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LLC RDC «TRANSKOR-K» Limited Liability Company Research and Development Center

Experience with innovative MTM technology (AQUA MTM) in the world

Year	Customer	Country	Pipeline Options			Stages of development and improvement of technology
			Type	Diameter, mm	Length, km	
2002	Transnefteprodukt	Russia	oil product pipeline	320-530	1200	The first industrial testing technology
	Northern Oil	Russia	field pipeline	219-420	46	
	Tomskneft	Russia	field pipeline	254-320	170	
	ALROSA	Russia	main gas pipeline	520	243	
	Bashtransgaz	Russia	main gas pipeline	720-1020	68	
	Tatneft	Russia	field pipeline	56-720	93	
	Yakutgazprom	Russia	main gas pipeline	520	176	
TOTAL 2002					1996	
2003	Administration of Lipetsk Region	Russia	Gas pipeline branch	320	39	The accumulation of information on the problems of identifying anomalies and positioning system
	ALROSA-Gaz	Russia	Water pipeline crossings	520	30	
	Zarubezhneftegaz, Uztransgaz	Uzbekistan	main gas pipeline	720-1420	2970	
	Tomskgazprom	Russia	fishing pipelines	119-320	256	
	TOTAL 2003					
TOTAL (since 2002):					5291	
2004	Moldovatransgaz	Moldova	main gas pipeline	1020-1220	285	Software development is estimated allowable working pressure and the residual life
	Moldovatransgaz	Moldova	gas pipeline		44,9	
	Lukoil	Russia	fishing pipelines	114-219	21	
	Zarubezhneftegaz, Uztransgaz	Uzbekistan	main gas pipeline	720-1420	3109	
	Tatneft	Russia	fishing pipelines	114-219	231	
	Company Mahrukat	Syria,	Pipelines	6 inc h 159	356	
	Tomskgazprom	Russia	Pipelines	520	93	
	Irkutskenergo	Russia	conduit	920	24	
Kern	Russia	Underwater transitions	275-320	7,5		

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	ITKT-Ukraina, Ukrhimtransammiak	Ukraine	Diagnostics pipeline		110		
	State Company "Druzhba"	Belarus	Underwater transitions main oil pipelines	720-1020	13		
	TOTAL 2004						4294,4
	TOTAL (since 2002):						9585,4
2005	I.G.P - General Contractor works	Argentina	Underground pipelines refinery, gas-	6-56	78		
	Plinakro Company.	Croatia	main gas pipeline	520	30		
	Ural Gas Networks	Russia	gas pipelines	114-720	90		
	«Northumbria water Ltd» (Argus)	United Kingdom	Water pipes	14 inc	2		
	Tomskgazprom	Russia	Condensate, infield pipelines		93		
	Ukrhimtransammiak	Ukraine	The ammonia	320	50		
	Tomskgazprom	Russia	Field work		67		
	Tomskgazprom	Russia	Field work		26		
	Solteks, Ltd / mastitis-Berge-Yakutsk	Russia	The calculation of the safe working pressure		80		
	Nyagan	Russia	Field work		3,94		
	Novo-Irkutsk CHP	Russia	Field work		24		
	Kama Pulp and Paper Mill, JSC / Perm Region	Russia	Diagnosis sewer		12,8		
	TOTAL 2005						556,74
TOTAL (since 2002):					10142,14		
2006	I.G.P - General Contractor works: Kompanii- owners: ROCH, Medanito, TGN, Panamerican Energy TGS, Repsol YPF	Argentina	Underground pipelines refinery, gas- and product pipelines	6-56	100	The first experience of working on complex objects - gas compressor and pump stations	
	Gazprom	Russia	Gas compressor stations	1020-1420	40		
	Gazprom	Russia	Gas-bends	520-720	70		
	TNK-BP	Russia	field pipeline	219-275	80		
	JSC "Achimgaz"	Russia	field pipeline	219-275	36		
	Lukoil	Russia	field pipeline	219-275	10		
	Khantymansiyskneftegazgeologia (Russian-US joint venture)	Russia	field pipeline	219-320	30		
	TOTAL 2006						366
TOTAL (since 2002):					10508,14		
2007		Mexico	Pipeline	21 inc	3	Software development for complex objects (pump and compressor stations)	
	Oxydental Petroleum	Argentina	main gas pipeline	До 21 inc	38		
	Panamerican Energy	Argentina	main Oil pipelines	20 inc	6		

