

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.

10

2

1

1-2

2.

3.

4.

5.









2022



2021-2022

2021 2022



25

309

500

KUKA

ABB

12





5



3

22



9 15





1

2

1

23

115

● "

" —

9 3

2022

9 4 1400

2022

2022

2022

2022

2022



6 30

1

3

5

3

4

1

3



2022

162 2022

102

PPT



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

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



23

73

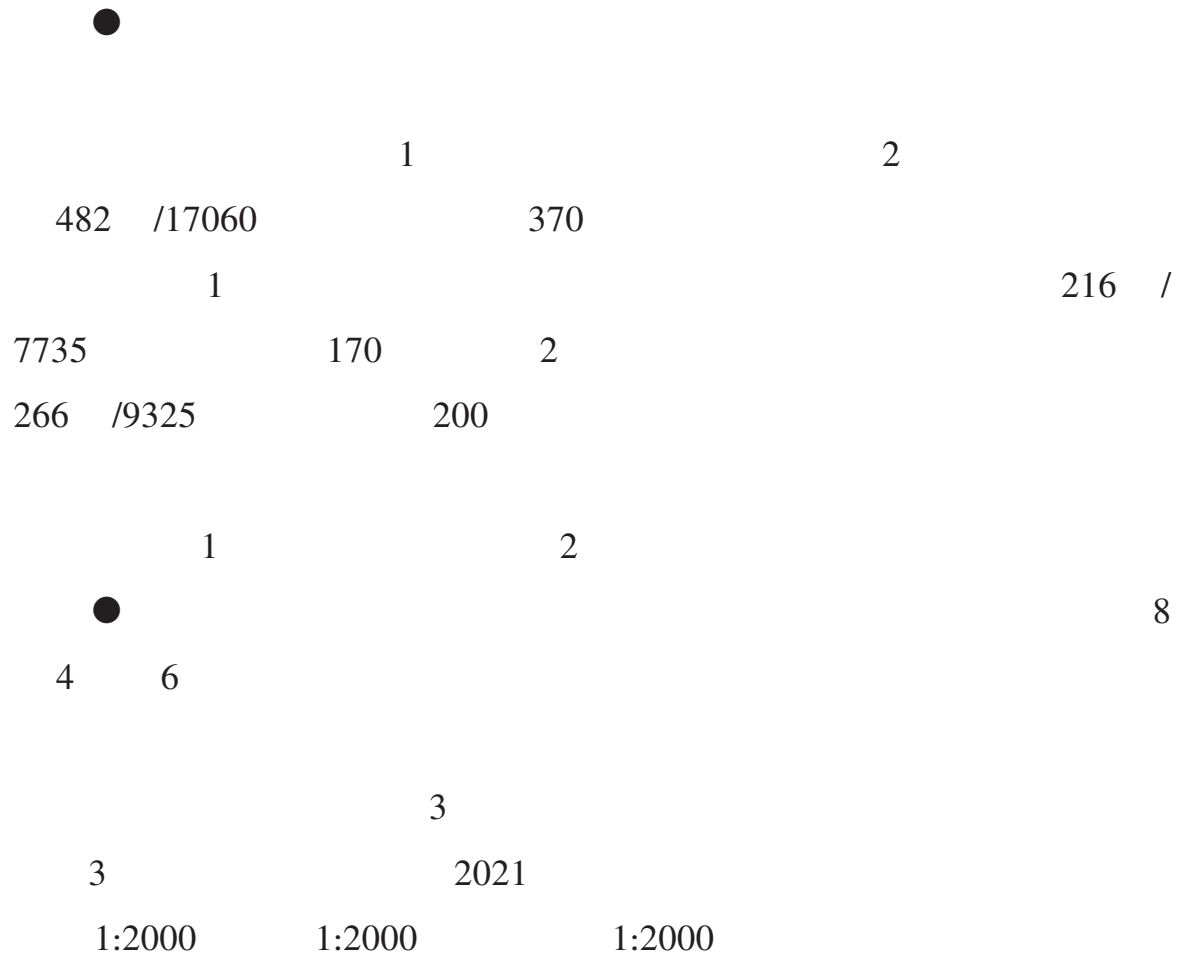


9 10



9 23





●  
29

7

●  
3

1050

Jz- II 2101-

2

1000

●  
20

2022 9 20

40

17 ●

"

"

8

24

●

"





8 8 -12

1:5

47

9

165

14

3

90

3

90

3

1:

1

353.7

1:5

3181.27

1283

1807

39

4

1:5



7 22

40

31



"

"

8 24



“

”

101

101

70

70

42

101



5

RTK



8 5



7 6  
21 54 42 113  
109 24  
4 12



" " 9 8

70

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

---

