



# P O S C O C A T A L O G U E

열연강판

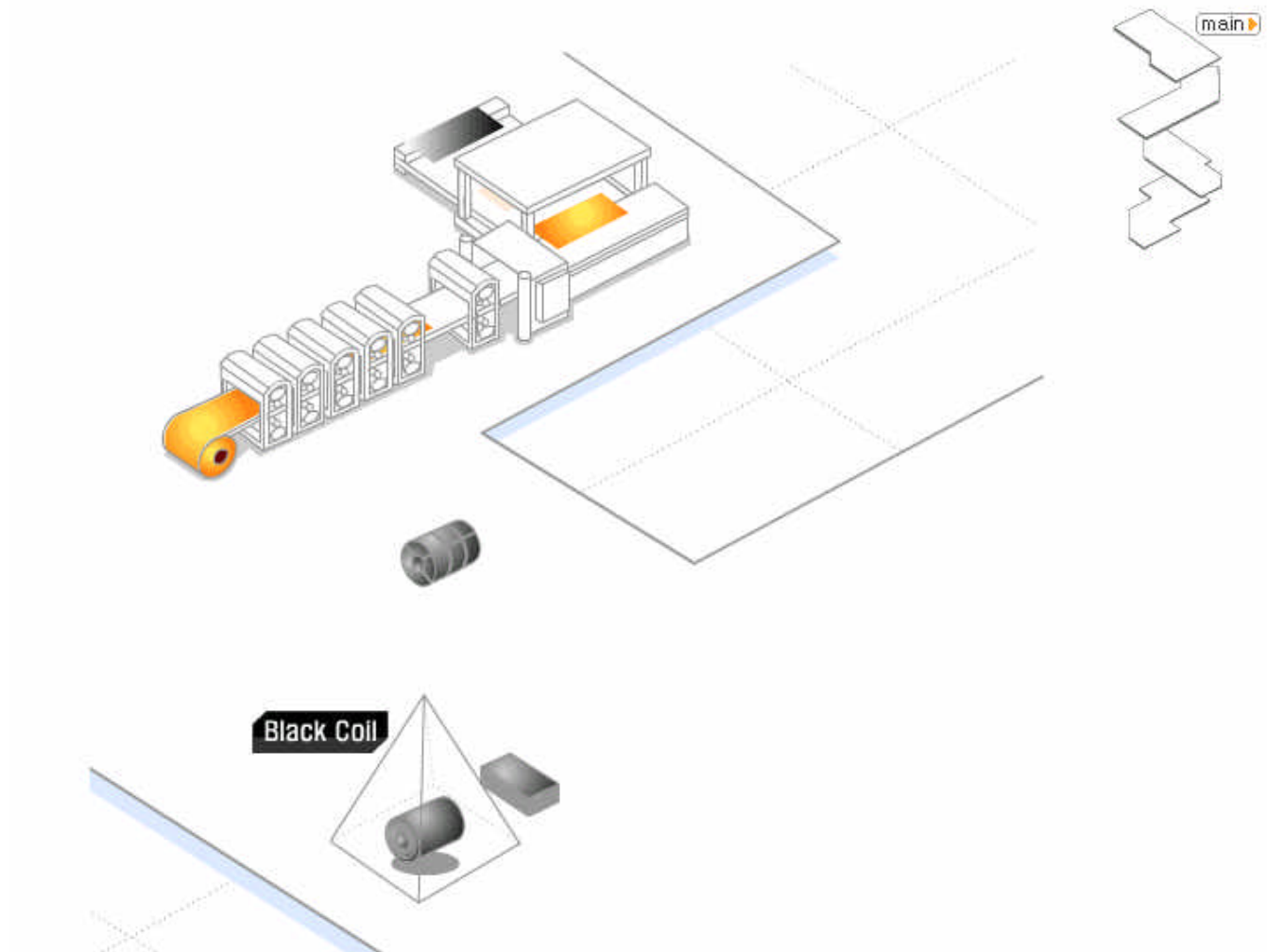
2001  
POSCO

## 제조과정



(Hot Strip Mill)

열연강판 제조과정 >> 포항제철은 POSCO 규격 외에 KS 규격, JIS 규격 및 해외규격 제품을 생산하며 자체규격의 각종 신제품을 개발해 나가고 있습니다.



