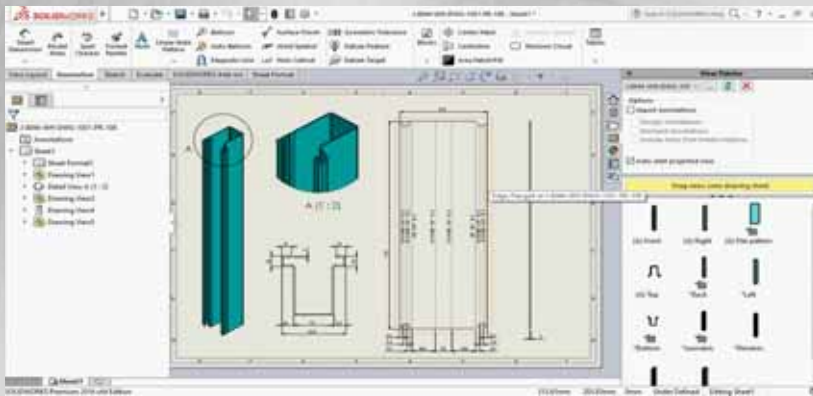
We are capable to design sheet metal enclosure for Instruments & Electric Control Panel, Wellhead Control Panel, Analyzer Shelter, Special Purpose Doors, Canopy etc.

We have supplied verity of enclosure to an Oil & Gas, refinery, power plants, HVAC & BMS.

### 1) DESIGN & MANUFACTURING

- Basic Design & Engineering.
- Technical Advice.
- Selection / Sourcing of Equipments & Systems.
- Detailed Engineering with the aid of Solid Works & CAD.

### 3D DESIGNS AND DRAW DRAWINGS OF SHEET METAL PARTS



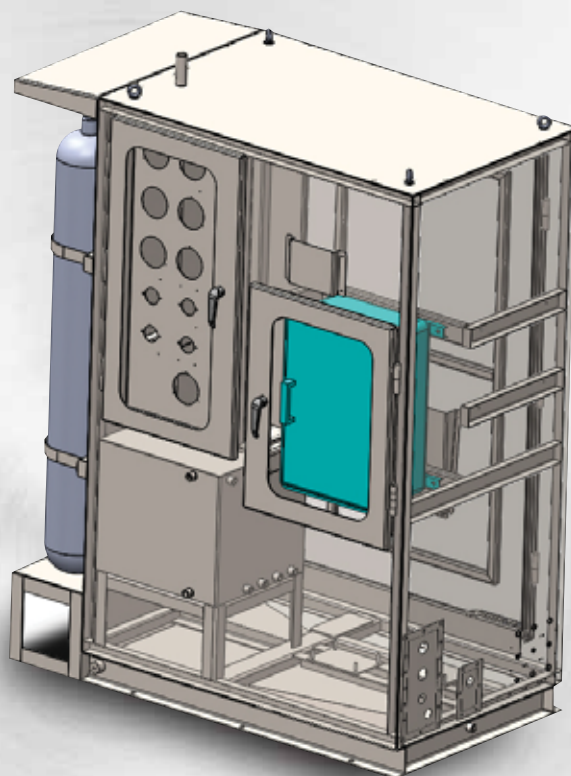
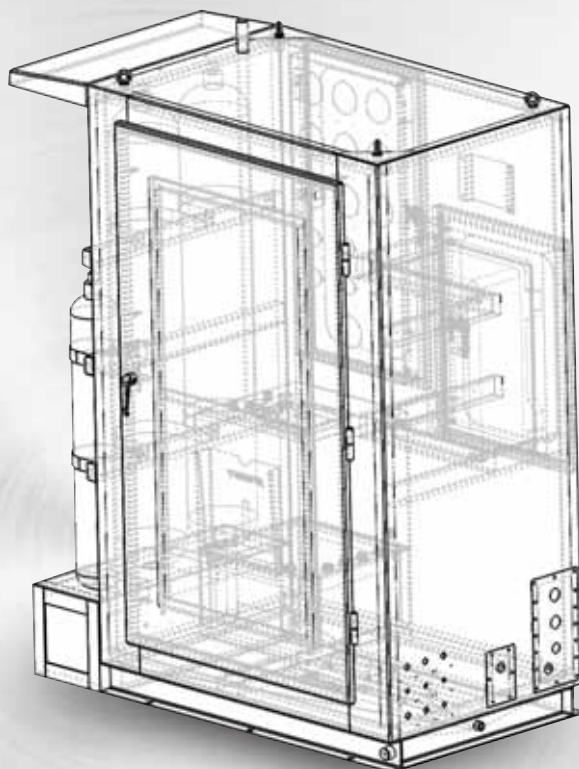
## WELLHEAD

