

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

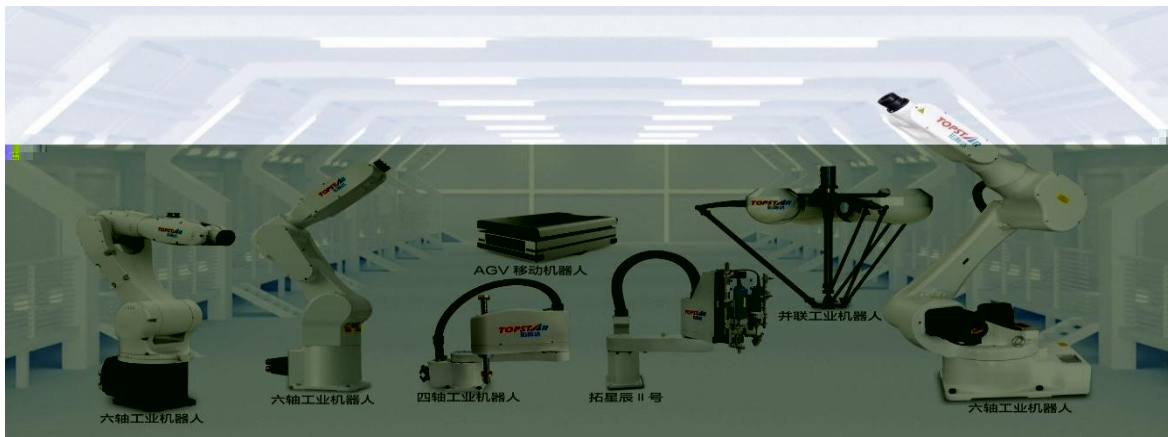
2019 7 21 I II SCARA 0.38 9160mm/s

±0.01mm SCARA 20% 5G

30KG SCARA 2019 9 1200

I 8 15 0.27 IP65

245 800 105



1

2

2019 5

HQ

HQ



2 XYZ

2

3C

5G

1

3C

3C

3C

3C

2

3

4

5G

2

EVA  
SEVH

MEVH  
EMVH

EVH  
EEA

EVH  
EVH

EVA  
EVA

+  
50%

EMVH  
L V PV P 3 6

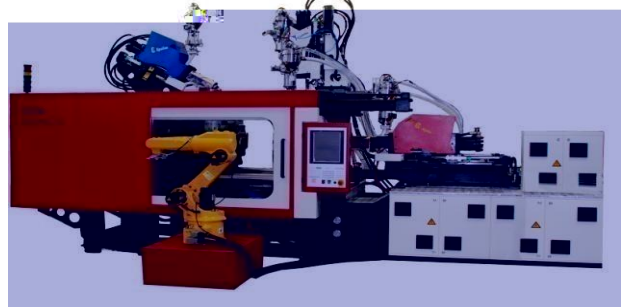
EEA  
20%

EEA  
80 360

24



3



HT  
HT

3

3C

CDA

BIM

I



4

1

2

1

ISO9001

SAP

1

SAP

MRP

2

OA

2

3

1

2

PCBA

4

3C

5G

2019

HQ

500 200

12 13

K 10

I II SCARA

I

II

5G

5G

SCARA

I

SCARA

IPD

2017 2018 2019 3,652.95 5,963.80 6,991.36 ,

+

6000

1

2011

GB/T 4754-2017

C34

2012

2013

4.0

2

1 ABB

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

2012

TRIO

8

MAI

9

10

3

ABB

1



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

6	2017	2018	2019
5.5%	76.9%	72.3%	70.3%
5.5%	23.1%	27.7%	29.7%

0 2018 2017  
 1,042 11.8%

A/D

2016

3

1

	2019	2018		2017
	1,660,363,365.82	1,198,098,144.60	38.58%	764,422,959.92
	186,573,823.78	171,826,384.01	8.58%	138,021,877.16
	183,320,939.38	155,820,537.95	17.65%	126,353,312.17
	122,201,250.28	115,214,741.51	6.06%	7,278,548.77
/	1.41	1.32	6.82%	1.34
/	1.41	1.32	6.82%	1.34
	18.07%	20.56%	-2.49%	21.21%
	2019	2018		2017
	2,667,901,506.44	1,707,998,776.65	56.20%	1,164,663,524.32
	1,672,491,825.96	911,018,705.16	83.58%	765,031,279.01