## 제조설비



가

Scale

가

가

VSB(Vertcal Scale Breaker)



SCALE

Slab

EDGER 가

AWC(Automatic Width

Control)



Shift

Pair Cross Mill, ORG(On-Line Roll Grinding)  
(Crown)

Work Roll



Run-Out Table

Table Roll

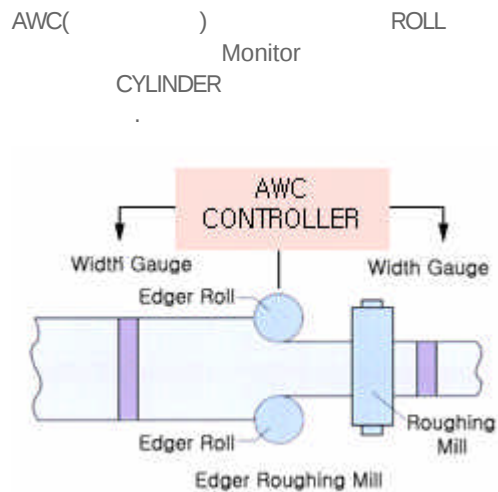
Run-Out Table  
Spray

## 설비사양

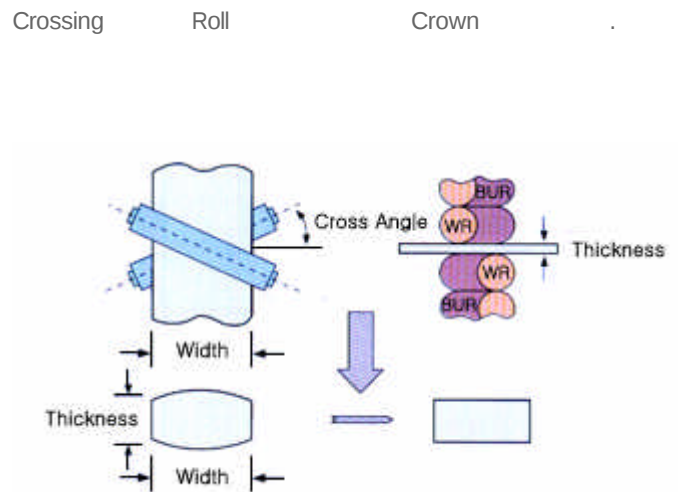
### 1.

|               |       | 1                    | 2                 | 1                 | 2                 | 3                 |
|---------------|-------|----------------------|-------------------|-------------------|-------------------|-------------------|
| 가             |       | 150T/Hr, 200T/Hr × 2 | 250T/Hr × 4       | 300T/Hr × 3       | 270T/Hr × 3       | 230T/Hr × 3       |
|               | TYPE  | Walking Beam Type    | Walking Beam Type | Walking Beam Type | Walking Beam Type | Walking Beam Type |
|               | TYPE  |                      |                   |                   |                   |                   |
|               | TYPE  | 4 가                  | R1: 2 가           | R1: 2 가           | R1: 2 가           | R1: 2 가           |
|               |       |                      | R2: 4 가           | R1: 4 가           | R2: 4 가           | R2: 4 가           |
|               |       |                      | R3, R4: 4 가       | R3: 4 가           |                   |                   |
|               | TYPE  | 4 가                  | 4 가               | 4 가               | 4 가               | 4 가               |
|               | STAND | 7                    | 7                 | 8                 | 8                 | 7                 |
|               | TYPE  | 2                    | 3                 | 3                 | 2                 | 2                 |
|               |       | 1.2~12.7mm           | 1.2~22mm          | 1.2~22mm          | 1.2~22mm          | 1.2~22mm          |
|               |       | 18MT                 | 35MT              | 35MT              | 35MT              | 35MT              |
| SKINPASS MILL |       | 1.2~6.4mm            | 1.2~6.4mm         | 1.2~6.4mm         | 1.2~6.4mm         | 1.2~6.4mm         |
|               |       | 550~1270mm           | 700~1880mm        | 700~1650mm        | 700~1570mm        | 700~1950mm        |
|               |       | 18MT                 | 35MT              | 35MT              | 35MT              | 35MT              |
|               |       | 762mm                | 610, 762mm        | 610, 762mm        | 610, 762mm        | 610, 762mm        |

