

PrJSC “Turbogaz”

Reference List



SUPPLY OF EXPANDER-COMPRESSORS

1975 – 2002

AZERBAIJAN		
Facility Description	Capacity	Number of Supplied Units
UKPG «Bakhar»	10 млн. м ³ /сут	6
UKRAINE		
Facility Description	Capacity	Number of Supplied Units
UKPG «Shebelinkagazprom»	5 mln.m3/day	19
Glebovskoe UKPG «Chernomorneftegaz»	10 mln.m3/day	3
TURKMENISTAN		
Facility Description	Capacity	Number of Supplied Units
UKPG «Shatlykgazdobycha»	5 млн. м ³ /сут,	24
RUSSIAN FEDERATION		
Facility Description	Capacity	Number of Supplied Units
UKPG Vuktyl, Sosnogorsky Gas Processing Plant	5 mln.m3/day	29
UKPG «Yamburggazdobycha»	10 mln.m3/day,	77
UKPG «Urengoygazdobycha»	5 mln.m3/day	11
All the supplied equipment		169

SUPPLY OF EXPANDER-COMPRESSORS

2003 – 2019

CHINA						
Unit Description	Gas flow rate, million m ³ / day	Rated shaft power, kW	Year of supply / Year of implementation	Number of supplied units / Rotor bearing type, pcs.****	Application	Gas Type
NTDA-1,7/7,4-4,3/2,2-T1 «Petrofuture Industrial Co»	1,7 exp/ 4,3 comp.	1 000	2019	1 (Slide Bearing)	Gas treatment and recovery of propane, butane (NGL)	Natural Gas
NTDA-3,1/1,65-1,14/0,93-2,9-T1 «Petrofuture Industrial Co»	2,9	1 020	2019	2 (AMB)	Gas treatment and ethane recovery (Olefin Plant)	H2 rich gas
TDA-1,8/4,6-6,22/1,83-MP-T1 «Petrofuture Industrial Co»	1,8 exp./ 4,6 copm.	1 050	2019	2 (AMB)	Gas treatment and recovery of propane, butane (NGL)	Natural Gas

CZECH						
Unit Description	Gas flow rate, million m ³ / day	Rated shaft power, kW	Year of supply / Year of implementation	Number of supplied units / Rotor bearing type, pcs.****	Application	Gas Type
TDA-4,2-15-UHL4 «J.B. Plus s.r.o.»	1,33-4,2	930	2019	1 (Slide Bearing)	Gas treatment and condensate recovery	Natural Gas
TDA-8,4-9,7-MP-UHL4 «J.B. Plus s.r.o.»	3,4÷8,4	5930	2019	2 (AMB)	Gas treatment and condensate recovery	Natural Gas

UZBEKISTAN						
Unit Description	Gas flow rate, million m ³ / day	Rated shaft power, kW	Year of supply / Year of implementation	Number of supplied units / Rotor bearing type, pcs.****	Application	Gas Type
MTDA-12,3-4,75-MP-U2 «Uchkyr», «Gazlineftegazdobycha»	12,34	3105	2019	1 (AMB)	Gas treatment and recovery of propane, butane (NGL)	Natural Gas
NTDA-9,0-4,76-MP-U2 “Mubarek GPP”, Mubarek GPP”	6,2÷9,0	2650	2019	1 (AMB)	Gas treatment and recovery of propane, butane (NGL)	Natural Gas
MTDA-4,9-6,9-MP-U1 «Shourtan», «Neftgazdepozit»	3,4÷5,4	1100	2016	1 (AMB)	Gas treatment and condensate recovery	Natural Gas

