Company Profile





Corporate Overview

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Company Outline

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Company Name	Long-Tech Precision Technology Co., Ltd.
Established in	Jan.7th. 2008
Headquarter	No.199 Guanghua Rd., Songjiang Dist., Shanghai 201616, P.R.China
Legal Person	Da Wang
Main Biz	Products like: Metal wafer Frames/Metal Dicing Frames Lapping & Polishing Carriers(Inserted/Mounted) FOWLP Metal Wafer Carriers Dicing Cassette & Wafer Carriers & Baking Cassettes Aspheric Glass Moulds Other High Precision Metalworks. We could also provide CNC milling, turning, grinding, stamping, etching service based on your requirements.

Locations

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SHANGHAI

TIANJIN Head Office

2nd Floor, 29th Building, Huake 3rd Rd., Xiqing Dist., Tianjin, 300384

JAPAN Technical Support PHILIPPINES
Service Center(SEA)

THAILAND Sales Office

HONGKONG Financial Office

TOKYO West Tower-17F, TOC Ariake Bldg., 3-5-7, Ariake, Koto-ku, Tokyo, 135-0063

Mr. Mizutani +81 90 8689.9518 MANILA Unit 3B Cosel Center, 5942 Gloria St., Brgy Poblacion Makati City, 1210 Philippines

Mr. Tonolete +63 632 556-5412 LAMPHUN 159/46, MOO. 10 T. Banklang A. Muang, Lamphun, 51000

Ms.Leelawat +66 053 525589

HONGKONG Long-Tech Precision Technology Co., Limited

12/F San Toi Building, 137-139 Connaught Rd., Central HK

Supplying System

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Wafer Frame (Metal Film Frame)

Lapping Carrier

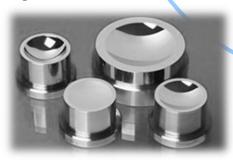




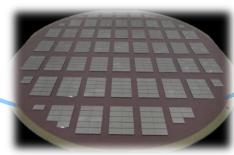
Wafer Cassette



Aspheric Glass Mould



FOWLP Metal Wafer Carrier



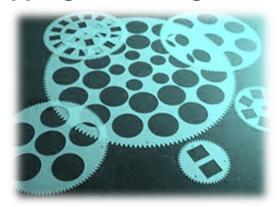
Wafer Baking Cassette



Main Products

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☐ Lapping / Polishing Carrier



OPTIONS:

- Spring Steel / Stainless Steel / CRS
- FR-4 / G-10
- Phenolic / Paper, Linen, Canvas
- PVC / Polycarbonate / Vinyl
- Metal Alloy with Polymer Insert
- Coated Type with Aramid Fiber
- MCRF(Mounted Carrier with Reinforced Fiber)
 - Patented Production Specially for substrates less than 0.3mmT

APPLICATION:

- Optical Glass / Wafer Glass Substrate
- Silicon Wafer
- LCD Glass
- Crystal / Sapphire Substrate
- Precision Metal Parts
- Ceramic Parts
- Hard Disk Drive

Main Products

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☐ Lapping / Polishing Carrier - Insert Carrier

Insert carriers are widely used in wafer grinding & Polishing processes to protect the edge of the wafer from damaging.



Features:

- Insert Materials: PA, POM, PU, etc.(Reinforced with Glass Fiber, Aramid Fiber, Teflon, etc.)
- Body Materials: SK5, CK75, CK101 etc.
- Thickness available from 0.340mm up to 1.270mm
- Fit for wafer size from 100mm up to 450mm
- Improving wafer performance on TTV / TIR
- Minimize the wafer edge damage



Main Products

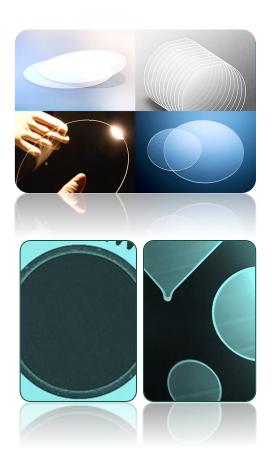
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□ Lapping / Polishing Carrier - Mounted Carrier

Mounted carriers are most specically used in Glass & Substrate polishing processes to protect the edge of the glass and other fragile products from chipping and other damages.

