

梅州市塔牌集团蕉岭鑫达旋窑水泥有限公司

二〇一六年六月

1	$\models$		1
2	$\uparrow$		2
	2.1		2
	2.2		2
3	$\% \text{ } \mathfrak{L}$	$\neq$	

5.4		40
6	7 ₈	41
7	о з ð H ð 42	42
7.1	Q 42	42
7.2	M 42	42
7.3	E 46	46
7.4	 48	48
8	 49	49
8.1	 50	50
8.2	 51	51
8.3	 53	53
8.4	 54	54
8.5	 56	56



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L λ ↕

η λ ↕

λ ↕

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	12				45
	13			[2010]	113
	14	“	”	[2013]	20
	15			2015	3 19 2015
6	1				
	16				
	% à				
	1			GB 18218-2009	
	2			GB50016-2014	
	3				

‰ ℓ ≠

○ 3 H

○ 3 :

2013

200

300t/h

28438

2331

6000

250

150

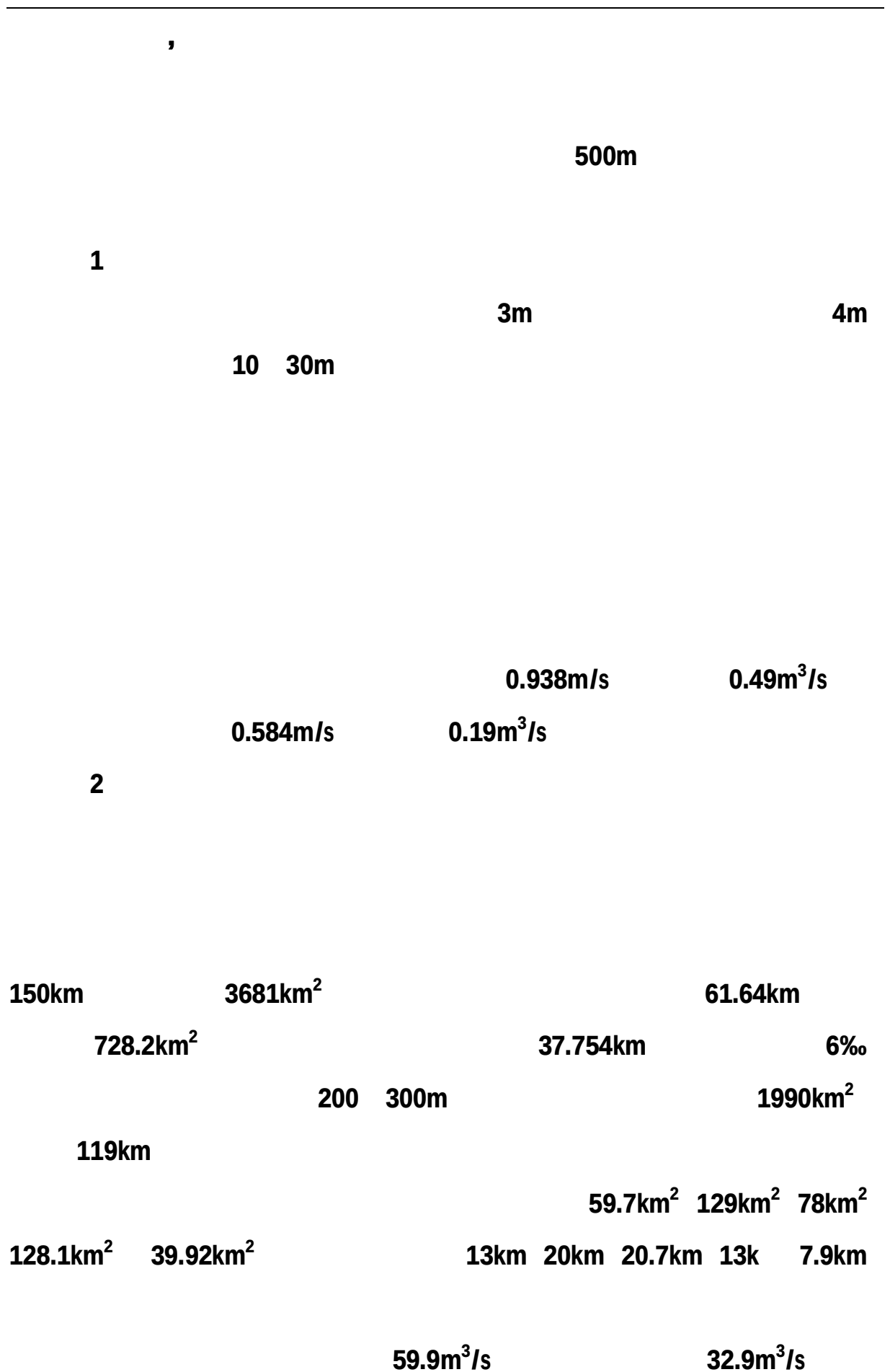
5000t/d

5000t/d

41450

E^x ,

	<u>116°11 28"</u>		<u>24°45 17"</u>
	0753-7522316		0753-7522315



3.006m³/s 1963 6 7 2650m³/s
 1964 6 15 3-2
 3-2 ǎ ħ ,

		km ²	m ³ /s	m	km	‰
		745.5	58.16	71.3	61.64	1.2

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(GB3838-2002) II

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500m

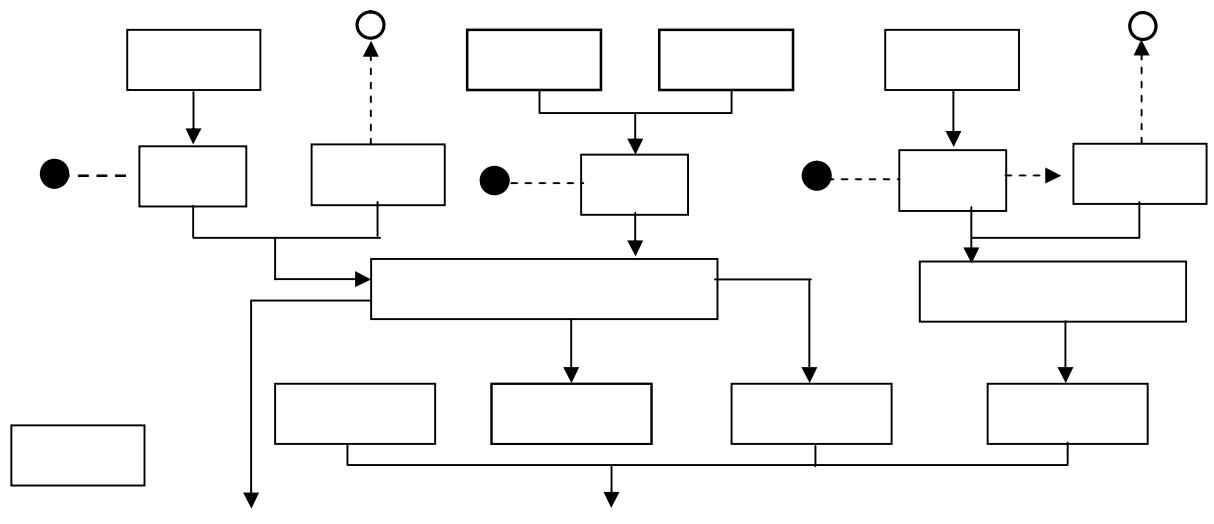
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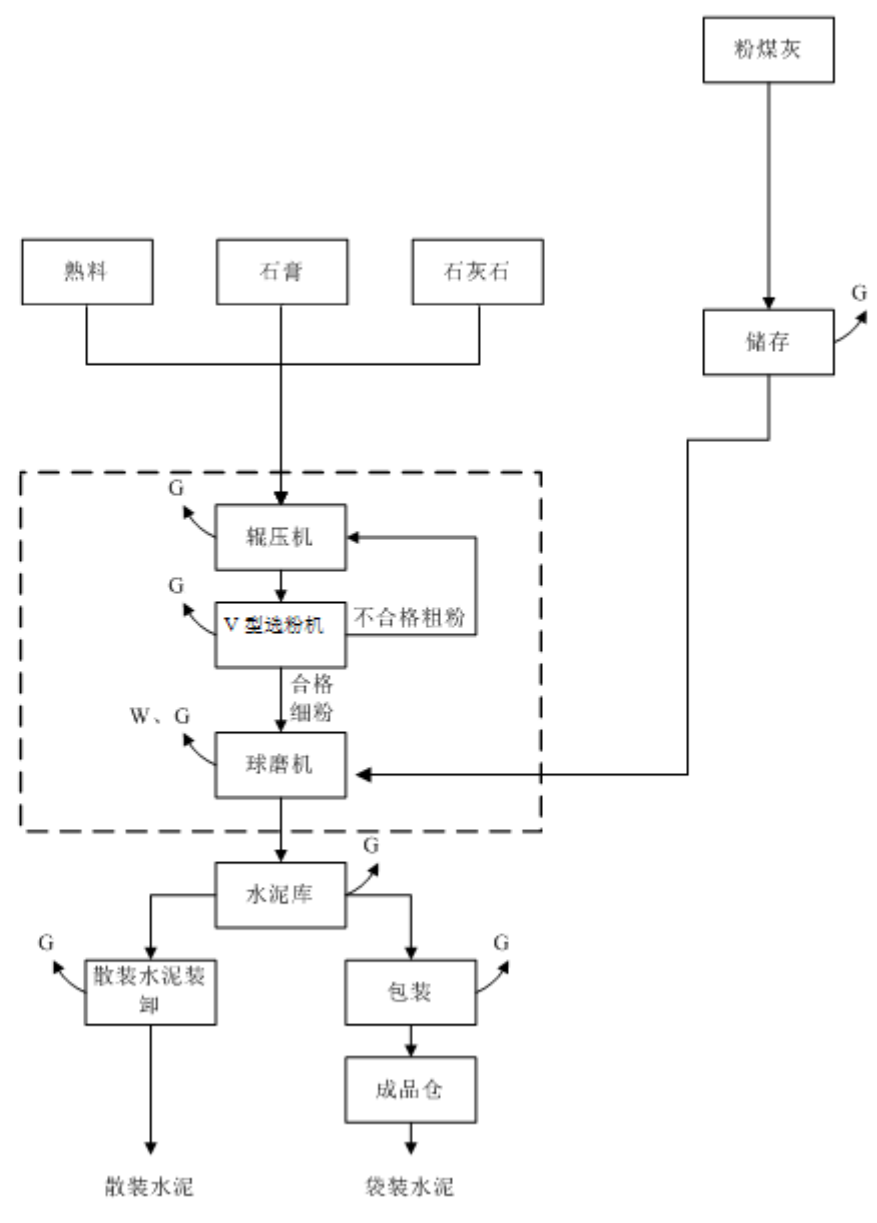
1 à