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		Argentina	Pipeline pumping stations	10 – 12 inc	17	
		Argentina	Pipeline FLOWLINE SPX		3	
	Tecpetrol	Argentina	main gas pipeline	12 inc	2,5	
	Repsol YPF	Argentina	main Oil pipelines	6 -10 inc	6	
	San Luis YPF	Argentina	The pipeline		1,8	
	El Canadon TOTAL	Argentina	fishing pipeline		2,3	
		Argentina	Pipeline pumping stations	6 -20 inc	137	
		Russia	Bulk Ethylene	219 mm	117	
		Russia	field pipeline	6 -20 inc	176	
		Russia	The pipeline	21 inc	76	
		Russia	field pipeline		26	
		Russia	Gas compressor stations	60 inc	5	
		Croatia	main gas pipeline	20 inc	32	
		Azerbaijan	main gas pipeline	20-60 inc	80	
		Russia	Pipelines urban heating networks		40	
		Malaysia	Pipelines Refinery Kerteh	6 -20 inc	5	
	TOTAL 2007					
TOTAL (since 2002):					11281,74	
2008	Tecpetrol (I.G.P.)	Argentina	main gas pipeline	12 inc	512	
	Repsol YPF, San Luis YPF, El Canadon TOTAL (I.G.P.)	Argentina	Trunk pipelines main pipelines field pipelines	6 -10 inc		
	Pemex (Todama) (I.G.P.)	Mexico	Main oil pipeline		37	
	Ecopetrol (Technicontrol)	Colombia	Pipeline pumping stations	6 -20 inc	4	
	Sayanhimplast	Russia	Bulk Ethylene	219 mm	102	
	Ministry of Housing Mosk. region.	Russia	Pipelines warm-water-supply	---	40	
	Ministry of Housing Mosk. region.	Russia	Piping heat networks		52	
	Ministry of Housing Mosk. region.	Russia	The pipeline	21 inc	76	
	Ministry of Housing Mosk. region.	Russia	field pipeline	319, 560, 720 mm	163	
	Ministry of Housing Mosk. region.	Russia	The pipeline		86	
	Ministry of Housing Mosk. region.	Russia			34	
	Ministry of Housing Mosk. region.	Russia	Gas pipeline branch		59	
	Azerigaz	Azerbaijan	main gas pipeline, gas pipeline	20-60 inc	443	
		Saudi Arabia	water main	6-8,60 inc	35	
		Malaysia	Pipelines oil refinery city of Kerteh	6 -20 inc	14	
		USA	main gas pipeline, gas pipeline		13	
	TOTAL 2008					
TOTAL (since 2002):					12951,74	

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2009	TNK-Nyagan	Russia	field pipeline	150-420	42	
	Ltd. "West-Ural CA"	Russia	field pipeline	520	24	
	PETRONAS	Malaysia, Indonesia	Pipelines oil refinery city of Kerteh	6 -20 inc	31	
	AAA "Rezat" for SWCC	Saudi Arabia	Waterlines	72 inc	12	
	Petrobras	Brazil	Extinguishing pipelines and product	6 -20 inc	16	
	Sinopec, PetroChina	China	oil and gas pipelines	520	48	
	TOTAL 2009					
TOTAL (since 2002):					13124,74	
2010	Sayanskkhimplast, Irkutsk region	Russia	Ethylene, main gas pipeline	219	234	
	Kursk region, Konyshvka	Russia	gas pipeline		6,3	
	Moldovatransgaz	Moldavia	main gas pipeline		185	
	Neftepromdiagnostika	Russia	field pipeline		184	
	American Gas Association	USA	Gas distribution network		20	
	AAA "Rezayt Trading" for SWCC Al-Khobar, Riyadh C	Saudi Arabia	Waterlines		65	
	AAA "Rezayt Trading" Buraida	Saudi Arabia	Twisted pipe		17	
	Transkor-International	United Arab Emirates	Extinguishing pipelines and product tank farm	6 -20 inc	16	
	Lejin-Transkor for PetroChina,	China	gas pipeline	520	8	
	Lejin-Transkor for PetroChina, Dandong	China	Pipeline		11	
	Transkor -ASIA	Court of Justice	kerosene airport		50	
	Petronas	Malaysia	oil pipeline, main gas pipeline		11	
	TOTAL 2010					
TOTAL (since 2002):					13932,04	
2011	Sayanskkhimplast, Irkutsk region	Russia	Ethylene, main gas pipeline	219	234	
	Gazprom	Russia	Gas compressor stations		5	
	Gazprom	Russia	Gas underground gas storage facilities	630	2	
	Moldovatransgaz	Moldavia	main gas pipeline		71,1	
	American Gas Association	USA	Gas distribution network		20	
	AAA "Rezayt Trading" for SWCC Al-Khobar, Riyadh C	Saudi Arabia	Waterlines		65	
	AAA "Rezayt Trading" Buraida	Saudi Arabia	Twisted pipe		17	
	Chevron	Indonesia	field pipeline	80	8	
	National Greed	United Kingdom	Pipelines		7,93	
	Transkor -ASIA	Sudan	kerosene airport		50	
	Petronas	Malaysia	Offshore oil pipeline		10	
					Start a new technology AQUA MTM	

