



B&C Engineering and Construction
Via Ramazzotti 20, 20052 MONZA - ITALY





GENERAL INFORMATION

Name of Company	Bertolini & Company srl
Telephone	+39 039 2324588
Telefax	+39 039 2499128
General E-mail address	bcompany@bcompany.it
Firm established	May 05 th 2001
Chamber of Commerce	Registration nr. 1650568 – Milan
Quality Certifications	ISO 9001/2015 (in progress)
Head Office	Via Ramazzotti 20, 20900 Monza (MB) – Italy

ORGANIZATION

Chairman	Roberto Marelli	
Managers	Carlo Crepaldi	Vessel Manager
	Roberto Marelli	Engineering Manager
	Luca Angelicchio	Drafting Manager
	Corrado Scarinzi	Site Manager
Employees	nr. 9	Engineering activities
	nr. 10	Site activities (erection)



COMPANY ACTIVITIES

Design and Supply of Integrated Flare Systems

- Derrick supported flares
- Derrick supported demountable flares
- Guy wire supported flares
- Self supported flares
- Enclosed ground flares
- Towers and booms for offshore flare installations

Technical Design and Consultancy Services

- Structural and mechanical design/drawings of derrick structures, towers and booms
- Maintenance and mechanical handling systems for both onshore and offshore applications
- Design and development of detailed fabrication/erection drawings
- Erection and safety studies

Installation/Erection

- B&C employ their own construction and installation crew and will provide all labour, workforce and plant necessary to erect equipment supplied by B&C or others.

Design, Supply and Erection of Steel Structures

- Steel structures for bridges
- Flying bridges
- Industrial structures
- Frameworks for steel buildings
- Lattice towers and masts for electrical lines and power cables
- Lattice towers and masts for telecommunications
- Design and development of detailed fabrication/erection drawings

Design and Supply of Vessels, Heat Exchangers, Storage Tanks

- Process, thermal and mechanical design with development of engineering drawings and specifications
- Development of detailed fabrication drawings
- Inspection and supervision

Piping /Transfer lines Design

- Piping process sizing including internal lining, sizing for high temperature or other process requirements
- Piping layouts
- Stress analysis and support definition, general piping studies.



Concrete and steel structures design

Turbines and compressors foundations
Columns and reactors foundations
Pipe rack foundations
Shelters
Pipe racks
Lifting structures check

Expediting/Inspection

B&C can carry out expediting/inspection activities in steel structures with own or external personnel.
Using last planning system programs, it can follow all the order in all its phases:

- Engineering and drawings
- Q/C procedures
- Material purchasing and suborders
- Fabrication schedule and progress
- Tests execution
- Preassembly activities
- Surface treatments
- Packing and shipping
- Final documentation

Detailed reports covering all the points above, are prepared and sent to Client that can have a clear situation of the job.

Design Capabilities

Engineering (mechanical, structural, instrument, control, electrical)
Engineering drafting, CAD design
Project management
Procurement
Planning
Fabrication
QA/QC
Inspection
Transportation/Shipping
Construction/Erection
Pre-commissioning/Commissioning
Maintenance
After sales service



Standards and Codes

B&C engineering department is familiar with most international Oil and Gas standards and codes and has worked extensively to standards and codes imposed on us by all the Oil and Gas Majors, Multi-Nationals and Contractors.

American Society of Civil Engineer	ASCE
American Institute of Steel Construction	AISC
American Petroleum Institute	API
American National Standards Institute	ANSI
American Society of Mechanical Engineer	ASME
Uniform Building Code	UBC
Pressure Equipment Directive	PED
International Building Code	IBC
American Concrete Institute	ACI
Eurocodes	EN
Australian/New Zealand	AS/NZS
French Code	BAEL, NV66, CM66
British Code	BS
Algerian Code	RNV99, RPA99
Russian Code	SNiP, SP
Indian Code	IS
International Committee for Industrial Chimneys	CICIND
Belgian Code	NBN
Argentinian Code	CIRSOC
Venezuelan Code	COVENIN
Malaysian Standard	MS
Mexican Code	CFE
Canadian Code	NBC
Peruvian Code	NTE, RNE
Saudi Arabia Building Code	SBC
Italian Code	NTC08

Quality Assurance/Quality Control

B&C has started the procedure for the ISO 9001/2015 Quality Assurance.