- LxDxH: 1300 x 850 x 2100
- Panel Thickness: 3 mm
- Base Plate: 5 mm
- MOC: 316L





### 3D DESIGN OF WELLHEAD PANEL WITH ACCUMULATORS

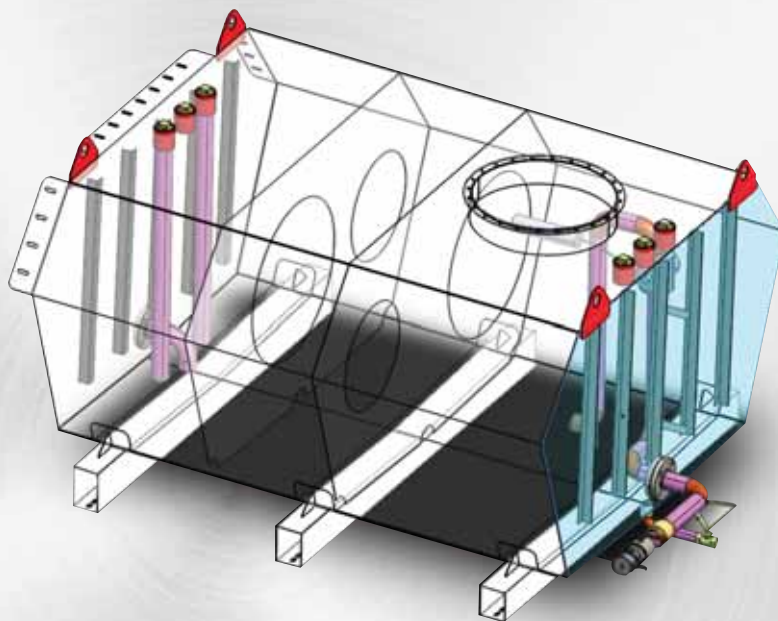
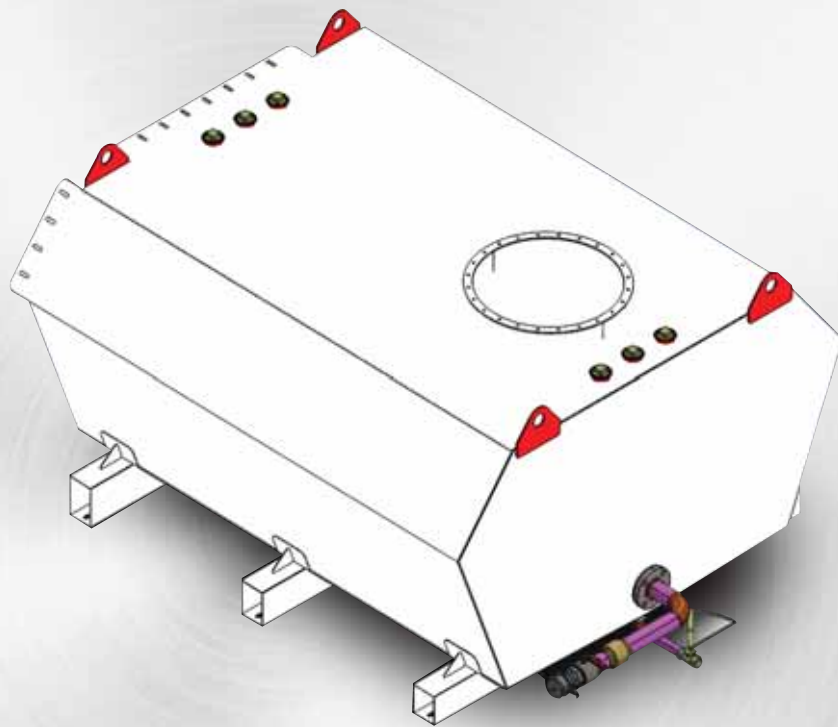


