



Flat & Special s Products Introduction

International Material Solutions Ltd

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CONTENTS

- **Major Production Facilities**
- **Capacity**
- **Continuous Casting Slab**
- **Hot Rolled Products**
- **The scope for 1700 Rolling Mill**
- **The main Technical Spec. For HRC/HRP**
- **Cold Rolled Products**
- **The main Technical Spec. For CRC/CRP**
- **Galvanized Products**
- **The main Technical Spec. For HGI Steel Sheets in Coils**
- **Major production facilities of Special steel**
- **Major products of Special steel**





Major Production Facilities

Name of Equipment	Specification & Design Capacity
Sintering Machine	75 m3 7 sets 6.0 million ton per year 265 m3 2 sets 4.9 million ton per year
Coke Oven	36, 55, 60, 65 (ovens)
Blast Furnace	5#~7#2600m3, 8#4747m3
Converter	150 ton (3), 180 ton (3)
Refining Equipment	RH, AHF, LF
Continuous Caster	Six sets,13 million ton/year
Hot Strip Mill	One set, 12million ton/year
Cold Rolling Mill	One set, 1.4million ton/year second set 1.9 million ton/year
Hot dip galvanizing Line	Four sets 1.4million ton/year
Pre-Painting line	One set 170,000 ton/year
Special steel	Two sets 1.1 million ton/year



PIG IRON
140

- 150 ton (3)

**CRUDE
STEEL**
130

2009 year
(ten thousand tons)