200 /



图例
 → 物料流向
 - - - 气体流向
 ● 噪声
 ○ 粉尘排放源

注：W表示废水；
 G表示有组织粉尘；
 虚线框表示水泥粉磨过程



2	3	4	5	6	7
1					
2					
200t/h					
3	800t/h				
4					
5					
6			400t/d		
7					TSD
	AQC				
					320-370

	AQC	TSD
7	320-370	
6	400t/d	
5		
4		
3	800t/h	400t/h
2	$\leq 300\text{mm}$	$\leq 30\text{mm}$
1	200t/h	
2 $\times$		

2	3	4	5	6	7
1					
2					
200t/h					
3	800t/h				
4					
5					
6			400t/d		
7					TSD
	AQC				
			320-370		

	AQC	TSD	
7			
6		400t/d	
5			
4			
3	800t/h		400t/h
2			
1			
2 ~ 3			
	≤ 300mm	≤ 30mm	
	200t/h		

2	3	4	5	6	7
1					
2					
200t/h					
3	800t/h				
4					
5					
6			400t/d		
7					TSD
	AQC				
					320-370

2	3	4	5	6	7
1					
2					
200t/h					
3	800t/h				
4					
5					
6			400t/d		
7					TSD
	AQC				
			320-370		

2	3	4	5	6	7
1					
2					
200t/h					
3	800t/h				
4					
5					
6			400t/d		
7					TSD
	AQC				
					320-370

2	3	4	5	6	7
1					
2					
200t/h					
3	800t/h				
4					
5					
6			400t/d		
7					TSD
	AQC				
			320-370		

2	3	4	5	6	7
1					
2					
200t/h					
3	800t/h				
4					
5					
6			400t/d		
7					TSD
	AQC				
					320-370

[illegible]

2	3	4	5	6	7
1					
2					
200t/h					
3	800t/h				
4					
5					
6			400t/d		
7					TSD
	AQC				
					320-370

[illegible]

2	3	4	5	6	7
1					
2					
200t/h					
3	800t/h				
4					
5					
6			400t/d		
7					TSD
	AQC				
					320-370

2	3	4	5	6	7
1					
2					
200t/h					
3	800t/h				
4					
5					
6			400t/d		
7					TSD
	AQC				
					320-370

2	3	4	5	6	7
1					
2					
200t/h					
3	800t/h				
4					
5					
6			400t/d		
7					TSD
	AQC				
					320-370

[illegible]

	AQC	TSD
7		
6		400t/d
5		
4		
3	800t/h	400t/h
2		
1		
2 ~ 3	≤ 300mm	≤ 30mm
200t/h		

90	SP	335-345
210		
8		
	Φ60m	
Φ18m×45m		13277
9		
	≤1000mm	≤25mm
		400t/h
	Φ8m×28m	
10		
	30	Φ8m×28m
		1 HMC-64
	26880m ³ /h	≥99.9
1 PPW64-7		10000 m ³ /h
	99.9	
11		
	V	
	Φ4.2×13m	

