



2022

2022-025

2023 4

1

“ ”

SCARA

SCARA

	SCARA	10	TRH002-300-150	TRH002-400-150
TRH002-500-150	TRH002-600-150	TRH002-700-150	TRH005-600-200	TRH005-700-200
TRH015-800-400	TRH015-1000-400	2KG-15KG		

TRH002-300-150	2KG	5KG	300mm	± 0.01mm
IP20	13.5KG	0.33s		
TRH002-400-150	2KG	5KG	400mm	± 0.01mm
IP20	14KG	0.33s		
TRH002-500-150	2KG	5KG	500mm	± 0.01mm
IP20	14.5KG	0.33s		
TRH002-600-150	2KG	5KG	600mm	± 0.015mm
IP20	18KG	0.38s		
TRH002-700-150	2KG	5KG	700mm	± 0.015mm
IP20	19.5KG	DŽ 19.5KG	0.38s	
TRH005-600-200	5KG	10KG	600mm	± 0.015mm
IP20	21KG	0.39s		
TRH005-700-200	5KG	10KG	700mm	

R140-10-S, 190KG	12KG	1450mm	$\pm 0.05\text{mm}$	IP65
R181-35-G, 260KG	12KG	1813mm	$\pm 0.07\text{mm}$	IP54

DELTA

	DELTA	4	P060J-03-H	P080J-03-H	P100J-03-H	P120J-
03-H	3KG	5KG	600mm	800mm	1000mm	1200mm
	3C					

P060J-03-H	3KG	$\varnothing 600*250$	$\pm 0.1\text{mm}$
$\pm 0.1^\circ$	360°	0.4s	IP54 38KG
P080J-03-H	3KG	$\varnothing 800*250$	$\pm 0.1\text{mm}$
$\pm 0.1^\circ$	360°	0.4s	IP54 38KG
P100J-03-H	3KG	$\varnothing 1000*250$	$\pm 0.1\text{mm}$
$\pm 0.1^\circ$	360°	0.4s	IP54 39KG
P120J-03-H	3KG	$\varnothing 1200*350$	$\pm 0.1\text{mm}$
$\pm 0.1^\circ$	360°	0.5s	IP54 72KG

SCARA	TRH002-400-150	2kg	TRH002-400-150	TRH002-300-150	TRH005-
800-200	TRH002-400-150		400mm	300mm	500mm
0.33s	0.25s				
3C					
	2KG	300mm			
				TRH002-300-150	
				3C	
			TRH005-800-200	5KG	
800mm					
3C					
3	TRV007-710-A	R140-10-S	R181-35-G	7kg-35kg	
3C					



2

MBW130

MES

TOPSTAR

TOPSTAR

1000T

GU80S

3D

6000r/min

10%

2

2

50%

APP

0.05mm

2

TE—

TM

TM—

90T 5500T

TH—

TMII

——TM

TM

3C

TM90II TM130II TM170II

TM220II TM260II TM330II TM400II TM470II 8

TH

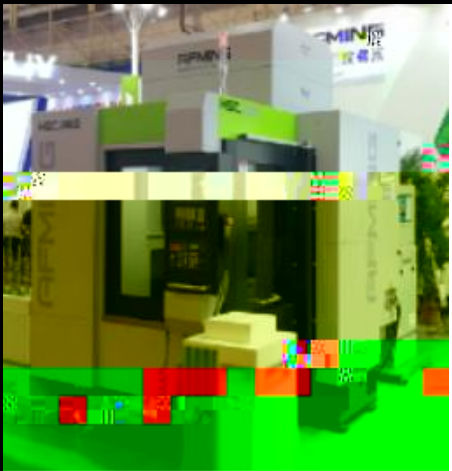
TH

TE

TE

%

2	GMU750/400				750/400mm	
				C M6	AC D3	GMU750
3	HMU140P					
					Y B X HSKA100	A

				
7	TC/HT /			Y
8	DMU300		X Y Z B Z C	

2

1

D3

M6

70

20000

BT40-12000

D1

D2

D3

M6

2

GMU750		GMU750		GMU800	
				GMU400	
HMU140P		GMU600		DMU300	
3					
DMU170				DMU170	AC
	A	$\pm 120^{\circ}$	C	$\pm 360^{\circ}$	

4

FMCS

@E\$BTE@ED@+5@

CDA

BIM

OMP

/

1

C-PACK

FPC

2

3 Å 0.1 Å - 1.0 Å 3°

SCARA

DELTA

2

4

1

1

2021

“

”

2022

51.36%

144.16%

2

		2022	
		22,326.13	148.08%
		2021	26.98%
9.06		1.4	2022
59%			
	1		
			2
	GMU600		

2023

2022 12 31

672

88

180

75

2

“

+

”

“

-

-

”

“

”

2022 12 31

30

200

20

30

20

15,000

3

1 2019

2019

6

“

”

2022 11 8

28,000

CNC

-

“

”

2022-102

2022 12 26

2

2020

2021 3 18

68.59

2022 12

2022 7

123.73

2022 7 26

“

”

3

1

□

	2022	2021		2020
	6,651,728,229.71	6,279,256,653.39	5.93%	4,029,481,325.51
	2,346,830,941.39	2,210,298,494.77	6.18%	2,151,339,763.29
	2022	2021		2020
	4,983,772,629.38	3,292,734,230.03	51.36%	2,755,439,646.69
	159,666,929.85	65,395,277.18	144.16%	519,711,721.61
	135,763,002.29	28,788,540.27	371.59%	496,842,535.67
	139,277,353.81	-328,811,706.83	142.36%	1,004,240,213.22
/	0.37	0.15	146.67%	1.09
/	0.37	0.15	146.67%	1.08
	7.03%	2.98%	4.05%	27.23%

2

	928,893,987.73	1,113,814,222.41	1,246,076,995.29	1,694,987,423.95
	53,837,484.98	48,487,650.44	37,711,855.78	19,629,938.65
	50,761,245.70	43,882,886.53	31,205,003.71	9,913,866.35
	48,288,128.58	-83,104,155.03	110,106,782.10	63,986,598.16

□

4

1

10

	30,082		33,057		0		0		0
10									

2022

		0.51%	2,190,700.00			

□

2

10

3

5

□

1

		123101	2021 03 10	2027 03 09	66,975.86	0.50%	
		2022 3 10	“	” 2021 3 10	2022 3 9		
			0.30%	10 “	” 1,000	3.00	
			2022 3 9		2022 3 10		
		2022 3 10					

2

AA

AA

3

2