## AVIATION FUEL STORAGE TANK

- MOC: SS 316 / SS 304
- Thickness: 3 mm

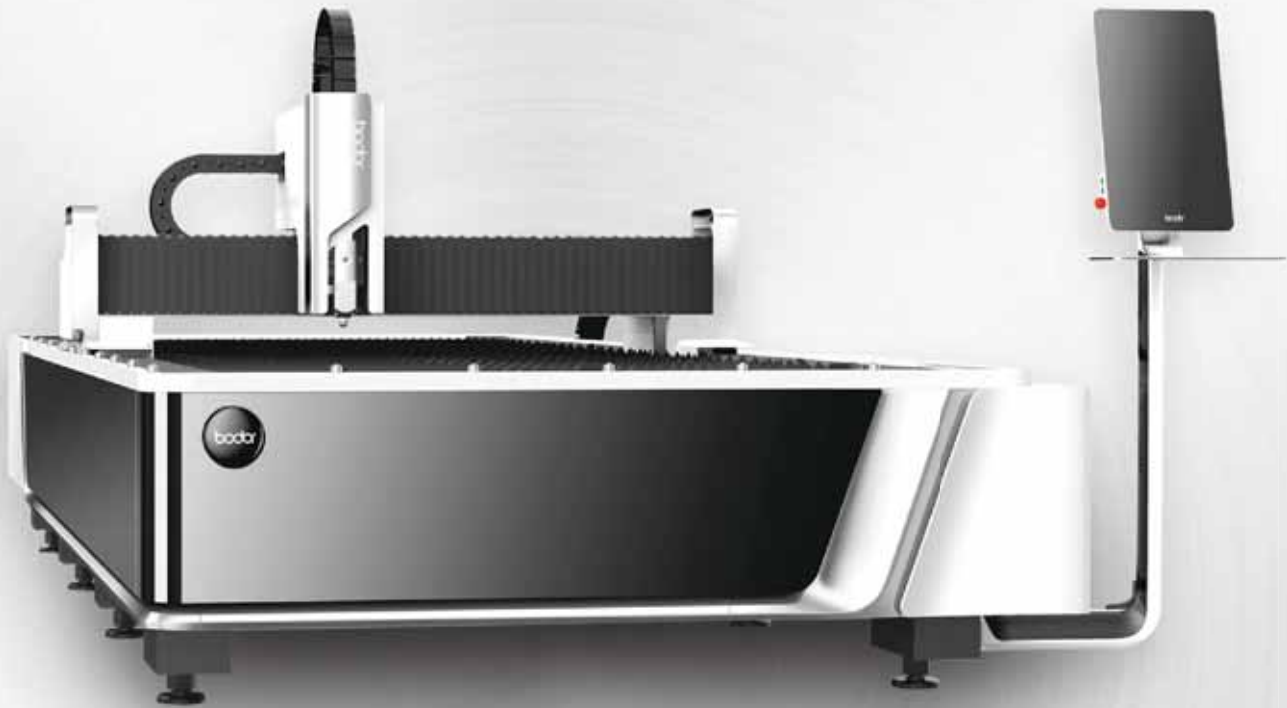


## 3D DESIGN OF FUEL TANKS



## LASER CUTTING MACHINE

- Dimension: 3048 x 1530 mm
- Source: 3 KW
- Thickness upto 6 mm SS 316L upto 12 mm MS



