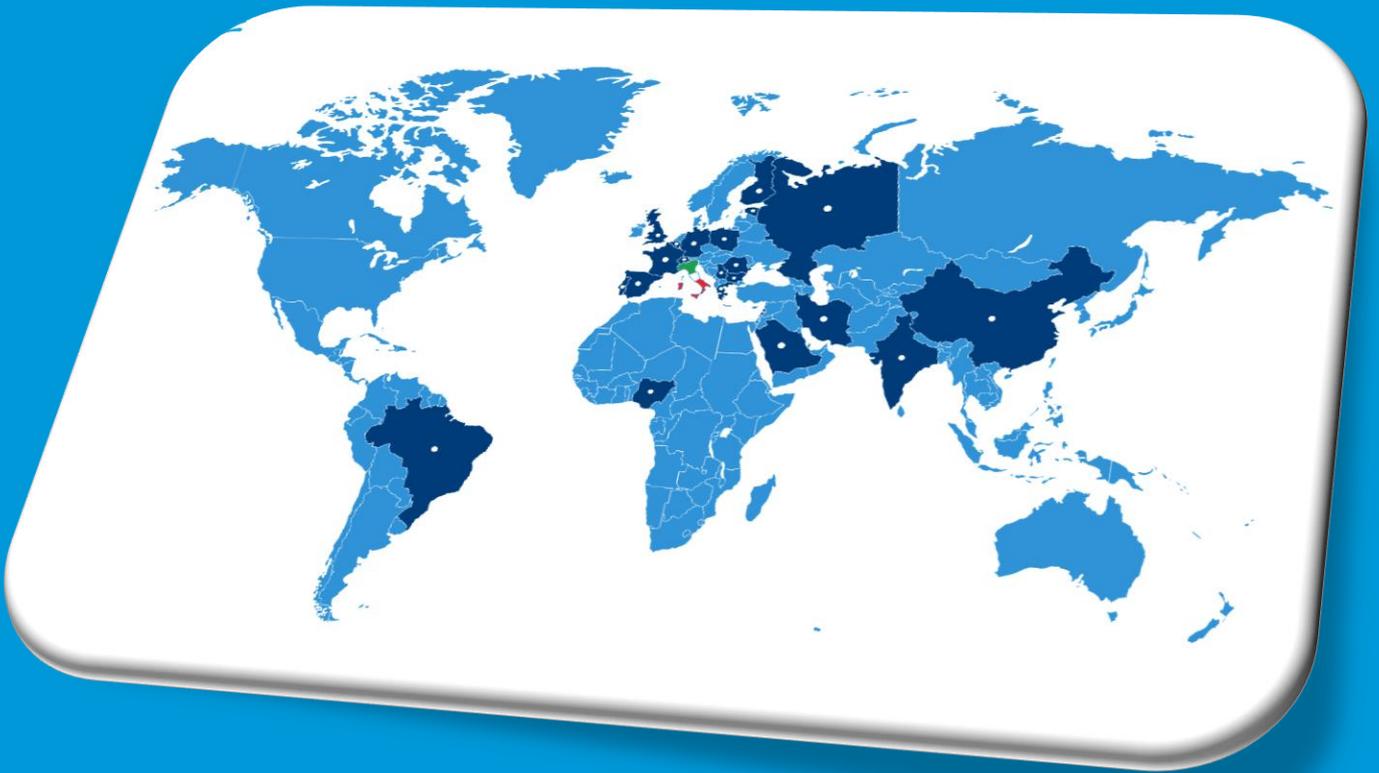


REFERENCE LIST

IMPREGNATION



METECH MAIN IMPREGNATION REFERENCE

SYSTEM	CUSTOMER	COUNTRY	CITY	CUSTOMER PRODUCT	YEAR
VPI	MARELLI MOTORI	ITALIA	VICENZA	MOTOR	1998
VI	MARNATE TRASF	ITALIA	VARESE	TRANSFORMER	1999
VI	TMC-ITALIA	ITALIA	VARESE	TRANSFORMER	2001
VI	MARNATE TRASF	ITALIA	TERAMO	TRANSFORMER	2001
VI	RANCAN	ITALIA	VICENZA	MOTOR	2002
VPI	ANSALDO	ITALIA	MONFALCONE	MOTOR	2002
VI	ELETTOMEC. RICCI	ITALIA	ANCONA	TRANSFORMER	2003
VI	ITALTRASFO	ITALIA	VARESE	TRANSFORMER	2003
VI	NUOVA MARNATE	ITALIA	VARESE	TRANSFORMER	2004
VPI	ELETTROFIZIKA	RUSSIA	ST.PIETROBURGO	TRANSFORMER	2004
VI	IRAN TRASFO	IRAN	TEHERAN	TRANSFORMER	2004
VI	TRAFOTEK	CINA	SOUZHOU	TRANSFORMER	2005
VPI	DIGI	ITALIA	UDINE	MOTOR	2005
VPI	VIOTTO	ITALIA	VENEZIA	MOTOR	2005
VI	ZUCCHIATTI	ITALIA	PORDENONE	TRANSFORMER	2006
VPI	ATB SEVER	SERBIA	SUBOTICA	MOTOR	2006
VI	BATTILANA	ITALIA	VICENZA	MOTOR	2007
VPI	HITECH	RUSSIA	MOSCA	TRANSFORMER	2007
VI	INTERMAGNETICS	ITALIA	PERUGIA	TRANSFORMER	2008
VI	NPK	RUSSIA	NIZHNY NOVGOROD	MOTOR	2008
VPI	ROTOR	SERBIA	BELGRADO	MOTOR	2008
VI	TMC-SPAGNA	SPAGNA	BILBAO	TRANSFORMER	2009
VI	TRAFOTEK	ESTONIA	TALLIN	TRANSFORMER	2010
VI	FIGAROLI	ITALIA	BERGAMO	MOTOR	2010
VI	NEWTON	ITALIA	SIENA	TRANSFORMER	2010
VPI	LTC	ITALIA	MILANO	TRANSFORMER	2010
VPI	MARELLI MOTORI	ITALIA	VICENZA	MOTOR	2010
VPI	SARAPUL	RUSSIA	SARAPUL	MOTOR	2010
VPI	SICME	ITALIA	TORINO	MOTOR	2010
VI	TRASFECO	ITALIA	LODI	TRANSFORMER	2011
VI	ISGEV	ITALIA	VENEZIA	MOTOR	2011
VPI	ELETTROFIZIKA	RUSSIA	ST.PIETROBURGO	TRANSFORMER	2011
VPI	POWER MACHINES	RUSSIA	ST.PIETROBURGO	MOTOR	2012
VI	SPELCO	ITALIA	PORDENONE	TRANSFORMER	2012
