

2022

3

233

---

1

“

”

—

4

7

9

11

14~45



10 6



2030-



“

”

—

2015 2018

50

2

+ +

+  
+

2

5

2021 7 2 2 9

18 1046

1.556 18

800

50



2020 2023

1.

2.

3.

4.

5.





1.

2.

2022

1+X

3.

1.

2.

2022

3.

4.

1.

2

1

1-2

10

2.

3.

4.

5.









2022



2021- 2022

2021-2022

2021 2022



25

309

500

KUKA

ABB

12





5



3

22



9 15





1

2

1

23

115



2022

2022

2022

2022

9 3

9 4 1400

2022

2022

2022



6 30

1

3

5

3

4

1

3



5

2022

162 2022

102

PPT



2022

7 1 3  
2022

10

3

7

3

151

1066

185

36

32

22

30

60

10

3

12  
30

16

2



1

101

7

101

3

50





1

3

3

2021 7

33

100

4

15

29



7 28

6

6000





9 16

VR



7 15

2021

55

2021

4

2021

2021

2021

2021

2021

32



2022

23

73

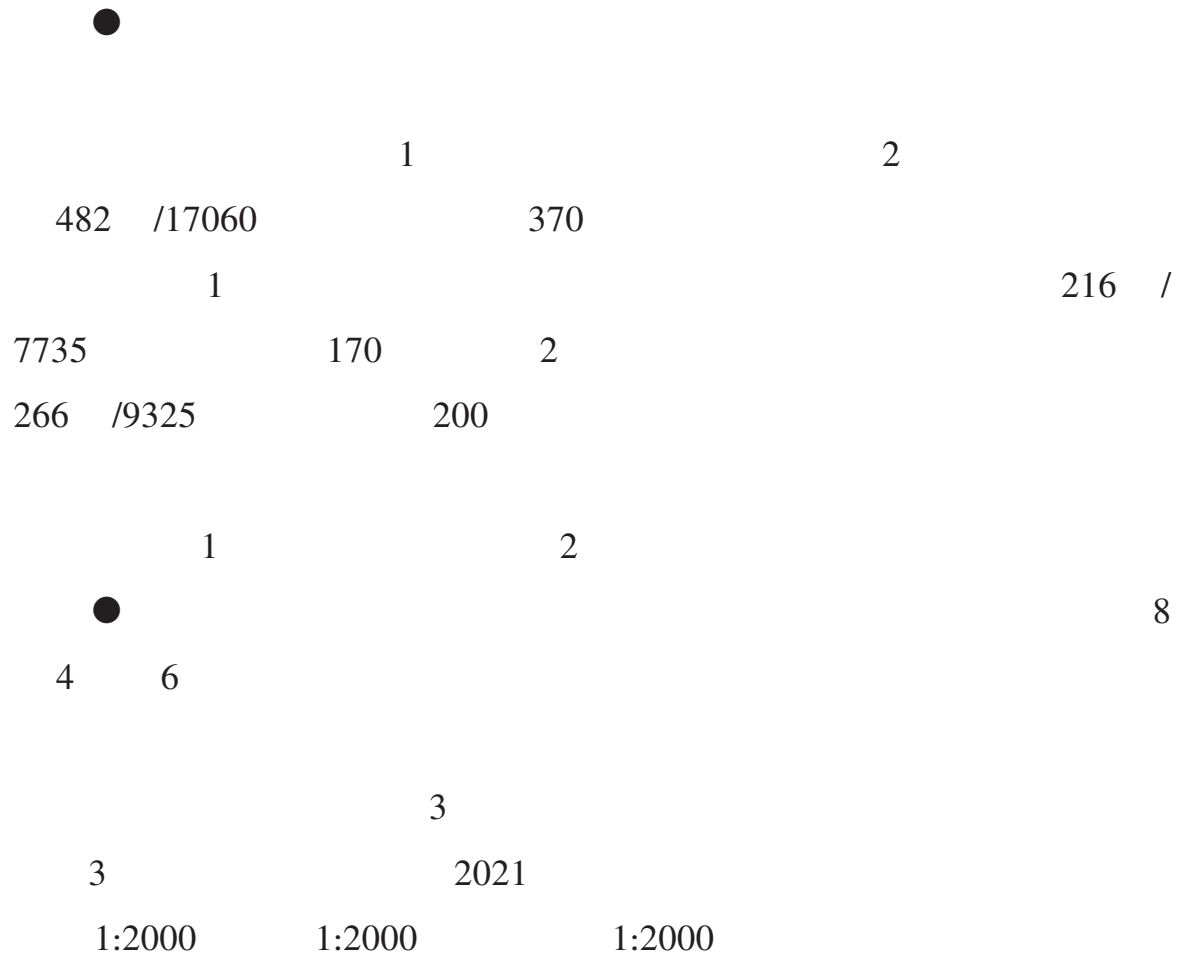


9 10



9 23





●  
29

7

●  
3  
3

1050

Jz- II 2101-

2

1000

●  
20

2022 9 20

40



17

8

24







8 8 3 1:5  
-12

1:5

47 9 165 14  
3

90 3 90  
3

1 353.7 1:5 3181.27 1:  
1283 1807

4

1:5



7 22

40

31



8 24



101

101

101

70

70

42

101



5

RTK



8 5



8

10

$1+1>2$

45

---

QQ 925223893  
QQ 524518649  
QQ 534618460  
QQ 657568691

hve@cug.edu.cn  
027-67886115

388

430074

2022 10 9

---



676121143