

Alborz Turbocompressor

COMPANY INTRODUCTION

www.alborztc.com



@alborzturbocompressor

Company Structure:

AlborzTC is a privately owned **independent services provider** for rotary equipment, namely Gas and Steam turbines, Axial and Centrifugal compressors and power transmission gearboxes:

Company Divisions:

- Engineering, Fabrication of Rotary Equipment Major Parts
- Maintenance & Overhaul + Revamping of Oil units
- Procurement of Units and Spare parts

Our main focus is on a train of turbo compressors



EQUIPMENT WE WORK ON

Gas Turbines

Blades, Disks, shafts, combustion chambers, nuzzles, veins, bearings etc.

Steam Turbines

Wheels, shafts, blades, diaphragms, bearings, etc.

Axial and Centrifugal Compressors

Impellers, bundle assemblies, shafts, bearings, seals, etc.

Power Transmission Gearboxes

Gears (helical, bevel, ...), Pinions, bearings, lubrication auxiliaries, etc.





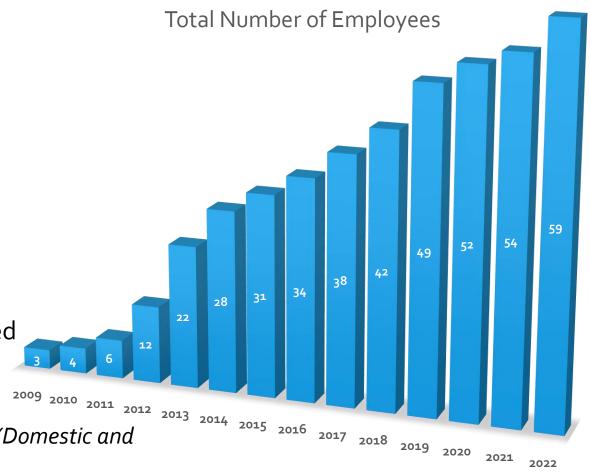




ABOUT ALBORZTC

- Stablished in 2009
- Family Business & Privately Owned
- Factory 1800 sqm.
- Considers among 300 Knowledge-based Companies

 Utilizing more than 45 subcontractors (Domestic and EU supply Chain)



CERTIFICATES AUTHENTICATIONS





مديرعابل معترم شركت توسعه ومهندسي ساخت نوريو كميرسور البرز (توريين البرز يارس سابق)

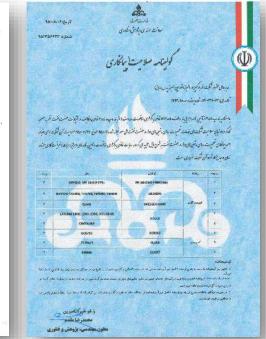
موضوح مجوز لعالبت مهت الخام خدمات تعميرات أساسي ماشين هاي دوار غر صنعت نفت

. . آخرز لیا براستان سد این ایروز ۱۰ از ریبه اجرایی ب احد است ۱۶ فقول برگزاری منافضات و رفیعه ۱۹ سد این اطاع ۱۳ دنی و مناسب و احسارات و را ب عادی مافلان می سافد براسای اردامیاهای حصل آهند از سوی کارگروه استجیای اردامی، صاحب از شکل به دردارد با ۱۹۲۲/۲۰۱۱ با نیزاط دیل جهت افغان حصدت تعمیرات استین ماشیرهای فول هر نے لیجای تامہ ور رت بعث تابید افردیت سٹ ردید. از ایش و معلیدس که شرکت در آنها مارای صلاحیت می ملفت عبارشد ایا

0 7 1 100/41 100/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41 110/41		1
		- 1
10 10 10 10 10 10 10 10		
		-
		-
	ant	1 1
10 1 1 1 1 1 1 1 1 1	38	
		-
15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-
P 4 CK195 ESAU BORSIC P 4 M97 189 2 2011 CT TLARS	1 2	1.1
TF JANET JAN JUNES TLAKE		
		100
	7 8	1.71
TF 1 JOHDS STEEL		7.75
COSK_COSK_COSK_COSK_COSK_COSK_COSK_COSK_		
DRESSTE BANK S. GNO P.C. N. S. ELINT GROW	2	10

٢. اورتن لين مجوز به مدن چهار سال از تربخ هدور مي باشد. عرکونه عمم در شاخصهای این رأور شرکت در مدل های ارزیابی باید حداکتر طرف مدت یکساه به این معاونت اصلام گردند و در غیر اینصورت مجور صادره فاقد احتدار است

هاون مهندسی، پژوهش و فناوری





Certificate of Registration

This is to certify that the

Alborz Turbocompressor Co.



