



PARMAPROGETTI  
Pipelines technology



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## 1. ABOUT US



Parmaprogetti has been established in January 1989 in Fidenza, province of Parma, by a group of engineers with a great deal of experience in electronics and automation, sectors that still today characterise the activity of the Company and that make it renown and appreciated world-wide.

The Company's main fields of activity are induction heating, heat treatments and automatic welding. A team of qualified engineers and technicians is constantly engaged in researching and developing high tech equipment to meet all the needs of the energy sector.

Over the years the Company designed and internationally patented several equipments.

The quality and reliability of Parmaprogetti products is guaranteed by international certificates:

Rina, Member of CISQ, ISO 9001:2000  
Certificazione Gost GOSSTANDART Russia  
Certificazione Vniist Russia  
Certificazione Europea di conformità CE



## 2. ACTIVITIES

Parmaprogetti developed its competences in the energy field, analysing its problems and requests the Company have found the best solutions and procedures to give its clients products, support and consulting in the following sectors:

- Pipe-line induction heating
- Post weld heat treatment (PWHT)
- Automatic welding

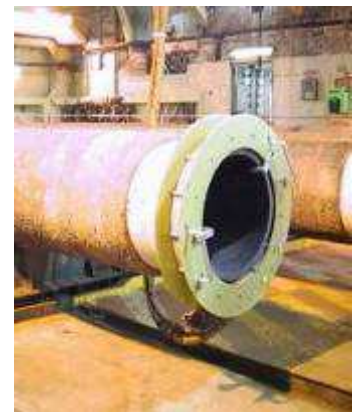
### 2.1 Induction heating



The pipes, used to carry out pipelines, should pass through specific processing phases such as welding and coating with shrink sleeves or epoxy powder fusion. All these operations must be carried out at higher than ambient temperatures, therefore the pipeline must be heated.

The most qualified international standards require the induction method, it means heating through currents induced directly into the pipe steel .

This method is greatly innovative compared with the traditional flame heating. The operation is safer, faster, cleaner and allows precise temperature control and uniformity over the whole area to be heated. It is also selective and it does not break into the coating and/or the painting next to the field joint. In addition the induction heating does not oxidise the sand-blasted surfaces and involves just the metallic part of the pipe.



Parmaprogetti manufactures different models of pipelines induction heating generators. Basically they can be divided into two categories: Static and self-supplied Motogenerators. A wide range of accessories, several types of Coils (inductors) in particular, are also available in order to meet every customer's need.



## 2.2 Heat treatments

If the welded structures will be affected by high pressure or stress, such as tanks, pipes, nests of boiler tubes, manifolds and so on, their welded parts require a further drawing in order to get a stress relieving and a homogenisation in the structure.

If the parts are small and transportable, this process can be carried out in a furnace but this becomes impossible for large parts or already included in large plants (power plants, chemical plants, pipelines etc.). In these cases our electric generators are necessary in order to heat the required parts through resistance heating elements or directly using induced magnetic fields, a "localized heat treatment" called PWHT (Post Weld Heat Treatment).



Parmaprogetti manufactures for these purposes generators equipped with a complete range of accessories which can meet all the field requirements, and offers consulting and operating services for heat treatments.



## 2.3 Automatic welding

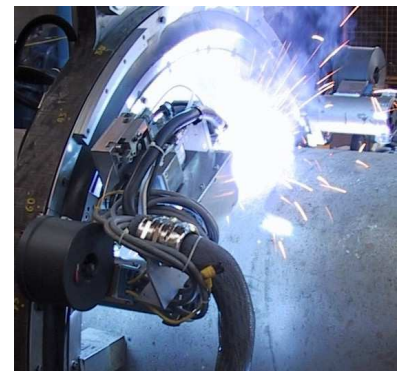
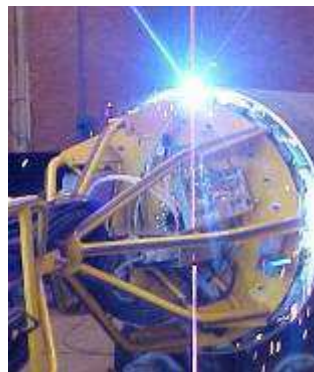
### Pipe-line automatic welding



The welding systems actually used for pipe-lines are improperly called automatic, because they need to work the determinant and fundamental help of an operator.

