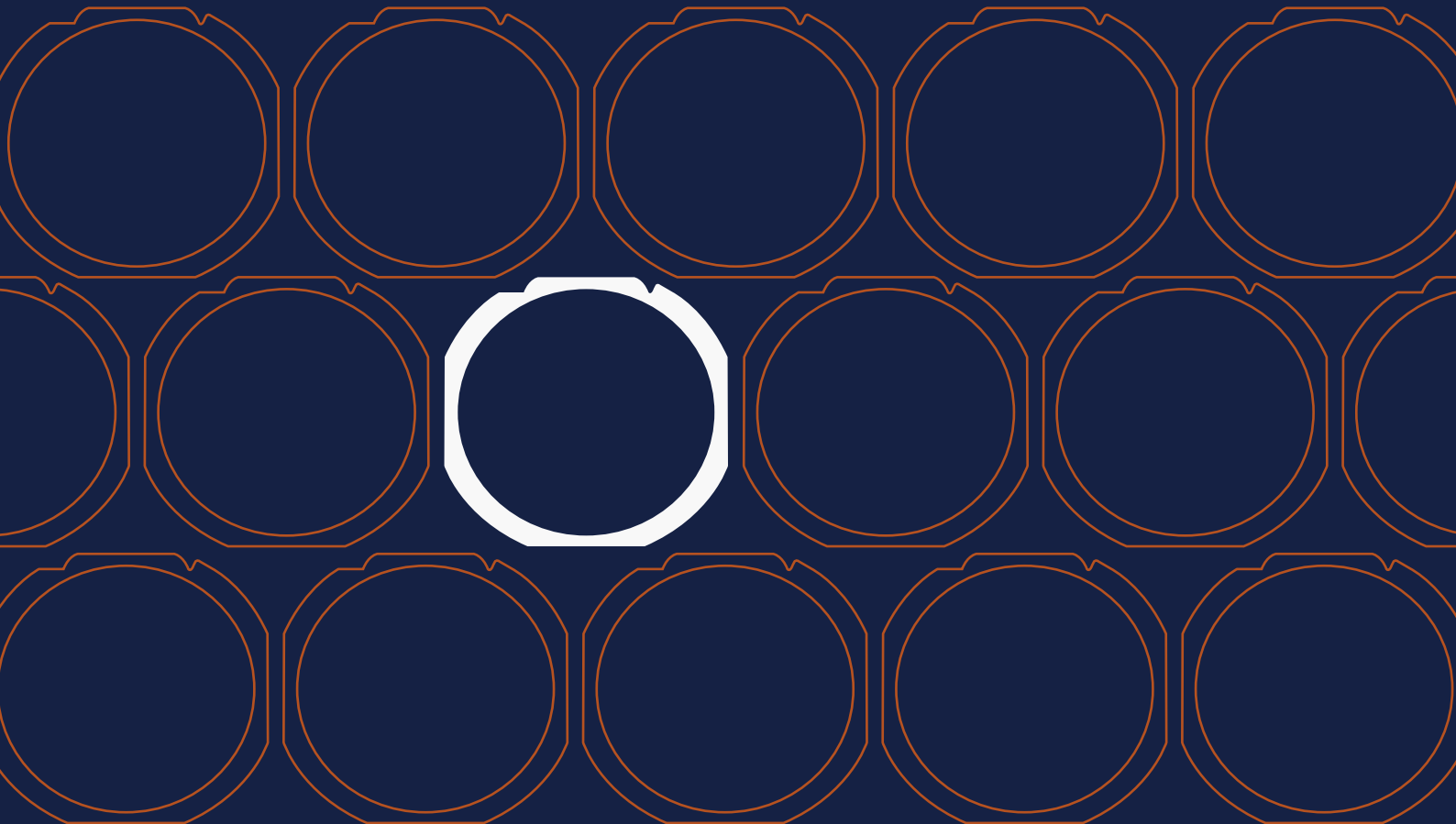


WAFER FRAME FRAME CASSETTE SHIPPING BOX WAFER BOX

Professional Wafer Frame Manufacturer
SEMI Related Products

..... Product Catalog



SINCE 1985



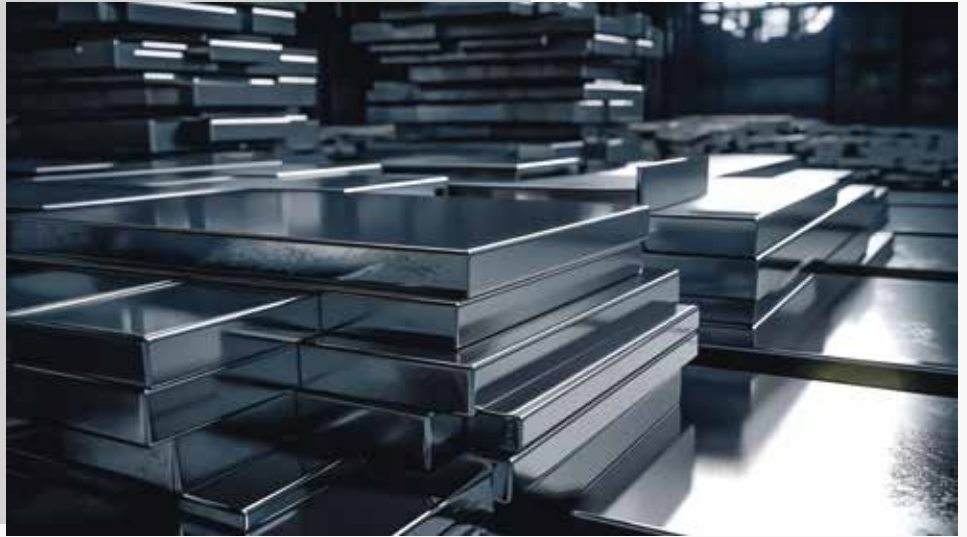


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01 INTRO



About us

■ Recognition by domestic and foreign customers

YJ Stainless Co., Ltd. was founded in 1985, a professional wafer frame manufacturer with 40 years' experience in Taiwan.

Started from the professional manufacturing of stainless steel products with 40 years of excellent technology and development experience, we constantly pursue technological improvement, equipment upgrading and product expansion, successfully expanded the product line to the high-tech semiconductor industry chain.

We have received high recognition and unanimous praise from many semiconductor companies around the world.

■ Customized product services

Now, we are not only professional manufacturer of the highest quality semiconductor wafer frames in Taiwan, we also provide other semiconductor-related products service, including cassette, shipping box, wafer box, etc.

In order to meet customers' needs, all of our services could be customized, including customized dimension, thickness, surface treatment, laser engraving, grooving, and valet cleaning services, etc.

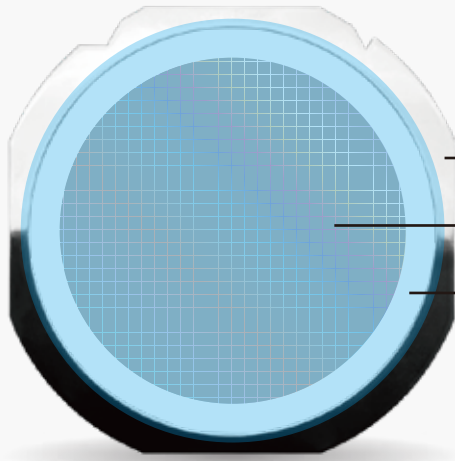
To ensure the quality of our products, our quality management system is certified to BSI ISO-9001 and SGS RoHS Hazardous Substance Testing.