Located at:

Central Office: No.89, West Nahid St., Africa Blvd., Tehran, Iran. Factory: No.2, Poursina Alley, 22nd Km of Tehran-Karaj Express Way. Tehran, Iran.

for

Designing and Manufacturing of Major Meclanical Components and Parts for Gas-and Steam Turbines, Axial and Centrifugal Compressors, and Also Power Transmission Gearboxes, as well as Maintenance, Overhaul and Troubleshooting of Those Equipment Exclusively Used in Oil, Gas, Refinery and Petrochemical

Has been assessed and registered against the provisions of

ISO14001:2015

International Standard

Conflication Number 1902003 Corrent Dave November 23, 2019 NACE Code 2K193 Original Date: November 23, 2389 Explosion Date: November 22, 2002



وليس مارمان صنايع و معاهن استان ُ تبوانَ

المهموستان الهمسيدان

رشه وارجه

كار فيد بيني خونوس حكايدي إسلمت والتولدوا عارضتاسي ارشد

بيشس مسيح

الشائي داراده جواز تاسيس بنوار افريقاء بالاتراز شفر كوب ليلوثي بلاك؟ ياحدا

PROPERTY SALES TO SALES TO STORY OF

WM /14/ F. 16-

رميف عامونام رشدومرجه

Mel/ 9.4.4 -

Certificate of Registration This is to certify that the

Alborz Turbocompressor Co.

وزارت صنايع وععادن

المشان وهسيران

رديف فامونام

Jan come

ستارح ماشون سازي ۽ نجهوز ت

Statut.

تاسيس واحد فني مهندمي با مشخصات ذيل اقدام نمايد، مشخصات بيروي السالي



Located at:

Central Office: No.89, West Nahid St., Africa Blvd., Tehran, Iran. Factory: No.2, Poursina Alley, 22st Km of Tehran-Karaj Express Way, Tehran, Iran.

Designing and Manufacturing of Major Mechanical Components and Parts for Gas: and Steam Turbines, Axial and Contribugal Compressors, and Alao Power Transmission Gerationses, as well as Maintenance, Overhaul and Troubleshooting of Those Equipment Exclusively Used in Oli, Gas, Reflinery and Petrochemical industries.

Has been assessed and registered against the provisions of

ISO45001:2018

International Standard

TAPCodeta Certification Number: 19877003 Current Date: November 23, 2009 Medificación Dane: N/A

NACE Gole: DK29.5 Original Date November 23, 2017 Espiration Date November 12, 2022



Registration in adjusted to the management spaces into a continually associated by the above residual and register anywhere. Small corrections are also place when required registration shall be associated. This confidence in the property of all most inc.

Dennis Rossell Covellection Director

Assume as is rejected to the recognised space being continuely automated or the above-to-shall ender against above the being selected and the recognised and the property of allies of the continue of the configuration of the property of allies of the configuration of the configurati



Certificate of Registration This is to certify that the

Alborz Turbocompressor Co.



Located at:

Central Office: No.89, West Nahid St., Africa Blvd., Tehran, Iran. Factory: No.2, Poursina Alley, 22nd Km of Tehran-Karaj Express Way, Tehran, Iran.

for

esigning and Manufacturing of Major Mechanical Components and Parts for Gas. and Steam Turbines. Axial and Centrifugal Compressors, and Also Power numberion Gearboxes, as well as Maintenance, Overhaul and Troublesbooting of Those Equipment Exclosively Used in Oil, Gas, Refinery and Petrochemical

Has been assessed and registered against the provisions of

ISO9001:2015

International Standard

Certificative Number: GATCITES Current Date November 25, 2010 Madification Date: N/A

NACE Code DK29.5 Original Date: April 25, 2016 Espiration Date: November 32, 3023



Beanis Ressell Certification Director Toronto, Canada

Suggestion is religious to the categorists opinion belogicationally emissional to the above standard ander regular standard and accordance metalia place which regular standard restricts in the property of Administration

OUR MAJOR CLIENTS

- National Iranian Oil Co. (NIOC)
 - National Iranian South Oil Co. (NISOC)
 - Aghajari Oil and Gas Producing Co.
 - Gachsaran Oil and Gas Producing Co.
 - Karoun Oil and Gas Producing Co.
 - Maroun Oil and Gas Producing Co.
- National Iranian Gas Co. (NIGC)
 - South Pars Gas Complex (SPGC)
 - National Iranian Gas Transmission Co. (NIGTC)
 - Gas Refineries (Fajr-Jam GR, Sarkhon GR, Bidboland GR, etc..)
- National Iranian Oil Refining & Distribution Co. (NIORDC)
 - Most of the 12 major refineries in Iran
 - National Iranian Oil Pipeline and Telecommunication Co. (IOPTC)
- Iranian Offshore Oil Co. (IOOC)
- Most of 43 Private and state owned Petrochemical Companies
- National Iranian Copper Industry Co.
- Etc...

