

Products and markets

Industries

Turbomachinery



Products	Axial	Radial (vertical/horizontal)	Integrally geared	Process gas screw	HOFIM® technology	MOPICO® technology	Isothermal	TURBAIR® vacuum blowers	Expanders	Steam turbines
Markets	Upstream									
	Midstream	Liquefied natural gas, CO ₂	Gas lift, gas injection, gas export, gas gathering, gas treatment, gas processing, CO ₂ -injection, liquid petroleum gas, natural gas liquids, flash gas	CO ₂ -injection, CCUS	Vapor recovery, flash gas, gas gathering, gas processing	Gas export, gas lift, gas gathering, gas reinjection, gas processing, flash gas, subsea, wet gas, wellhead gas				
	Downstream	Desulfurization, olefin recovery, fluid catalytic cracking, propane dehydrogenation, nitric acid, maleic acid, others	Gas transport, gas storage, fuel gas, liquefied natural gas boil off, tank vapor	Gas transport, gas storage, liquefied natural gas	Hydrogen feeder (electrolyzers), fuel gas, boil off	Gas storage, gas transport, liquefied natural gas	Gas storage, gas transport		Liquefied natural gas	Gas transport
	Industrial gases	Air separation (incl. gas-to-liquids, coal-to-liquids), blast furnace, others	Hydrogen production, hydrogen recovery, hydrogen cracking, desulfurization, olefin recovery, fluid catalytic cracking, propane dehydrogenation, methanol, ethylene, chlorine, gas-to-liquids, coal-to-liquids, ammonia, urea, nitric acid	Methanol, chlorine, hydrogen processing, propane dehydrogenation, ammonia, urea, nitric acid, gas-to-liquids, coal-to-liquids, CO ₂ , terephthalic acid, refrigeration, vapor, others	Hydrogen production (PSA), hydrogen mixtures, styrene monomer, butadiene, linear alkyl benzene (LAB), flare gas, acetylene, steam, aniline, ethylene, propylene	Hydrocarbon processes, helium, nitrogen	Hydrocarbon processes, helium, nitrogen	Nitric acid, ammonia	Fluid catalytic cracking, terephthalic acid, nitric acid	Gas-to-liquids, coal-to-liquids, hydrogen processing, hydrogen production, hydrogen recovery, hydrogen cracking, desulfurization, fluid catalytic cracking, propane dehydrogenation, methanol, olefins, terephthalic acid, chlorine, ammonia, urea, nitric acid, ethylene, others
	Power generation	Fuel gas, boil off, tank vapor, others	Air separation (incl. gas-to-liquids, coal-to-liquids), oxygen, paper	Air separation (incl. gas-to-liquids, coal-to-liquids), blast furnace, paper	Coke oven gas, blast furnace, direct reduction, soda ash			Air separation, blast furnace, oxygen	Blast furnace top gas recovery turbine	Air separation, blast furnace blowers, others
	Decarbonization solutions	Carbon capture, utilization and storage (CCUS), energy storage	Integrated gasification combined cycle (IGCC)	IGCC, fuel gas	Fuel gas				Power recovery	Industrial power generation incl. waste-to-energy, biomass, concentrated solar power, pulp & paper, combined cycle, waste heat recovery systems (WHRS), others
			CCUS, energy storage, hydrogen compression, heat pump, green and blue ammonia, green methanol	CCUS, energy storage, hydrogen compression, heat pump, steam compression, CCHR (carbon capture heat recovery), green and blue ammonia	Hydrogen compression, steel works (blast furnace, coke oven gas, DRI), vapor recovery	Heat pump, energy storage, hydrogen compression	Heat pump, hydrogen compression	CCUS, energy storage	CCUS, heat pump, energy storage	
Performance data and features	• Suction flow rates up to 1.5 million m³/h • Max. discharge pressure: 25 bar	Horizontal split design: • Suction flow rates up to 900,000 m³/h • Max. discharge pressure: 60 bar Vertical split design: • Suction flow rates up to 330,000 m³/h • Min. suction flow rates: 100 m³/h • Max. discharge pressure: 1,000 bar	• Suction flow rates up to 600,000 m³/h • Max. discharge pressure: 250 bar	• Suction flow rates up to 100,000 m³/h • Max. discharge pressure: 52 bar • Medium: suitable for corrosive, particle loaded gases and other gases	• Gas compression up to 18 MW • Outlet pressure up to 300 bar • Suction flow rates up to 30,000 m³/h • Hermetically sealed compact compressors with integrated high-speed electrical motor and active magnetic bearings • Suitable for unmanned operations	• Gas transmission up to 18 MW • Outlet pressure up to 130 bar • Suction flow rates up to 40,000 m³/h • Hermetically sealed compact compressor with integrated high-speed electrical motor and active magnetic bearings • Suitable for unmanned operations	• Flow rates up to 760,000 m³/h • Max. discharge pressure: 21 bar	• Suction flow rates up to 200,000 m³/h • Vacuum levels up to 75 kPa	• Single- and multi-stage design • Axial- and radial flow design • Inline and integrally geared • Medium: air, tail gas, top gas, offgas, CO₂, and other gases • Power output up to 180 MW • Inlet temperature up to 760 °C • Inlet pressure up to 140 bar	• Generator and mechanical drive • Live steam up to 140 bar and 540 °C • Power output up to 180 MW



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