300t/h

2
100000 m³/h ≥99.9

12
2 Φ30×45m 2 Φ18×48m 8 Φ10×28m
109635

4
4×216=464 / 8 11%
18 7200 13000m³/h

≥99.9
13
6 180t/h

100t/h

6 PPW64-7

≥99.9%

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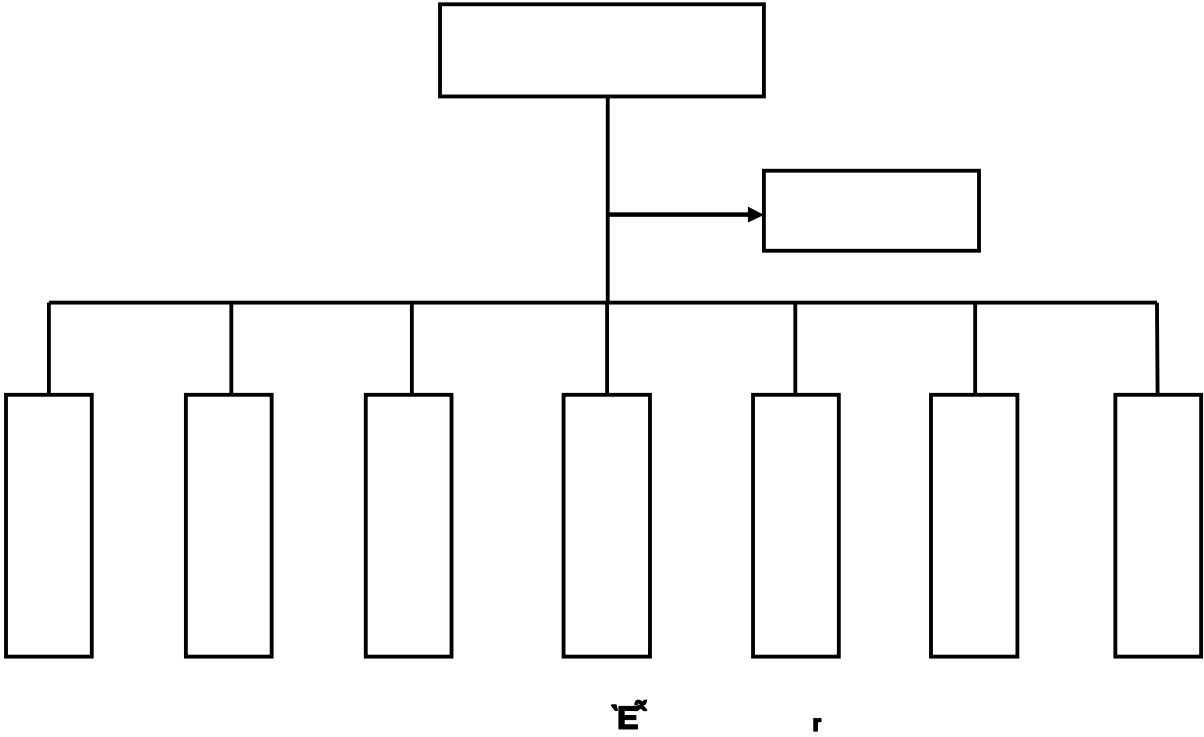
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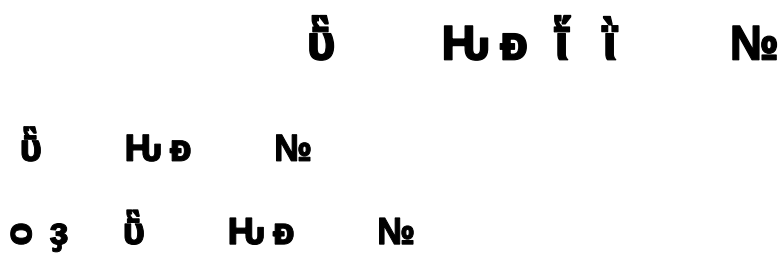
3-3



Б

Б W

			β	γ
		2		
		140		
		8		
		3		
		8		
		28		
		2		
		8		
		28		
		20		



1

SO₂ NO₂

NH₃

U H₂O Ne

Hu **No**

3306.24t/d

11.16t/d

3124.8t/a

“

+ + ”

294 m³

Hu No

SO₂ NO₂

$$\text{NH}_3$$

760154m³/h

80t/a

SO₂

NO₂

NH₃

H₂

N₂

20

7kg

0.14t

3t

294m³

√

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H₂

N₂

20

7kg

0.14t

3t

83

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' N₂

3.6 3.7

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1 à Ħ N₂

1

28

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+		

4-2 ,

	m³/h	^ Nm³/h	^ kg/h			
			SO ₂		NO _x	
		344185	0.85	1.14	1.68	H113m/Ø4.2m

4-3

^ m						
	SO ₂				NO _x	
	^ mg/m ³	√ ^ %	^ mg/m ³	√ ^ %	^ mg/m ³	√ ^ %
100	6.19E-15	0	1.22E-14	0	8.31E-15	0
200	1.06E-05	0	2.10E-05	0.01	1.42E-05	0
300	0.000428	0.09	0.000846	0.35	0.000574	0.19
400	0.001537	0.31	0.003037	1.27	0.002061	0.69
500	0.002271	0.45	0.004488	1.87	0.003045	1.02
522	0.002299	0.46	0.004544	1.89	0.003083	1.03
600	0.002093	0.42	0.004137	1.72	0.002807	0.94
700	0.001707	0.34	0.003374	1.41	0.002289	0.76
800	0.00164	0.33	0.003241	1.35	0.002199	0.73
900	0.001728	0.35	0.003415	1.42	0.002317	0.77
1000	0.001715	0.34	0.003389	1.41	0.0023	0.77
1100	0.001644	0.33	0.003249	1.35	0.002205	0.74
1200	0.001545	0.31	0.003054	1.27	0.002073	0.69
1300	0.001438	0.29	0.002843	1.18	0.001929	0.64
1400	0.001382	0.28	0.002732	1.14	0.001854	0.62
1500	0.001419	0.28	0.002805	1.17	0.001903	0.63
1600	0.001432	0.29	0.002829	1.18	0.00192	0.64
1700	0.001425	0.29	0.002817	1.17	0.001912	0.64
1800	0.001405	0.28	0.002778	1.16	0.001885	0.63
1900	0.001376	0.28	0.002719	1.13	0.001845	0.62