MTDA-2,9-6,8-MP-U1 «Surgil», «Neftgazdepozit»	2,0÷3,2	675.5	2015	2 (AMB)	Gas treatment and ethane recovery (Olefin Plant)	Natural Gas
MTDA-2,9-6,8-MP-U1 «Sharkiy Berdah», «Neftgazdepozit»	2,0÷3,2	675.5	2015	1 (AMB)	Gas treatment and condensate recovery	Natural Gas
MTDA-2,9-6,8-MP-U1 «Sharkiy Berdah», «Neftgazdepozit»	2,0÷3,2	675,5	2014	1 (AMB)	Gas treatment and condensate recovery	Natural Gas
MTDA-4,9-6,9-MP-U1 «Shourtan», «Neftgazdepozit»	3,4÷5,4	1100	2014	6 (AMB)	Gas treatment and condensate recovery	Natural Gas
MTDA-2,9-6,8-MP-U1 «Koultak», «Neftgazdepozit»	2,0÷3,2	675,5	2014	1 (AMB)	Gas treatment and condensate recovery	Natural Gas
MTDA-4,9-6,9-MP-U1 «Koultak», «Neftgazdepozit»	2,0÷3,2	1 110	2013	1(AMB)	Gas treatment and condensate recovery	Natural Gas
MTDA-4,9-6,9-MP-U1 «Aalan", «Neftgazdepozit»	2,9	1 110	2013	4 (AMB)	Gas treatment and condensate recovery	Natural Gas
MTDA-2,9-6,8-MP-U1 «Koultak», «Neftgazdepozit»	2,0÷3,2	675,5	2012	1(AMB)	Gas treatment and condensate recovery	Natural Gas
NTDA-11,5-8,0-MP-U2 «Uztashkineefgas»	7,65÷12,0	3 330	2012	1(AMB)	Gas treatment and recovery of propane, butane (NGL)	Natural Gas
MTDA-2,9-6,8-MP-U1 «Umid», «Neftgazdepozit»	2,0÷3,2	675,5	2012	1(AMB)	Gas treatment and condensate recovery	Natural Gas
MTDA-2,9-6,8-MP-U1 «Yuzhny Kemachi», «Neftgazdepozit»	2,0÷3,2	675,5	2012	4 (AMB)	Gas treatment and condensate recovery	Natural Gas
NTDA-9-4,5-U1 «Shourtan», «Neftgazdepozit»	6,25÷9,8	2 100	2012	2(AMB)	Gas treatment and recovery of propane, butane (NGL)	Natural Gas
MTDA-2,9-6,8-MP-U1 «Zevardy», «Neftgazdepozit»	2,0÷3,2	675,5	2012	1(AMB)	Gas treatment and condensate recovery	Natural Gas
MTDA-2,9-6,8-MP-U1 «Shourtan», «Neftgazdepozit»	2,0÷3,2	675,5	2011	2 (AMB)	Gas treatment and condensate recovery	Natural Gas
MTDA-2,9-6,8-MP-U1 «Zevardy», «Neftgazdepozit»	2,0÷3,2	675,5	2008	4 (AMB)	Gas treatment and condensate recovery	Natural Gas
MTDA-2,9-6,8-MP-U1 «Pamouk Field», «Uztashkineftegaz»	2,0÷3,2	675,5	2008	4 (AMB)	Gas treatment and condensate recovery	Natural Gas

NTDA-9-4,5-U1 «Shourtan», «Uztashkineftegaz»	6,25÷9,8	2 054	2007	1(AMB)	Gas treatment and recovery of propane, butane (NGL)	Natural Gas
TDA-2,9-6,8-U1 «Zevardy», «Neftgazdepozit»	2,0÷3,2	666,5	2006	1 (Slide Bearing)	Gas treatment and condensate recovery	Natural Gas
TDA-4,9-6,8-U1 «Kokdulmak», «Uztashkineftegaz»	3,4÷5,4	675,5	2006	4 (Slide Bearing)	Gas treatment and condensate recovery	Natural Gas
***** Project is under realization MTDA-27,5-10,0-MP-U1 for Uzbekistan.	19,25÷30,25	2 632		1 (AMB)		