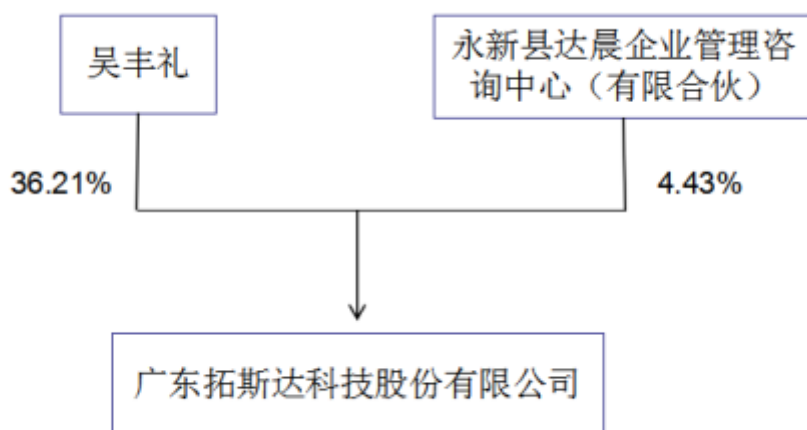
2



2

10

3



5

1

2019

	18,332.09	166,036.34	17.65%	2019 12 31	38.58%	266,790.15	
	56.20%			167,249.18		83.58%	
IPD					HQ		I
	I	I					
NVT							
		70					

1

80,015.62

13.43%

13.8%

56,039.41

137.9%

26,086.43

2019

2

2020

11

1

3C

1		APA	IOTC
2	PCM		MES
3	punch		MES
4	PACK		PACK / PACK PACK
5		TRAY PCM	OCV PACK
6			6 bin 3C
7			90° 4 180°
8		tray XYZ	tray 3C

		NG	
9	AOI	AOI OK/RW/NG/CI/RI	AOI tray cassette tray Pad AOI
10			CCD 3C
11	3D	tray XY tray NG tray	XY 3C
12			3C
13	VW416		
14	d359		
15	C62X		
16	D359		
17	P33A		
18			

2

46.2% 2018

3

6,958.29	28.61%	3C	2,192.66	9.01%	12,332.99	50.70%	2,839.25	11.68%
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4

6,991.36

17.23%

1		4.7A CANopen  0.05mm  <5.6s	850W CAN	8 2020
2		TM TM130 TM170 TM260 TM330 TM400 TM470 TMTM560, 8	TM90	TM170
3		Tray  CCD		4"~6.5"
4	AR	Tray  PVD AR CCD	OP Tray	3C
5				3C
6		4		3C
7		Tray Tray  GRR	52	3C
8		1 Tray 2 OK NG OK NG	OK NG	4"~6.5"



		3 NG	Tray OK	
9	PVD		6 Pad	
10		tray tray tray	tray Pad	
11		logo		3D
			logo	
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%

	800,156,233.68	106,853,102.61	36.68%	13.43%	-7.72%	-3.74%
	260,864,344.30	34,835,902.51	45.27%	13.80%	-7.42%	3.75%
	560,394,077.19	74,835,192.57	24.54%	137.90%	93.53%	8.94%

4

5

6

7

1

1. 2019  
2019 4 30 2019 9 19 2019 2019 2019  
2019 6 2019 2019 16

1

2

3

2. 24 22 23 2017 23  
2017 24 22 37 37 24

2019 6                      2019 16

1

2

3

4

5

6

7

8

2

3

3

1

2

1 2019 11 29

10

100% 2019 12 31

2 2019 9 5

2750

61.11%

2019 12 31

275

3 2019 12 20

350

70%

2019 12 31