^ m̃						
	SO ₂				NO _x	
	^ mg/m ³	√ ^ %	^ mg/m ³	√ ^ %	^ mg/m ³	√ ^ %
2000	0.001339	0.27	0.002647	1.1	0.001796	0.6

2	3	4	5	
				20%
100 m ³		50		
	16m×13m×0.5m	104m ³		294m ³
	10min			
			HJ/T169-2004	
QL				
	$Q_L = C_d A \rho \sqrt{\frac{2(P - P_0)}{\rho} + 2gh}$			
Q _L ——		kg/s		
C _d ——		0.6~0.64	0.62	
A——	m ²			
ρ——		920kg/m ³		
P——		Pa		
P ₀ ——	Pa	101325Pa		
g——		9.8m/s ²		
h——		5.1m		
	100%		0.032m	
			18.3kg/s	10min
10.98t				

$$C(x,y,z) = \frac{Q}{(2\pi)^{3/2} \sigma_x \sigma_y \sigma_z} \exp\left[-\frac{(x-x_0)^2}{2\sigma_x^2}\right] \exp\left[-\frac{(y-y_0)^2}{2\sigma_y^2}\right] \exp\left[-\frac{z^2}{2\sigma_z^2}\right]$$

C x y o — x, y mg.m⁻³

x₀, y₀, z₀ —

Q—

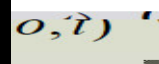
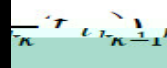
σ_x σ_y σ_z — X Y Z m σ_x=σ_y

$$C_w(x,y,z) = \frac{Q_w}{(2\pi)^{3/2} \sigma_{x,eff} \sigma_{y,eff} \sigma_{z,eff}} \exp\left[-\frac{(x-x_w)^2}{2\sigma_{x,eff}^2}\right] \exp\left[-\frac{(y-y_w)^2}{2\sigma_{y,eff}^2}\right] \exp\left[-\frac{z^2}{2\sigma_{z,eff}^2}\right]$$

C_w(x,y,z) — i t_w w (x,y,0)

Q'— mg Q'=QΔt; mg.s-1 t s

σ_{x,eff} σ_{y,eff} σ_{z,eff} — w



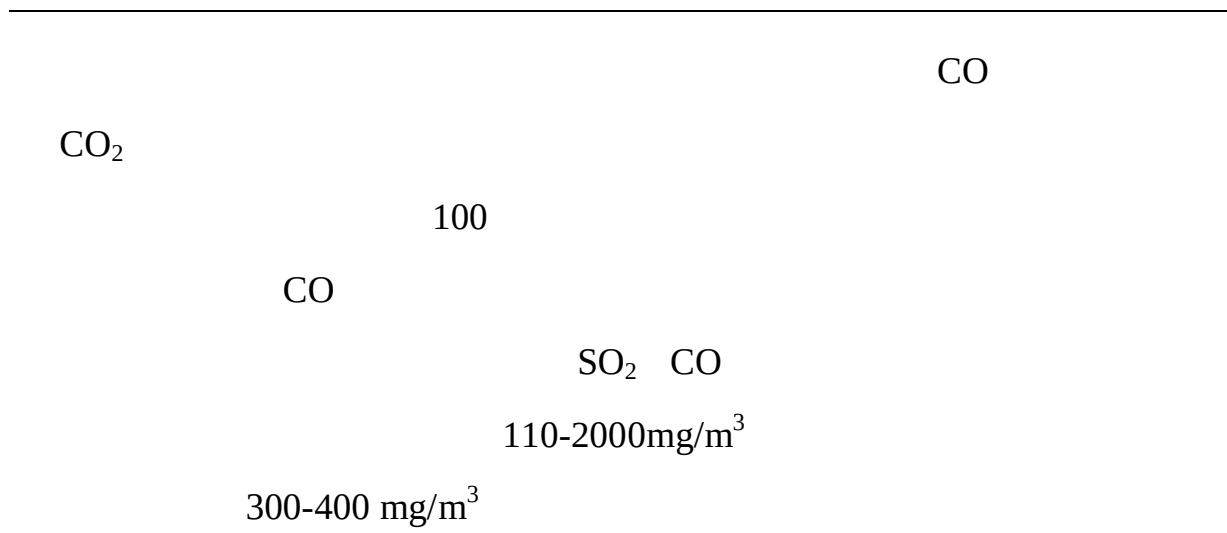
4-6

$\bar{w}$

$\bar{C}$	1.1m/š $\bar{C}$ 25min	1.1m/š $\bar{C}$ 30min
4	0.0001	0.0001
6	0.0002	0.0001
1	0.0003	0.0001
6	0.0004	0.0002