02

WAFER FRAME



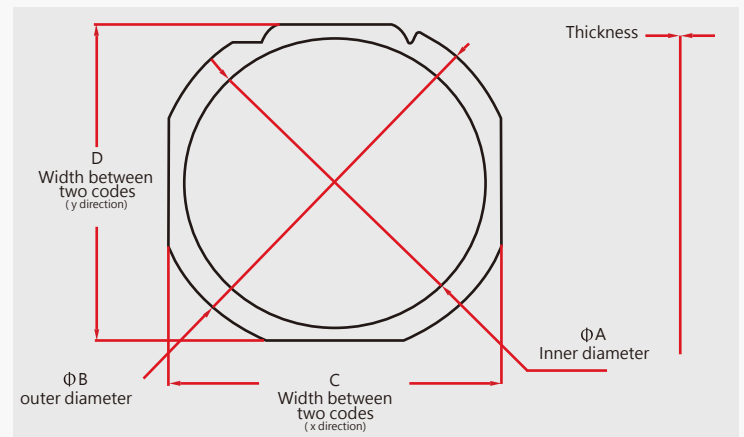
- ▶ Wafer frame can go with wafer cutting machine or wafer polishing, able to dispatch after cutting. Also can be used with blue tape, able to use repeatedly by washing. We offer various shapes of customizable wafer frame rings, depending on customer's requirements.
- ▶ Material : SUS 420 stainless steel
Size : 6 inch / 8 inch / 12 inch
Plate : 1.2T / 1.5T
Surface Treatment : Matte finish/Glossy finish



Wafer Frame

Wafer

Blue Tape

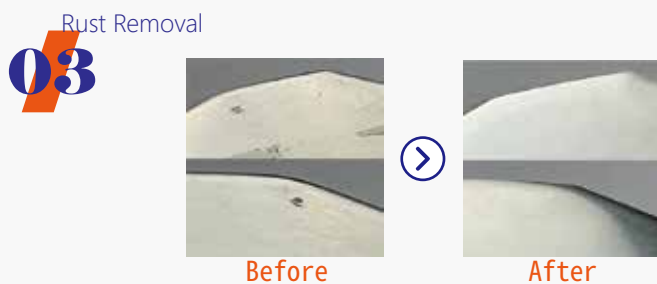
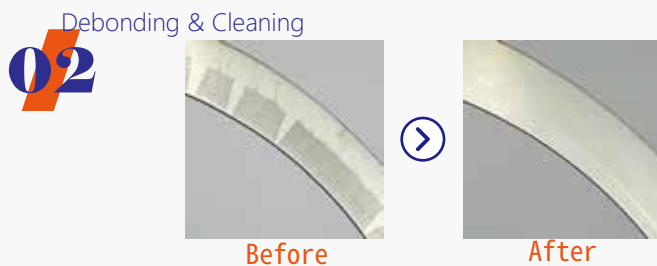


Product	Part No	Surface Polishment	ΦA	ΦB	C	D	Thickness	Flatness	Hardness	Weight						
			Inner Diameter	Outer Diameter	Width between two codes (X direction)	Width between two codes (Y direction)										
			(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(HRC)	(g)						
Wafer Ring-6"	TJF-6A1-1.2	High Gloss	194.0±0.3	228.0±0.3	212.0±0.3	212.0±0.3	1.20±0.06	≤ 0.2	50.0±3.0	14						
	TJF-6A2-1.2	Hairline(straight)	194.0±0.3	228.0±0.3	212.0±0.3	212.0±0.3										
	TJF-215.9B1-1.2	High Gloss	192.5±0.3	228.0±0.3	215.9±0.3	215.9±0.3										
Wafer Ring-7.5"	TJF-266.8A1-1.2	High Gloss	242.4±0.3	281.7±0.3	266.8±0.3	266.4±0.3	1.50±0.06			≤ 0.2	50.0±3.0					
	TJF-266.8A2-1.2	Hairline(straight)	242.4±0.3	281.7±0.3	266.8±0.3	266.4±0.3										
	TJF-8H-1.5	High Gloss	242.4±0.3	281.7±0.3	266.8±0.3	266.4±0.3										
Wafer Ring-8"	TJF-8A1-1.2	High Gloss	249.8±0.5	295.5±0.5	275.5±0.5	275.5±0.5	1.20±0.06					≤ 0.2	50.0±3.0	21		
	TJF-8A2-1.2	Hairline(straight)	249.8±0.5	295.5±0.5	275.5±0.5	275.5±0.5										
	TJF-8B1-1.2	High Gloss	250.0±0.3	296.0±0.3	276.0±0.3	276.0±0.3										
	TJF-8B2-1.2	Hairline(straight)	250.0±0.5	296.0±0.5	276.0±0.5	276.0±0.5										
Wafer Ring-12" (2 notch)	TJF-12A1-1.5	High Gloss	350.0±0.5	400.0±0.5	380.0±0.5	380.0±0.5	1.50±0.06							≤ 0.2	50.0±3.0	37
	TJF-12A2-1.5	Hairline(circle)	350.0±0.5	400.0±0.5	380.0±0.5	380.0±0.5										

