

1. .....1

2. .... خ

# 1.

## 1.1

“ ” “ ” “ ” “ ” “ ”

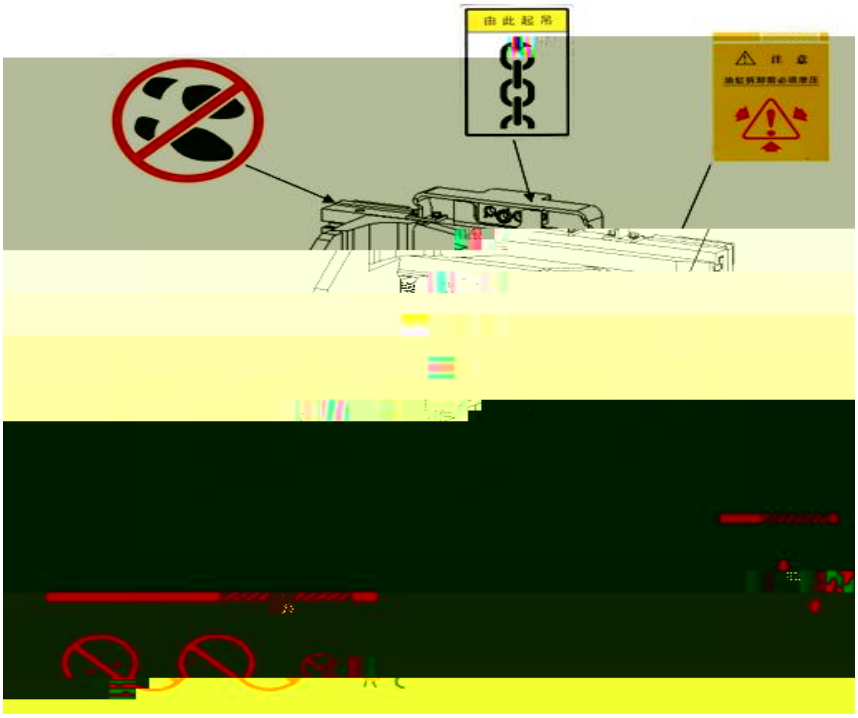
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## 1.2

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5 m/s

## 1.3

### 1.3.1

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1.3.1.2

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### 1.3.4

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ISO4762 ISO4014 ISO4032

| | 8.8 | 10.9 | 12.9 |
|---|---|---|---|
| M10 | 45Nm | 66Nm | 77Nm |
| M12 | 77Nm | 115Nm | 135Nm |
| M16 | 190Nm | 280Nm | 330Nm |
| M20 | 385Nm | 550Nm | 640Nm |



## 1.4

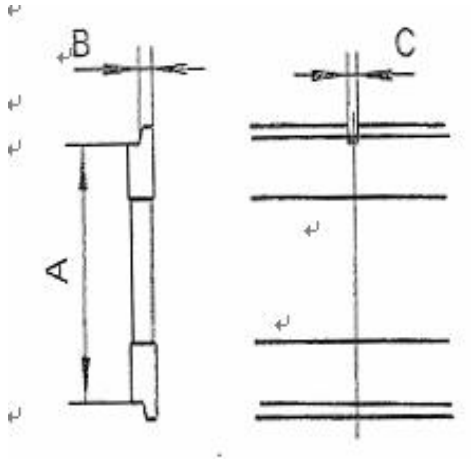



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28MPa

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# 3.