№	^ m	1.1m/š Ć 5min	1.1m/š Ć 10min	1.1m/š Ć 15min	1.1m/š Ć 20min	1.1m/š Ć 25min	1.1m/š Ć 30min
	1900	0	0	0	0.0001	0.0003	0.0004
	2000	0	0	0	0.0001	0.0002	0.0003
	2100	0	0	0	0	0.0002	0.0003
	2200	0	0	0	0	0.0001	0.0002
	2300	0	0	0	0	0.0001	0.0002
	2400	0	0	0	0	0.0001	0.0001
	2500	0	0	0	0	0	0.0001
	2600	0	0	0	0	0	0.0001
	2700	0	0	0	0	0	0.0001
	2800	0	0	0	0	0	0.0001
	2900	0	0	0	0	0	0
	3000	0	0	0	0	0	0
	3500	0	0	0	0	0	0
	4000	0	0	0	0	0	0
	4500	0	0	0	0	0	0
	5000	0	0	0	0	0	0
	Cmax mg/m ³	27.06512	27.06656	0.0138	0.0031	0.0012	0.0006
	L ₁ m	1	1	349	672.93	985	1273

4-6



4-8

	m³	Nm³/h	kg/h	
		22124	1.02	H30m/Ø0.6m

HJ2.2-2008 A

4-9

4-9

m		
	mg/m³	∇ %
100	0.0147	0.05
200	0.03128	0.10
300	0.03244	0.11
342	0.03346	0.11
400	0.03223	0.09
500	0.02757	0.09
600	0.02654	0.09
700	0.02627	0.09
800	0.02486	0.08
900	0.02302	0.08
1000	0.02110	0.07
1100	0.01928	0.06
1200	0.01766	0.06

$\hat{m}$

10min

HJ/T169-2004

QL

$$Q_L = C_d A \rho \sqrt{\frac{2(P - P_0)}{\rho} + 2gh}$$

QL	kg/s
Cd	0.6~0.64 0.62,
A	m ²
ρ	810kg/m ³
P	Pa
Po	Pa 101325Pa
g	9.8m/s ²
h	5.1m

100% 0.02m

1.39kg/s 10min

0.834t

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4-10

4-10 ã ð Һ ð ı ı

№		ð Һ ð	Һ ı
1			
2			
3			

4-10

6 ã Һ ı №

3306.24t/d

11.16t/d 3124.8t/a

“

+ + ”

N₂

L

1

2

1

2

294m³

Z

1

2

3

4

1

0

5

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+

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0

7

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8

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✓

o 3 °

b

L

o 3 °		b	L	b τ
b τ		N₂	N₂ γ	
		20	10	
		2	0	
		2	0	
		2	0	
		2	0	
		8	0	
		8	0	
		8	0	
		8	0	
		8	0	
		8	0	
		4	0	
		10	0	
		10	0	

10+0+0+0+0+0=10

M<25

о з "	б	Л
M		
M<25		M1
25≤M<45		M2
45≤M<60		M3
M≥60		M4

7-2

M=10

M<25

7-3

	No.	r	' _s N _e
E1 1	• 10	• 24	• 500
E2 2	• 10	• 5	• 500
E3 3	• 10	• 5	• 500

10

5

1

5

7-4

$\frac{1}{2} \delta$
 $\frac{1}{2} \delta$
 $\frac{1}{2} \delta$
 $\frac{1}{2} \delta$

δ

3

Q

M

$\frac{1}{2} \delta$
 $\frac{1}{2} \delta$
 $\frac{1}{2} \delta$
 $\frac{1}{2} \delta$

Q	M			
	M1	M2	M3	M4
$1 \leq Q < 10$	$\frac{1}{2} \delta$			
$10 \leq Q < 100$				
$100 \leq Q$				