### 2.AWC(Automatic Width Control)



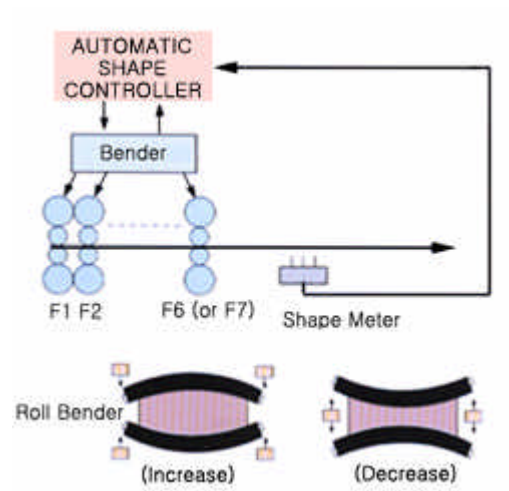
### 3.Pair Cross Mill



#### 4.ASC(Automatic Shape Control)

ASC( )

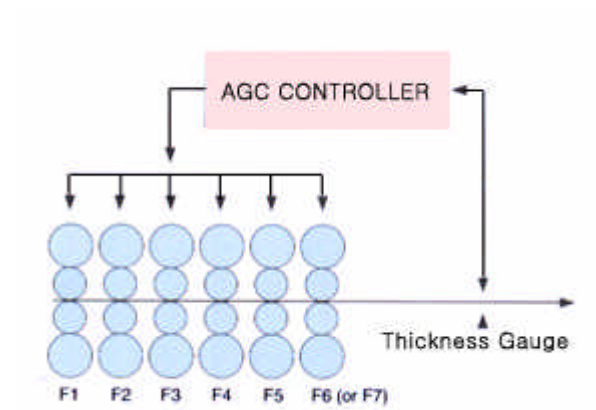
ASC  
Roll Bender



#### 5.AGC(Automatic Gauge Control)

AGC( )  
Monitor

Cylinder



## 용도소개



- ▶ KS: SS330, 400, SM400A, B, C, SM490A, B
- ▶ JIS: SS330, SS400, SS490, SS540 SM400A, B, C, SM490A, B, C, SM490YA, YB, SM520B, C
- ▶ ASTM: A36, A283, A570 -BS BS1449 PART 1 50/35HR, HS, BS4360, 40B, 43A, B, C, 50B, C
- ▶ DIN: DIN17100 ST22, 33, ST52-3, RST37-2



(P, Cu, C ) 가

- ▶ POSCO: PAWS50
- ▶ JIS: SPA-H



Drawing

Frame, Wheel

- ▶ POSCO: ATOS55, 60, 80, Autobeam( Impact Beam )
- ▶ JIS: SAPH310, 370, 400, 440, SPFH490, 540, 590
- ▶ SAE: SAE950B



- ▶ KS: SM10C~SM55C
- ▶ JIS: S10C~S55C, SK-5, SK-3, SUP9, SCM430, SCM435
- ▶ SAE: SAE1010~1055
- ▶ DIN: DIN50CrV4



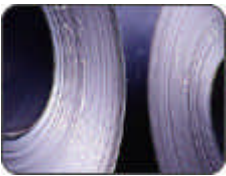
CR, GI, Color

- ▶ KS: SHP1, 2, 3
- ▶ SAE: SAE1006~1055
- ▶ AIS: AISI1006~1055



가

- ▶ POSCO: PACOS1, 2
- ▶ JIS: SPHT 1, 2, 3, 4, STB340, 410, STK290, 400, 490, 500, 540, STKM11A, 16A, 18A



가

- LPG, 가 가 500 l 가
- ▶ JIS: SG255, 295, 325, 365
- ▶ ASTM: A455



- ▶ API: 5CT-H40, J55, K55, N80



Line Pipe

- ▶ API5L: A, B, X42, 46, 52, 56, 60, 65, 70, 80

## 제품규격

## 1. 가

가

|         | (mm)        | (wt%) |      |      |      |       |           |                        |
|---------|-------------|-------|------|------|------|-------|-----------|------------------------|
|         |             | C     | Si   | Mn   | P    | S     | Sol-Al    |                        |
| POSHRD3 | 1.6<br>5.99 | 0.005 | 0.02 | 0.20 | 0.02 | 0.015 | 0.02~0.06 | Ti:0.03~0.06<br>N:0.03 |

: 1. , , , ASTM A568  
2. .

