

# JDEVS

## Engineering & Manufacturing of Drilling Rigs Center



[WWW.JDEV.S.COM](http://WWW.JDEV.S.COM)

Designing, Engineering & Manufacturing of:  
Electrical Land Drilling Rigs, Mechanical & Electrical Parts



**HIGH TECHNOLOGY & QUALITY**

## **INTRODUCTION**

JDEVS is an Iranian, public nongovernmental self-finance scientific, engineering and production organization, which has been established in 1980. It is mainly involved in technical and industrial activities in the fields of electrical, mechanical, civil and architecture engineering through its different subsections working as different centers by more than 500 well trained employee.

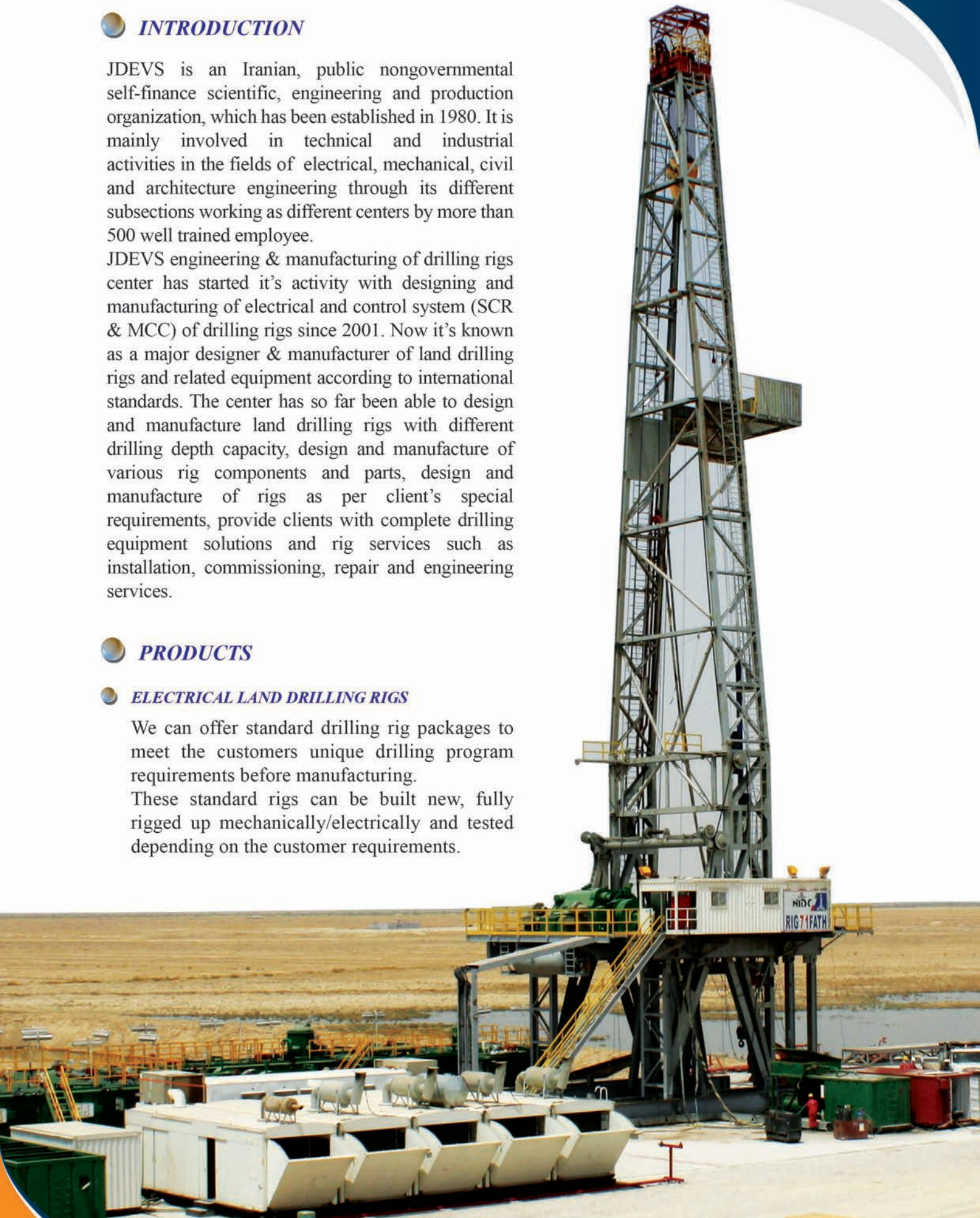
JDEVS engineering & manufacturing of drilling rigs center has started its activity with designing and manufacturing of electrical and control system (SCR & MCC) of drilling rigs since 2001. Now it's known as a major designer & manufacturer of land drilling rigs and related equipment according to international standards. The center has so far been able to design and manufacture land drilling rigs with different drilling depth capacity, design and manufacture of various rig components and parts, design and manufacture of rigs as per client's special requirements, provide clients with complete drilling equipment solutions and rig services such as installation, commissioning, repair and engineering services.