## HYDRAULIC PRESS

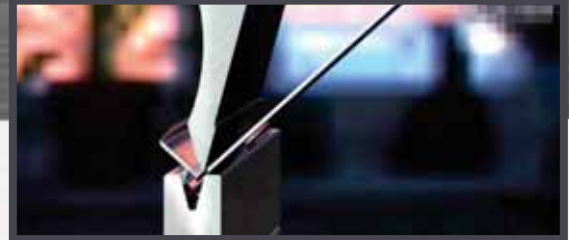
- Capacity: 80 Ton



## CNC BENDING



### SPECIAL DIE & PUNCH TO REDUCE JOINTS



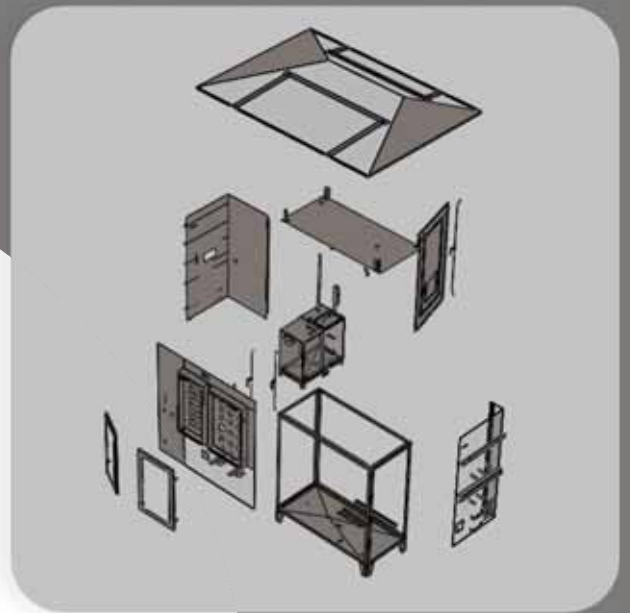
- CNC Press Brake
- Five Axes: Y1, Y2, X, R & Automatic Crowning
- Controller: DELEM DA 58T
- Capacity: 160 Ton
- Length: 3100 mm

## NC BENDING

- Length: 1500 mm
- Capacity: 50 Ton



## ASSEMBLING



## WELDING

- By BV Qualified Welders
- MIG / TIG / SPOT / STUD / Robot Welding
- Welding Machine: ESAB / EWM
- Capacity: 0.5 TO 12 mm





## SURFACE TREATMENT & NDT

### INSPECTION OR TEST ACTIVITY

- 100% LPT for weld joints include reservoir tank
- Procedure review-tank leak test
- Enclosure Pickling & Passivation
- Sand blasting of external surface visual check
- Adhesion test, Salt test, Profile check, Dust check
- Painting external surface visual & DFT Check
- IP 65 Test



## PAINTING

- Sand blasting of external surface visual check
- Adhesion test
- Salt test, Profile check, Dust check
- Painting external surface visual
- DFT Check
- Special Painting for Oil & Gas Industry
  - ♦ Daikin Zeffle IR1000 E
  - ♦ Jotun Hardtop XP RAL 7032





أرامكو السعودية  
saudi aramco



## WELL HEAD PANELS ENCLOSURES

- Material: SS 304 / SS 316 / SS 316L  
WITH NACE
- Thickness: 1.5 TO 5 mm
- IP: 65
- Gasket: UL/FM Approved





## WELL HEAD PANELS ENCLOSURES

### TYPES:

Single Oil Well  
Dual Oil Well Accumulator Racks  
HIPPS Control Panel Enclosure  
Gas Panel

## ANALYSIS CABINS FOR PETROCHEMICAL INDUSTRIES



- SS 316L cabins made of 16 gauges sheet with stiffener to withstand tough weather condition.
- Available in various sizes and designs options.
- Interior can be designer suitable for various application.
- Provisions for electrical and pneumatic fittings.
- Provided with the lifting lugs for easy transportations and movability.





