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REFERENCE LIST IN THE FIELD OF AUTOMATION

STEEL AND IRON INDUSTRY

<u>CUSTOMER</u>	<u>PERIOD</u>	<u>DESCRIPTION</u>
"DANIELI" UDINE Italy		
"VOEST ALPINE" LINZ Austria		
"CONCAST STANDARD" ZURICH Switzerland		
	1990.-2003.	<p>Long-term teamwork in the field of energetic, electrical drives and process automation in steel factories. Design, programming, erection supervision, start up and training of employees in countries all over the world.</p> <p>Europe: Belgium, France, Sweden, Germany, Poland, Ukraine, Spain, Portugal, Italy, Switzerland, Austria, Czechoslovakia, Great Britain, Greece, Turkey, Russia, Romania, Belarus, Denmark.</p> <p>Asia: Malaysia, Thailand, Taiwan, China, Indonesia, Singapore, Iran, Japan, India, Vietnam, South Korea.</p> <p>America: SAD, Canada, Mexico, Cuba, Venezuela, Columbia, Peru, Chile.</p> <p>Africa: Egypt, Ghana, South African Republic, Uganda.</p> <p>Australia: New Zealand, Australia.</p>
		<p>This scope of supply was for following parts of the steel plant:</p> <ul style="list-style-type: none">- preparing and transport of scrap,- electric arc furnace for melting of scrap,- ladle refining furnace for iron refining,- preparing, transport and dosing of additives,- vacuum furnace for the production of special iron types,- fumes filtering plants,



- continuous casting plants,
- chemical water treatment,
- rolling mill with reheating furnace,
- cutting, weighing, sorting and transport of profiles,
- hydraulic units and auxiliary equipment,
- transformer units and secondary units for power distribution of medium and high voltage,
- uninterruptible power supply.

Used equipment:

- energy ABB, SIEMENS, ANSALDO,
- AC and DC drives: ABB, SIEMENS, AEG, FUJI, Allen Bradley, KLÖCKNER MOELER,
- automation (PLC): SIEMENS, AEG, Allen Bradley, ABB, HITACHI, RELIANCE,
- control and monitoring: INTELLUTION FIX dMACS WONDERWARE IN TOUCH, Factory Link.

"ROTELEC"

PARIS, France

1996.-2006.

Bar edge heater

- Software development and commissioning
- automation (PLC): Siemens S5, S7, Toshiba.
- control and monitoring: WONDERWARE IN TOUCH.
- Software and start up for 4 plants (Taiwan, Australia, and Germany)

"FERRO-PREIS"

CAKOVEC, Croatia

1995.

Casting mill program, design, installation, start up:

- two lines for transport and processing of casting forms
- 2 x SIMATIC S5 103U; OP393; 64DI; 28DO;

1996.

Sand line

1999.-2000.

New sand line with mixer and dosing

- Automation (PLC): Simatic S7-300, OP37, 2 x Siwarex weighing units, project, program, controlling electrical panel, start up.