Parmaprogetti Robit® systems on the opposite are automatic because the operator's duty is only to start the machine. This is possible thanks to the transducers installed on the machine that sense all the geometrical and physical variations during the welding process. This is the reason why the system is totally automatic.

The range includes systems for internal first pass welding with coupler and systems for external welding with ring or band guide. Robit® is a Parmaprogetti's registered trademark.



## 2.4 Custom design

All Parmaprogetti's products come from the experience and from the research of the Company's engineers. Every equipment is studied, designed, manufactured and tested in order to create an efficient and certified product which has a higher quality on the market.

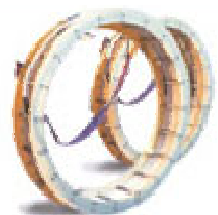
Focusing on the latest requests of the field, the Company is constantly developing the best solution in terms of quality, accuracy and workability. Parmaprogetti Engineering Division can meet all its clients' requirements developing custom designed equipment and systems.



### 3. PRODUCTS

#### 3.1 Induction heating

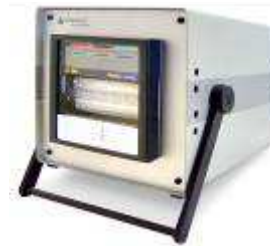
- Static generators
- Self-supplied motogenerators
- Fixed and openable coils (inductors)
- Accessories
- Special applications





### 3.2. Post weld heat treatments (PWHT)

- Resistance and induction static generator
- Flexible coils
- Flexible pannel resistances and special fitting resistances
- Thermocouples
- Insulating material
- Accessories



## 5. REFERENCES

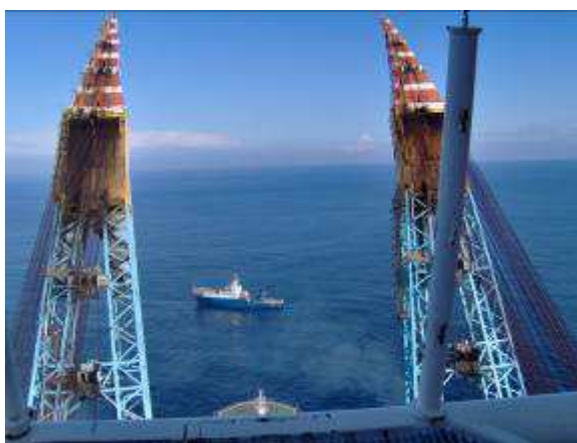
Some of the most important off-shore and on-shore companies are taking advantage of Parmaprogetti technologies since several years.

Here are some major names:

- Saipem S.p.a. (S.Donato Milanese – Italy)
- Saipem Asia (Kuala Lumpur – Malaysia)
- Saipem Portugal (Madeira – Portugal)
- Saipem Luxembourg (Luxemburg)
- Saipem France (Saint Quentin Yvelines Cedex - France)
- ERS (Sharjah - U.A.E)
- Consolidated Contractor Int. Co. (Athene – Greece)
- Punj Lloyd (New Delhi – India)
- Isotub Coating (Grande Synthe – France)
- Spie Capag S.A. (Cergy Pontoise Cedex – France)
- Bonatti S.p.A. (Parma – Italy)
- Impresa Tre Colli (Fidenza – Italy)
- Ghizzoni (Parma – Italy)
- Montell (Ferrara – Italy)
- Bassi Luigi & C. (San Rocco al Porto – Italy)
- AGIP Consorzio Valdagri Costruzioni (Parma – Italy)
- Techint Cimimontubi S.p.a. (Milano - Italy)
- Mermec (Monopoli -Italy)
- IOEC (Tehran - Iran)
- NPCC National Petroleum Construction Company (Abu Dhabi – U.A.E.)
- KGS (Moscow – Russia)
- RHS (Chester – England)
- PEMAMEK LTD (Finland)