Information Technology

B&C uses the following software:

Autodesk Simulation Suite 2013
STAAD PRO V8i
Mecastack 5.2.9.3
STS
Tecnometal
Bocad
Tekla R16
Autodesk Autocad 2016
Autodesk Inventor 2016
Autodesk Naviswork 2016
Microsoft Office package
Codeware Compress
Sant'Ambrogio VSR
Caesar II

Drawings can be provided as Autocad output files .DWG or as .DXF files. Documents are generally produced on Microsoft Word or Excel and any of the formats supported by these packages can be exported.

B&C office has Internet connection and can receive or transmit documents electronically.

Our e-mail addresses are :

General : bcompany@bcompany.it

Sales area : carlo.crepaldi@bcompany.it

Technical area : roberto.marelli@bcompany.it

Our web site is : <http://www.bcompany.it>



FLARES - Projects

CLIENT	PROJECT	LOCATION	DESCRIPTION
HAMWORTHY COMBUSTION	EGYPTIAN MAINTENANCE	EGYPT	65m Derrick 1x28" Riser
HAMWORTHY COMBUSTION	SOUTH PARS PHASE 4&5	IRAN	2x125m Derrick 2x36" Risers
JOHN ZINK JAPAN	HAINAN REFINERY PROJECT	CHINA	125m Derrick - Demountable 2x48"+1x24" Risers
ZEECO	EGYPTIAN MAINTENANCE	EGYPT	60m Derrick 1x24" Riser
ZEECO - CTJV	QATARGAS PROJECT II	QATAR	200m Derrick - Demountable 2x58"+1x46"+1x40" Risers
ZEECO - CTJV	QATARGAS PROJECT II	QATAR	200m Derrick - Demountable 2x46" Risers
ZEECO - CTJV	QATARGAS PROJECT II	QATAR	165m Derrick - Demountable 2x58" Risers
HAMWORTHY COMBUSTION - SNAMPROGETTI	GASCO 3 PROJECT	QATAR	130m Derrick 2x28"+1x30"+1x36"+1x40" Risers
JOHN ZINK A.P.	TASNEE PROJECT	SAUDI ARABIA	140m Derrick 1x60" Risers
JOHN ZINK A.P.	TASNEE PROJECT	SAUDI ARABIA	80m Derrick - Demountable 2x36" Risers
JOHN ZINK A.P.	LAFFAN REFINERY	QATAR	125m Derrick - Demountable 2x36" Risers
HAMWORTHY COMBUSTION ABB LUMMUS	FLARE PACKAGE A 15210	SINGAPORE	100m Derrick - Demountable 1x64" Riser
JOHN ZINK USA	ETHANE SEPARATION PROJECT	THAILAND	115m Derrick - Demountable 2x(81"+48")+1x(64"+36") Risers Air assisted
THERMOENGINEERING	MANTUA REFINERY UPGRADING	ITALY	76m Derrick 1x10"+1x34" Risers
THERMOENGINEERING	TEHERAN REFINERY UPGRADING	IRAN	80m Guyed derrick 1x48" Riser
MAN FERROSTAAL	SOHAR METHANOL PLANT	OMAN	79m Derrick 1x54" Riser
JOHN ZINK USA	AFOP PROJECT	ALGERIA	2x56m Derrick 1x48"+1x24"+1x12" Risers