1#GI 30
2#GI 30
3#GI 45
4#GI 35
PPGI 17

1#CRC 80
2#CRC 90
FH 20
Thin strip line 100

**SPECIAL
STEEL**
110

HRC 430
CSP 280
Third 515



Continuous Casting Slab Provided

Thickness:70/85/90/200/210/230/250MM

210/230/250mm for the first line

70/85/90mm for BSP

200/230mm for the third line

Width:850~2150MM

850~1550mm for the first line

850~1750mm for BSP

1000~2510mm for the third line

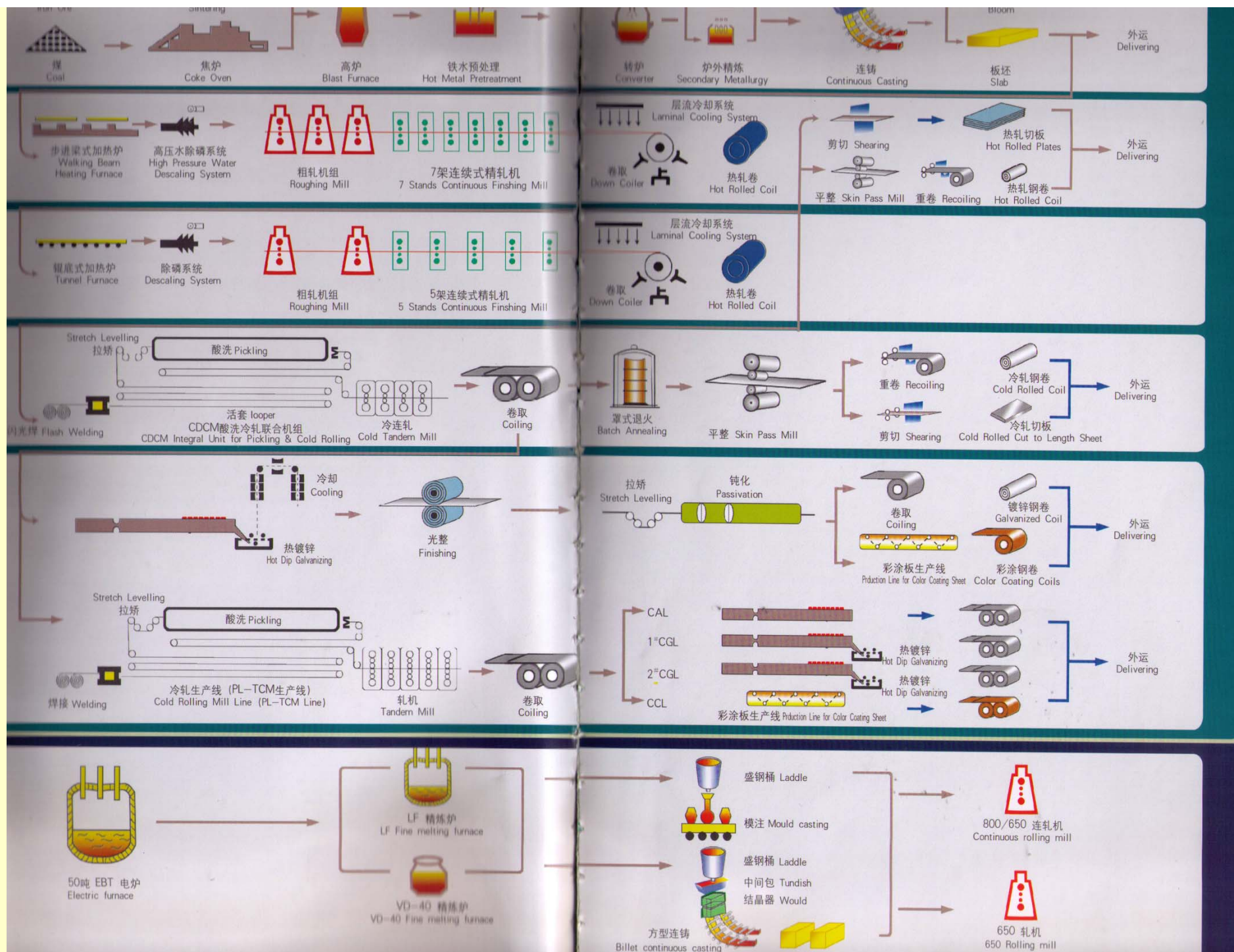
Length:4500~33000mm

4500~9000mm for the first line

10000~33000mm for BSP

4500~5300mm and 9000~11000mm for the third line

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1700MM Production Line





HR Products in batch Provided for 1700mm line

name	standard	grade	Specification(1700 rolling mill)
HRC	JIS	SS400, SPHC SPHT1/2/3	(2.0 ~12.0)X (1000~1500)
HRC	ASTM	SAE 1006.....,A36/A572GR50	(2.0 ~ 12.0)X (1000~1500)
HRC	EN	S235 S275 S355 S355MC	(2.0 ~12.0)X (1000~1500)
HRC	API	X42-X70 5LB	(2.5 ~ 12.0) X (1000 ~ 1500)
HRC	JIS	SG255,295, 325	(2.2 ~10.5)X (1000~1500)
HRC	JIS	SPA-H	(2.0~10.5) X (1000~1500)
HRC	JIS	SM490	(3.0 ~12.7)X (1000~1500
HRP		SS400,Q215, Q235,.....	(2.0~10.0) X(1000~1500)

Note:1.The quantity of 2.0 ~ 3.0 thickness can not exceed 10% of total quantity ordered
2.50mm width belongs to one batch, the min.quantity of each batch is 600 tons
3.At present,nearly the width provided is 1050~1500MM

