# 6,7 Kiln Line

, , , \* < >

1.

가 50% 가 1998

가

6,7 Kiln line 가 ,

6 7 Kiln line '90, 93 Polysius ,

1 7,600 ton - clinker .

6,7 Kiln P/H Air 175Hp Compressor Head

Air by - pass line Compressor shut down

Raw Mill E.P 1 Precollector Rapping System chain

air cylinder type cam tip chain

Cooler pusher coating manhole

가 , coating

#### 2.

	Туре	Specifications	Motor power (Kw)	
Raw Mill	V.R.M	6,100mm × 2,900mm 4,250		560T/Hr
Preheater	A.S.(C/C)	6 - Stage x 2 - String	1,700 × 2(IDF)	
Kiln	Rotary	5.6m × 87m_L 720 × 2		7,600T/D
Cooler	Grate	3 Stage, 4.86m_W × 40.2m_L	450 × 2(IDF)	
Coal Mill	V.R.M	2,700mm × 1,350mm	580	43T/Hr

3.

# 3.1. P/H Air Line

(1)

# 가. Compressor

		Motor	(Kg/cm²)	Air (m³/min)		
	J175DS	175HP	14	16.0	Air cannon Cyclone aeration	1
	J175DS	175HP	14	16.0		1
#6K P/H	SC - 50	50HP	7	7.63	Precal simplex	1
.,	SC - 30	30HP	7	4.58	B/F dosing	1
	NH - 10	10HP	7	1.27	Silo	2
	J175DS	175HP	14	16.0	Air cannon Cyclone aeration	1
#7K	J175DS	175HP	14	16.0		1
P/H	J150DN	150HP	7	19.1	Precal simplex	1
	J75DN	75HP	7	9.8	B/F dosing	1

6 Kiln P/H

Compressor		(m³/min)	(m³/min)
175Un	Air Cannon: 0.06m³/min×40	2.4	
175Hp	Cyclone Aeration: 0.5m³/min×12	6	
50Hp	Precal Simplex B/F	5	18.6
20Un	Poldos B/F 2 Dosing B/F	2.2	10.0
30Hp	Actuator, Air Cylinder	2	
10Hp	Silo	1	

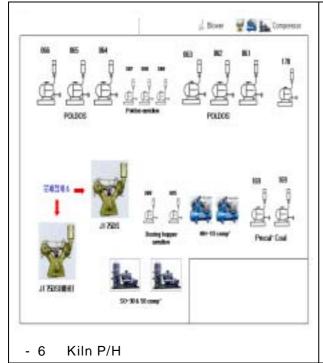
### 7 Kiln P/H

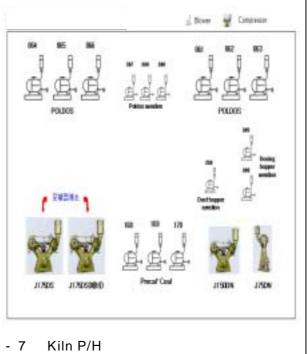
Comprssor		(m³/min)	(m³/min)
175Hp	Air Cannon: 0.06m³/min×40	2.4	
173116	Cyclone Aeration: 0.5m³/min×12	6	
150Hp	Precal Simplex B/F	5	17.6
75Hp	Poldos B/F 2 Dosing B/F	2.2	
73пр	Actuator, Air Cylinder	2	

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* 175Hp compressor : 14Kg/cm²  1) : air cannon chute aeration  2) : 7Kg/cm²	* 175Hp Head
* 175Hp compressor trouble - 2	* air 7Kg/cm²
* Compressor Line - compressor 1 1 comp' air	* receiver tank by - pass

### 6,7Kiln P/H Compressor room lay - out





175Hp compressor overha	aul (1998 )	
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Line		Overhaul
#7K	1998. 04. 14 04. 24	Compressor /
#7K	1998. 05. 07	Head
#6K	1998. 09. 25 11. 01	Compressor /
#6K	1999. 09. 17 09. 21	Compressor /
#6K	1999. 11. 12	Head
#6K	2000. 05. 04	Head
#6K	2000. 10. 20 10. 30	Compressor /
* Valve Air cooler		

(2)

* 175Hp compressor	Head
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➤ Head: 14½"

► Head: 5 7Kg/cm<sup>2</sup> 7" 9½"

compressor manual

\* Head

> Oil pump pressure setting : 3Kg/cm²

Discharge air pressure setting: 7Kg/cm²

> Loading & unloading setting: 5Kg/cm²

> 7Kg/cm² unloading 5Kg/cm² loading

Model	J 175 DS	J 175 DN
Motor	132Kw	132Kw
	14Kg/cm²	7Kg/cm²
	16m³/min	24m³/min
Cylinder Size	14½" * 7"	14½" * 9¼"