CLIENT	PROJECT	LOCATION	DESCRIPTION
ZEECO	YERP PROJECT	SAUDI ARABIA	200m Derrick 2x72" + 1x30" Risers
HAMWORTHY COMBUSTION	FARE PACKAGE Z-1901	ARGENTINA	115m Guyed flare 1x50" Riser
ZEECO	JERP PROJECT	SAUDI ARABIA	175m Derrick - Demountable 2x80" + 1x66" + 1x32" Risers Steam assisted
HAMWORTHY COMBUSTION	GASKO 4 PROJECT	QATAR	140m Derrick 1x36" + 1x48" + 2x42" + 1x32" Risers
HAMWORTHY COMBUSTION	RUWAIS EXPANSION PROJECT	QATAR	205m Derrick 1x68" + 1x60" + 1x36" Risers Steam assisted
HAMWORTHY COMBUSTION	RUWAIS EXPANSION PROJECT	QATAR	205m Derrick 1x80" + 1x500" Risers Steam assisted
AIROIL INDIA	CRUDE & FINISHED PRODUCTS FACILITY	INDIA	76.5m Derrick - Demountable 2x24" Risers Steam assisted
CALLIDUS	LSTK-7	INDIA	131m Derrick - Demountable 1x80" + 1x66" + 1x60" + 1x54" + 2x36" Risers Steam assisted
CALLIDUS	ONSHORE COMPRESSION STATION 4	SINGAPORE	81m Derrick 1x(64" + 36") Air assisted
ZEECO	TUPRAS RESID UPGRADING PROJECT	TURKEY	185m Derrick - Demountable 1x74" + 1x46" + 1x20" Risers Steam assisted
TECNOFORNINDUSTRIA	BADRA OIL FIELD	IRAQ	80m Derrick 1x24" + 1x16" + 1x6"
THERMOENGINEERING	BANDAR ABBAS GAS REFINERY	IRAN	2x130m Derrick 1x72" + 1x36" + 1x24"
AIROIL INDIA	CRUDE & FINISHED PRODUCTS FACILITY	INDIA	76.5m Derrick - Demountable 2x24" Risers Steam assisted
CALLIDUS	LSTK-7	INDIA	131m Derrick - Demountable 1x80" + 1x66" + 1x60" + 1x54" + 2x36" Risers Steam assisted
CALLIDUS	ONSHORE COMPRESSION STATION 4	SINGAPORE	81m Derrick 1x(64" + 36") Air assisted
ZEECO	TUPRAS RESID UPGRADING PROJECT	TURKEY	185m Derrick - Demountable 1x74" + 1x46" + 1x20" Risers Steam assisted
TECNOFORNINDUSTRIA	BADRA OIL FIELD	IRAQ	80m Derrick 1x24" + 1x16" + 1x6"



CLIENT	PROJECT	LOCATION	DESCRIPTION
THERMOENGINEERING	BANDAR ABBAS GAS REFINERY	IRAN	2x130m Derrick 1x72"+1x36"+1x24"
ZEECO	TEMPA ROSSA PROJECT	ITALY	135m Derrick 1x(64"+18")+1x20"+1x18" Air assisted
THERMOENGINEERING	ETHYDCO'S COMPLEX PROJECT	EGYPT	126m Derrick - Demountable 1x36"+2x20" Risers Steam assisted
AEROIL FLAREGAS FLAREINDUSTRIES	KOCHI REFINERY	INDIA	145m Derrick - Demountable 3x56"+1x20" Risers Steam assisted
FLAREINDUSTRIES/AEREON	TAQA PRODUCTION FACILITY PHASE 1	IRAQ	61m Dderrick 1x(48"+16")+1X16"1x20" Risers Air assisted
FLAREINDUSTRIES/AEREON	KNPC PROJECT EOCENE FLARE	KUWAIT	90m Derrick - Demountable 2x20" Risers Steam assisted
ZEECO/INGASTECH	JSC TANECO	KAZAKISTAN	140m Derrick - Demountable 2x56"+1x36" Risers Steam assisted
ZEECO	QGC	AUSTRALIA	42m Guyed flare 1x30+1x26" Risers
ZEECO	GAS COMPRESSION AND REINJECTION STATION-ZCINA	ALGERIA	36m Self supported flare 1x68" Riser
ZEECO	GAS COMPRESSION AND REINJECTION STATION-ZCINA	ALGERIA	50m Self supported flare 1x98" Riser
ZEECO	BAYER CROP SCIENCE	USA	60m Self supported flare 1x54" Riser
ZEECO	RUMAILA PROJECT	IRAQ	27m Self supported flare 1x54"+1x8" Risers
ZEECO	RUMAILA PROJECT	IRAQ	27m Self supported flare 1x54"+1x8" Risers
ZEECO	JORDAN PHOSPHATE MINES COMPANY (JPMC)	JORDAN	30m Derrick 1x10" Riser
ZEECO	FUTURE GROW PROJECT (TCO)	KAZAKISTAN	2x185m Derricks - Demountable 1x48"+1x24"+1x20" Risers