## 6. PROJECTS WE TOOK PART IN

1991	Pipeline Rome-Bologna
1992	Pipeline Algeria-Italy
1993	Pipeline Sicily-Calabria
1994	Pipeline Passirano Indian Pipeline PGUP 111-Malaysia
1995	Montodine Pipeline Vasconia-Covenas Colombia Sicily- Pace Del Mela
1996	Castoro 5 Pipe-Barge set up
1997	Castoro 5 Pipe-Barge set up
1998	Pipe-Barge Israfil Guseino V"rr25" set up
1999	"J" Lay Project Saipem 7000
2000	Blue Stream
2002	Indonesia Project
2003	BS Gas Upstream "Yolla" Greenstream SPA LGTS S. Indonesia Peciko Project TSEP Woodside Australian Khoramshahr/Free Zone Petropars South Pars
2004	Pipe-Barge Crawler set up Naoc Rumuji Bonny Island Nigeria Castoro 10 Castoro 2 Eni Div. Agip Naide Jacket S. AIA Bongkot Baju darwin Pipeline BB C2 Sakhalin Sealines S. Asia Sealine Tbilisi Georgia AGT Pipeline Project



2005	Pipe Layer Barge Kashagan S.CML SMC1 Sakhalin PH2 Dolphin Energy Norsk H. Ormen Lang Norvegia Allestimento Pipe-Barge Castoro 8 Saipem Asia Sukl Sakhalin PH2 Pipe-Barge Castoro 2 set up INAGIP IKA IDA Ivana Pjt
2006	Norsk H. Ormen Lang Norway Pipe-Barge Castoro 12 set up Pipe-Barge Semac 1 set up
2007	Thai Oil Tran & Inst Eni Congo AWA Paloukou Tunisie Hasdrubal Pipe Yemen pipeline Cabinda gulf oil Mafumeria pipeline Blacktip offshore Kazak Kashagan Trunkline
2008	Abu Dhabi OAG Project Pipe-Barge S7000 set up Med Gaz project Cabinda Takula pipeline Wenchang offshore installation Eni Tunisia Epic for pipelines & platform Gep Block 17 Project, Poine Noire, Congo Olowi Project Gabon Semac 1 pipe-barge set up

2012	Usari 2 project - FDS2 - Karimun
	Husky Oil China Liwan project Pipelay barge Castoro 10 Pipelay barge Castorone Guara Lula - FDS2 - Karimun - Indonesia Lukoil Filanovsky EPIC Oil & Gas Desfa SA Stefani Aliveri project CPC construction Spread Russia Pipelay barge Crawler Saipem America C7 Dragon Cigma Venezuela Pipelay barge Castoro 7 S355 Cabuinas project
2013	Lukoil Filanovsky EPIC Oil & Gas
	Pipelay Barge Castoro 7 Pipelay barge Castorone Cardon IV Perla field project CRX project - Pointe Noire - Congo Pipelay Barge Castoro 2 P55 Project - FDS1 & FDS2 Vessel

2009	Nord stream UK focal point Agip Kazak Kashagan Castoro 12 INAGIP Adriatic Compaingn ENI E&P Annamaria LTA project Arabia S355 improvement Kashagan Project Libondo project Congo Barge Crawler, Saipem Nord Stream Saipem
2010	Barge Semac 1, Saipem Cepesa project, Saipem Barge S355, Saipem Castoro 10, Saipem Usari Project, Pointe Noire, Congo Kashagan Trunkline Project, Republic of Kazakhstan Integrated Gas Development (IGD) Umm Shalf Wellhead Towers Project – EPC works, NPCC Integrated Gas development Project – Offshore Facilities (IGD-HAP), NPCC
2011	Cobra Castor Pipeline Project, Saipem Barge S355 CastorOne project, Saipem PNG LNG EPC2 offshore project Barge Castoro 12 CPC construction spread project, Russia Liwan Deepwater EPCI project Barge Semac 1



## 7. CONTACTS

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