Features:

- Thickness available from 0.1mm up to 1.2mm
- Body Materials: SUS304
- Fit for workpieces size from 100mm up to 450mm
- Improving workpiece performance on TTV / TIR
- Minimize the products edge damage
- High precise mounted
- perfect mounting strength and durability



Main Products

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□ Lapping / Polishing Carrier - Regular Types

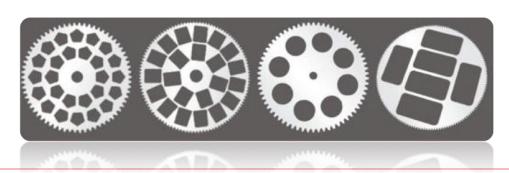
FR-4 / G-10 / PVC / Polycarbonate / Vinyl



Spring Steel / Blue Steel



Stainless Steel



Main Products

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Model	Gear Model	Number Of Teeth	Outer Diameter	Pressur e Angle	
2BM	M2	22	48.00	20	
3BM	M2	34	34 72		
3BM-45T	M1.5	45	45 70.5		
4B-14.5	M2	50 104.00		14.5	
4BM	M2	50	104.00	20	
4BM-80T	M1.25	80	102.50	20	
5BM	M2	53	110.00	20	
6BM	M2	70	144.00	20	
9BM	M2	114	232.00	20	
15BM	М3	128	390.00	20	
17BM	M2.5	176	445.00	20	
18BM	М3	150 456.00		20	

Model	Gear Model	Number Outer Of Teeth Diameter		Pressur e Angle	
20BM	М3	170 516.00		20	
21BM	М3	177	177 537.00		
22BM	M2.5	220	220 555.00		
24BM	M4	152	152 616.00		
26BM	M4	166	672.00	20	
28BM	M4	178 720.00		20	
30BM	M4	191	772.00	20	
32BM	M5	162	820.00	20	

We also provide custom designs and manufacturing services specially tallored to your specifications and needs.

Main Products

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Model	Gear Model	Number Of Teeth	Outer Diameter	Pressur e Angle
2B	DP12	21	48.68	20
3B	DP12	32	71.97	20
5B	DP12	50	50 110.07	
6B	DP12	66 143.93		20
7B	DP12	85	184.15	20
9B	DP12	108	232.83	20
12B	DP12	134	287.87	20
13B	DP12	147	315.38	20
14B	DP12	172	368.30	20
15B	DP12	182	389.47	20
16B	DP12	200	427.07	20

Model	Gear Model	Number Of Teeth	Outer Diameter	Pressur e Angle
2\$	M1.25	38	50	20
3\$	M1.25	55	71.25	20
58	M1.5	70	108.00	20
6S	M1.5	90	142.50	20

We also provide custom designs and manufacturing services specially tailored to your specifications and needs.

Main Products

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■ Wafer Frame / Metal Film Frame

Features:

- SUS420J2
- Excellent in rust resistance
- High concentricity
- Durable
- Impact Resistance
- Temperature Resistance
- Chemical Resistance (Optional)
- Ability to handle 150mm, 200mm, and 300mm wafers.
- Compatible with frames handling equipment (Disco,

TSK, ADT, etc)

- Customizable
- Surface finish of Electro Nickel Plating, Electropolish,
 High Polish, Barrel Polish, Matt Surface



Main Products

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The frame we provide is base on DISCO and K&S Criteria, Standard size as below:

Industrial Standards	Long-Tech Part No.	Wafer Size (in)	Frame Square Blocking (mm)	Frame ID (mm)	Frame Thickness (mm)
(DISCO)					
2-12-1	LTP-WF012	12"	380	350	1.5
2-8-1	LTP-WF008	8"	276	250	1.2/1.5
2-6-1	LTP-WF006-1	6"	212	194	1.2/1.5
2-6	LTP-WF006-2	6"	195	175	1.0/1.2
2-5	LTP-WF005	5"	190	165	1.0/1.2
(K&S)					
350-104	LTP-WF-104	8"	266.7	242.4	1.2/1.5
350-103	LTP-WF-103	6"	215.9	192.5	1.2/1.5
350-102	LTP-WF-102	5"	184.15	165.1	1.0/1.2
-	LTP-WF-800	8"	276	255	1.2
-	LTP-WF-018	18"	556	506	2.0

We are also customizable to suit user's requirements.

