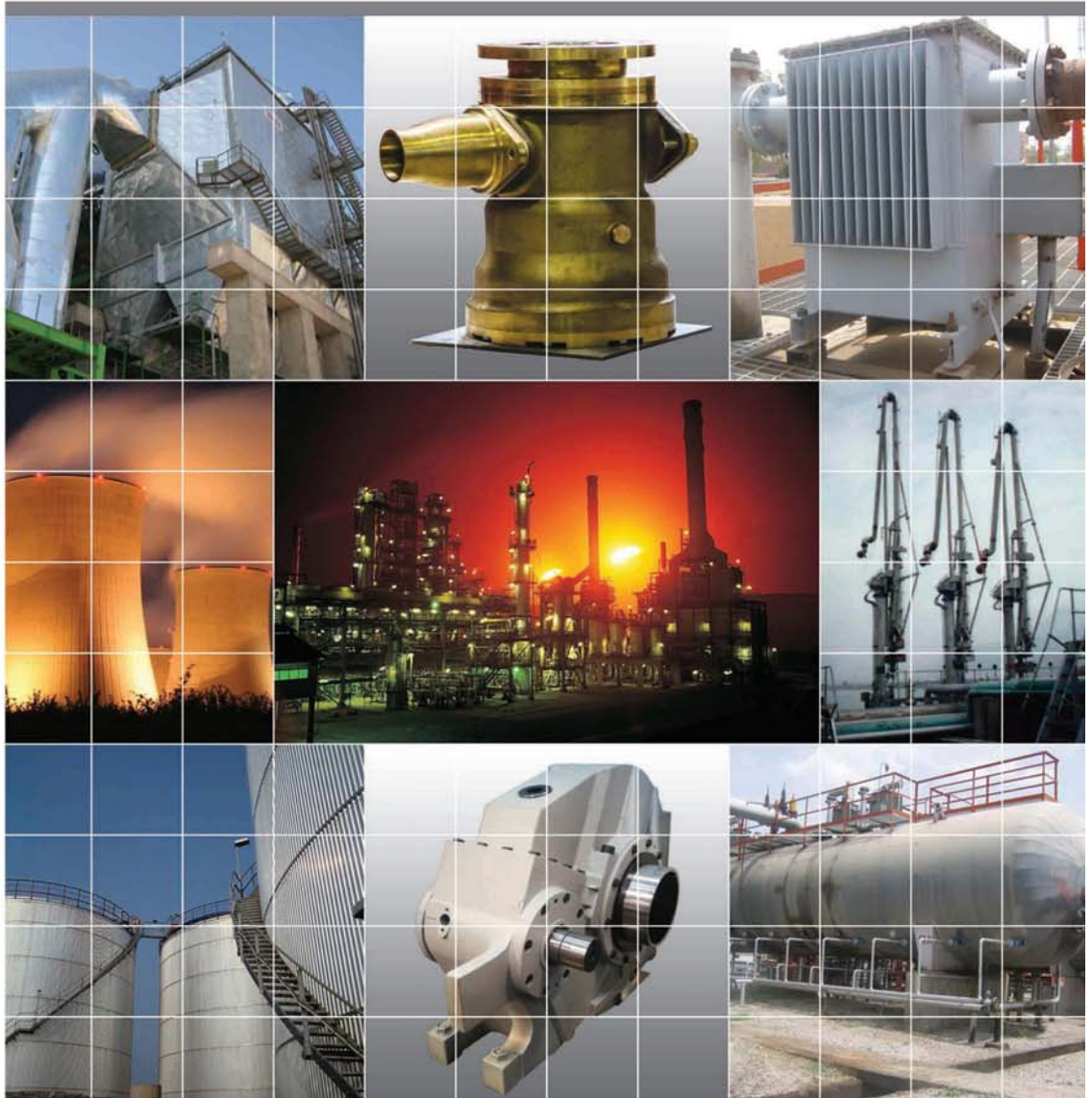


JDEVS

Electromechanic R&D Groups



WWW.JDEVS.COM

Designing, Engineering & Manufacturing of:
Mechanical & Electrical Equipment for Oil, Gas, Petrochemical And Other Industries



INNOVATIVE 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 environmental, electrical, mechanical, civil and architecture engineering through its different subsections working as different centers by more than 500 well trained employee.