OUR CORE COMPETENCIES

- Engineering Know-how (Based on most up-to-date industry standards)
- Lower Cost in comparable quality (compared to OEMs)

 10 years of manufacturing knowledge and state of the art supply chain allows AlborzTC to provide comparable quality products with much lower cost comparing to OEMs
- Shorter <u>Delivery time</u> (Compared to OEMs)

 Nimble facility procedures along with fast engineering response allows AlborzTC to provide service in much faster past comparing to that of OEMs

1. Engineering and Design Dep.



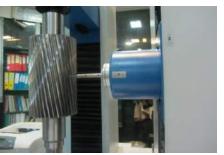


2. Preseason Measurement QC/QA & CMM









3. Metallurgy Dep. & Testing Laboratory









4. Machine Shop & Manufacturing











5. Project Management & Scheduling



6. NDI Shop
Clean, UT, PT, MT







7. Overhaul & Maintenance Shop









8. Heat Treatment & Brazing











Major Brands we have experience on:

GAS TURBINES

- SOLAR® (Saturn, Centaur, Mars)
- RUSTON® (TA, TB, TD) / SGT100-300
- ROLLS ROYCE® (AVON® 1533, 1534, 1535)
- GE/NUOVO PIGNONE®(MS5000, PGT)
- Dresser Clark® / GEC® / COOPER®
- WERKSPOOR® (W₇₂M)

STEAM TURBINES

- ELLIOTT®
- DRESSER RAND®
- SIEMENS® KK&K
- SKODA®

















♦ COMPRESSORs

- ELLIOTT® (MB series)
- CLARK®
- SOLAR® (C16, C33 Series)
- NUOVO PIGNONE® (BCL Series)
- BORSIG® (GC₃88, Reciprocating)
- COOPER BESSEMER®
- SIEMENS®
- **❖** GEARBOXes
 - PHILADELPHIA®
 - RENK® (TA-50-X)
 - FLENDER-GRAFFENSTADEN®
 - DAVID BROWN®