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			Type	Diameter, mm	Length, km	
	LUKOIL	Russia	fishing pipeline	530	83,1	
	GAZPROM	Russia	gas pipeline	530	4	
	Orgenergogaz	Russia	COP		2,8	
	Transkor-USA American Gas Association	USA	Pipelines		14,588	
	TRANSKOR INTL (UK) LIMITED National Grid	United Kingdom	Pipelines		7,93	
	TRANSKOR ASIA SDN. BHD. PETRONAS	Malaysia	pipeline		6,903	
	Sichuan	China	pipeline		23	
	Petronesia	Indonesia	field pipeline		101,41	
	Rezayat	Saudi Arabia	Waterlines		458	
	Rezayat	Saudi Arabia	Waterlines		150	
	PETRONAS Kertex	Malaysia	pipeline		2	
TOTAL 2011					1343,761	
TOTAL (since 2002):					15275,801	
2012	Ecoscan Engineering	Russia	pipeline		97	AQUA technology MTM
	ENTE	Russia (Biryulyovo)	pipeline		0,13	
	ENTE	Russia (Astrakhan)	Underwater transitions		12,454	
	Tiraspoltransgaz	Transnistria	pipelines		68,129	
	Petronesia	Indonesia	field pipeline		88,68	
	Shell	Louisiana, United States	Gas Chemical Plant		3,1	
	NGA	United States	Pipelines		2,7	
	Petronas	Malaysia	MCOT (89 sect)		1	
	Sayanskkhimplast	Russia (Sayansk)	Ethylene		234	
	TOTAL 2012					
TOTAL (since 2002):					15782,994	
2013	PETRONAS Carigali	Malaysia	Underwater pipelines		64,77	AQUA technology MTM
	PETRONAS Carigali	Malaysia	Flowline, Gaslift, Low Pressure Flowline, Oil Gathering		15,203	
	PETRONAS Carigali	Malaysia	pipelines		129,7	
	Kurganinskraygaz	Russia	gas pipeline		4,556	
	Chevron Indonesia Company	Indonesia	Crude Oil		4,12	
	PETRONAS Carigali	Malaysia	pipelines		0,4	
	PETRONAS Carigali	Malaysia	pipelines		22,995	
	ADMA OPCO	UAE	pipelines		3,491	
	TOTAL 2013					
TOTAL (since 2002):					16028,229	