■ The scope for 1700 Rolling Mill

No	Grade	Width & Thickness									
		UNIT :MM									
		900~1050	>1050~1100	>1100~1150	>1150~1200	>1200~1250	>1250~1300	>1300~1350	>1350~1400	>1400~1450	>1450~1500
1	SPHT1、SGCC、Q235、Q215、Q195	2.0~12.7			2.5~12.7		3.5~13.5		4.0~13.5		
2	SAE1006、SAE1008、08Al、LD1、LD2	1.8~12.7		2.0~12.7			3.0~12.7		4.0~12.7		
3	SS330	2.2~12.7		2.5~12.7			3.5~13.5		4.0~13.5		
4	SS400 SPHT2	2.4~12.7		2.5~12.7	2.7~12.7		4.0~12.7		4.5~12.7		
5	J55-X、J55-1、S360、S385、S415	5.5~12		5.6~12						7.1~12	
6	X65、X70、S450、S480	7.1~20									
7	Q345A/B/C/D、SM490A	3.0~12.7				3.5~12.7	4.0~12.7	5.0~12.7	5.75~12.7		
8	HP295-2	2.2~10.5				3.0~9.0	3.25~9.0		5.9~9.0		
9	HP295-1	2.9~10.5				3.0~9.0	3.25~9.0		5.9~9.0		
10	HP325	3.0~10.5					3.25~9.0		5.9~9.0		
11	10、15、20、ST37	2.5~10.5			3.0~10.5		4.6~10.5		5.6~9.0		
12	30、40、45	3.0~10.5					4.6~10.5		5.6~9.0		
13	SPA-H、09CuPTiRe-A	2.5~10.5	2.7~10.5		3.0~10.5	3.5~10.5	4.0~10.5			5.6~9.0	
14	Q235B-H chequered steel		2.75~8.0(≤15t)			3.25~8.0(≤19t)	3.5~8.0(≤20t)				
15	SPHC、SPHD、SPHE	2.0~12.7			2.5~12.7		3.0~12.7		4.5~12.7		
16	SAE1018、SAE1022	2.5~10.5			2.7~10.5		4.6~10.5		5.6~9.0		



The main Technical Spec. For HRC/HRP

1.HRP:

(1) WEIGHT OF EACH BUNDLE: $\leq 15\text{MT}$

(2)Edge: Mill edge

(3)Tolerance for width: $-0/+30\text{MM}$

Tolerance for length: $-0/+0.5\% \times \text{length}$

2.HRC:

(1)Coil Weight: 25MT MAX PER COIL

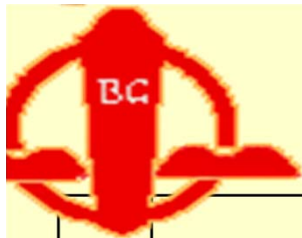
(2)Coil I. D. : $762\text{MM} (+/-30\text{MM})$

(3)Edge: Mill edge

(4)Telescope: 60MM MAX

(5)Camber: $5/2000 \text{ (MM) MAX}$

(6)Tolerance for width: $-0/+20\text{MM}$



AT PRESENT THE SCOPE PROVIDED FOR BSP

NO	GRADE	WIDTH & THICKING (MM)							
		850-1050	>1050-1150	>1150-1250	>1250-1350	>1350-1450	>1450-1550	>1550-1650	>1650-1700
1	SS400	2.0-9.9			2.0-9.9	2.5-9.9	2.5-9.9	4.0~9.9	5.75~9.9
2	SPA-H	2.0-9.9 (≤1190)		2.5-9.9	3.5-9.9	5.0-9.9			
3	St12、SPHC、SS330、Dc06、St14、St16、SPHT1、SPHT2、St02Z、SGCC	1.6-9.9	1.8-9.9		2.5-9.9	2.5-9.9	2.5-9.9	3.0~9.9	
4	20	2.0-9.9			3.0-9.9	3.5-9.9	4.0-9.9		
5	BG510L	4.0-9.9			5.75-9.9				
6	Q235B、Q345A/B	2.0~9.9			2.0~9.9	2.5~9.9	2.5-9.9	4.0~9.9	



The main Technical Spec. For BSP

(1)Coil Weight:31MT MAX PER COIL

(2)Coil I.D.:762MM(+/-30MM)