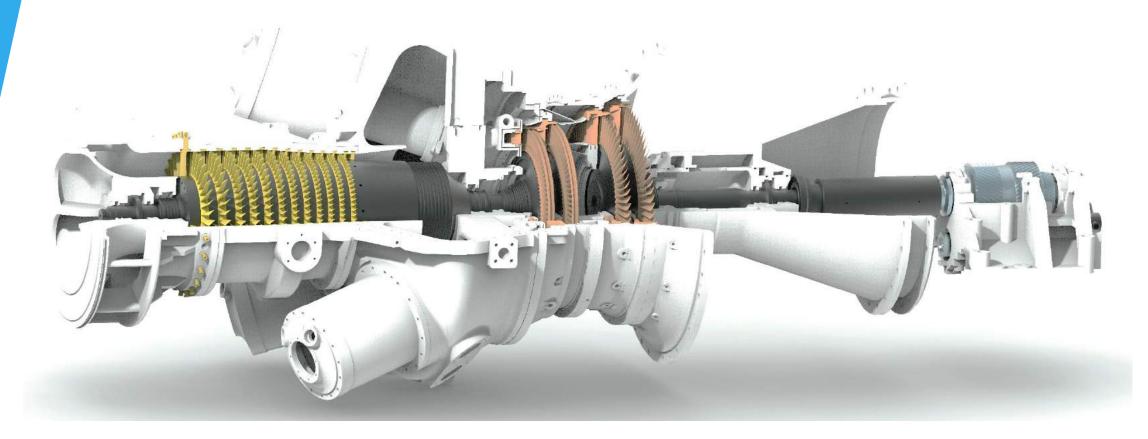




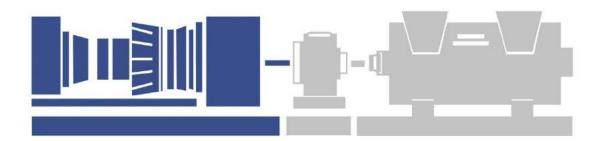




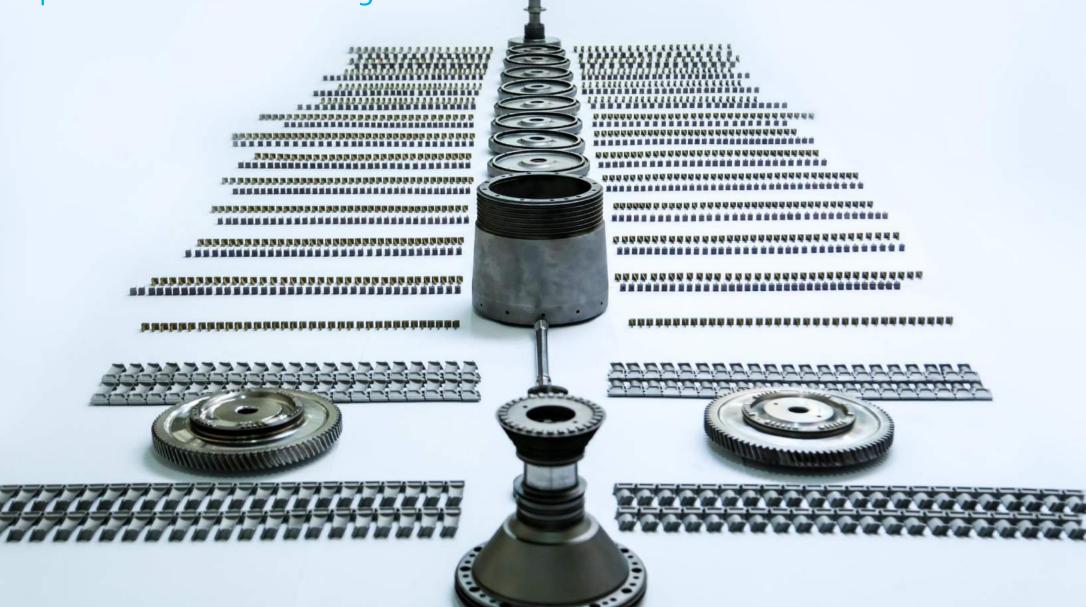




GASTURBINES

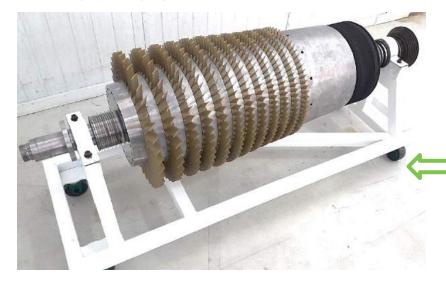


Industrial Gas Turbines
Capital Parts Manufacturing



Gas Turbine Capital Parts Manufacturing & Repair

Air Compressor (AC) Rotor



AC CT PT (Compressor Turbine) (Power Turbine)