VPI	NAYTEX	GRECIA	ATENE	MOTOR	2013
VI	COMER	ITALIA	PAVIA	MOTOR	2014
VPI	ISGEV	ITALIA	VICENZA	MOTOR	2014
VPI	ELHAND	POLONIA	LUBLINIEC	TRANSFORMER	2014
VPI	ABB - INTERMAGNETICS	ITALIA	PERUGIA	TRANSFORMER	2014
VPI	MECCALTE UK	INGHILTERRA	OAKHAM	MOTOR	2014
VPI	MECCALTE POWER PRODUCTS	ITALIA	VICENZA	MOTOR	2014
VPI	ABB - ITALTRASFO	ITALIA	VARESE	TRANSFORMER	2014
VI	TRAFOTEK	BRASIL	ITU	TRANSFORMER	2015
VPI	ELHAND	POLONIA	LUBLINIEC	TRANSFORMER	2015
VPI	ABB	BULGARIA	SEVLIEVO	TRANSFORMER	2015
VPI	ZHUNGEER	CINA	ZHUNGEER	MOTOR	2015
VPI	ABB	SVIZZERA	MOLINAZZO DI M.	TRANSFORMER	2016
VPI	ENGIE GROUP	BELGIO	ANVERSA	MOTOR	2016
VPI	MECCALTE SPA	ITALIA	CREAZZO	MOTOR	2016
VPI	NIDEC SR DRIVES	INGHILTERRA	HARROGATE	MOTOR	2017
VPI	MECCALTE SPA	ITALIA	CREAZZO	MOTOR	2017
VPI	TG.EMME SERVICE	ITALIA	TORINO	MOTOR	2017
VPI	ABB SPA	ITALIA	MILANO	MOTOR	2018

VPI: Vacuum & Pressure Impregnation

VI: Vacuum Impregnation



YEAR 1998



Customer	MARELLI MOTORI - ITALY
Typology	VPI
Execution / certifications	ATEX intrinsic zone 1-PED
Resin	polyester-DOBEKAN, styrene based
Resin thermoregulation	Room temperature (15-28°C)
Impregnation chamber	Diam. 2000; H. 2000
Operating pressure	+6 bar
Dry Vacuum / Wet Vacuum	5 mbar / 100 mbar
Manual / Automatic	automatic
Impregnated product	Medium voltage motors

YEAR 2001



Customer	TMC-ITALIA
Typology	VI
Execution / certifications	standard
Resin	polyester-DOLPHON
Resin thermoregulation	Room temperature (22-28°C)
Impregnation chamber	Diam. 2000; H. 2000
Operating pressure	atm
Dry Vacuum / Wet Vacuum	10 mbar / 10 mbar
Manual / Automatic	automatic
Impregnated product	Distribution transformer - low voltage windings