UKRAINE

Unit Description	Gas flow rate, million m ³ / day	Rated shaft power, kW	Year of supply / Year of implementation	Number of supplied units / Rotor bearing type, pcs. ****	Application	Gas Type
MTDA-0,5-6,4-1-MP-U2 «Kamyshnya», «Poltavagazdobycha»	0,25÷0,4	160	2012	1 (AMB)	Gas treatment and condensate recovery	Natural Gas
MTDA-0,5-6,4-1-MP-U2 «Stepovoe», «Poltavagazdobycha»	0,32÷0,5	155	2012	1 (AMB)	Gas treatment and condensate recovery	Natural Gas
MTDA-3,0-10,4-MP-U2 «Timofeevka», «Poltavagazdobycha»	2,1÷3,3	1 162	2010	1 (AMB)	Gas treatment and condensate recovery	Natural Gas
MTDA-0,5-4,0-MP-U2 «Choutovo», «Poltavagazdobycha»	0,31÷0,49	160	2009	1 (AMB)	Gas treatment and condensate recovery	Natural Gas
MTDA-0,5-3,8-MP-U2 «Skh.Poltava», «Poltavagazdobycha»	0,387÷0,585	124	2009	1 (AMB)	Gas treatment and condensate recovery	Natural Gas
MTDA-0,6-4,5-MP-U2 «Abazovka», «Poltavagazdobycha»	0,38÷0,62	186	2009	1 (AMB)	Gas treatment and condensate recovery	Natural Gas
MTDA-1,2-3,2-MP-U2 «Mashevka», «Poltavagazdobycha»	0,76÷1,2	185	2009	1 (AMB.)	Gas treatment and condensate recovery	Natural Gas
NTDA-2,4-6,4-UHL4 «Kotelva», «Poltavagazdobycha»	1,5÷2,7	413	2004	1 (Slide Bearing)	Gas treatment and condensate recovery	Natural Gas
TDA-4,0-3,0-1-U2 «Krestishche», «Shebelinkagazdobycha»	2,8÷4,4	1 460,5	2004	3 (Rolling Bearing)	Gas treatment and condensate recovery	Natural Gas
NTDA-2,4-6,4-UHL4 «Yulievskoe», «Kharkovgazdobycha»	1,7÷2,65	884	2003	1 (Slide Bearing)	Gas treatment and recovery of propane, butane (NGL)	Natural Gas

RUSSIAN FEDERATION						
Unit Description	Gas flow rate, million m ³ / day	Rated shaft power, kW	Year of supply / Year of implementation	Number of supplied units / Rotor bearing type, pcs.****	Application	Gas Type
MTDA-8,0-12,6-MP-UHL4 «Vankorskoe», «Promavtomatika»	5,6÷8,8	3 200	2014	3 (AMB)	Gas treatment and condensate recovery	Natural Gas
***** Design developed. MTDA -11,0-10,0-MP-U1 for Russian Federation.	7,65÷12,0	3 000		(AMB)		
***** Design developed. MTDA -12,0-16,0-MP-U1 for Russian Federation.	8,05÷12,65	2 250		(AMB)		
***** Design developed. MTDA -40,0-10,0-MP-U1 for Russian Federation.	28,0÷44,0	3 828		(AMB)		

* - Fabrication underway,
 ** - Shipment underway,
 *** - Commissioning underway,
 **** - Contract concluded,
 ***** - Bidding underway;
 ***** - Design developed.
 (AMB) – Active Magnetic Bearing.

SUPPLY OF COMPLETNESS FOR SEPARATION AND RECYCLING OF OIL SLUDGES AND SOILS POLLUTED WITH PETROCHEMICALS

UKRAINE	
Customer, Facility Description	Year of Implementation.
STORM-15, "MOG Ukraine" LLC, Lisichansk Refinery.	2012
NIGERIA	
Customer, Facility Description	Year of Implementation.
STORM-15, "MOG Ukraine" LLC, Port Harcourt.	2015