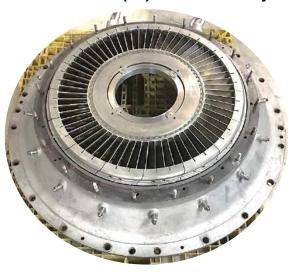
Gas Generator (GG) Turbine Rotor



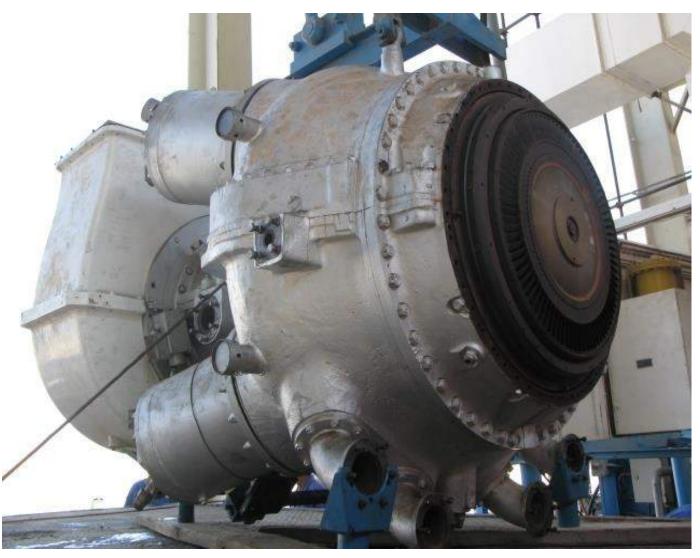


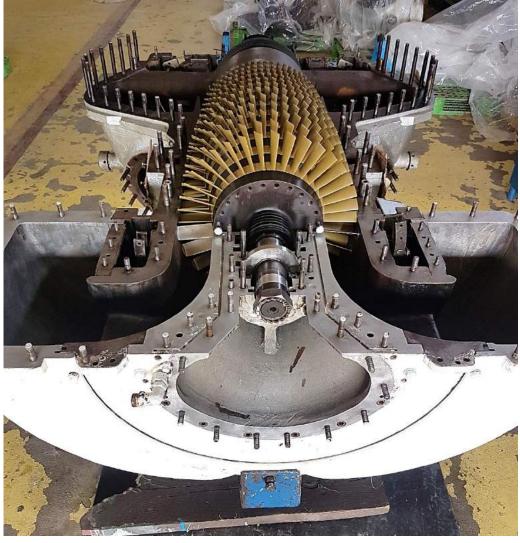
Combustion Liner

Power Turbine (PT) Stator Assembly



RUSTON® TB4000: Installation



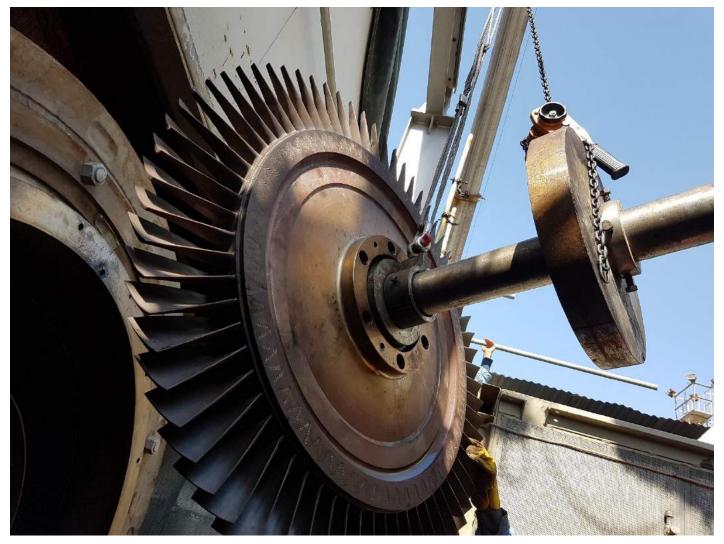


RUSTON® TB4000 Overhaul:

<u>Level D Major Overhaul</u>, Unit is Installed



ROLLS ROYCE DRESSER CLARK® DJ160 (PT)





Filter Room and Exhaust Revamping





SOLAR® Saturn:



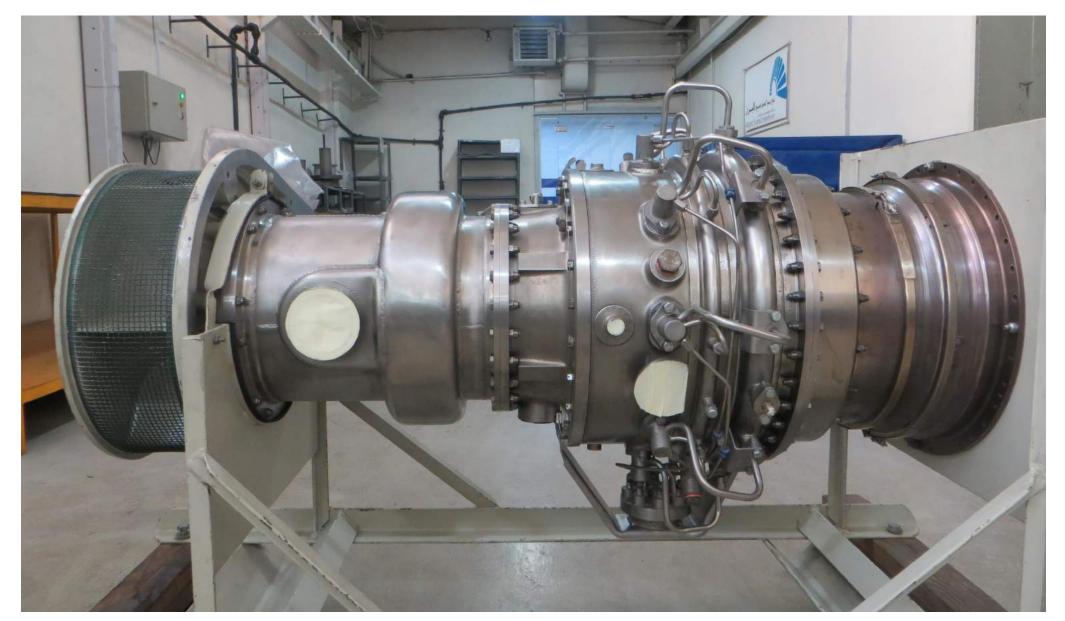


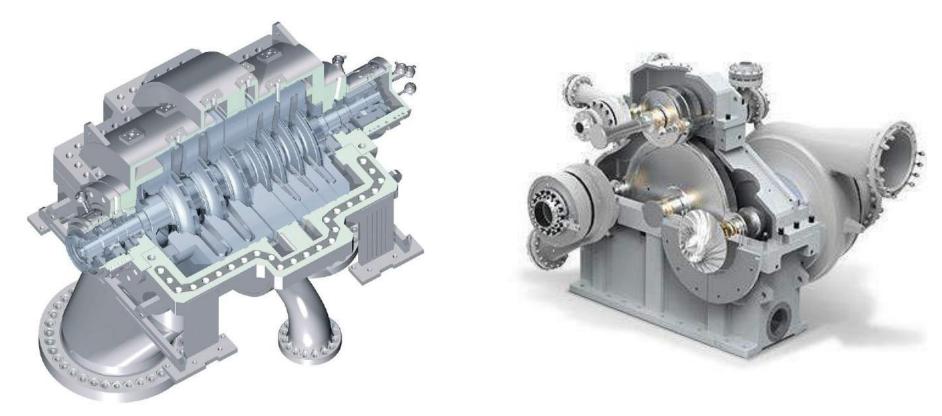
Complete Level C Overhaul
Major Components Manufactured
Retrofitted



SOLAR® Saturn:

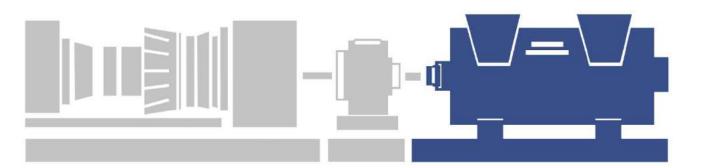
Overhauled Package Ready for Installation.