YEAR 2004



Customer	ELECTROFIZIKA - RUSSIA
Typology	VPI
Execution / certifications	Standard-PED
Resin	polyester-DUPONT E-4011
Resin thermoregulation	Room temperature (22-28°C)
Impregnation chamber	Diam. 2200; H. 2000
Operating pressure	+6 bar
Dry Vacuum / Wet Vacuum	5 mbar / 10 mbar
Manual / Automatic	automatic
Impregnated product	dry-type transformers OP



YEAR 2005



Customer	TRAFOTEK OY-CHINA
Typology	VI
Execution / certifications	ATEX intrinsic zone 2; not classified area
Resin	polyester-DOLPHON, styrene
Resin thermoregulation	Room temperature (22-28°C)
Impregnation chamber	Diam. 1600; H. 1600
Operating pressure	atm
Dry Vacuum / Wet Vacuum	5 mbar / 10 mbar
Manual / Automatic	automatic
Impregnated product	transformers for inverters

YEAR 2006



Customer	ATB SEVER - SERBIA
Typology	VPI
Execution / certifications	Standard-PED
Resin	Epoxy – VOTASTAT 2110
Resin thermoregulation	Temperature: 10-60°C
Impregnation chamber	Diam. 1500; H. 2000
Operating pressure	+7 bar
Dry Vacuum / Wet Vacuum	1 mbar / 10 mbar
Manual / Automatic	automatic
Impregnated product	Medium and High voltage motors/generators

YEAR 2007



Customer	HITECH - RUSSIA
Typology	VPI
Execution / certifications	Standard-PED
Resin	Epoxy type
Resin thermoregulation	Temperature: 10-40°C
Impregnation chamber	Diam. 2000; H. 2000
Operating pressure	+7 bar
Dry Vacuum / Wet Vacuum	1 mbar / 10 mbar
Manual / Automatic	automatic
Impregnated product	Medium and High voltage reactors



YEAR 2009



Customer	TMC-SPAIN
Typology	VI
Execution / certifications	standard
Resin	polyester-DOLPHON
Resin thermoregulation	Room temperature (22-28°C)
Impregnation chamber	Diam. 2000; H. 2000
Operating pressure	atm
Dry Vacuum / Wet Vacuum	10 mbar / 10 mbar
Manual / Automatic	automatic
Impregnated product	Distribution transformer - low voltage windings

YEAR 2010



Customer	TRAFOTEK OY-ESTONIA
Typology	VI
Execution / certifications	ATEX intrinsic zone 2; not classified area
Resin	polyester-DOLPHON, styrene
Resin thermoregulation	Room temperature (22-28°C)
Impregnation chamber	Diam. 1600; H. 1600
Operating pressure	atm
Dry Vacuum / Wet Vacuum	5 mbar / 10 mbar
Manual / Automatic	automatic
Impregnated product	transformers for inverters

YEAR 2010



Customer	LTC - ITALY
Typology	VPI
Execution / certifications	Standard-PED
Resin	epoxy-ELANTAS Epoxylite 3700
Resin thermoregulation	Room temperature (22-28°C)
Impregnation chamber	Diam. 3150; H. 2500
Operating pressure	+5 bar
Dry Vacuum / Wet Vacuum	5 mbar / 10 mbar
Manual / Automatic	automatic
Impregnated product	Reactor cores

YEAR 2010



Customer	MARELLI MOTORI - ITALY
Typology	VPI
Execution / certifications	ATEX intrinsic zone 1; classified area zone 2-PED
Resin	DAMISOL 3309: polyester type, vinyltoluene based
Resin thermoregulation	Room temperature (15-28°C)
Impregnation chamber	Diam. 3150; H. 2500
Operating pressure	+7 bar
Dry Vacuum / Wet Vacuum	1 mbar / 10 mbar
Manual / Automatic	automatic
Impregnated product	High voltage motors

YEAR 2011



Customer	SARAPUL-RUSSIA
Typology	VPI
Execution / certifications	ATEX intrinsic zone 1; classified area zone 1-PED
Resin	Epoxy based, toluene, xilene, styrene
Resin thermoregulation	Temperature: 22-70°C
Impregnation chamber	Diam. 700; H. 600; heated 60°C
Operating pressure	+5 bar
Dry Vacuum / Wet Vacuum	5 mbar / 50 mbar
Manual / Automatic	manual
Impregnated product	Motors - special application

YEAR 2012



Customer	POWER MACHINES-RUSSIA
Typology	VPI
Execution / certifications	ATEX intrinsic zone 2; not classified area, PED
Resin	KP 55: Polyester type-toluene, xilene, styrene
Resin thermoregulation	Temperature: 10-70°C
Impregnation chamber	Diam. 500; H. 1300; heated 70°C
Operating pressure	+5 bar
Dry Vacuum / Wet Vacuum	0,1 mbar / 10 mbar
Manual / Automatic	automatic
Impregnated product	Low voltage motors