(3)Edge: Mill edge

(4)Telescope: 60MM MAX

(5)Camber:5/2000 (MM) MAX

(6)Tolerance for width:-0/+20MM

The third hot rolling strip line

Item: Stainless steel and carbon steel

Size: (2.0~20)mm*(1000~2150)mm for stainless steel

(1.2~25.4)mm*(1000~2150)mm for carbon steel

Coil weight: 40mt max

Id: 762mm

Od: 2150mm max

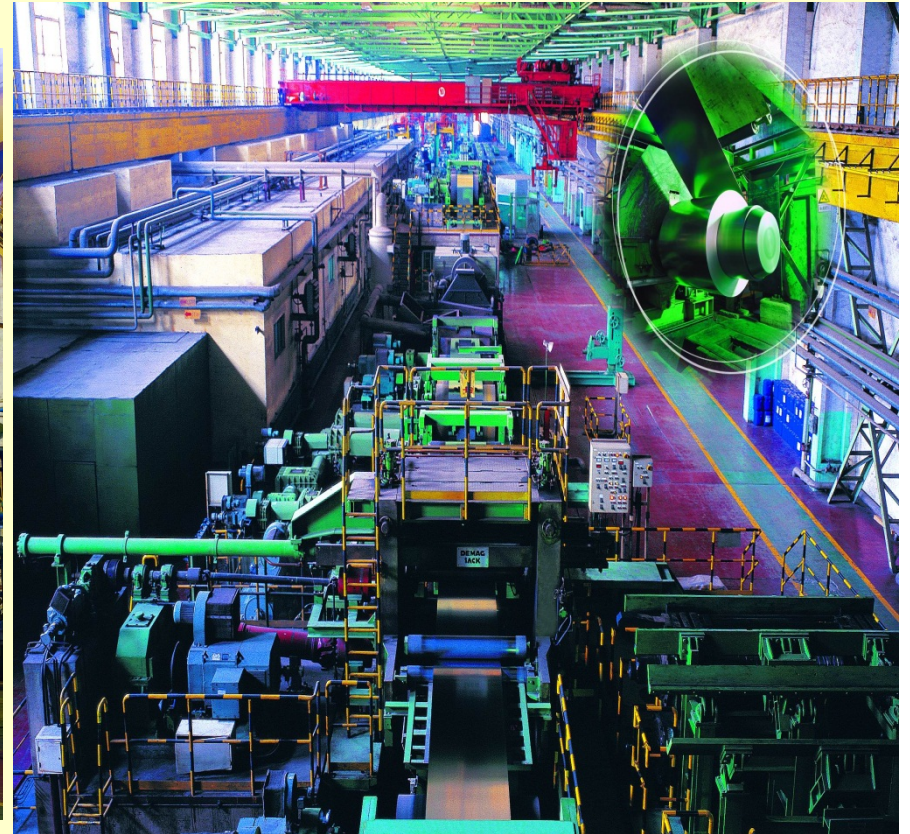
Standard: Astm, Jis, Din, Api ect.



CR Products in batch Provided

name	standard	grade	specification
CRC	JIS	SPCC	(0 .5 ~ 2.5)X (1000~1500)
CRC	DIN	St12, St13,St14	(0 .5 ~ 2.5)X (1000~1500)
CRC	EN	DC01	(0 .5 ~ 2.5)X (1000~1500)
CRC	ASTM	SAE1006	(0 .5 ~ 2.5)X (1000~1500)

Cold Rolled Production line





The main Technical Spec. For CRC/CRP

1. Coil Weight: 25MT PER COIL (10MT MAX FOR CRP PER bundle).
2. Coil I. D. : 610MM (+/-10MM)
3. Camber: 6/2000 (MM) MAX.
4. Telescope: +50MM Max
5. Tolerance for width: -0/+7MM
6. The condition of the goods: (not) oiled, Al killed, Matte Finish



HDG Products in batch Provided

name	standard	grade	specification
HDG	EN10142 EN10147 EN10292	DX51D+Z DX52D+Z S220GD+Z S250GD+Z	(0 .35 ~ 2.5)X (1000~1500)
HDG	ASTM A653	CS-B,CS-A SS33, SS40,SS50	(0 .35 ~ 2.5)X (1000~1500)
HDG	JIS G3302	SGCC, SGCD1 SGC400,440	(0 .35 ~ 2.5)X (1000~1500)
HDG	DIN used by Benxi	ST01Z ST02Z	(0 .35 ~ 2.5)X (1000~1500)

Note: 1.the width provided is 1000mm. for the thickness 0.35~0.45mm
2. 1.the width provided is 1000~1250mm. for the thickness
0.45~0.7mm