PETROCHEMICAL AND POWER PLANT - Projects

CLIENT	PROJECT	DESCRIPTION
FWI TOTALFINAELF	Hydrogen Recovery Unit PSA II Unit	Shelter, Compressors foundations, steel structures design
FWI AGIP MIGLIANICO	Oil Centre Miglianico	Steel structures design
FWI ERSAF	AUTOIL 2 Project	Shelter design
FWI ERSAF	Reactor R2101	Lifting equipment check
FWI HELPE	Column N4202 - Foundation	Foundation design
FWI SARPOM TRECATE	MINISIP Project	Concrete and steel structures design
FWI ESSO AUGUSTA	AUTOIL 2 Project	Concrete and steel structures design
FWI POLIMERI EUROPA	Ground Flare B3101-A	Concrete and steel structures design
FWI ERG-MED	Reactor 401 A/B	Concrete and steel structures design
FWI ERSAF	AUTOIL Project	Concrete and steel structures design
FWI BRITISH GAS TUNISIA	POWER PLANT Proposal	Concrete and steel structures estimation
TECHINT ENICHEM TARANTO	-	Steel structures design
BENTINI SpA	MnI Block 45 Project Burlington Resources, Algeria	Steel structures design
FWE ALCOA	Proposal	Concrete structures design
FWI	TAMOIL Mantova Refinery – Pipe rack	Concrete and steel structures design
FWI	TAMOIL Mantova Refinery –Column PV300	Concrete and steel structures design



EXPEDITING ACTIVITIES - Projects

CLIENT	PROJECT/CLIENT	DESCRIPTION
VOGHERA ENERGY	POWER PLANT 400MW/LOMELLINA ENERGY	Expediting and inspection for: turbine shelter steam condenser structures civil buildings
FWI	POLIMERI EUROPA ITALY	Expediting and inspection for pipe racks
FWI	MINISIP PROJECT/SARPOM TRECATE REFINERY ITALY	Expediting and inspection for steel structures
FWI	AUTOIL 2 PROJECT/ESSO AUGUSTA REFINERY ITALY	Expediting and inspection for steel structures
FWI	AUTOIL 2 PROJECT/ESSO AUGUSTA REFINERY ITALY	Expediting and inspection steel structures
FWI	SAHARA-BASEL	Expediting for steel structures
FWI	SARAS REFINERY ITALY	Expediting and inspection for pipe racks
FWI	POWER PLANT 400MW/TEVEROLA ENERGY ITALY	Expediting and inspection for steam condenser structures
SPX TECHNOLOGIES	ABRUZZO ENERGY/GISSI POWER PLANT ITALY	Expediting and inspection for steam condenser
ZEECO	QATAR GAS II PROJECT RAS LAFFAN - QATAR	Expediting for 200m height demountable derrick and risers
ZEECO	QATAR GAS II PROJECT RAS LAFFAN - QATAR	Expediting for 200m height demountable derrick and risers
ZEECO	QATAR GAS II PROJECT RAS LAFFAN - QATAR	Expediting for 165m height demountable derrick and risers
FWI	MANTUA REFINERY UPGRADING PROJECT ITALY	Expediting and inspection for 76m derrick and risers



Safety plans and erection

CLIENT	PROJECT	LOCATION	DESCRIPTION
ZEECO	QATAR GAS II PROJECT	RAS LAFFAN - QATAR	200m demountable derrick - Erection and Safety Plan - Erection
ZEECO	QATAR GAS II PROJECT	RAS LAFFAN - QATAR	200m demountable derrick - Erection and Safety Plan - Erection
ZEECO	QATAR GAS II PROJECT	RAS LAFFAN - QATAR	165m demountable derrick - Erection and Safety Plan - Erection
JOHN ZINK A.P.	TASNEE PROJECT	AL-JUBAIL SAUDI ARABIA	80m demountable derrick - Erection and Safety Plan - Site supervision
JOHN ZINK A.P.	TASNEE PROJECT	AL-JUBAIL SAUDI ARABIA	140m derrick - Erection Plan - Site supervision
HAMWORTHY COMBUSTION SNAMPROGETTI	GASCO PROJECT	RUWAIS - UAE	130m derrick - Erection Plan
HAMWORTHY COMBUSTION - ABB LUMMUS	FLARE PACKAGE A 15210	SINGAPORE	100m derrick - Erection Plan
JOHN ZINK USA	ETHANE SEPARATION PROJECT	THAILAND	115m demountable derrick - Erection Plan - Site supervision
THERMOENGINEERING	MANTUA REFINERY UPGRADE PROJECT	ITALY	76m derrick - Erection and Safety Plan - Erection
THERMOENGINEERING	TEHERAN REFINERY UPGRADE PROJECT	IRAN	80m guyed derrick - Erection Plan
MAN FERROSTAAL	SOHAR METHANOL PLANT	OMAN	79m derrick Erection Plan
HAMWORTHY COMBUSTION	GASKO 4 PROJECT	RUWAIS	140m derrick Erection Plan
ZEECO	YERP PROJECT	SAUDI ARABIA	200m derrick Erection Plan
ZEECO	JERP PROJECT	AL JUBAIL	175m derrick Erection Plan