8.1

8.2

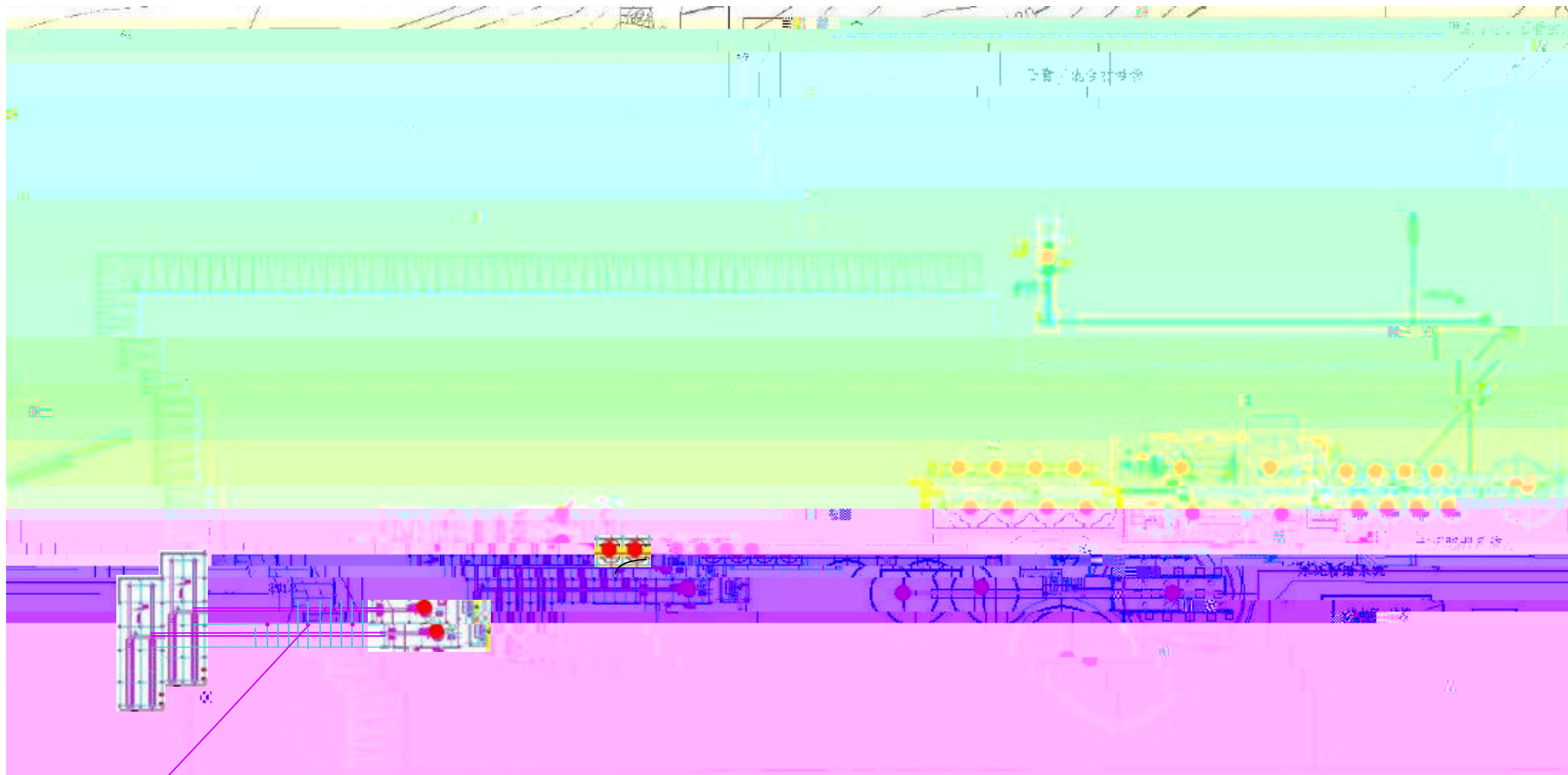
8.3

8.4

8.5

β