The main Technical Spec. For HGI in Coils

1. Coil Weight: 15MT MAX PER COIL.
2. Coil I. D. : 610MM (+/-10MM)
3. The condition of the goods: regular/zero spangle, chromated , (not)oiled, (not) skin pass, all thickness after coating(including zinc coating).
4. Zinc coating : 80~275g/m² (double-faced coating),
5. Tolerance for width: -0/+5MM



PPGI Products in batch Provided

name	standard	grade	specification
PPGI	EN	TDC51D TDC52D TS220GD TS250GD	(0 .35 ~ 1.2)X (1000~1300)
PPGI	ASTM	CS、 SS33, SS40,SS50	(0 .35 ~ 1.2)X (1000~1300)
PPGI	JIS G3312	CGCC, CGC340 CGC400,440	(0 .35 ~ 1.2)X (1000~1300)
PPGI	DIN	TST01Z TST02Z	(0 .35 ~ 1.2)X (1000~1300)



COLOR PRINTING INSTRUCTION

1. Brief for printing material

PE、SMP、HDP、PVDF ect.

2. The equipments were provided by FATA HUNTER CO. in USA. The Procession steps are printing & baking twice, It is that print the inner lacquer of the coil 、baking、print the outer lacquer of the coil 、baking.

3. The structure of printing:

coating top	coating back
1 (5-7microns)	1 (5-7microns)
2 (20-25microns)	1 (5-7microns)
2 (20-25microns)	2 (20-25microns)



Major production facilities of Special steel

- **1 converter bloom caster(350*470mm)**
- **1 EAF bloom caster (235*265mm)**
- **2 sets of 50 tons electric arc furnaces**
- **2 sets of 40 tons ladle furnaces**
- **1 set 40 tons vacuum furnace**
- **9 sets of 1~5 tons electric slag re-melting furnaces**
- **1 set of 650 rolling mill**
- **1set of 800/650mm continuous rolling mill**
- **1,3,5tons electro –hydraulic hammer**



The spec. for special steel

1.800/650 continuous rolling:

round steel: $\phi 20 \sim 250 \text{mm}$

square steel: $\leq 280 \text{mm}$

2.650 Tandem mill

round steel: $\phi 70 \sim 150 \text{mm}$

square steel: $70 \sim 115 \text{mm}$

3. Forging steel

round steel: $\phi 65 \sim 300 \text{mm}$



Major products of Special steel

1. Steel for machine,
20~45, 20Cr~40Cr, 42CrMo, 20CrMo, 38CrMoAl, 23MnB, 20~30CrMnTi, ect.
2. Steel for automobile gear,
SAE8620H(20CrNiMoH), SCM822H(22CrMoH), SCr420H(20CrH), ect.
3. Steel for automobile crankshaft,
45, 40Cr, 42CrMoA, 48MnV, S38MnSiV, ect.
4. Steel for bearing,
GCr15, GCr15SiMn, GCr15SiMo, GCr18Mo, G20Cr2Ni4A, ect.
5. Steel for petrobleum,
EX30(15CrNiMo), SN2025(15MnNiMo), 20CrNiMo, 20Ni4Mo,
4145H(45CrMnMo), 37CrMnMo(4137H), ect.
6. Steel for high pressure steam cylinder,
37Mn, 34Mn2V, 34CrMo4, 30CrMoA, ect.
7. Steel for boiler steeve,
SA182F11(10CrMo), SA182F12C12(15CrMo), Sa182f22c11(10Cr2Mo1),
35CrMo, 25Mn, 20MnMo, ect.



Major products of Special steel

8. Steel for charge rock drill,

22CrMnSiNi2MoA, 45CrNiMoV, 55SiMnMo, 35SiMnMoV, 40CrMnMo, ect

9. Steel for railway axle,

JZ, JZ45, JZ50, LZ50, ect.

10. Steamer turbine blade steel,

1Cr13, 2Cr13, 1Cr11MoV, 1Cr12Mo, 2Cr12MoV, ect.

11. Steel for military,

D60, 823, 58SiMn, ect.



THANKS

THE END