## **PRODUCTS**

### **ELECTRICAL LAND DRILLING RIGS**

We can offer standard drilling rig packages to meet the customers unique drilling program requirements before manufacturing.

These standard rigs can be built new, fully rigged up mechanically/electrically and tested depending on the customer requirements.



**MAST**

The center is capable to design and manufacture all types of the mast such as A type, K type and etc. according to API-4 F.



**SUBSTRUCTURE**

We offer substructure of swing up type that is used for electric rigs. The drill floor and equipment on it can be installed at low position, and the mast can be raised at low location of drill floor, then the whole drill floor.

**STEEL STRUCTURE**

All types of the rig steel structures can be manufactured in our workshop based on the customer requirements.



**ELECTRICAL & CONTROL SYSTEM (SCR & MCC)**

The center is capable to design and manufacture of electrical & control system (SCR & MCC) in which is as a high technology part of a rig.



**Technical specifications:**

- Rig type: electrical drive drilling rig
- Draw works driver: 2 × 1100 hp
- Mud pumps driver: 3 × (2 × 1100 hp)
- Rotary table driver: 1 × 1100 hp
- Diesel generator: 4×1900KVA  
(CAT 3512B, 1330KW, 1200RPM, 60HZ), 3PH, 600AC
- Emergency diesel generator: CAT C15 400 kW
- SCR units: 5 × 750 VDC / 1800 A
- Top Drive Feeder 3PH, 600 VAC, 60HZ, 1000KW
- MCC: Draw out Type with 55 Feeder 3PH, 480 VAC, 60HZ up to 75HP & Fix Part 3PH, 230 /132 VAC, 60HZ
- Power transformers: 1 × 1250 KVA, 1 × 180 KVA
- Air conditions: 2 × 10 tons
- Power house dim: 12.72 × 3.15 × 3.7 (L × W × H) m



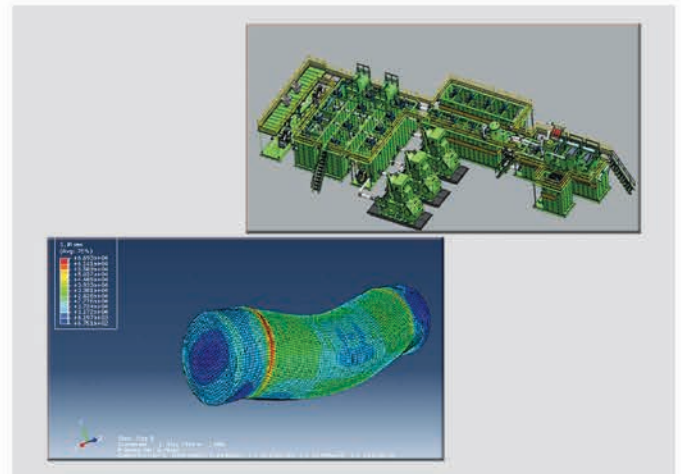
**MUD TANKS, FUEL TANKS, WATER TANKS & OIL TANKS**

The center is capable to design and manufacture all types of storage tanks for water, oil & mud circulating tanks according to API-620 / API-650 standards and client's requirements.

## RESEARCH AND DEVELOPMENT

The engineering and manufacturing drilling rigs center is capable of researching and developing various land drilling rigs and rig components as per client's requirements.

The center possesses a high qualified research and development team. The team is rich in rig design experience and development several advanced rig products and parts to meet client's requirement. The center possessed 2D and 3D design softwares like Autocad, Solid works, E-drawing, SAP 2000, Ansys and etc. to achieve full 3D design and simulation for new products.



## TRAINING

As a core strategic target, we always support our clients and also industrial managers and experts with latest technology issues to transfer our knowledge and experience to them through the best academic methods in our individual learning building or on site. In this regard, we provide various **training courses** titled to our range of products and clients requirements as bellow:

- Introduction to Drilling Technology
- Drilling Rig Recognition
- Drilling Rig Equipment (Structure, Hoisting, Rotary, Mud Circulation, Safety, etc.)
- Drilling Rig Electrical & Control System
- On Site Training

## QUALITY CONTROL

Based on our experience and well-equipped facilities, we offer a wide range of quality control services during manufacturing and on-site tests according to well-known standards.



## GUARANTEE AND WARRANTY

All our products are guaranteed for 12 months after commissioning or 18 months after delivery and have 10 years warranty.



## SPARES

We can offer replacement spare parts for oilfield drilling equipment used on drilling rigs. This service includes sourcing, purchasing and delivery to the end users.

**AFTER-SALES SERVICES**

JDEVS is pleased to announce its fast after-sales services in the regional market. We respond to any requests from clients for supervision on installation, commissioning and maintenance of our products by dispatching our specialists to customer sites in a very short time.



