

LIST OF MAJOR EXPERIENCE FOR ONGOING & COMPLETED PROJECTS

MANUFACTURER NAME	<i>GRANDE MECCANICA S.p.A</i>	MZCR REACTORS
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* Scope of order: S= Supply, E= Engineering, M= Manufacturing, I= Installation

OUR JOB	Year of SIGNATURE	PROJECT TITLE	CLIENT NAME / END USER	No. Order	SCOPE OF WORKS / SPECIFICATIONS	YEAR OF SUPPLY	ROLE IN SUPPLY *
04640	2004	PP 185 SPHERIZONE 200 KT/Y – MIDDLE EAST, ISRAEL	Marubeni Europe	22	MZCR Dimension : Ø 1.000 /1.200 /1.800 /2.200 L. 38.200/43.500 Thk 20 / 24/ 27 /32 / 38 / 40 Tot. Weight : 160.000 kg	2004	S-E-M
05230	2005	PP 185 SPHERIZONE 300KT/Y – ALTAMIRA - MEXICO	INDELPRO		MZCR+prepoly Ø 1400/2400-1600/2400/3000 L. 53500 Tot. Weight : 325.000 kg + 6.726 kg	2005	S-E-M
08100	2008	PP PLANT 300KT/Y - SINES PORTUGAL	Tecnimont/ Repsol	4500018401	MZCR Ø 1300/2300 - 1500 / 2300 / 2800 L. 55000 Tot. Weight : 313.000 kg	2008	S-E-M
10050	2010	PETROCHINA DAQING REFINERY & CHEMICAL COMPANY - CHINA	Hong Kong SKT / Petrochina	2017P-PO-018	MZCR Dimension : (Ø x L x Thk) 1300/2300 x 53.500 x 27/35/47/80 1500 / 2300 / 2 800 x 44.900 x 27/35/ 47/80 Tot. Weight : 313.400 kg	2011	S-E-M
072-14	Feasibility Design in 2014	PROCESS & MECHANICAL DESIGN UPGRADE FOR SPHERIZONE LARGE-SCALE MZCR REACTOR PROJECT DETAILS COVERED BY SECRECY AGREEMENT	LyondellBasell, predecessors Montell and Himont	072-14	Mechanical Analysis, Design and Mechanical / Structural Feasibility Study performed by GM, following the modification and upgrade of the process design studied by LyondellBasell with consequent modification to the MZCR Geometric and Structural Design. Project covered by Secrecy Agreement. No Datas can be shared.	2014	S-E
17230	2017	LIAONING BORA PETROCHEMICAL COMPANY	LIAONING BORA	BLHG-SPCG-SBCG SBB-2017-0069	MZCR Dimension : (Ø x L x Thk) 1100/1900 x 45.000 x 27/35/47/80 1300 / 1900 / 22400 x 42.700 x 27/35/ 47/80 Tot. Weight : 210.000 kg	2018	S-E-M