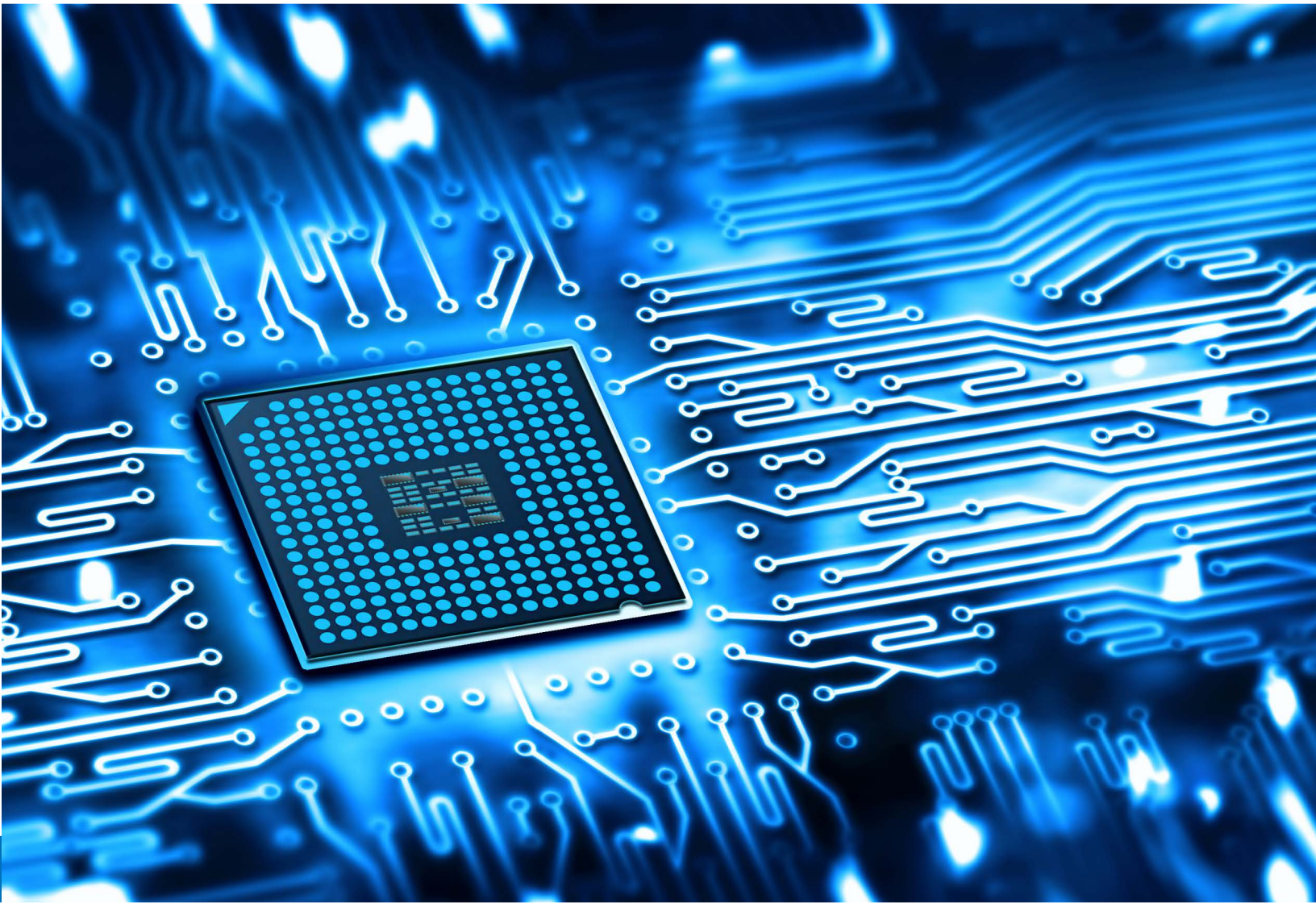




Polyurethane Transmission Belts

for Semiconductor Manufacturing

MBL (USA) CORPORATION
Ottawa, Illinois USA

Toll Free: (877) 625-7832
mblusa.sales@mitsuboshi.com

www.mblusa.com

Mitsuboshi Belting offers a premium line of power transmission belts engineered to meet the unique demands of the semiconductor industry. From wafer handling and pick-and-place automation to cleanroom conveyor systems, our belts deliver precision, cleanliness, and performance in every application.