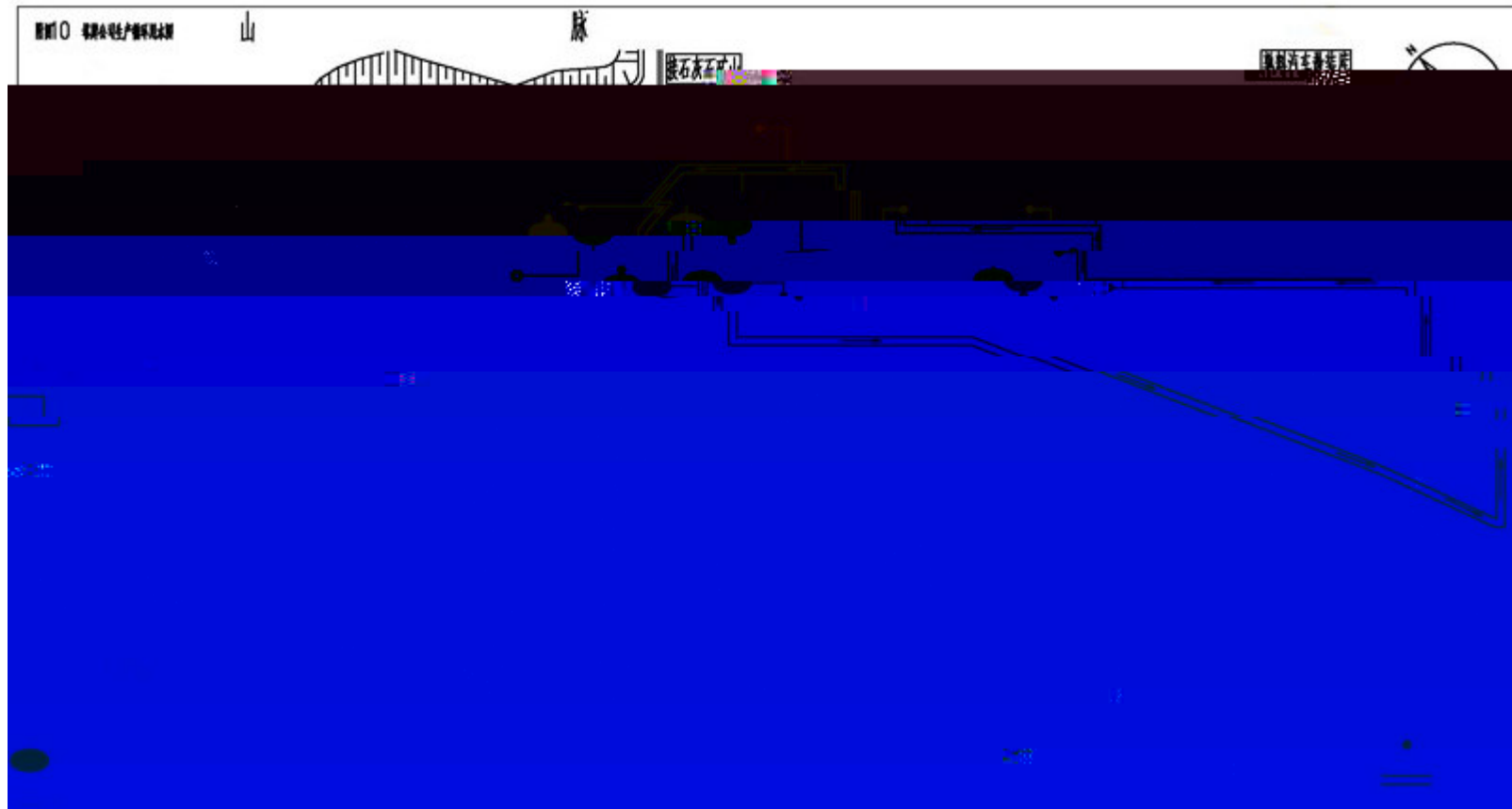


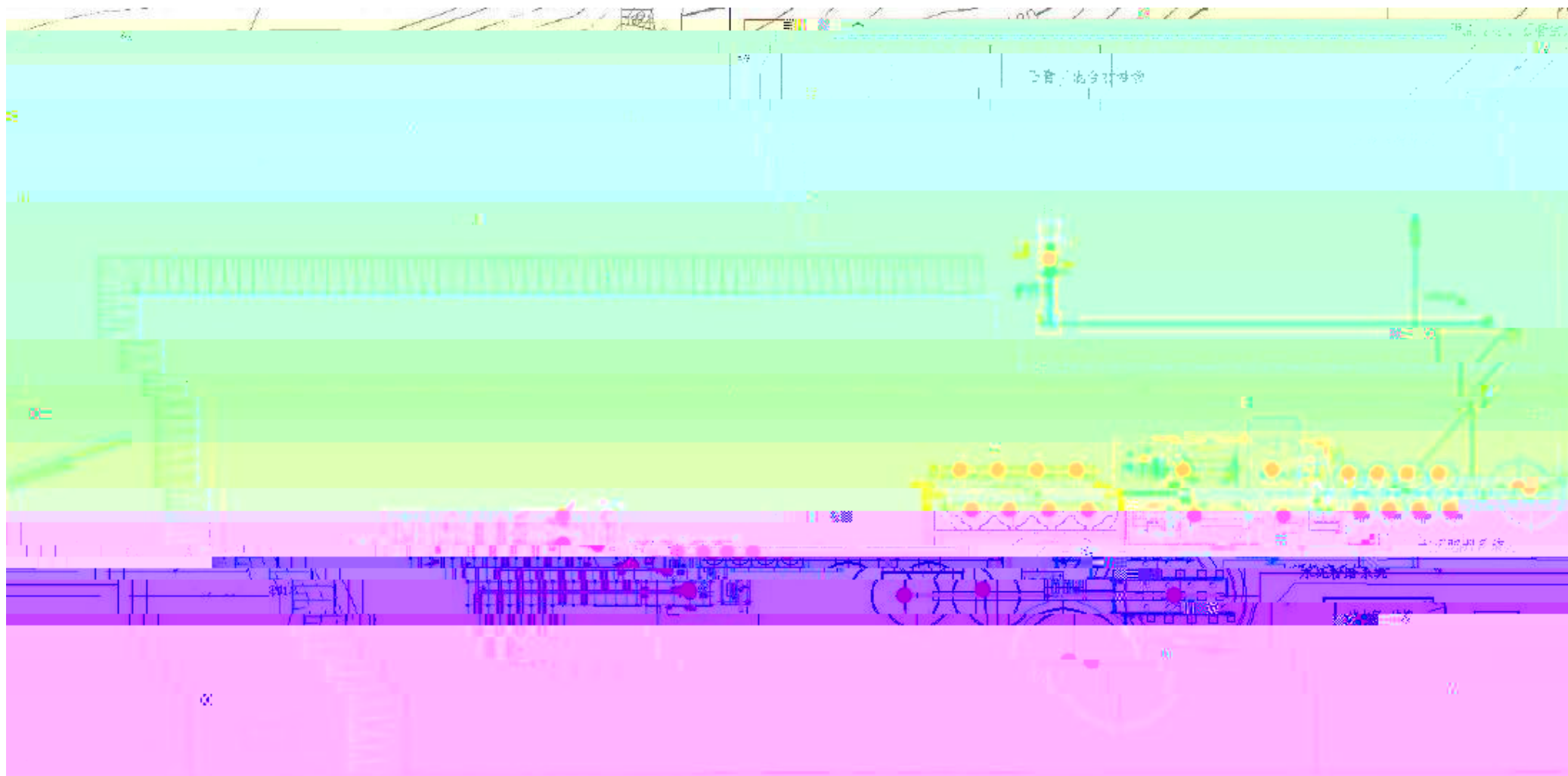


№



No





No



