

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 + + +

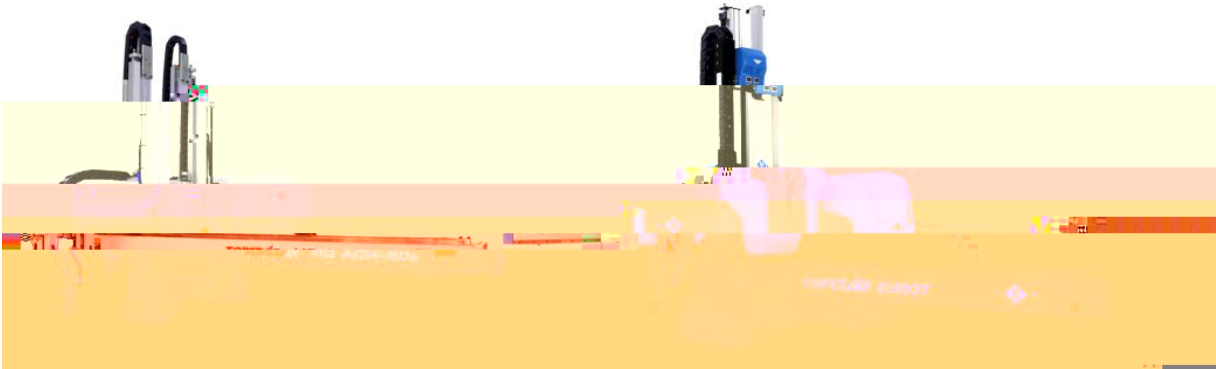
3C 5G

1
1
20

1

k

2019 5 HQ HQ



2 XYZ

2

3C

5G

1 3C

3C

3C

3C

2

3

4

5G

2

EVA MEVH EVH
 EMVH EEA
SEVH

EVH EVH

EVA EVA ,

 +

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 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	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