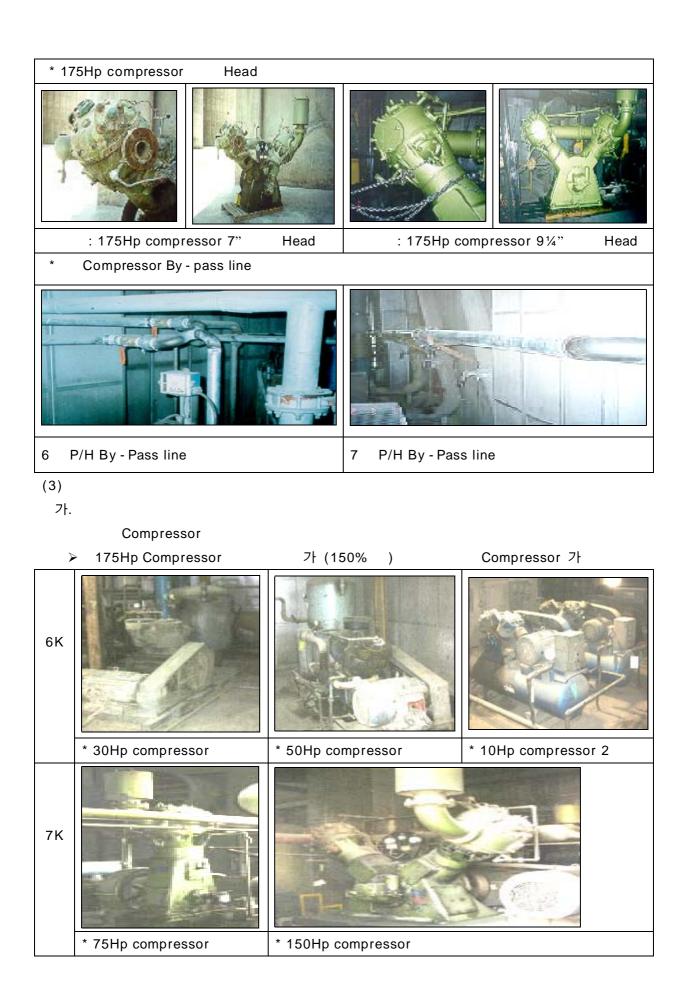
- 6 Kiln P/H line

50Hp & 30Hp comp' line 175Hp comp' receiver tank 50A Pipe

- 7 Kiln P/h line

150Hp & 75Hp comp' line 175Hp comp' line 150A Pipe

<sup>\*</sup> By - pass air line



► line Kiln : air min kiln shut - down

 $\triangleright$ 

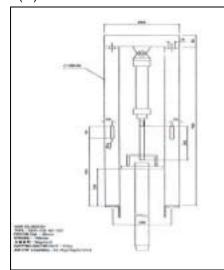
# 3.2. Raw Mill E.P Rapping System

(1)

가. Mill E.P (Lodge Cottrell type)

가. Mill E.P (Lodge Cottrell	type)	
	1	950,000 m³/H
Precollector Rapping Geared Motor	1	0.15Kw * 2.17RPM
Collector Rapping Gear (rph)	4	12rph,6rph,3rph,1rph
I.D.Fan	1	1,050,000 m³/H * 850mmAq
Motor	1	3,500Kw * 1180RPM
'A'	20 'A'	

868 - 4 - 755	Trou	ıble	- Rapping
9.1	* Chain	Rapping	
1 11 2 2 1	error		- Cam
8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	* Cam tip	rapping bar	100mm stroke
9 7 8000	Rapping		
	* Cam tip	rapping bar	
	Guide		
William			
proce +			



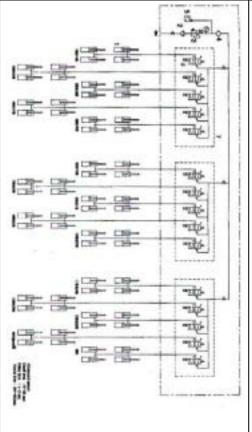
#### Rapping

- Chain & Cam Air cylinder

type

- Stroke : 100mm

stroke 150mm stroke



Air Unit

- Air cylinder : 52ea (5Kg/cm², 150mm stroke)

Air filter : 1eaAir regulator : 1eaAir lubricator : 1eaPressure switch : 1ea

Solenoid valve : 15eaMainfold Block : 3eaControl box : 1set

- valve : 52ea



(3)

: Air cylinder stroke

> : Cam tip chain

▶ Rapping control 가 : Cylinder air time 가

Dust .

3.3 Cooler Coating (Pusher)

(1)

가. Cooler

Cooler	195.3m² 4,864mm_W × 40,170mm_L, 13	1
I.D.F	12,500㎡/min * 150mmAq, 450Kw, 12p	2
Hydraulic Drive	Pump (Cylinder)	3 (6)
Clinker crusher	1,450 × 4,914mm	1

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1	Static grate type			
* 6K : 1990. 가 * 7K : 1993. 가	(Grate Plate Type) (Grate Plate Type)	*  * Grate Plate  Cooler	(Clinker	)

# . Static cooler

* Cooler	coating		
* Coating		* Cooler	coating
coating		push	ner .
*			

# (2) Pusher

가.

item	
Pusher Dimension ,	250 4000mm 150 14 <sub>o</sub>
Hydraulic cylinder	* :50ton Piston :180mm  * :20ton Rod :150mm  * F = P × A = 50.9ton (200Kg/cm² × (18cm) ² × /4)

\* : 200Kg/cm²

: 30

\* Pump

Q = 200 /min

Type = Vane pump



\* valve

\* Stroke :Proximity

Switch

Hydraulic Unit \* : Relief valve

\* : Throttle valve



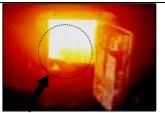
### . Pusher

Pump

	6 line	7 line	
	2000.07.10 18	2000. 08. 01 10	
	2000. 07. 20	2000. 08 .12	
	13	13	
	100Kg/cm²	100Kg/cm²	
Cylinder stroke	1,600mm	1,600mm	

(3)

- Kiln





- Coating



4. 6,7 Kiln line 1) P/H Air line , 2) R/M E.P rapping system

, 3) Static

cooler coating (Pusher)