



Reference list

No.	Client / Plant	Works scope	Year
1	Stoelzle Czestochowa, Poland	<p>Industrial installations for new furnace including:</p> <ul style="list-style-type: none"> - Industrial water installation - Cooling water installation - Air cooling installation - Vacuum installation - Natural gas installation: main stations and lehrs supply <p>Works included: supply, assembly and start up: manifolds, piping, catchment basins, armature, fittings, pump skids, heat exchangers, filters,</p> <p>Compressed air, vacuum, industrial water, fire protection water and water cooling installations for 5 IS machines, including supply, assembly and start up:</p> <ul style="list-style-type: none"> - tanks, pressure reducers, filters, piping, armature, fittings, manifolds, instrumentation. 	2022
2	DekorGlass Tur Poland	<p>Dissassembly of gas skids: main skid, 2 skids for forehearths and lehrs Delivery and installation of new skids: main skid, 2 skids for forehearths and lehrs</p> <p>Industrial installations for new furnace including:</p> <ul style="list-style-type: none"> - Industrial water installation - Cooling water installation <p>Works included: supply, assembly and start up: manifolds, piping, catchment basins, armature, fittings,</p> <p>Expansion of glycol heat recovery installation for air compressors, dryers and vacuum pumps Works included: supply, assembly and start up: manifolds, piping, armature, fittings,</p>	2022
3	CAN-PACK Glass Orzesze, Poland	<p>Design & Build of industrial water cooling and water treatment plant including:</p> <ul style="list-style-type: none"> - Design documentation for all industries - Construction permit - Civil works (concrete tanks, new light structure building for technology, pipe bridge) - Equipment delivery: cooling towers, pumps, DAF unit, sludge press, tanks, sensors - Installation: all equipment, piping, fittings, armature, - Electric and automation works: cabinets delivery and installation, cabling, automation programming - Start up 	2022
4	CAN-PACK Glass Orzesze, Poland	<p>Compressed air - entire installations replacement for furnace W2 and W3 including supply, assembly and start-up: 9 tanks, piping, armature, fittings, installation of 9 dryers.</p>	2022

5	O-I Manufacturing Nove Sedlo Czech Republic Furnace + line 43	<p>Industrial installations for furnace including:</p> <ul style="list-style-type: none"> - Industrial water installation - Cooling water installation - Air cooling installation - Furnace pressure installation <p>Works included: supply, assembly and start up: manifolds, piping, catchment basins, armature, fittings, pump skids, heat exchangers, channels, filters and cooling tower</p> <p>Compressed air, vacuum, industrial water, fire protection water and water cooling installations for IS machine, including supply, assembly and start up:</p> <ul style="list-style-type: none"> - tanks, pressure reducers, filters, piping, armature, fittings, manifolds, instrumentation. <p>Steel structure modification: machine subframe, platforms, staircases.</p> <p>New glass chutes (3 pcs) manufacture, supply and installation.</p> <p>Old IS Machine removal and new machine placement.</p> <ul style="list-style-type: none"> - development of the machine relocation technology, - moving old machine out beyond the outline of the supporting structure, - moving old machine out of the production hall, - moving new machine into the production hall, - moving new machine into supporting structure, - Final alignment of machine 	2021
6	HeinzGlass Działdowo Poland	<p>Industrial installations including:</p> <ul style="list-style-type: none"> - Compressed air installation - Vacuum installation - Natural gas installation - Industrial gases installations - Industrial water installation <p>Works included: supply, assembly and start up: manifolds, piping, catchment basins, armature, fittings etc.</p>	2021
7	O-I Manufacturing Nove Sedlo Czech Republic Line 31	<p>Compressed air, vacuum, industrial water, fire protection water and water cooling installations for IS machine, including supply, assembly and start up:</p> <ul style="list-style-type: none"> - tanks, pressure reducers, filters, piping, armature, fittings, manifolds, instrumentation. <p>Steel structure modification: machine subframe, platforms, staircases</p> <p>New glass chutes (3 pcs) manufacture, supply and installation.</p> <p>Old IS Machine removal and new machine placement.</p> <ul style="list-style-type: none"> - development of the machine relocation technology, - moving old machine out beyond the outline of the supporting structure, - moving old machine out of the production hall, - moving new machine into the production hall, - moving new machine into supporting structure, - Final alignment of machine 	2021
8	HeinzGlass Działdowo Poland (subcontractor)	<p>Compressed air, vacuum, oxygen, acetylen and ABL installations for IS machine, including supply, assembly and start up:</p> <ul style="list-style-type: none"> - tanks, pressure reducers, filters, piping, armature, fittings, instrumentation. 	2021
9	Krosno Glass S.A. Krosno Poland	<p>Modernisation of entire pressured air installation on the plant, including upgrade from carbon steel to stainless steel, equipment relocation, supply, assembly and start-up:</p> <p>tanks, filters, cyclone filters, piping, armature, fittings, instrumentation.</p>	2021
10	Mercedes-Benz Manufacturing Poland Jawor Poland (subcontractor)	<p>Compressed air - entire installations for 2 new production lines in the plant including supply, assembly and start-up:</p> <p>piping, armature, fittings,</p> <p>steel structure for pipeline bridge 135m long, over 5m high, including supply and assembly.</p>	2020