OUR ABRASIVE BLASTING and SURFACE TREATMENT



CUSTOM PROCESSING SERVICES



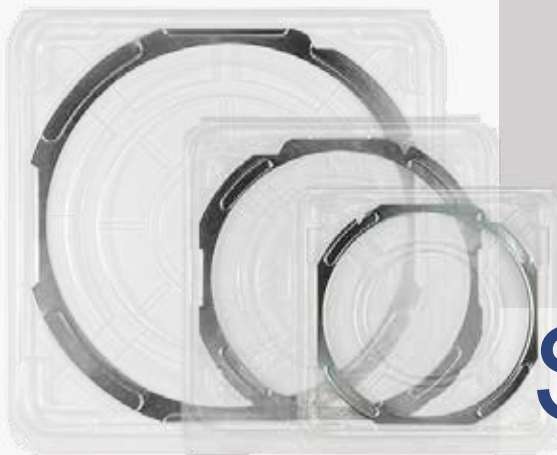
03

FRAME CASSETTE



- ▶ Wafer cassette is used in the semiconductor BEOL packaging process to carry the wafer frame, which is used to transport, store and protect the cut wafers in the BEOL process. The surface is treated with anti-static to prevent dust. Laser engraving and RFID (radio frequency tracking) for production tracking.
- ▶ Material : Aluminum extrusion 6061/6063
Surface Treatment : Anodizing/Teflon 、ESD anti-static

Product	Part No	Length	Width	Height	Weight	Capacity	Remarks
		(mm)	(mm)	(mm)	(g)	(pcs)	
Wafer Frame Cassette-6	TJC-6	212	222	142	1200	25	for 6 inch wafer frame
Wafer Frame Cassette-8	TJC-8	276	288	189	2600	25	for 8 inch wafer frame
Wafer Frame Cassette-12	TJC-12	385	395	182	3220	13	for 12 inch wafer frame



04

SINGLE SHIPPING BOX

- ▶ It adopts anti-static design and can place wafers horizontally. It is used to store and protect wafers to avoid collisions. It is efficient and safe to meet special storage and transportation requirements of products.
- ▶ Material : PET 、ESD anti-static



Product	Part No	Length	Width	Thickness	Inner Diameter	Capacity	Remarks
		(mm)	(mm)	(mm)	(mm)	(pcs)	
Wafer Shipping Box-6	TJS-6	249	255	0.98	Ø150	1	for 6 inch wafer frame
Wafer Shipping Box-8	TJS-8	317	323	0.98	Ø200		for 8 inch wafer frame
Wafer Shipping Box-12	TJS-12	424	425	0.98	Ø300		for 12 inch wafer frame

05

WAFER STORAGE BOX



- ▶ The anti-static design allows the wafer to be placed horizontally and is used to protect the wafer during transportation and storage. It can be stacked for easy storage and space saving.
- ▶ Material : PP 、ESD anti-static

Product	Part No	Length (mm)	Width (mm)	Inner Diameter (mm)	Weight (g)	Capacity (pcs)	Remarks
Wafer storage Box-6	TJP-6	17(±1)	17(±1)	Ø150	39	25	for 6 inch wafer
Wafer storage Box-8	TJP-8	22(±2)	22(±2)	Ø200	52	25	for 8 inch wafer
Wafer storage Box-12	TJP-12	32(±3)	32(±3)	Ø300	92	13	for 12 inch wafer