SUPPLY OF EXPANDER-GENERATORS

1991 - 2018

UKRAINE						
Unit Description	Year of supply / Year of implementation	Q, mln. m3/day	Rated Power, kW.	Number of supplied units, pcs.	Application	Gas Type
UTDU-4000-4,2-3-UHL4 «Zaporozhye», «Energotehnologii»	2012	2,6÷3,02	4 000	1	RMS-A	Natural Gas
UDEU-2500-U2 «Solokha», «Ukrghazdobycha»	2009	1,4÷4,2	2 500	1	RMS-A	Natural Gas
DGU-8 «Smila», «Ukrtransgaz»	2009	0.043	8	1	RMS-A	Natural Gas
UTDU-4000-4,5-4,5-UHL4 «Severodonetsk», «Energotehnologii»	2008	4,2÷5,9	4 000	1	RMS-A	Natural Gas
UTDU-4000-UHL4 «Odessa», «UTSEBOTneftegaz»	2006	0,8÷2,4	4 000	1	RMS-A	Natural Gas
UKS 2-300 «Zadneprovskaya», «Ukrtransgaz»	2004	0.1÷0,5	8	1	RMS-A	Natural Gas
UDEU-2500 FDS-7, Dnepropetrovsk LP UMG, «Kharkovtransgaz»	1991	1,35÷4,5	2 500	1	RMS-A	Natural Gas
BELARUS						
Unit Description	Year of supply / Year of implementation.	Q, mln. m3/day	Rated Power, kW.	Number of Supplied Units, pcs.	Application	Gas Type
UTDU-4000-1,2-2,6-UHL4 Gomelsk Thermal Power Plant-2	2008	0,6÷2,6	4 000	1	RMS-A	Natural Gas
UDEU-2500-UHL4 GDP-2, Novolukoml	2006	0,8÷2,4	2 500	1	RMS-A	Natural Gas
UDEU-2500-UHL4 Minsk Thermal Power Plant -4	2005	0,8÷2,4	2 500	2	RMS-A	Natural Gas
RUSSIAN FEDERATION						
Unit Description	Year of supply / Year of implementation	Q, mln. m3/day	Rated Power, kW.	Number of Supplied Units, pcs.	Application	Gas Type
UTDU-4000-4,6-4,0-UHL4 «BelgorodGaz-Energo»	2014	3,6÷3,84	4 000	1	RMS-A	Natural Gas
DGU-8 «Gazpromtransgaz Volgograd»	2008	0,0 43	8	1	RMS-A	Natural Gas
DGU-300 «Orenburgtransgaz»,	1991	0,35	300	1	RMS-A	Natural Gas

UZBEKISTAN

Unit Description	Year of supply / Year of implementation	Q, mln. m3/day	Rated Power, kW.	Number of Supplied Units, pcs.	Application	Gas Type
DGU-8-380-T «Chirchik», Royaltrade group international	2006	0,011	4.5	1	RMS-A	Natural Gas

Turboexpander Service and Repairs

Subject Matter of the Contract	Customer	Year
EXPANDER-COMPRESSORS		
Carrying out turboexpander repairs and maintenance in Abazovka, Stepovoe, Timofeevka, Mashevka, Choutovo, Eastern Poltava, Kotelva, Soloha, Kamyshnya.	PJSC «Ukrgazdobycha» for the agency of GPU «Poltavagazdobycha», Ukraine	2017 - 2018
Overhaul of the turboexpander changeable gas flow channel of NTDA-2,4-6,4-UHL4 Yulievskoe Gas Condensate Department.	PJSC «Ukrgazdobycha» for the agency of GPU «Shebelinkagazdobycha», Ukraine	2016 - 2017
Carrying out turboexpander repairs and maintenance (Abazovka, Stepovoe, Timofeevka).	PJSC «Ukrgazdobycha» for the agency of GPU «Poltavagazdobycha», Ukraine	2016 - 2017
Services in repairs of the changeable gas flow channel of TDA-4,0-3,0-1-U2, Krestishche GKS.	PJSC «Ukrgazdobycha» for the agency of GPU «Shebelinkagazdobycha», Ukraine	2016
Providing services in carrying out current repairs of changeable gas flow channel, NTDA-2,4-6,8-UHL4.	PJSC «Ukrgazdobycha» for the agency of GPU «Shebelinkagazdobycha», Ukraine	2015
Repair and maintenance of NTDA-2,4-6,4-UHL4, USP Kotelva.	PJSC «Ukrgazdobycha» for the agency of GPU «Poltavagazdobycha», Ukraine.	2015
Services in overhaul of changeable gas flow channel of turboexpander unit, Krestishche GKS	PJSC «Ukrgazdobycha» for the agency of GPU «Shebelinkagazdobycha», Ukraine.	2014
Services in annual maintenance.	VPU JSC «Vankorneft», Russian Federation.	2014
Rendering services in installation, maintenance and repairs of motors and turbines at facilities in Mashevka, Abazovka, Choutovo, Eastern Poltava.	PJSC «Ukrgazdobycha» for the agency of GPU «Poltavagazdobycha», Ukraine.	2013
Services in overhaul of the turboexpander changeable gas flow channel, Krestishche GKS.	PJSC «Ukrgazdobycha» for the agency of GPU «Shebelinkagazdobycha», Ukraine.	2013
Services in repair of the turboexpander changeable gas flow channels, Yulievskoe Gas Condensate Department.	PJSC «Ukrgazdobycha» for the agency of GPU «Shebelinkagazdobycha», Ukraine.	2012
Services in repair of 3 turboexpander changeable gas flow channels, Krestishche GKS.	PJSC «Ukrgazdobycha» for the agency of GPU «Shebelinkagazdobycha», Ukraine.	2012