## 2.

|        | (mm)                   | (wt%)                  |           |      |            |       |                         |
|--------|------------------------|------------------------|-----------|------|------------|-------|-------------------------|
|        |                        | C                      | Si        | Mn   | P          | S     |                         |
| PAWS50 | 6.0                    | 0.12                   | 0.15~0.35 | 0.90 | 0.060~0.12 | 0.035 | Ti:0.15<br>Cu:0.25~0.50 |
|        | (kgf/mm <sup>2</sup> ) | (kgf/mm <sup>2</sup> ) |           |      |            |       |                         |
|        |                        |                        |           | (%)  |            |       |                         |
| PAWS50 | 40                     | 50                     | 5         | 22   | 0.5t( )    |       |                         |
|        |                        |                        |           |      | 1.5t(가 )   |       |                         |

: 1. , , , KS D 3500  
2. : , 1 , 50  
2 .

## 3.

|        |                        | (mm)           | (wt%)          |                |                 |       |       |                          |
|--------|------------------------|----------------|----------------|----------------|-----------------|-------|-------|--------------------------|
|        |                        |                | C              | Si             | Mn              | P     | S     |                          |
| PACOS1 |                        | 2.5~4.5        | 0.10           | 0.35           | 0.25~0.50       | 0.023 | 0.005 | Cu:0.10~0.30<br>Ca:0.001 |
| PACOS2 |                        | 1.2~9.0        | 0.18           |                | 0.25~0.60       |       |       |                          |
|        | (kgf/mm <sup>2</sup> ) | (%)            |                |                |                 |       |       |                          |
|        |                        | 1.2mm<br>1.6mm | 1.6mm<br>3.0mm | 3.0mm<br>6.0mm | 6.0mm<br>13.0mm |       | 3.0mm | 3.0mm                    |
| PACOS1 | 30                     | 30             | 32             | 35             | 37              | 5     |       | 0.5t                     |
| PACOS2 | 35                     | 27             | 27             | 30             | 32              |       | 1.0t  | 1.5t                     |

: 1. , , , KS D 3555( )  
2. : .  
3. KS

4.

|        | (mm)                   | (wt%)                  |              |              |                |       |       |   |
|--------|------------------------|------------------------|--------------|--------------|----------------|-------|-------|---|
|        |                        | C                      | Si           | Mn           | P              | S     | Nb    |   |
| ATOS55 | 4.5~12.7               | 0.20                   | 0.40         | 1.50         | 0.030          | 0.030 | 0.050 |   |
| ATOS60 | 3.2~12.7               |                        |              |              |                |       |       |   |
|        |                        |                        |              |              |                |       |       |   |
|        | (kgf/mm <sup>2</sup> ) | (kgf/mm <sup>2</sup> ) | ( ,%)        |              |                |       |       |   |
|        |                        |                        | 5<br>2.5~5.0 | 5<br>5.0~6.3 | 1A<br>6.3~12.7 |       |       |   |
| ATOS55 | 55                     | 35                     | 20           | 21           | 14             | 180 ° | 1.5t  | 3 |
| ATOS60 | 60                     | 40                     | 19           | 20           | 13             |       |       |   |

: 1. , , , KS D 3519 .

2. : .

3. KS .

5. **Impact Beam**

|          | (mm)    | (wt%)                  |      |       |        |              |       |        |
|----------|---------|------------------------|------|-------|--------|--------------|-------|--------|
|          |         | C                      | Mn   | S     | Sol-Al | Cr           | Ti    | B      |
| AUTOBEAM | 1.6~5.0 | 0.30                   | 1.50 | 0.005 | 0.12   | 0.10<br>0.30 | 0.050 | 0.0050 |
|          |         | (kgf/mm <sup>2</sup> ) |      |       |        |              |       |        |
|          |         |                        |      |       |        |              |       |        |
| AUTOBEAM |         | 50                     | 80   | 180 ° |        | 1.5t         |       |        |

: 1. , , , KS D 3500 .