11	Toyota Motor Manufacturing Poland Wałbrzych Poland (subcontractor)	Compressed air - entire installations for new production hall including supply, assembly and start-up: piping, armature, fittings, Cooling water - entire installations for new production hall including supply, assembly and start-up: piping, armature, fittings.	2020
12	O-I Glasspack Bernsdorf Germany	Cooling water for the furnace including electrodes, batch chargers, throat, camera. Scope: supply, assembly and start up: manifolds, piping, catchment basins, armature, fittings. Pressure indication piping for the furnace. Compressed air: - for the furnace installations: gas skids, camera, burners, pyrometers, - entire installations for 2 IS machines, including supply, assembly and start up: - tanks, pressure reducers, filters, piping, armature, fittings, manifolds, instrumentation. Industrial water, fire protection water and water cooling installations for 2 IS machines: - chutes and scraper including supply, assembly and start up: - pressure reducers, filters, piping, armature, fittings, manifolds, instrumentation lubrication for 2 IS machines.	2020
13	LG Chem Wrocław Energy Sp. z o.o. Wrocław Poland	Compressed air for production hall: 15 000m of piping, fittings: supply and assembly. Nitrogen: piping, armature, fittings: supply and assembly Cooling water for production hall: piping, armature, fittings: supply and assembly. Vacuum pumps 60 pcs: installation.	2018 - 2020
14	DekorGlass Tur Poland	Cooling water for the furnace including electrodes, batch chargers, throat, level sensor, camera. Scope: supply, assembly and start up: manifolds, pumpung system incl. control, piping, catchment basins, armature, fittings. Pressure indication piping for the furnace. Compressed air: - for the furnace installations: gas skids, camera, burners, pyrometers, - entire installations for 3 IS machines, including supply, assembly and start up: - tanks, pressure reducers, filters, piping, armature, fittings, manifolds, instrumentation. Gas supply for the furnace and working end and forehearths including: installation of skids, supply and assembly of piping, armature, fittings. Industrial water, and water cooling installations for 3 IS machine, - - chutes and scraper including supply, assembly and start up: - pressure reducers, filters, piping, armature, fittings, manifolds, instrumentation lubrication for 3 IS machines. Replacement of IS machines on 3 lines, including: - development of the machines relocation technology, - moving old machines out beyond the outline of the supporting structure, - moving old machines out of the production hall, - moving new machines into the production hall, - moving new machines into supporting structure, - Final alignment of machines	2019
15	O-I Poland S.A. Jarosław Poland (subcontractor)	Compressed air, vacuum, industrial water, fire protection water and water cooling installations for IS machine, including supply, assembly and start up: - tanks, pressure reducers, filters, piping, armature, fittings, manifolds, instrumentation.	2019