200m Height Demountable Flare – Qatar



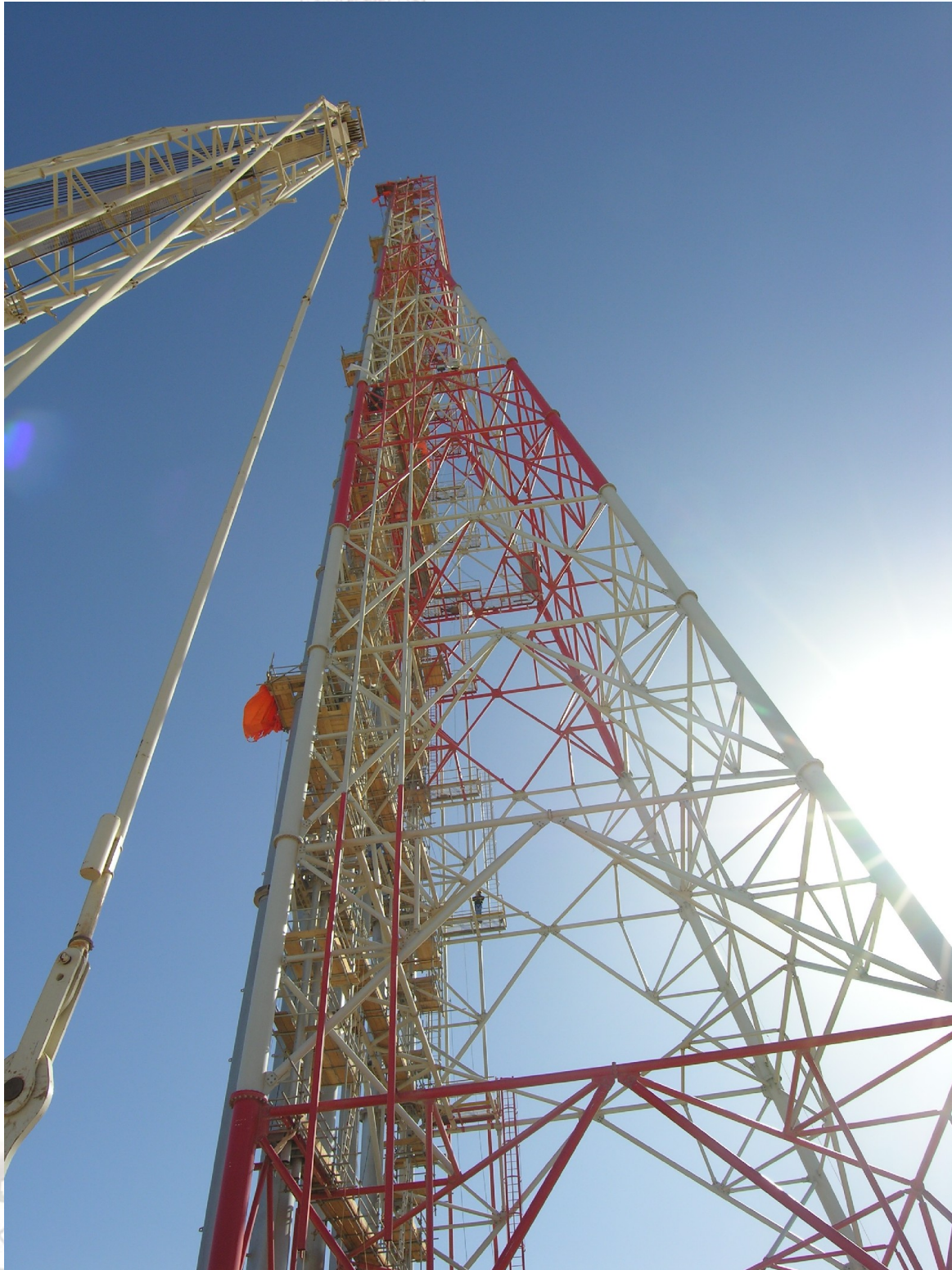
200m Height Demountable Flare - Qatar



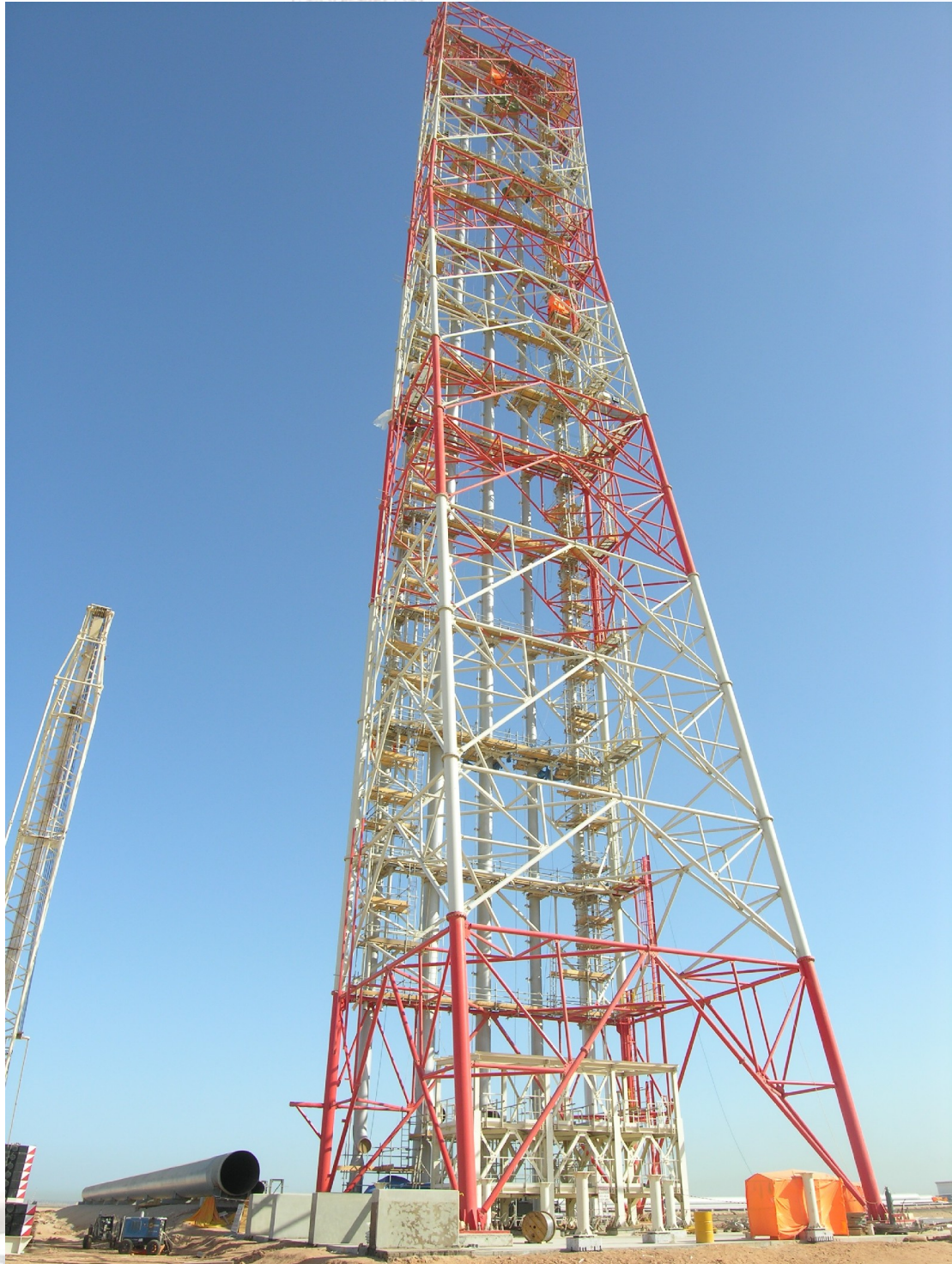
200m Height Demountable Flare - Qatar



200m Height Demountable Flare - Qatar



130m Height Fixed Flare - Ruwais



130m Height Fixed Flare - Ruwais