2. : , 1 , 50

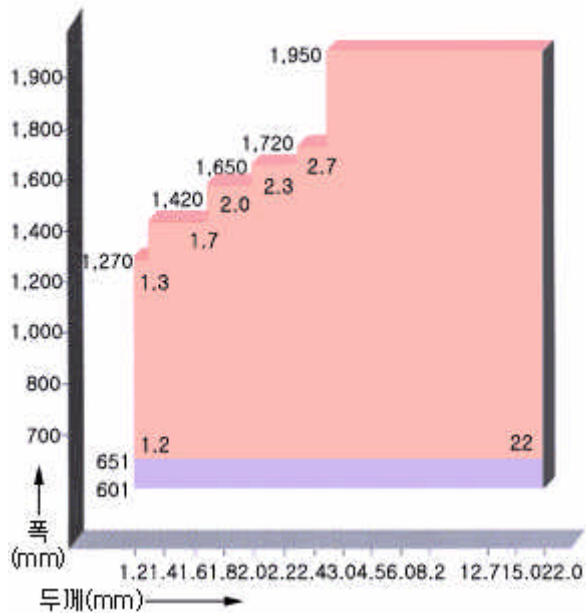
2 .

## 제조가능사이즈

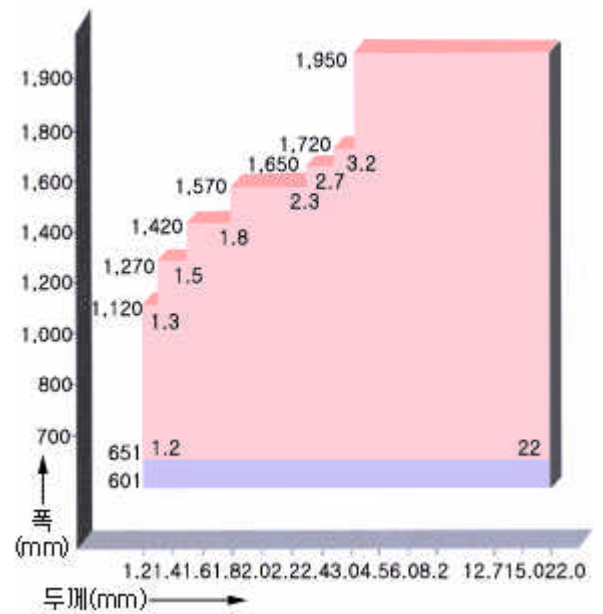
본 제조가능 사이즈는 변경될 수 있으므로 주문시 반드시 **제조가능 사이즈 조회**로 확인하시거나 담당자와 협의바랍니다.