Services in installation, maintenance and repair of motors and turbines of turboexpander-compressor at Timofeevka USP.	PJSC «Ukrgezdoobycha» for the agency of GPU «Poltavagazdoobycha», Ukraine.	2011
Services in turboexpander unit overhaul, Gas Condensate Production Department for Yulievskoe Gas Condensate Department.	PJSC «Ukrgezdoobycha» for the agency of GPU «Shebelinkagazdoobycha», Ukraine.	2011
Services in installation, maintenance and repairs of turboexpander motors and turbines.	PJSC «Ukrgezdoobycha» for the agency of GPU «Shebelinkagazdoobycha», Ukraine.	2011
Carrying out servicing of 7 turboexpander units at "Yurkharovo" Field.	«PKF Promavtomatika» LLC, Russian Federation.	2010
Repair of changeable gas flow channel of turboexpander NTDA-2.4-6.4 UHL-4.	GPU «Shebelinkagazdoobycha», Ukraine.	2008
Carrying out repairs of the turboexpander at "Kokdumalak" field.	«Mubarakneftegaz» LLC, Uzbekistan.	2008
Carrying out repairs of changeable gas flow channels 583-50.000.00 TDA-4,0-3,0-UHL4, TU U 29.5-00158787-045-2004.	GPU «Shebelinkagazdoobycha», Ukraine.	2006
EXPANDER-COMPRESSORS AS PARTS OF AIR SEPARATION UNIT		
Scheduled maintenance of 2 turboexpander-compressors DTK 24/0,9 produced by PAO Cryogenmash for PJSC «ArcelorMittal Krivoy Rog».	«Remkran» LLC, Krivoy Rog, Ukraine.	2017
Services in overhaul and scheduled maintenance of 2 turboexpander-compressors DTK 24/0,9 produced by PAO Cryogenmash for PJSC «ArcelorMittal Krivoy Rog».	«Remkran» LLC, Krivoy Rog, Ukraine.	2016
EXPANDER-GENERATORS		
Repairs and maintenance of UDEU-2500-U, GS Solokha.	PJSC «Ukrgezdoobycha» - agency of GPU «Poltavagazdoobycha», Ukraine.	2015
Maintenance of expander-generator UTDU-4000, Severodonetsk.	JSC "Energotekhnologii", Ukraine.	2011

Supply of Spare Parts

Subject Matter of the Contract	Customer	Year
Supply of the insert to MTDA-2,9-6,9-MП-Y1 with the modernized flowing parts and a set of spare parts for Yuzhny Kemachi	JSC "Neftegazinvest"	2018
Supply of the 2 inserts to MTDA-2,9-6,9-MП-Y1 with the modernized flowing parts and a set of	"J.B.Plus s.r.o.", Czech Republic.	2018