06

WAFER FRAME STORAGE BOX

- ▶ Used in the semiconductor BEOL packaging process, it carries the wafer frame to transport and protect the wafers to be polished and cut during the back-end process. The surface is treated with anti-static to prevent dust.
- ▶ Material : PE 、ESD anti-static



Product	Part No	Length (mm)	Width (mm)	Thickness (mm)	Weight (g)	Capacity (pcs)	Remarks
Wafer Frame Storage Box-6	TJB-6	229	248	255	950	25	for 6 inch wafer frame
Wafer Frame Storage Box-8	TJB-8	291	226	308.5	1250	25	for 8 inch wafer frame
Wafer Frame Storage Box-12	TJB-12	397.5	227.5	416.3	3123	13	for 12 inch wafer frame

07

WAFER FOUP



- ▶ We offer 25 slot wafer FOUP fully align with SEMI standard E47.1. Able to protect, deliver and store 12 inch wafer, provide safe protection during delivery and storage.

Front-opening design with viewing window and able to install RFID.

Reduce particle contamination of wafer, protect wafer from static electricity damage and then increase yield rate.

- ▶ Material : PC 、 ESD

Product	Part No	Length	Width	Height	Capacity	Remarks
		(mm)	(mm)	(mm)	(pcs)	
Wafer FOUP	TJU-12	370	387	322	25 slot	for 12 inch wafer



08

WAFER SHIPPING BOX

- ▶ Wafer Shipping Box has used in deliver blank wafer from ingot to factory process, it carries the blank wafer to transport and protect the wafers collision and contamination.

- ▶ Material : PP



Product	Part No	Length	Width	Height	Weight	Capacity	Remarks
		(mm)	(mm)	(mm)	(g)	(pcs)	
Wafer shipping box-4	TJW-4	163.2	146.5	120.4	384	25	for 4 inch wafer
Wafer shipping box-6	TJW-6	202.4	162.5	175.2	630	25	for 6 inch wafer
Wafer shipping box-8	TJW-8	259	262	237	1530	25	for 8 inch wafer

09

PLASTIC WAFER FRAME



- ▶ Plastic wafer frame can go with wafer cutting machine or wafer polishing, able to dispatch after cutting. Also can be used with blue tape. Special material design with lightweight feature.

- ▶ Material : ABS 、 PPS

Product	Part No	ΦA Inner Diameter	ΦB Outer Diameter	C Width between two codes (X direction)	D Width between two codes (Y direction)	Thickness	Weight	Remarks
		(mm)	(mm)	(mm)	(mm)	(mm)	(g)	
Plastic Wafer Frame-6	TJF-6P-2.5	Ø195	Ø226.7	211	211	2.5±0.15	24	ABS
Plastic Wafer Frame-8	TJF-8P-2.5	Ø250	Ø296	276	276	2.5±0.15	60	PPS
Plastic Wafer Frame-12	TJF-12P-2.5	Ø350	Ø400	380	380	2.5±0.15	80	ABS



EXPANDER RING 10

- ▶ Expander ring can be used in semiconductor and LED chip, consisted of inner and outer ring. Expander ring able to fix wafer to let it expand; provide variety of specs for customer to choose.

- ▶ Material : PC+GF

Product	Part No	Inner Ring	Outer Ring	Ring Thickness	Colors	Remarks
		(mm)	(mm)	(mm)		
Expander Ring-6	TJR-6	Ø170±1.50	Ø186±1.50	6±0.15	depends on colors in stock	for 6 inch wafer
Expander Ring-8	TJR-8	Ø227±2	Ø247±2	7±0.15	depends on colors in stock	for 8 inch wafer
Expander Ring-12	TJR-12	Ø325±2	Ø345±2	7±0.15	depends on colors in stock	for 12 inch wafer



Our Partners Around The World



C ■ Customers We Served

Constantly pursue perfection
and provide our customers with
high-quality products and services

To ensure the accuracy of the quality process,
we pass the British **BSI** certification standards.



