



PERT

Main Reference List up to 2016

SI no	Vendor	End Customer	Year of contract	Type of Mill	Capacity	Scope for PERT				Turn key	Technology was used			Note
						Area	BE	DE	Supply		PERT patented BS stands	PERT LLR Rolls	PERT patented FLUR	
1	GFM	Gloria Steel	2000	Special steel bar mill	100'000	Stands and gearboxes	✓	✓						
2	GFM	BGH Hedelsthal	2001	Special steel bar mill	150'000	Stands and gearboxes	✓	✓						
3	GFM	Bhooler	2001	Special steel bar mill	150'000	Loopers	✓	✓	✓				Inclined loopers (45°)	
4	GFM	Unknow	2002	Forging machine	/	Casted parts	✓	✓	✓					
5	SIMAC/SMS	Arcelor Mittal	2006	Section mill #1	650'000	Bundle forming and finishing area	✓	✓						
6	SIMAC/SMS	Arcelor Mittal	2006	Section mill #2	650'000	Bundle forming and finishing area	✓	✓						
7	SIMAC/SMS	MECHEL	2004	Bar mill	800'000	Conveyors and roller tables	✓	✓						
8	SIMAC/SMS	Metalloinvest	2007	Bar mill	1'000'000	Conveyors and roller tables	✓	✓						
9	SIMAC/SMS	Barra Mansa	2008	Bar mill	500'000	Cooling bed	✓	✓						
10	SIMAC/SMS	SIMEC	2003	Bar mill	500'000	Bundle forming station	✓	✓						
11	SIMAC/SMS	Gulf steel	2005	Bar mill	300'000	Bundle weighing and unloading station	✓	✓						
12	SIMAC/SMS	Siderurgica Pains	1997	Bar mill	500'000	Cooling bed	✓	✓						
13	SIMAC/SMS	Onesteel	2001	Special steel bar mill	250'000	Off-line straightening and inspection line	✓	✓						

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14	SIMAC/SMS	SICARTSA	2000	Bar mill	450'000	Cooling bed	√	√						
15	SIMAC/SMS	Namheng	1998	Bar mill	400'000	Cooling bed	√	√						
16	SIMAC/SMS	EASROC	2006	Bar mill	500'000	Conveyors, loopers, roller tables	√	√						
17	SKET	BSW	2001	Bar mill	600'000	Cooling bed	√	√						
18	SKET	Georgsmarienhütte	2000	Special steel bar mill	900'000	Cooling bed	√	√	√				Double lifting aprons and shiftable racks	
19	SKET	ANTILLANA	2002	Section mill	600'000	Cooling bed	√	√						
20	POMINI	Judco Steel	1996	Bar mill	150'000	Stands and gearboxes	√	√						
21	POMINI	Hantai Steel	1991	Bar mill	500'000	Stands and gearboxes	√	√						
22	POMINI	Tai Lee Ind.	1992	Bar mill	350'000	Stands and gearboxes	√	√						
23	POMINI	Chin Ling	1992	Bar mill	350'000	Stands and gearboxes	√	√						
24	POMINI	Ruey Shaing Steel	1992	Bar mill	350'000	Stands and gearboxes	√	√						
25	POMINI	Hornos de Guatemala	1991	Meltshop	150'000	Moulds for new CCM	√	√						
26	POMINI	Xin Hu	1994	Bar mill	350'000	Stands and gearboxes	√	√						
27	POMINI	Feng An	1993	Bar mill	600'000	Stands and gearboxes	√	√						
28	POMINI	Jordan Steel	1994	Bar mill	400'000	Stands and gearboxes	√	√						
29	POMINI	Pittini	1998	Bar mill	350'000	cooling bed	√	√						
30	POMINI	Owen	1995	Meltshop	500'000	CCM	√	√					4 strands Billet 100x100 - 130x130	
31	POMINI	Bolzano	1996	Special steel bar mill	350'000	cooling bed	√	√						

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32	NKK		2000	Bar mill		Housingless stands development	√	√						
33	NKK		2000	Bar mill		Cantilever stands development	√	√						
34	CASAGRANDE	Sidemuna	1990	Wire rod mill	200'000	Fast finishing block	√	√	√				8-passes finishing block Max speed 80 m/sec	
35	CASAGRANDE	Hornos de Guatemala	1991	Bar mill	150'000	Cantilever stands	√	√	√				Dia. Φ320	
36	CASAGRANDE	Hornos de Guatemala	1992	Bar mill	150'000	Fast finishing block	√	√	√				6-passes rebar finishing block Max speed 25 m/sec	
37	CASAGRANDE	Ras Metal	1991	Meltshop	150'000	Continuous Casting Machine	√	√	√				3 Strands billet 100x100 - 120x120	
38	CASAGRANDE	Bisw	1990	Bar mill	200'000	Cooling bed and roller table with cross transfer	√	√						
39	CASAGRANDE	Unknow	1991	Bar mill	200'000	Counting, bundle forming and tying station	√							
40	CASAGRANDE	Unknow	1992	Section mill	150'000	Staker with double magnet	√							
41	CASAGRANDE	SISCO	1992	Bar mill	300'000	Roller table with double lifting aprons	√	√						
42	CASAGRANDE	Cosigua	1992	Bar mill	350'000	Cooling bed	√	√						