16	Trend Glass Radom Poland	<p>Compressed air: - entire installations for 5 IS machines, including supply, assembly and start up: filters, piping, armature, fittings, manifolds, instrumentation.</p> <p>Oxygen: entire installation for 5 IS machines and furnace, including supply, assembly and start up: piping, armature, fittings.</p>	2018
17	O-I Produkcja Polska S.A. Poznań Poland	<p>Compressed air: - compressor station - replacement of entire installation.</p> <p>Compressed air: - for the 2 furnaces installations: gas skids, camera, burners, pyrometers, - entire installations for 4 IS machines, including supply, assembly and start up: - tanks, pressure reducers, filters, piping, armature, fittings, manifolds, instrumentation.</p> <p>Industrial water for scraper and chutes, fire protection water and water cooling installations for 4 IS machines, including supply, assembly and start up: - pumping stations, pressure reducers, filters, piping, armature, fittings, manifolds, instrumentation</p> <p>- Cooling water for the furnace including electrodes, batch chargers, throat, camera. Scope: supply, assembly and start up: pumping stations, manifolds, piping, catchment basins, armature, fittings.</p> <p>lubrication for 4 IS machines.</p> <p>Gas powered boiler house 1MW and heating installation for entire plant. Scope: Modernisation of entire system with connection to heat recovery system: piping, armature, fittings, manifolds, instrumentation</p> <p>Vacuum installation for 4 IS Machines: - vacuum pumps station, piping, armature, fittings, manifolds, instrumentation.</p>	2017 & 2019
18	CAN-PACK Glass Orzesze, Poland	<p>Industrial waterfor 9 IS machines: including supply, assembly and start up: piping, armature, fittings, manifolds.</p> <p>Air drying system for compressed air including: - driers installation -supply, assembly and start up: piping, armature, fittings.</p>	2017
19	Stoelzle Czestochowa Poland	<p>Compressed air: - compressor station - modernization of entire installation.</p> <p>Compressed air: - for the 2 furnaces installations: gas skids, camera, burners, pyrometers, - entire installations for 9 IS machines, including supply, assembly and start up: - tanks, pressure reducers, filters, piping, armature, fittings, manifolds, instrumentation.</p> <p>Heat recovery systems from air compressors (air + water)</p> <p>Industrial water for scraper and chutes, fire protection water and water cooling installations for 9 IS machines, including supply, assembly and start up: - pumping stations, pressure reducers, filters, piping, armature, fittings, manifolds, instrumentation</p> <p>- Cooling water for the furnace including electrodes, batch chargers, throat, camera. Scope: supply, assembly and start up: pumping stations, manifolds, piping, catchment basins, armature, fittings.</p> <p>lubrication for 9 IS machines.</p> <p>Vacuum installation for 9 IS Machines: - vacuum pumps station, piping, armature, fittings, manifolds, instrumentation.</p>	2010 - 2021

20	STCW Stoeleze Wymiarki Poland	<p>Compressed air: - for batch house: tanks, pressure reducers, filters, piping, armature, fittings, manifolds, instrumentation. - for the furnace installations: gas skids, camera, burners, pyrometers, - entire installations for 2 IS machines, including supply, assembly and start up: - tanks, pressure reducers, filters, piping, armature, fittings, manifolds, instrumentation.</p> <p>Industrial water for scraper and chutes, fire protection water and water cooling installations for 2 IS machines, including supply, assembly and start up: - pumping stations, pressure reducers, filters, piping, armature, fittings, manifolds, instrumentation</p> <p>- Cooling water for the furnace including electrodes, batch chargers, throat, camera. Scope: supply, assembly and start up: pumping stations, manifolds, piping, catchment basins, armature, fittings.</p> <p>lubrication for 2 IS machines.</p> <p>Vacuum installation for 2 IS Machines: - vacuum pumps station, piping, armature, fittings, manifolds, instrumentation.</p>	2015 - 2016
21	CAN-PACK Glass Orzesze, Poland (subcontractor)	<p>Compressed air: - entire installations for IS machine, including supply, assembly and start up: - tanks, pressure reducers, filters, piping, armature, fittings, manifolds, instrumentation.</p> <p>Industrial water for scraper and chutes, fire protection water and water cooling installations for IS machine, including supply, assembly and start up: - piping, armature, fittings, manifolds, instrumentation</p> <p>Vacuum installation for IS Machine: - vacuum pumps station, piping, armature, fittings, manifolds, instrumentation.</p>	2015
22	CAN-PACK Glass Orzesze, Poland (subcontractor)	<p>Compressed air: - for the furnace installations: gas skids, camera, burners, pyrometers, - entire installations for 3 IS machines, including supply, assembly and start up: - tanks, pressure reducers, filters, piping, armature, fittings, manifolds, instrumentation.</p> <p>Industrial water for scraper and chutes, fire protection water and water cooling installations for 3 IS machines, including supply, assembly and start up: - piping, armature, fittings, manifolds, instrumentation</p> <p>- Cooling water for the furnace including electrodes, batch chargers, throat, camera. Scope: supply, assembly and start up: manifolds, piping, catchment basins, armature, fittings.</p> <p>lubrication for 2 IS machines.</p> <p>Vacuum installation for 2 IS Machines: - vacuum pumps station, piping, armature, fittings, manifolds, instrumentation.</p>	2011