Standard



Quality

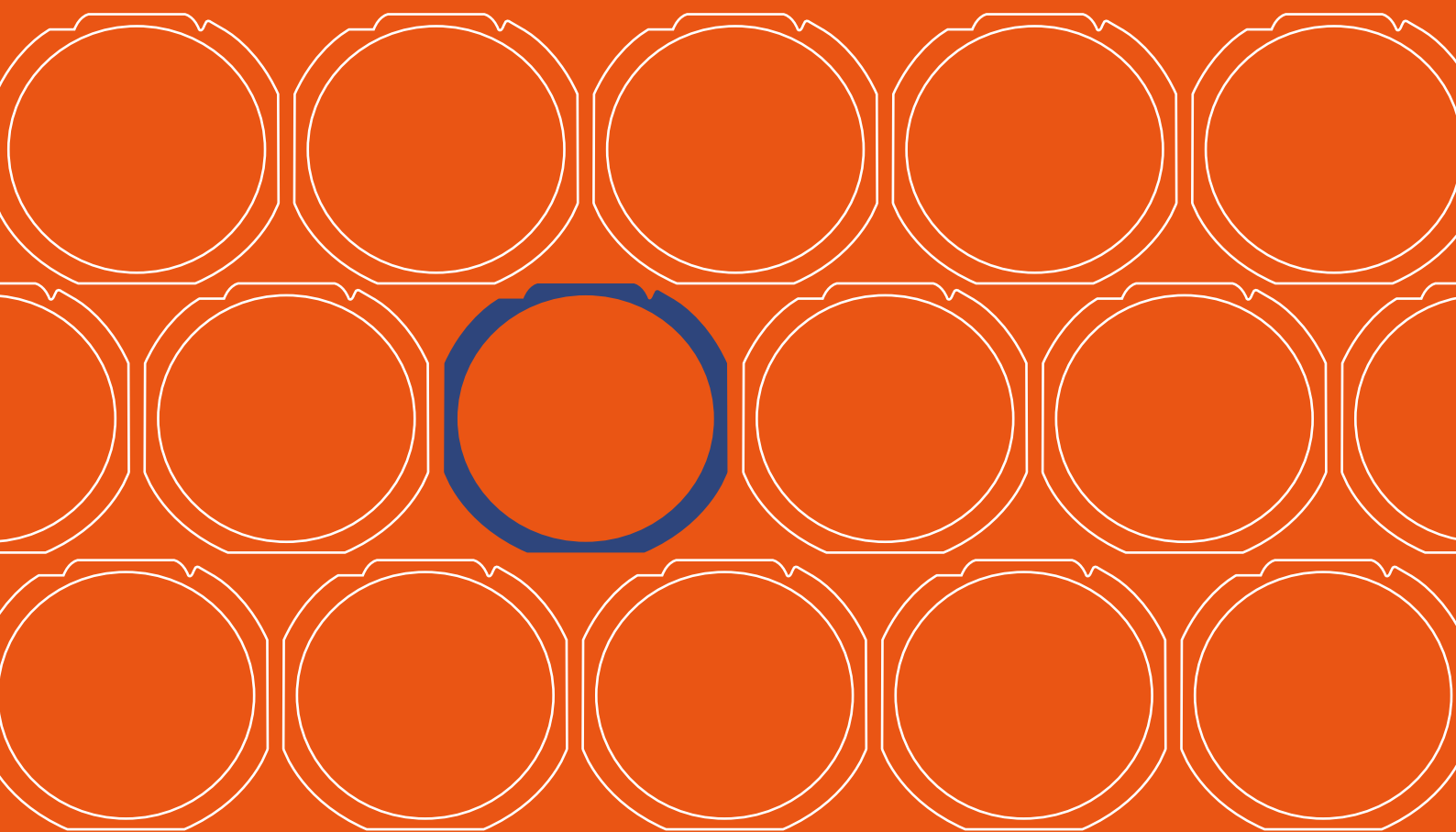


Accuracy



Our footprints span the world, including many well-known companies such as Amkor, ASE, KLA, TSMC, ABB and more.

Under strict control, YJ Stainless Steel provides customers with high-quality products and services, laying a solid foundation for long-term cooperation abroad.



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