3.1



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3.2

3.3

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2

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3.4

144N.m 155N.m

3.5

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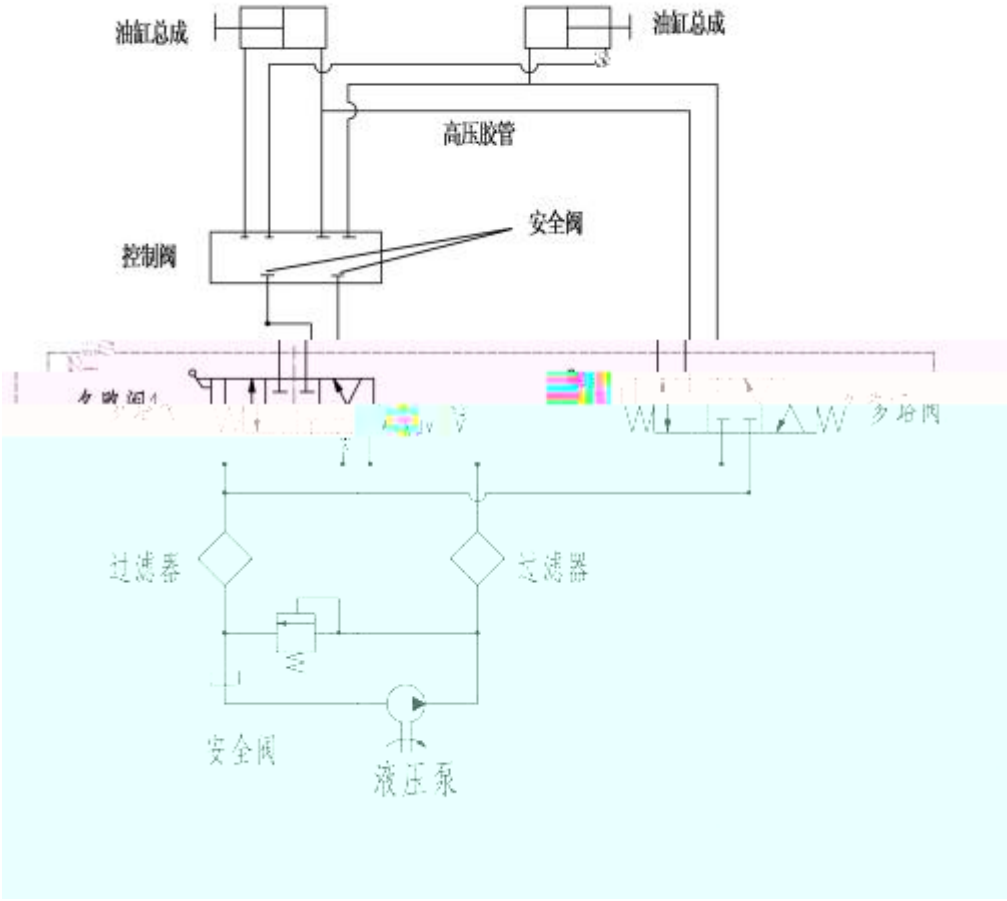
# 4.

