

300607

2020-015

2019

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3.5

0

10

8

10

1

			300607
	2	2	
	0769-85845562	0769-85845562	
	0769-82893316	0769-82893316	
	topstar@topstarltd.com	topstar@topstarltd.com	

2

TCL MES 6000 + + +

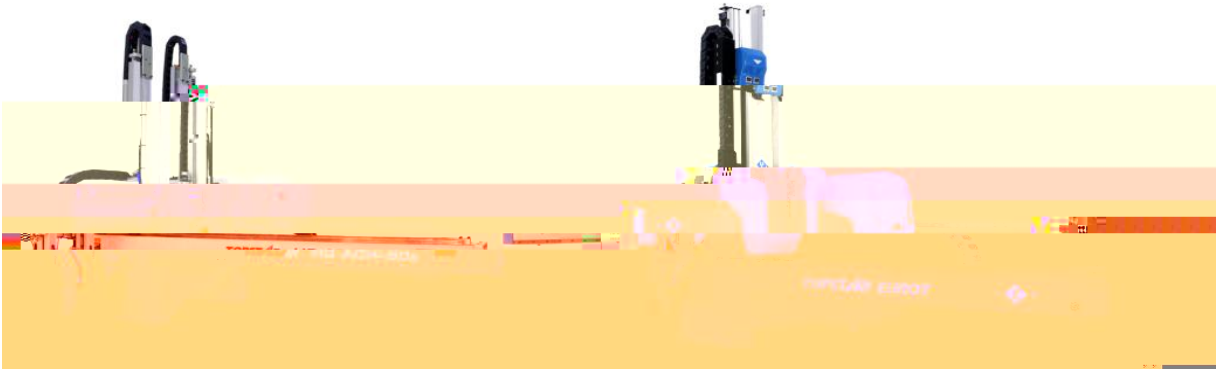
3C 5G

1
1
20

1

k

2019 5 HQ HQ



2 XYZ

2

3C

5G

1 3C

3C

3C

3C

2

3

4

5G

2

,

CDA

BIM

2

OA

2

3

1

2

PCBA

4

3C

5G

2019

HQA

500

200

.

12 13

K 10

I	II	SCARA
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SCARA

I

II

5G

ABB

ABB

2

YASKAWA

1915

3

FANUC

FANUC

1956

FANUC

4

KUKA

2017 1

94.55%

5

STAR SEIKI

1976

6

2000

3C

7

1993

2016 2017

TRIO

2012

8

MAI

9

10

3

IFR 2013 17.81 2018
 42.23 19% 2013 2018
 13% IFR 2018 5.66%
 3C
 IFR 2018
 99 / 2018 831 /
 IFR 2019 2021 2022
 58.35 3 IFR
 2022 711.28
 2
 2013 IFR 2015 2018
 6.85 9.65 15.62 15.40

	2015	2016	2017	2018	2019
%	81.4%	76.5%	76.9%	72.3%	70.3%
%	18.6%	23.5%	23.1%	27.7%	29.7%

MIR-

2018 2017
 745 2020 1,042 11.8%

3C

4

ABB



1

80,015.62

13.43%

13.8%

56,039.41

137.9%

26,086.43

2019

2

2020

		NG	
9	AOI	AOI OK/RW/NG/CI/RI	AOI tray cassette Pad AOI
10		CCD	3C
11	3D	tray XY tray XY NG tray	3C
12			3C
13	VW416		
14	d359		

4

6,991.36

17.23%

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		3 NG	Tray OK		
9	PVD		6 Pad		
10		tray tray tray	tray Pad		
11		logo	logo		3D
12			LCD		
13					
14	2D,2.5D,3D)				
15	pad				
16			3C LCD		
17			3C LCD		
18		FPC			
19	PACK	FPC	PCM 3C		

2

3

10%

2019 6

2019 16

1

2

3

4

5

6

7

8