YEAR 2012



Customer	SPELCO - ITALY
Typology	VI
Execution / certifications	standard
Resin	epoxy type - Epoxal 8406
Resin thermoregulation	Temperature: 20-40°C
Impregnation chamber	Diam. 1300; H. 600
Operating pressure	atm
Dry Vacuum / Wet Vacuum	0,1 mbar / 5 mbar
Manual / Automatic	automatic
Impregnated product	Transformer cores

YEAR 2013



Customer	NAYTEX - GREECE
Typology	VPI
Execution / certifications	Standard-PED
Resin	polyester type – XL 2103
Resin thermoregulation	Temperature: 10-40°C
Impregnation chamber	Diam. 1500; H. 2000
Operating pressure	+6 bar
Dry Vacuum / Wet Vacuum	0,1 mbar / 10 mbar
Manual / Automatic	automatic
Impregnated product	Low voltage motors/wind generators repair

YEAR 2014



Customer	ISGEV - ITALY
Typology	VPI
Execution / certifications	Standard -PED
Resin	polyester type – CC 1105
Resin thermoregulation	Temperature: 10-40°C
Impregnation chamber	Diam. 1500; H. 1500
Operating pressure	+6 bar
Dry Vacuum / Wet Vacuum	1 mbar / 10 mbar
Manual / Automatic	automatic
Impregnated product	traction motors



YEAR 2014



Customer	ELHAND - POLAND
Typology	VPI
Execution / certifications	Standard -PED
Resin	polyester type – VOLTATEX 4230
Resin thermoregulation	Temperature: 10-40°C
Impregnation chamber	Diam. 1500; H. 1500
Operating pressure	+6 bar
Dry Vacuum / Wet Vacuum	1 mbar / 10 mbar
Manual / Automatic	automatic
Impregnated product	Transformer cokes (traction)

YEAR 2015



Customer	MECCALTE - ENGLAND
Typology	VPI
Execution / certifications	Standard-PED
Resin	polyester type – CC 1105
Resin thermoregulation	Temperature: 10-40°C
Impregnation chamber	Diam. 2200; H. 1700
Operating pressure	+6 bar
Dry Vacuum / Wet Vacuum	1 mbar / 10 mbar
Manual / Automatic	automatic
Impregnated product	Low voltage motors

YEAR 2015



Customer	MECCALTE POWER PRODUCT- ITALY
Typology	VPI
Execution / certifications	Standard-PED
Resin	epoxy type – DAMISOL 3418 API
Resin thermoregulation	Temperature: 10-30°C
Impregnation chamber	Diam. 3150; H. 3000
Operating pressure	+6 bar
Dry Vacuum / Wet Vacuum	0.1 mbar / 5 mbar
Manual / Automatic	automatic
Impregnated product	High voltage motors (15 KV)



YEAR 2016



Customer	ABB - BULGARIA
Typology	VPI
Execution / certifications	Standard-PED
Resin	epoxy type – ULTIMEG 2002T
Resin thermoregulation	Temperature: 10-30°C
Impregnation chamber	Diam. 2200; H. 1600
Operating pressure	+6 bar
Dry Vacuum / Wet Vacuum	1 mbar / 5 mbar
Manual / Automatic	automatic
Impregnated product	Low voltage dry transformers

YEAR 2016



Customer	ENGIE GROUP - BELGIUM
Typology	VPI
Execution / certifications	Standard-PED
Resin	epoxy type – DAMISOL 3418 API
Resin thermoregulation	Temperature: 10-30°C
Impregnation chamber	Diam. 31500; H. 3000
Operating pressure	+6 bar
Dry Vacuum / Wet Vacuum	0.1 mbar / 5 mbar
Manual / Automatic	automatic
Impregnated product	High voltage atomic power plant motors

YEAR 2017



Customer	NIDEC SR DRIVES – UK (Romania)
Typology	VPI
Execution / certifications	Standard-PED
Resin	epoxy type – EPOXYLITE 478
Resin thermoregulation	Temperature: 10-40°C
Impregnation chamber	Diam. 1000; H. 1200
Operating pressure	+6 bar
Dry Vacuum / Wet Vacuum	1 mbar / 5 mbar
Manual / Automatic	automatic
Impregnated product	Automotive traction vehicle motors



YEAR 2018



Customer	ABB - ITALY
Typology	VPI
Execution / certifications	Standard-PED
Resin	Silicone type – SILRES H62
Resin thermoregulation	Temperature: 0-70°C
Impregnation chamber	Diam. 1650; H. 2000
Operating pressure	+6 bar
Dry Vacuum / Wet Vacuum	0.1 mbar / 10 mbar
Manual / Automatic	automatic
Impregnated product	High voltage motors

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