**CERTIFICATES AND AWARDS**

With strong design, engineering, QC/QA and production, we have been able to achieve many prestigious awards, patents and certificates such as ISO 9001:2008 and etc.

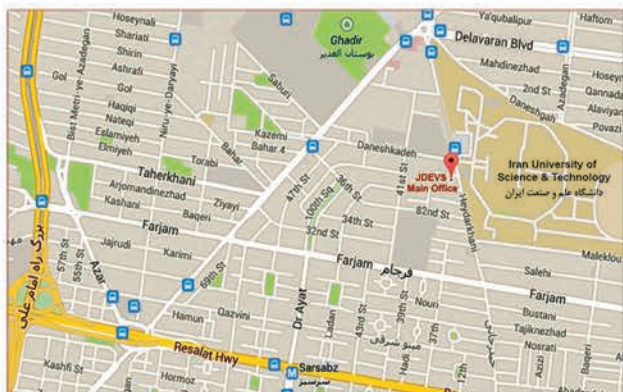
**DRILLING RIG ASSEMBLY YARD AND WORKSHOP**

The assembly yard and workshop of drilling rigs engineering and manufacturing center operates a full service facility in more than 12,000 m<sup>2</sup> space with a 64-ton traveling crane in which allows us to perform most mechanical or electrical tests and rig up or rig down services.



**REFERENCE LIST**

Description	Drilling rig No.	Client
Electrical & control system (SCR & MCC)	43 Fath	Tehran Kala Naft Co.
Electrical & control system (SCR & MCC)	71 Fath	Tehran Kala Naft Co.
Electrical & control system (SCR & MCC)	78 Fath	NIDC
Electrical & control system (SCR & MCC)	79 Fath	NIDC
Electrical & control system (SCR & MCC)	80 Fath	Tehran Kala Naft Co.
Electrical & control system (SCR & MCC)	81 Fath	Tehran Kala Naft Co.
Electrical & control system (SCR & MCC)	87 Fath	NIDC
Electrical & control system (SCR & MCC)	72 Fath	Tehran Kala Naft Co.
Electrical & control system (SCR & MCC)	73 Fath	Tehran Kala Naft Co.
Land drilling rig 2000 hp	71 Fath	Tehran Kala Naft Co. / NIDC
Land drilling rig 2000 hp	72 Fath	Tehran Kala Naft Co. / NIDC
Land drilling rig 2000 hp	73 Fath	Tehran Kala Naft Co. / NIDC
Upgrading of electrical & control system	O-2	Global Petrotech Kish Co.
Supplying spare parts	-	Tehran Kala Naft Co.
Supplying spare parts	-	NIDC
Supplying spare parts	-	NDCO



**CONTACT US**

- Website: [www.jdevs.com](http://www.jdevs.com)
- Company central E-mail: [info@jdevs.com](mailto:info@jdevs.com)
- Main office tel.: +98 21 77455001 – 2
- Main office fax: +98 21 77455003
- Sales & marketing group tel.: +98 21 77133306
- After sales services tel.: +98 21 77199242
- Sales & marketing group E-mail: [sales.emdr@jdevs.com](mailto:sales.emdr@jdevs.com)
- Head of center tel.: +98 21 77199222

- Main office address: No.184, Haidarkhani St., Farjam Ave., Narmak, Tehran, Iran, (Postal box: 14155-4364, postal code: 1683851167)
- Workshop address: ACECR R&D complex, end of Kavosh St., Supa Blvd., km 55 Tehran-Qazvin High way, Iran

### **CONVERTERS & POWER SUPPLIES CENTER**

- Industrial UPS single/three phase(s)
- Industrial charger
- AC/DC no break system
- Special converter & inverter
- Standard UPS
- HVDC light system
- Electric propulsion system



### **AIR POLLUTION CONTROL CENTER**

- ESPs, bag filters and scrubbers for non-metallic mineral and metal industries, refineries and petrochemicals
- Internal parts: collecting plates, electrodes, rapping systems, ...
- Upgrading of existing dedusting systems
- Supplying spare parts for ESPs and bag houses

### **HIGH VOLTAGE ENGINEERING CENTER**

- AC, DC, impulse, resonant and hipot test equipment
- AC, DC and impulse measurement equipment
- Quality control testing services
- Onsite test services (GIS stations and ...)



### **SPECIAL TRANSFORMERS CENTER**

- High current transformer rectifiers for zinc, copper and aluminum industries
- High voltage transformer rectifiers and microprocessor based controllers for ESPs
- Electroplating DC power supplies
- Special transformers (dry/oil)
- Multiplier voltage power supply
- Variable Frequency Driver (VFD)

### **ELECTROMECHANIC R&D GROUP**

- Submerge Rotary Jet (SRJ)
- Oil loading arms
- Electrostatic oil desalter
- Gangway