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43	CASAGRANDE	Hornos de Guatemala	1990	Bar mill	350'000	Three High Stand	√	√						
44	BSE	Unknow	1999	Meltshop	/	EAF and LF	√	√						60 tons
45	CONCAST	EARSCO		Meltshop		Erection and commissioning supervisors			√					
46	CONTINUA-CONCAST	Unknow	1994	Meltshop		EAF and LF water cooled roof	√	√						
47	CONTINUA-CONCAST	Unknow	1994	Meltshop		CCM straightening machine	√	√						
48	CONTINUA-CONCAST	Unknow	1995	Meltshop		CCM straightening machine	√	√						
49		VOESTALPINE	1997	Meltshop		CCM revamping	√	√						
50		TENARIS	1998	Meltshop		VOD automatic devices for samples								
51		ARMCO	1996	Grinding ball mill	60'000	Complete mill	√	√	√					
52		LUCCHINI	2000	Grinding ball mill	60'000	2 new forging stands	√	√	√					
53		LUCCHINI	1995	Section mill	800'000	Three High Stand	√	√	√					
54		AMRELI STEEL		Bar mill	150'000	Stands spare parts	√	√	√					
55		UNITED I&S		Bar mill	150'000	Stands and shears spare parts	√	√	√					

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56		FINCANTIERI	1999	Sheets and profiles painting line		Complete line	√	√	√					
57		NII	2000	Bar mill	200'000	Complete mill	√	√	√					
58		SBSC	2003	Section mill	250'000	Complete mill	√	√	√					
59		EGYPTIAN COPPER WORKS		Copper mill	/	Spare parts	√	√	√					
60		AFU		Bar mill		Roughing stands	√	√	√					
61		PITTINI	2004	Bar mill	500'000	Quenching line for rebars	√	√	√					
62		ITALFOND	2001	Meltshop	/	Water cooled roof for EAF	√	√						
63		GERDAU LAISA	2006	Bar mill	100'000	Flying dividing shear	√	√	√					
64		OPERADORA ICH		Bar mill	250'000	Stands spare parts	√	√	√					
65		EL BEHERA		Bar mill	150'000	Stands spare parts	√	√	√					
66		WALCOWNIA		Section mill	100'000	Stands spare parts	√	√	√					
67		SIGOSA		Section mill	450'000	Spare parts	√	√	√					
68		TALLERES Y ACEROS		Bar mill	350'000	Spare parts	√	√	√					
69		NII	2002	Bar mill	200'000	Complete mill	√	√	√					
70		ISCO	2001	Section mill	200'000	Complete mill	√	√	√					
71		SBSC	2003	Section mill	250'000	Complete mill	√	√	√					
72		SUEZ STEEL	2007	Bar & wire rod mill	480'000	Complete mill	√	√	√	√			2nd hand mill	
73		ASCo	2007	Bar mill	250'000	Shears spare parts	√	√	√					

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74		STTM	2009	Bar mill	200'000	Complete mill	√	√	√			√	PERT Rebar finishing block PWB80 6 passes - max. fin. speed 35 m/sec PERT FLUR® System	
75		STTM	2010	Wire rod line	200'000	Complete line	√	√	√			√	PERT Wire rod finishing block PWB80 4 passes - max. fin. speed 80 m/sec PERT FLUR® System	
76		ZUQUALLA STEEL	2012	Bar mill	150'000	Complete mill	√	√	√		√	√	√	BS Stands and 2xTECHNOLOGY® Block LLR Rolls and PERT FLUR® System
77		ISPAT INDO	2012	Wire rod block	500'000	PERT FLUR® System	√	√	√				√	
78		CVS STEEL	2012	Bar mill	150'000	Revamping	√	√	√					Slitting technology, quenching line, combined flying shear
79		DONGKUK	2013	Rebar block	1'000'000	PERT FLUR® System	√	√	√				√	
80		BSB	2013	Bar mill	300'000	Complete mill	√	√	√		√	√	√	BS Spindleless Stands and 2xTECHNOLOGY® Block - max fin speed is 35 m/sec for rebar 2x6 mm LLR Rolls and PERT FLUR® System

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81		KARDEMIR	2014	Section mill	400'000	Revamping	√	√	√		√			BS650 and BS550 roughing mill stands, BSJ340 jolly stands for flats production and roughing shear for pre-shaped sections (beams)
82		BSB	2015	Wire rod line	300'000	Complete line	√	√	√				√	PERT PWB35 4-passes pre-finishing block and PERT PWB120 8-passes finishing block max. fin. Speed 120 m/sec PERT FLUR® System
83		UNITED I&S	2016	Bar mill	250'000	Shears spare parts	√	√	√					
84		STTM	2016	Bar mill	200'000	Revamping	√	√	√					PERT PWB80 six passes finishing block upgrade for speed increase
85		SOUTHERN STEEL	2016	Bar Mill	300'000	Roughing stand spare parts			√					
86		BROMO STEEL	2016	Bar Mill	250'000	Revamping	√	√	√				√	New gearbox for existing stands, new high speed bar line complete of PWB80 4 passes finishing

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						Area	BE	DE	Supply		PERT patented BS stands	PERT LLR Rolls	PERT patented FLUR	
														block, high speed shear and twin channel system (design speed 45 m/sec), quenching system , bundling station, electrical and automation system, water treatment plant
87		SOUTHERN STEEL	2016	Bar Mill	300'000	Roughing stand spare parts			v					

Remark

In addition, we have developed the basic and detailed engineering (piping, civils, structures, electrical) for most of the rolling mills and meltshops supplied from other vendors such as :

- POMINI from 1990 upto 2004
- CASAGRANDE from 1990 upto 1993
- SIMAC/SMS from 1995 upto 2010
- CONCAST from 1994 upto 2012
- TENOVA from 1992 up to today