Main Products

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□ FOWLP Metal Wafer Carrier (Fan-Out Wafer Level Package)

FOWLP manufacturing is distinguished by an innovative process where an artificial wafer is created by embedding pre-diced silicon chips onto a blank metal carrier.

Applications:

- Mobile and consumer products, baseband,
 RF, analog, power management
- ASIC, MEMS, system solutions for medical, security, encryption, DC converter, radar
- Electro-Optical WLSIP, solutions for M2M
 Communication and the "Internet of Everything"
- Extension of the Technology platform to a wider field of application areas is ongoing



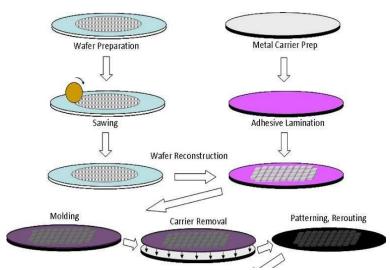
Main Products

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☐ FOWLP Metal Wafer Carrier (Metal Wafer Carrier for Fan-Out Wafer Level Package)

FEATURES:

- SUS420J2
- High precision machining
- Precise warpage controlling
 - 12 inch in 350mm
- Excellent in rust resistance
- High concentricity
- Mirror-like surface finishing(Ra0.02)
- Durable
- Impact Resistance
- Ability to handle 150mm, 200mm, and 300mm wafers.
- Customizable



Main Products

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■ Wafer Carrier (Wafer Baking Cassette)

Applications:

Wafer Handling
Wafer Baking (below 450 degrees)
Material of: SUS 316 SS,
Aluminum Alloy 6061

Surface Finishes:

Anodize Non-Conductive
Hard Anodizing
Electroless Nickel Plating
Electroless Nickel With Dispersed PTFE
Options:

Dust Cover/Handles
Custom Engraving
Customzied Upon Request





Main Products

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■ Wafer Cassette

Applications:

Wafer Handling on Frame/Film Back Grinding/Sorting

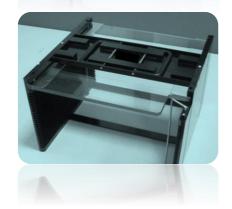
Surface Finishes:

Anodize Non-Conductive
Hard Anodizing
Electroless Nickel Plating
Electroless Nickel With Dispersed PTFE

Options:

Dust Cover
Handles
Custom Engraving
Customzied Upon Request





Main Products

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Slot Magazine/Stack Magazine

Materials: Aluminum Alloy 6063T5

Used For:

Lead Frame Handling

During Die Attaching/Wire Bonding/Molding

Plasma cleaning/Oven cure(temperature below 250 degrees)

Surface Finishes:

- a. Anodize Non-Conductive
- **b.** Hard Anodize Non-Conductive
- c. Electroless Nickel Planting
- d. Electroless Nickel With Dispersed PTFE

We also provide customized magazines upon request.

Technical Resources

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Our Technical Equipments Includes:



- 3 Axis CNC Vertical Machining Centers
- CNC PC 1100 Milling Machines
- 9 x 12 manual Milling Machines
- eChanghan Surface Grinding Machines
- Kingmali Precision Grinding machine
- Julong Lathe 10 x 24
- Monarch Lathe 13 x 16
- Wire & Small Hole EDM
- Drills & Lingthec SP/200 Welder
- Pressure Die Casting
- Lapping, Polishing, Blast, Ultrasonic Cleaner Line
- Double Polishing Machine
- 14" Vertical Bandsaw
- Punch Press
- Optical Comparator

Main Customers

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Contact Us

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