spare parts		
Delivery of the insert to MTDA-2,9-6,9-MП-Y1 with the modernized flowing parts and a set of spare parts for «Zevardy»	JSC "Neftegazinvest"	2017
Fabrication of stand-by changeable gas flow channel for MTDA-2,9-6,8-MP-U1 with a set of spare parts and accessories.	"J.B.Plus s.r.o.", Czech Republic.	2017
Supply of spare parts for monoblock turboexpanders MTDA 9,0-4,5-U1, «Shourtaneftegaz» LLC.	JSC "O'ztashqineftgaz", Uzbekistan	2016
Supply of spare parts for monoblock turboexpanders MTDA-8,0-12,6-MP-UHL4.	"RegionAvtomatikaService" LLC, Russian Federation.	2016
Supply of spare parts for monoblock turboexpanders MTDA 2,9-6,8-MP-U1 and 4,9-6,9-MP-U1 for «Mubarakneftgaz».	JSC "O'ztashqineftgaz", Uzbekistan.	2016
Supply of spare parts and accessories for turboexpander units.	PJSC "Ukrgazdobycha" for agency of GPU "Shebelinkagazdobycha", Ukraine.	2014
Supply of turboexpander spare parts for «Mubarakneftgaz» LLC.	JSC "O'ztashqineftgaz", Uzbekistan.	2012
Supply of 2 sets of «Setup block 630-40.200.00 with a set of spare parts and accessories for inlet separator unit №630-40.000.00»	JSC "Zavod Uzbekhimmash", Uzbekistan.	2012
Supply of turboexpander spare parts for «Shourtaneftegaz» LLC.	«Neftgazdepozit» LLC, Uzbekistan.	2012
Supply of spare parts for globe valves VZN 6/400 and VU 15/400.	JSC "Gorizont", Russian Federation.	2012
Fabrication and supply of components and assemblies for repair of turbopexpander units.	«Texnik Taminlash va Butlash Boshqarmasi UShk», Uzbekistan.	2012
Fabrication and supply of spare parts for monoblock turboexpanders MTDA 2,9-6,8-MP-U1 to "Zevardy" and "Pamouk" facilities.	«Neftgazdepozit» LLC, Uzbekistan.	2011
Supply of spare parts for repairs of turboexpander units	«Texnik Taminlash va Butlash Boshqarmasi UShk», Uzbekistan	2010
Supply of spare parts for repairs of turboexpander changeable gas flow channels.	«Texnik Taminlash va Butlash Boshqarmasi UShk», Uzbekistan.	2008

Feasibility Development

Subject Matter of the Contract	Customer	Year
Feasibility study for implementation of turbo-expander power plants in the Ukrainian gas transportation system	NAK «Naftogaz Ukraine», Ukraine	2003
Providing services for development of a feasibility study for construction of autonomous complex power plant for "Pervouralsk Novotrubny Works"	JSC «Belenergomash», Russian Federation	2002

Design Documentation Development

Subject Matter of the Contract	Customer	Year
Development of design documents for the Complex for recycling of oil sludges and soils polluted with petrochemicals KPNSH-2010-MOG-01	"Man Oil Group AG", Switzerland	2010
Development of design documents for gas turbine generator unit	JSC «Krivoy Rog Pipe Works Konstar»	2004
Development of design documents for complex air treatment plant	JSC «Krivoy Rog Pipe Works Konstar»	2004
Development of design documents for electrical block box, component of EG-2500 power plant	JSC «Zaporozhye High Voltage Equipment Plant», Ukraine	2004
Preparation of design documentation for development of modular small-scale package gas treatment units on marginal gas fields and separate wells in Russian Federation	JSC Affiliate «Promgaz», Russian Federation	2003
Providing services for design and technical support of EG-6000 №4 Power Plant manufacture	JSC «Belenergomash», Russian Federation	2002
Completion of design documentation for technological equipment units at Maryinskoe Gas Condensate Field	CHP KM «Ukrprommetal», Ukraine	2002
Development of design documentation for complex blowout preventer equipment	JSC Plant «Leninskaya Kuznya», Ukraine	2002
Development of design documentation for complex blowout preventer equipment	GP «Zavod Malysheva», Ukraine	2002
Development of design documentation for gas blowoff valve, startup valve and indicator cock	MMK «Ukrgazneftemash», Ukraine	2002