130m Height Demountable Flare - Qatar



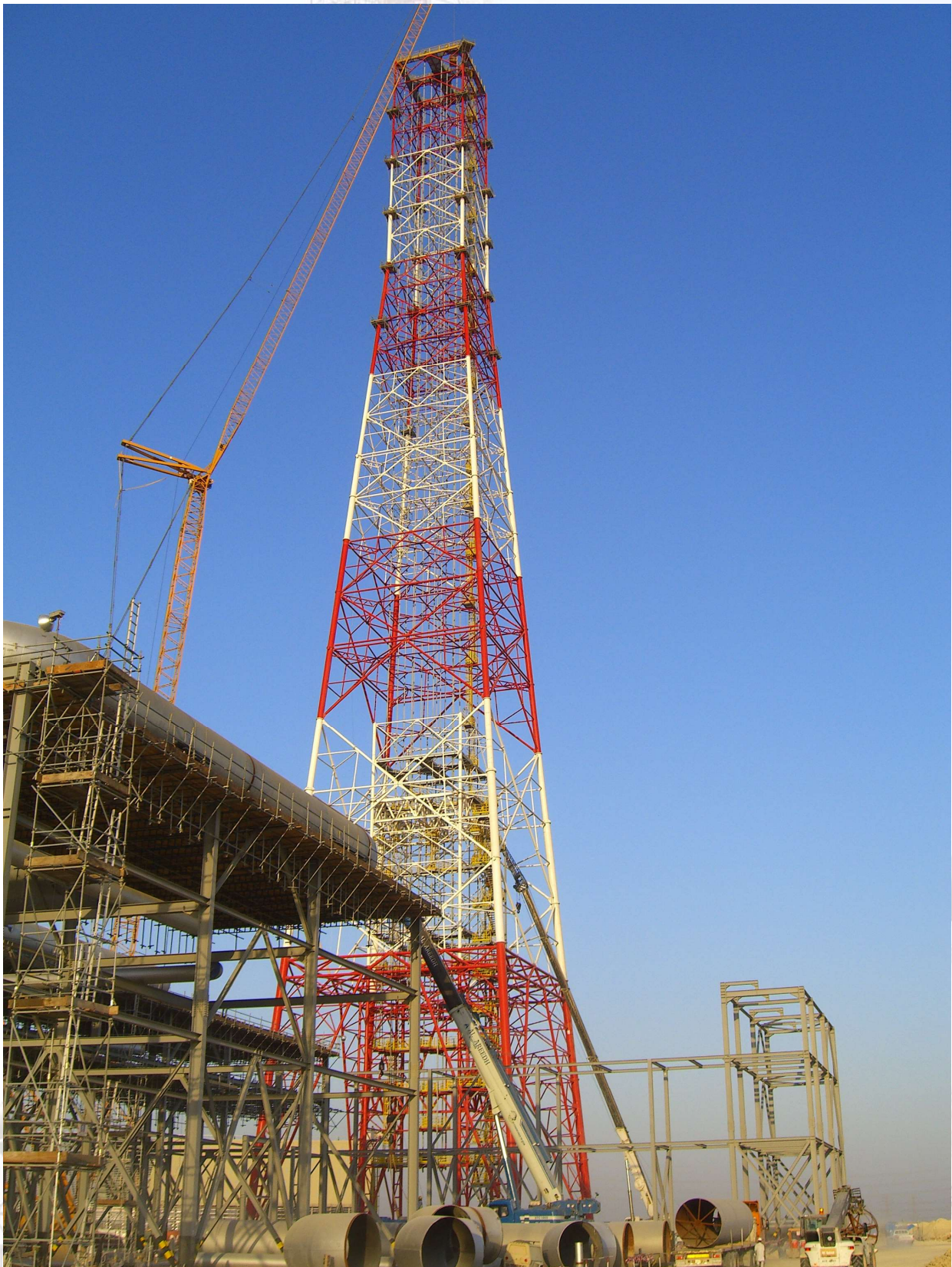
125m Height Demountable Flare - Singapore



80m Height Fixed Flare - Italy



175m Height Demountable Flare - Saudi Arabia



175m Height Demountable Flare - Saudi Arabia



205m Height Fixed Flare - Ruwais



185m Height Demountable Flare – Turkey



76m Height Demountable Flare – Paradip Refinery India



125m Height Demountable Flare – Paradip Refinery India



125m Height Demountable Flare – Paradip Refinery India



126m Height Demountable Flare – Egypt



136m Height Fixed Flare – Temparossa Italy



90m Height Demountable Flare – KNPC Kuwait



2x185m Height Demountable Flare – Kazakhstan