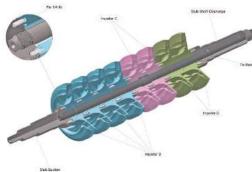
CENTRIFUGAL COMPRESSORS

Single Shaft Barrel type - Integrally Geared



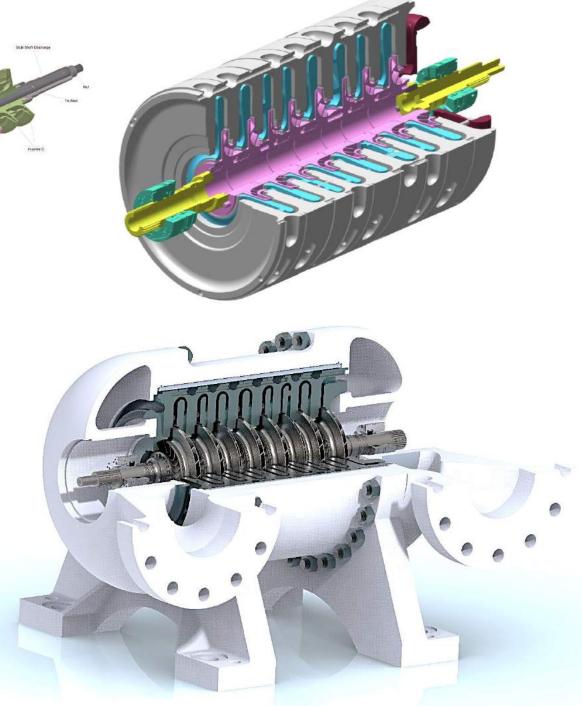
ROTOR Balanced



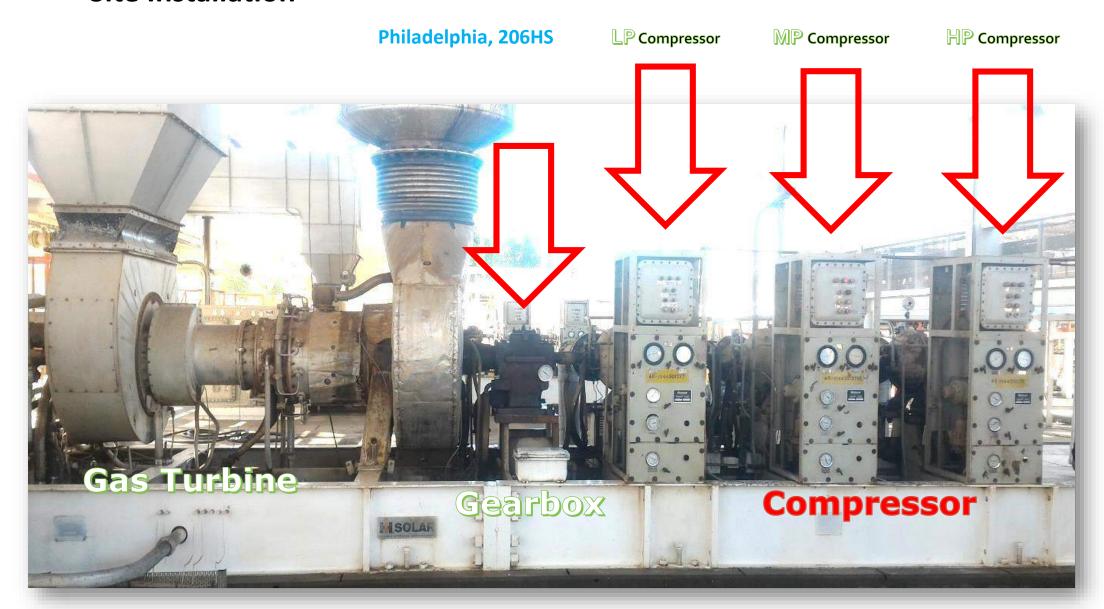








Site Installation



BORSIG® GC 355/8 Natural Gas Compressor Pipeline Application

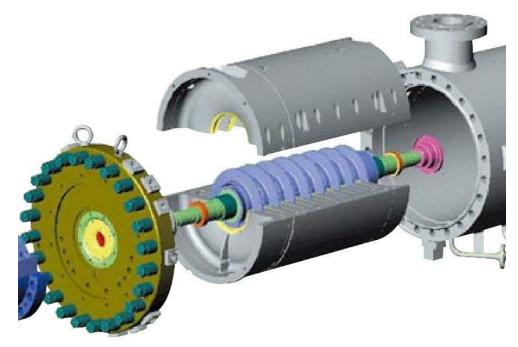


FULL REVAMP:

All Mechanical items
Bundle Assembly + Rotor are
manufactured

Compressor Installation



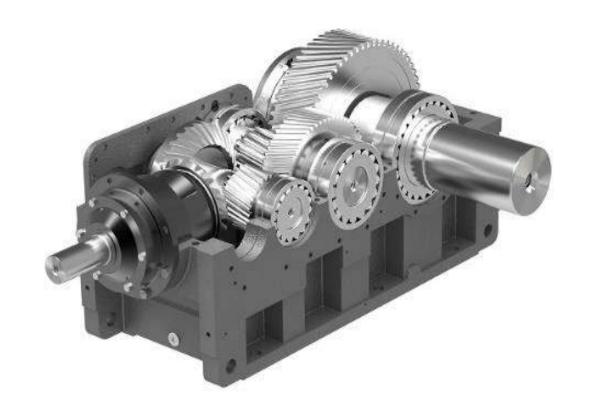


DRESSER CLARK® B4.5

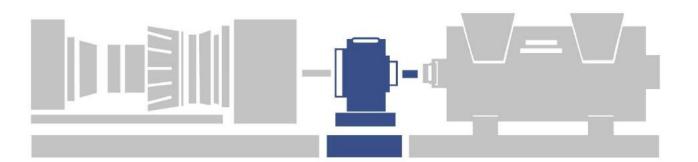
Natural Gas Compressor

Pipeline Application





INDUSTRIAL GEARBOXES



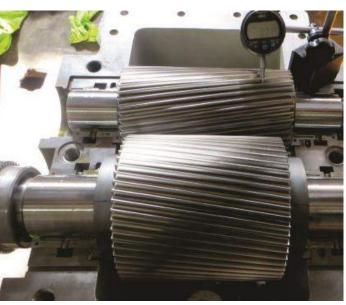
Finished Projects

Manufacturing of PHILADELPHIA® speed increasing gearbox, type 206HS

Equipment Specification

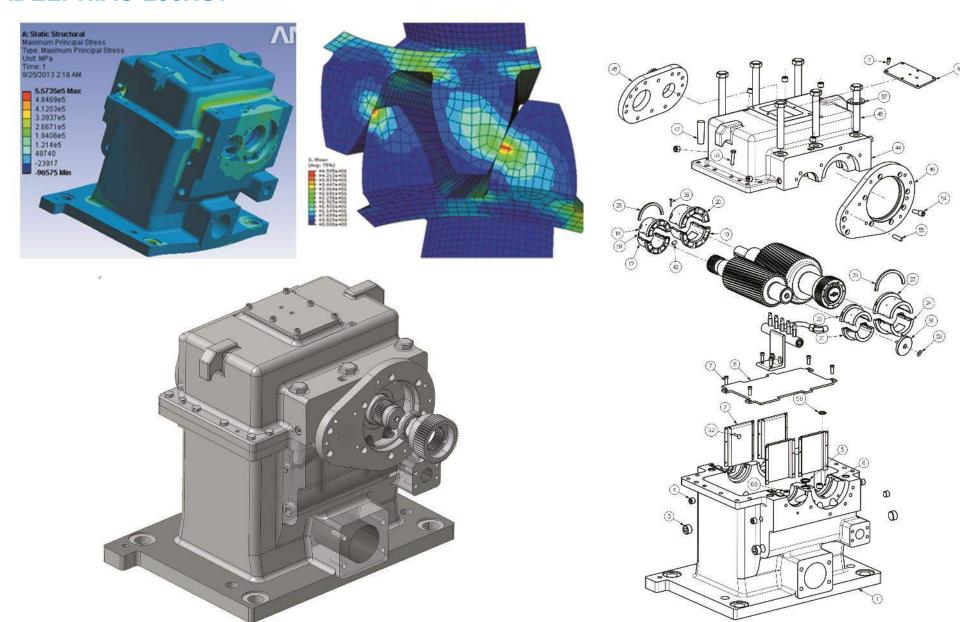
- Application: Power transmission from SOLAR® gas turbine to SOLAR® centrifugal compressors
- Driving gearbox: Solar Centaur 4000 Gas Turbine
- Gearbox Power: 4000 hp
- Gearbox input speed: 15,700 rpm
- Gearbox output speed: 22,543 rpm
- Ordered Units: 10 complete sets







PHILADELPHIA® 206HS:

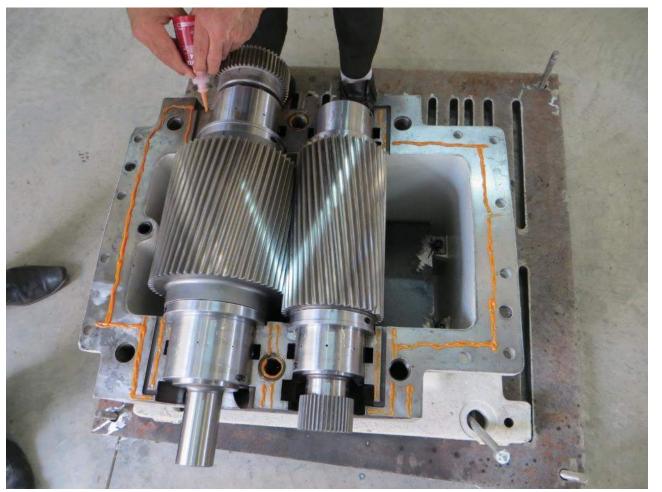


CELEVISION OF THE SHARE OF THE

PHILADELPHIA® 206HS:

Package Assembly

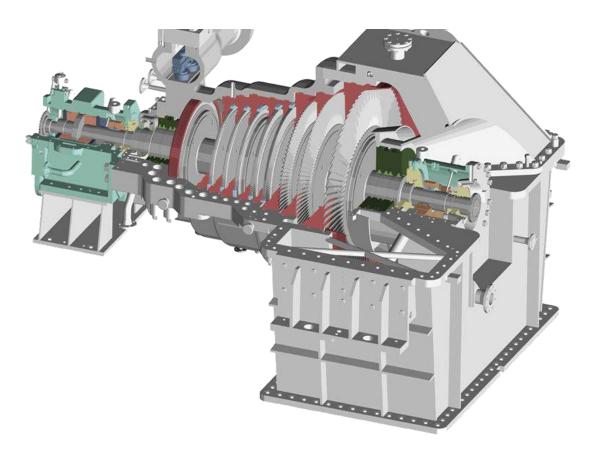
Vertical & Axial



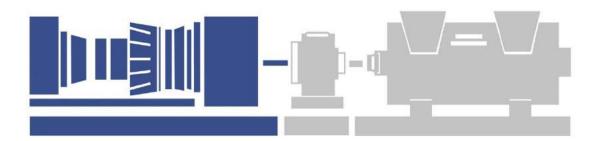
PHILADELPHIA® 206HS:







STEAM TURBINES



Manufacturing & Repair Steam Turbine Components:















THANK YOU



www.alborztc.com

#98 West Nahid St., Africa Blvd. Tehran, Iran.

Tel: +98 21 26208049 Fax: +98 21 26208054