## BATTERY BOXES & CABINETS

- Material: SS 304 / SS 316 / SS 316L
- Thickness: 1.5 TO 4 mm
- Gasket: UL / FM Approved
- IP: 43



## SHEET THICKNESS DETAILS

- Frame thickness: 2 mm
- Door thickness: 2 mm
- Shelves thickness: 2.5 to 3 mm
- Coating thickness: 100 micron
- Color and Texture: RAL 7032 textured.
- Shelves Capacity: 1000kg. / m2 of shelf

## DIMENSIONS

- Height: 1500 to 2300 mm
- Width: 600 to 1200 mm
- Depth: 600 to 1000 mm



## STANDARD PRODUCTS

### CONTROL PANEL CONSOLE

- Material: MS / SS 304 / SS 316
- Thickness: 1.6 to 3 mm
- IP: 54 / 65
- Surface: Powder Coating / Epoxy Coating / Industrial Paint

**KCC-T**



**KCC-S**



**KCC-BT**

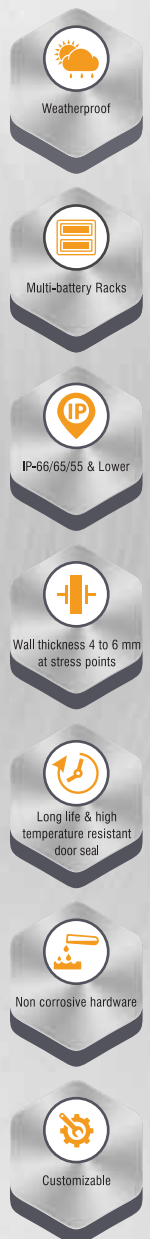


### PRODUCT

Material  
Mounting  
Plate Locks  
Thickness  
Surface  
Finish  
Protection  
Certification

### WALL MOUNTED STAINLESS STEEL ENCLOSURE

SS 316, SS 316L, SS 304 or MS  
Galvanised, SS 316, SS 316L, SS 304 or MS  
Die-cast Zinc, Nickel-chrome plated with SS cam, Multipoint Locks are also provided (optional) From 1.2 mm to 3mm, Door thickness vary as per sizes.  
Mat or Mirror Finished  
IP 66 to EN 60 529, IK 10  
Complies with the applicable essential requirements of the Directives 2014/35/EU as amended and the European Standards BS EN 62208:2011



PRODUCT

Material  
Surface  
Finish Size

STAINLESS STEEL CANOPY

SS 316, SS 316L, SS 304 or MS Thickness 1.2  
mm ~ 2 MM Mat or Mirror finished  
As per requirement

KPX SERIES



CERTIFICATE



ISO 14001:2015



ISO 9001:2015



ISO 45001:2018

DNV-GL	
Certificate No: Q-EX-VERSC/19/PP201334/11837	
IP65 INGRESS PROTECTION TEST REPORT	
PARTICULARS OF OWNER	
End User	ADNOC
EPC	Fortune Engineering & Energy Services LLC
Manufacturer	KleeV Middle East FZE
PARTICULARS OF UNIT	
Project	3 YRS PA FOR WHCP TO COVER 2019-2020 LTPA 2128
Unit Description	WELL HEAD CONTROL PANEL
Unit ID	KME/ARF/DO/ENCL
Drawing No/Rev No	J-5283-WH-DWG-1004
DATE OF TEST	03-05-2020
REFERENCE STANDARDS	
IEC / EN 60529: 1989 AL:1999 & A2:2013	
WATER TEST DETAILS	
NOZZLE DIMENSIONS	6.3 MM
DELIVERY RATE	12.5 LPM
DISTANCE OF NOZZLE	3 meters from the Enclosure
DURATION OF TEST	1 minute Per Square meter
START TIME	10:00 am
COMPLETION TIME	11:30 am
RESULT OF TEST	No Water Particles Were Observed Inside the Panel
ACCEPTANCE	Acceptable
DUST TEST DETAILS	
TYPE OF ENCLOSURE	CATEGORY 2
POWDER TYPE	Talcum Powder

KleeV	
KLEEV MIDDLE EAST FZE	
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## **KLEEV MIDDLE EAST FZE**

P. O. BOX : 17259, Plot No. MO0767,  
Jebel Ali Free Zone (North),  
Dubai, U.A.E.



+971 4 880 3777



+971 4 880 3555



info@kleevme.ae



www.kleevme.ae