### 1. (HR)

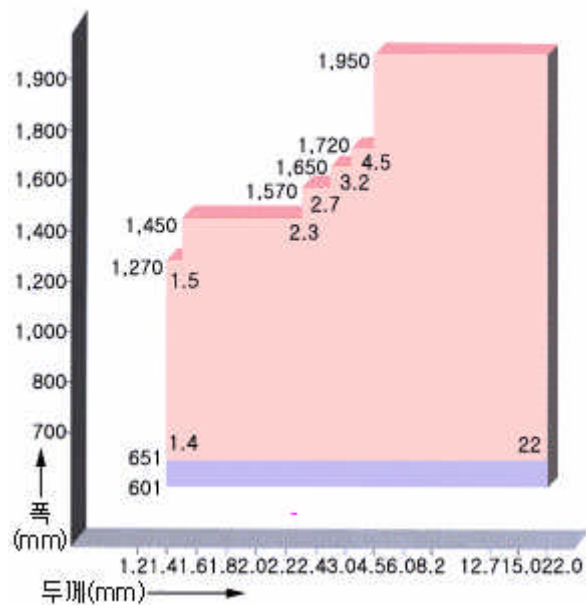
■TS 30kg



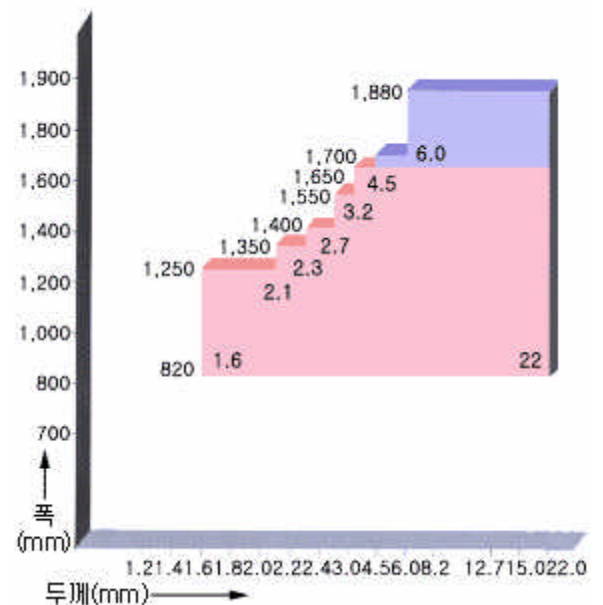
■TS 40kg



■TS 50kg



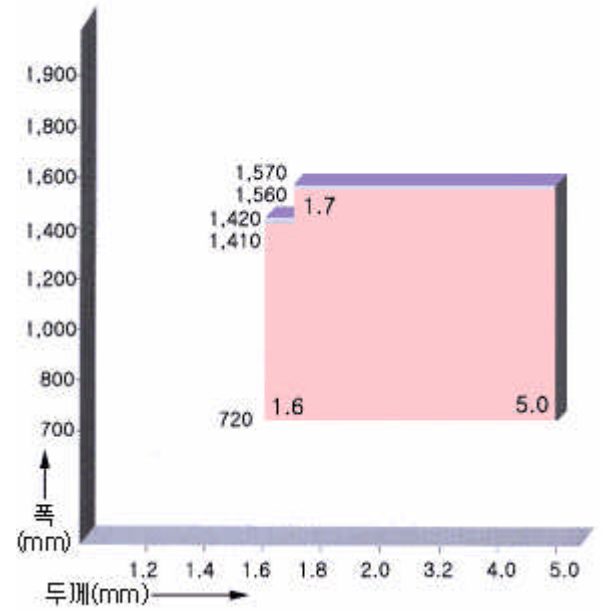
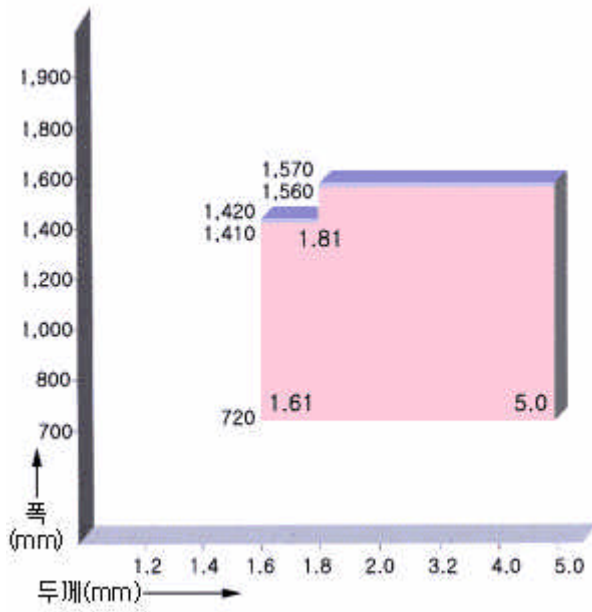
■TS 60kg



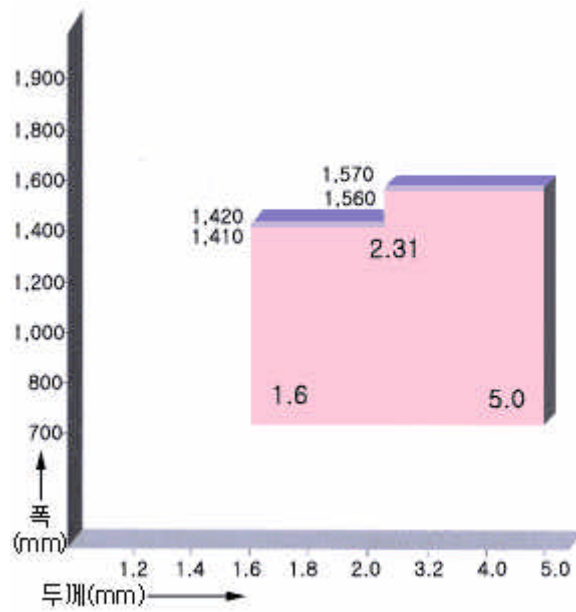
### 2. (P/O)