Electromechanic R&D Groups, is one of them which has developed innovative designs in the Iranian oil & gas industry. With dedicated and experienced professionals, Electromechanic R&D group focuses on three main areas: (1) design of industrial processes in a variety of packages for oil and gas industry, (2) design, manufacturing and optimization of equipments and accessories for oil and gas industry, and (3) design and optimization of oil and gas industry.

● PRODUCTS AND SERVICES

● SUBMERGED ROTARY JET (SRJ)

Designed to prevent sludge accumulations, submerged rotary jet mixer (SRJ) directs powerful jets of oil that dissolves and re-suspends the accumulated sludge throughout the oil. SRJ breaks the sludge of the bottom of the storage tanks into small pieces after which the sludge is decomposed and dissolved in the crude oil while the sludge floats up. Since tank sludge can accelerate corrosion, reduce storage capacity and disrupt operation selecting a proper tank cleaning method is essential. Among different methods of tank cleaning SRJ is a reliable and cost-effective method that greatly reduces the personnel exposure risks and hazards without the need to vent the tank or remove it from service. In this technology, liquid is pumped from the bottom of the tank then directs with higher pressure within the tank through a rotary nozzle. In many applications, the submerged rotary jet mixer provides the fastest and most efficient mixing results. JDEVS as a pioneer designer and manufacturer of SRJ in Iran fabricates different type of srj to meet the tank cleaning requirements.



ELECTROSTATIC OIL DESALTER

Since crude oil naturally contains brine, salt and water should be removed to prevent serious problems as corrosion of equipments in processing units so efficient desalting in both field and refinery applications is an essential process. Electrostatic oil desalter is an effective technology to remove residual salt to meet the standard sales specification for crude oil. For this purpose, electrical field (AC or AC/DC) is used to excite brine droplets within the oil phase so that they collide with other droplets and

coalesce into larger ones that can separate under gravity. Some main components of electrostatic oil desalters are high voltage transformer, rectifiers, powerful electrodes, pumps and valves, etc.

JDEVS with experts in different fields offers various types of electrostatic oil desalting units, each with their own benefits and applications, including AC or AC/DC desalters, single or two stage process, on-site or skid mounted units, in addition to some innovations to cover some typical requirements in this field like utilizing composite materials for vessels and electrodes.

RESEARCH AND DEVELOPMENT

JDEVS R&D group focuses on developing new products, investigate for the relevant issues and improve the existing technologies.

- Design of industrial separation processes in a variety of packages for oil and gas industry
- Design, manufacturing and optimization of equipments and accessories for oil and gas industry
- Design and optimization of oil and gas industry

AFTER SALES SERVICES

JDEVS offers a broad range of services for the clients including technical services, onsite services for convenience, consulting services, quality spare time delivery, repair, etc. to guarantee more uptime and continuous production. We try to develop our business by offering outstanding after sales services to fulfill our client requirements.

TRAINING

JDEVS with a wide variety of technical experience can provide advanced level courses and workshops to meet the training objectives of the costumers and other applicants.

**CONTACT US**

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ENGINEERING & MANUFACTURING OF DRILLING RIGS CENTER

- Designing & manufacturing of oil & gas land drilling rigs
- Designing & manufacturing of drilling rigs electrical and control system
- Supplying spare parts, upgrading and repairing of land drilling rigs
- Technical & consultant services in the field of oil & gas land drilling rigs
- Automation in oil, gas and petrochemical industries
- Turn-Key projects in electrical and control packages



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

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)

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



SRJ

Submerged
Rotary
Jet

مطراحی، مهندسی و ساخت

سامانه پیشگیری از تشکیل رسوب در مخازن نفتی

تأثیرات اقتصادی:

- استفاده موثر از ظرفیت مخازن
- کنترل موثر بر ظرفیت ذخیره سازی مخزن
- کاهش زمان و هزینه نگهداری

مزایای کاربرد:

- تخلیه عالی و بدون نقص نفت از مخزن در حین عملیات تخلیه مخزن
- پایین آوردن پایدار و ایمن سقف شناور
- حذف عملیات غیر ضروری بر روی نفت
- پایین آوردن هزینه‌های نصب و نگهداری

ثبات عملکرد:

- عدم ایجاد نشستی پس از نصب در مخزن
- ساختاری ساده با ماندگاری عالی
- صدای کم و امکان کار در شب
- نبود ریسک آتش یا انفجار



JDEVS جهاد دانشگاهی علم و صنعت

آدرس: تهران، نارمک، خیابان فرجام، خیابان شهید حیدرخانی

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