4.1

4.1.1

4.1.2

4.1.3




4.2

4.2.1

4.2.2

4.2.3

4.2.4



# 5.

5.1

5.1.1

5.1.2

/

5.1.3

5.1.4

5.1.5 100

5.2

5.3

5.3.1

5.3.2

5.3.3

5.3.4

5.3.5

o

5.3.9

5.4

5.4.1

5.4.2 10 °

5.5

5.5.1

5.5.2

5.5.3

5.5.4

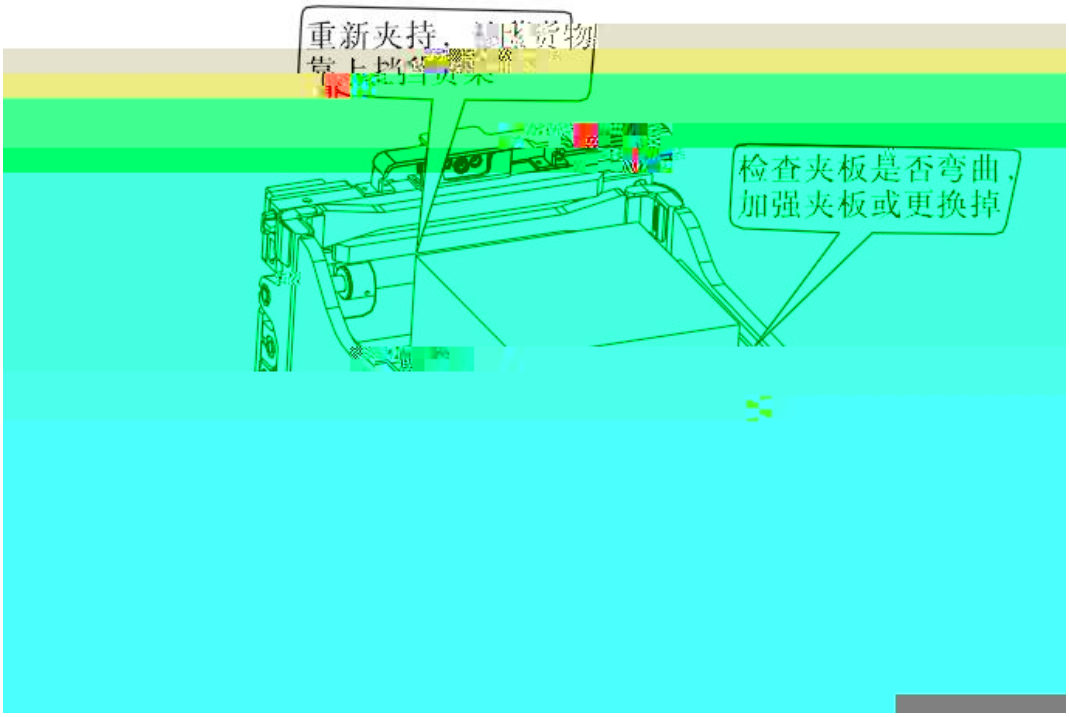
5.5.5

5.5.6

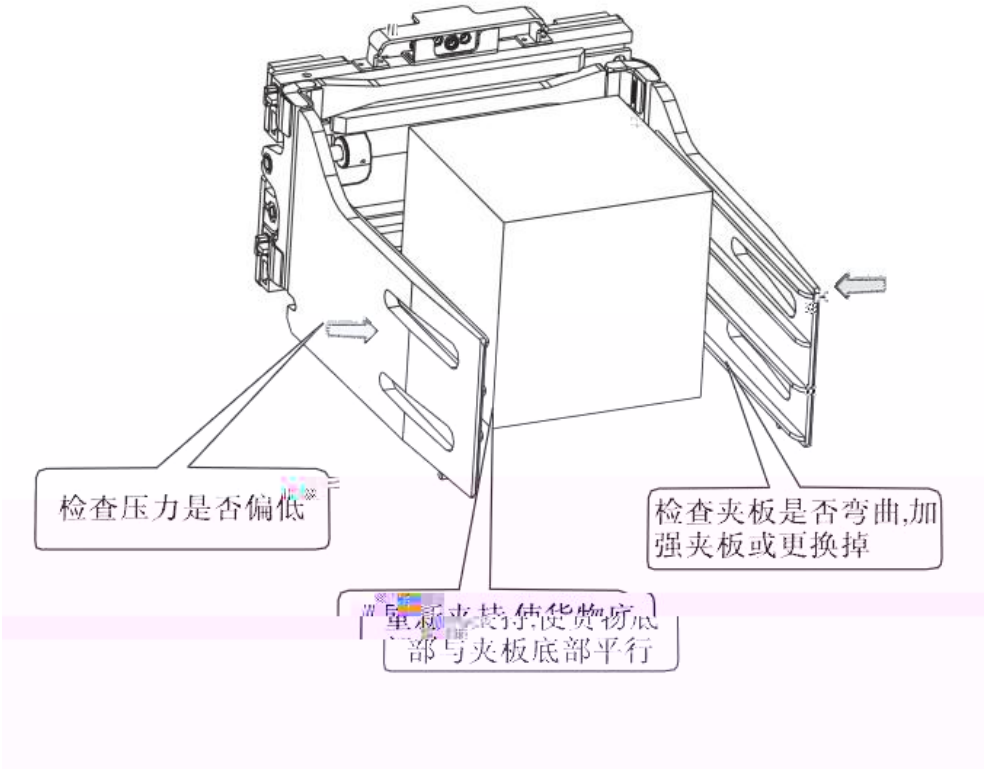
5.6

# 6.

## 6.1




## 6.2



# 7.

7.1

(1) 24 4000

(2) 12 2000

7.2

(1)

(2) ك

(3)

(4)

(5)

7.3

(1)