■TS 30kg

■TS 40kg



TS 50kg



## 제품포장 및 마킹

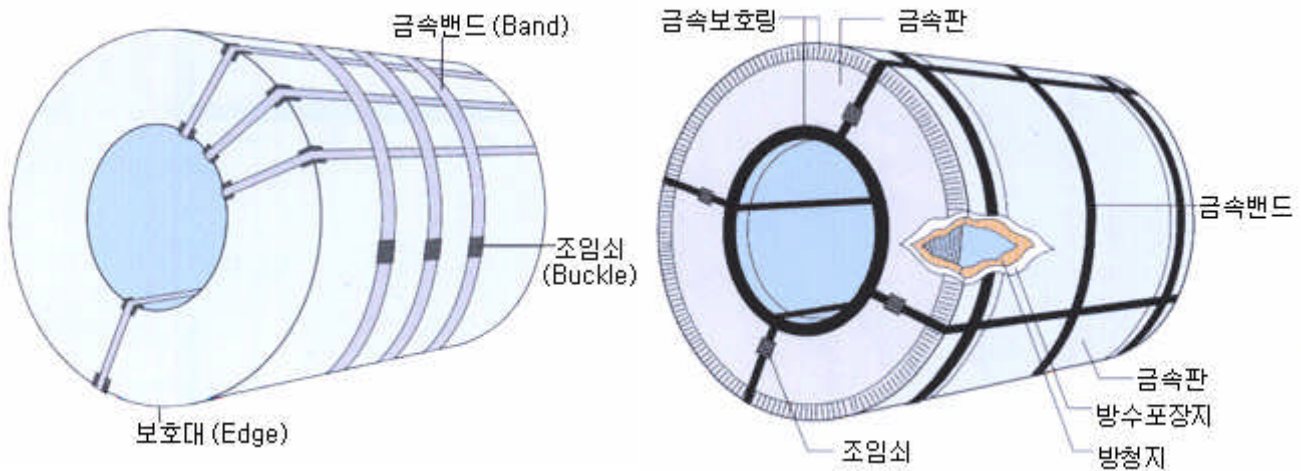
1.

HR Coil( )

, 가

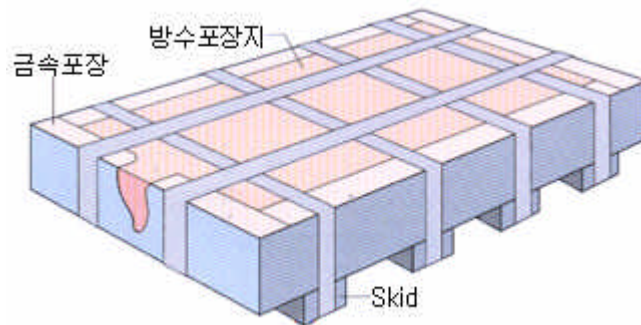
P/O Coil( )

, 가



HR Sheet (Skin- )

, Skid- , Skid- , Skid- 가



2.

● Coil

마킹표

제품표

● Sheet

제품표

마킹표

● 마킹표는 수요가 요구시 발행부착

● 제품표

|                       |                     |                       |
|-----------------------|---------------------|-----------------------|
| <b>PO STEEL SHEET</b> |                     | <b>PO</b>             |
| CUSTOMER              | DONG MYUNG KANG PAN |                       |
| SPEC.                 | SAE1006             | OILING AG             |
| SIZE                  | 3.00X1219XC         | ENG. 355              |
| NET WT.               | 10180               | IBS GR. WT. 10209     |
| PROD. NO.             | PY2105C             |                       |
| CONT. NO.             | SXX4DH5AA 0100      | GRADE 1 DATE 93.11.23 |

POSCO 포항종합제철주식회사 광양제철소

● 마킹표

|                  |
|------------------|
| S. S. P.         |
| BANGKOK          |
| JIS G3132 SPHT-1 |
| 1. 2X1199XC      |
| MY101650         |
| NET WT. 12150 KG |
| MADE IN KOREA    |
| POSCO            |