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			Type	Diameter, mm	Length, km	
2014	Kolomna	Russia	gas distribution station			
	Statoil, Norway	Norway	pipeline		0,141	
	Transneft	Russia	pipeline		5	
	Transneft	Russia	pipeline		5	
	PETRONAS Carigali	Malaysia	pipeline		512	
	TOTAL 2014					522,141
TOTAL (since 2002):					16550,37	
2015	ADMA OPCO	UAE	Oil, gas and water supply		18,601	
	CTDUT facility, Brazil	Brazil	Test bench buried pipe 8'		0,0458	
	GAIL (India) Limited	India	pipelines		8,497	
	MT Progetti	Italy	14 "Pofi-Arnara-Ceccano		8,3	
	PCSB-PMO		oil pipeline		129,7	
	PCSB-SKO		pipelines		11,596	
	SSGP		pipeline		512	
	Statoil Petroleum AS	Norway	Oil and gas pipelines		0,8359	
	ALROSA-Gaz	Russia	pipelines		12,938	
	Gazprom Transgaz Moscow	Russia	pipelines		313	
	Gazprom Transgaz Yugorsk	Russia	pipelines		3	
	Waterworks		aqueducts		0,3	
	LLC Gazprom Kyrgyzstan	Russia	pipelines		1,266	
	Enbridge Pipelines Inc		oil pipeline		13,8738	
	Sakhalin Energy	Russia	pipelines		47,209	
	Salym Petroleum Development (SPD NV)	Russia	oil pipeline		6,6532	
TOTAL 2015					1087,8157	
TOTAL (since 2002):					17638,1857	
2016	MT Progetti / HERA	Italy	Gas		1,7017	
	ALROSA - Gas	Russia	Gas		4,73	
	LLC "GAZMASHPROEKT"	Russia	Gas		312,12	
	Statoil Petroleum AS	Norway	Oil and gas pipelines		6	
	SKG-Petronas	Malaysia	Gas		166,9135	
	Italy	Italy	Gas		24,589	
	OOO Gazprom transgaz Moscow	Russia	Gas		10	
	KUALA LUMPUR AVIATION FUELLING SYSTEM SDN. BHD (KAFS)	Malaysia	FUEL		9,907	
	Enbridge Pipelines Inc		Oil		0,214	
	TOTAL 2016					536,1752
TOTAL (since 2002):					18174,3609	

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2017	MT Progetti / HERA	Italy	Gas distribution		1,7017	
	JSC "KTK-R"		Carbon steel		15	
	Knpc	Kuwait			8	
	OA "Alrosa-Gaz"	Russia	underwater crossings	159, 108, 530	18,697	
	LLC "RN-Sakhalinmorneftegaz"	Russia	Main oil pipeline	530	20	
	OA "Alrosa-Gaz"	Russia	collector	159	23,931	
	LLC "LUKOIL-UNP"	Russia			3,681	
	Corrtrol	Malaysia	underground pipelines		1,38	
	Statoil	Germany	The cop		0,1	
	Power gas	Singapore			4,1	
	Statoil	Norway	The cop		0,93	
	Enbridge	USA	The cop		1,49	
	Corrtrol	Thailand	Subsea pipelines		2,6	
	TRANSKOR-Malaysia	Malaysia	polygon		0,12	
	PGE	USA	The cop		0,4	
	PPLC	USA	The cop		4,92	
	Enbridge	Canada	The cop		32	
	ONGC (India)	India	Submarine pipelines		41,41	
	Corrtrol	Thailand	Submarine pipelines		16	
	OOO Gazprom transgaz Moscow	Russia	Gas pipelines		34,4	
TOTAL 2017					230,8607	
TOTAL (since 2002):					18405,2216	
2018	LLC "NOAVTEK-	Russia	loop condensate pipeline	426	10,49	
	SNAM Italy	Italy	section F.VARA-TORRENTE TEGLIA of La Spezia-Borgotaro DN 30 "		3,739	
	B-MAT Slovakia	Slovakia	UT Lab - Nova Dedinka Section A, C; UT Jablonica - Vysoka pri Morave Section A	700	4,2	
	JSC "Alrosa-Gaz"	Russia	Gas manifold		23,5	
	JSC "Kaliningradgasification"	Russia	pipeline-outlet		1,86	
	JSC "Mosoblqaz"	Russia	pipeline		3,434	
	SGI	Italy	Gas pipelines		18	
	KLIA PTS Petronas, Corrtrol	Malaysia	airport pipelines KLIA, KLIA2,		38	
	KNPS	Kuwait	SW sea water pipelines		24	
	IGL	India	low pressure gas pipelines		9	
	GAIL (India) Limited	India	low pressure gas pipelines Vijapur,		38	
	RIL	Индия	low pressure gas pipelines		23	

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			Type	Diameter, mm	Length, km		
	Enbridge	USA	Refinery		32		
	PUB Singapore, Corrtrol	Singapore	Pilot project, low pressure water		1,8		
	APA, Corrtrol	Australia	Pilot project, oil pipeline		3		
	LLC "RN-Sakhalinroneftegaz"	Russia	trunk pipeline		10,8		
	TOTAL 2018						244,823
	TOTAL (since 2002):						18650,0446
2019	SGI	Italy	gas pipeline		7,951		
	SGI	Italy	gas pipeline		0,30986		
	KNPS	Kuwait	SW		35		
	TOTAL 2019						43,26086
	TOTAL (since 2002):						18693,30546

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