Key Features

of Mitsuboshi Belts for Semiconductor Applications



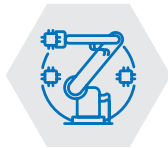
Low Particle Emission

Clean-running materials reduce the risk of contamination



Antistatic Options

Specifications available to protect sensitive components



High Precision

Accurate motion control for robotic and indexing systems

Durability & Resistance

Excellent wear, heat, and chemical resistance

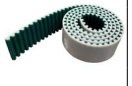
Belt Selection Support

Mitsuboshi offers a proprietary ***Belt Design Program*** to help engineers select the perfect belt for each semiconductor application. Our experts can assist in optimizing belt performance for speed, load, and environmental requirements. For more information, visit www.mblusa.com/resources



Synchronous Belts

Belt Line-up

PRODUCT		CONSTRUCTION		KEY CHARACTERISTICS	TYPICAL APPLICATIONS
	Super Torque U SIZES: S2M, S3M	TYPE	CURVILINEAR TOOTH	- Low particle shedding - Resists outgassing under heat - Provides stable, precise motion	- Photomask and reticle handling - Wafer aligners and centering tools - X-Y metrology stages - AOI and SEM inspection systems
		MATERIAL	POLYURETHANE		
		CORD	POLYESTER or ARAMID		
	MegaTorque™ U SIZES: MTS8M	TYPE	CURVILINEAR TOOTH	- Zero-backlash for ultra-precise control - Minimal dust and outgassing - Aramid cords ensure belt stability	- Wafer handling (Z-theta stages) - Reticle alignment modules - Robotic arms for back-end automation - Die placement and advanced packaging
		MATERIAL	POLYURETHANE		
		CORD	ARAMID		
	Timing Belt U SIZES: T80, XL, L, T2.5 T5, DT5, T10, DT10 AT5, AT10	TYPE	TRAPEZOIDAL TOOTH	- Resists chemicals, moisture, abrasion - Cleanroom-compatible - High stability for repeating linear motion	- Wafer aligners and metrology stages - Reticle storage systems - AOI, SEM, and optical inspection tools - Cleanroom linear transports
		MATERIAL	POLYURETHANE		
		CORD	ARAMID OR STEEL		
	Super Torque G SIZES: S2M, S3M S5M, DS3M, DS5M	TYPE	CURVILINEAR TOOTH	- Nylon tooth fabric minimizes dust - Smooth, consistent motion - High torque capacity	- Wafer-handling robots - FOUP and open-cassette ports - Photolithography stages - Back-end test handlers
		MATERIAL	CHLOROPRENE RUBBER		
		CORD	FIBERGLASS		
	FREESPAN™ SIZES: T5, T10, AT5 AT10, L, H, HTD5M HTD8M, HTD14M	TYPE	ROUND or TRAPEZOIDAL	- Self-tracking reduces setup and tensioning - ISO 3-5 compliant with excellent chemical resistance - Steel cords for durable, maintenance-free use	- Wafer transfer arms and elevators - Photomask and reticle systems - Thin-substrate cleanroom conveyors - FOUP/cassette loaders - Precision alignment stages
		MATERIAL	POLYURETHANE		
		CORD	STEEL or ARAMID		

Frictional Forced Belts

PRODUCT		CONSTRUCTION		KEY CHARACTERISTICS	TYPICAL APPLICATIONS
	RIBSTAR™ U V-RIBBED BELT SIZES: JT, JBT, HB	TYPE	V-RIBBED BELT	- Minimal vibration and particle generation - Enables flexible, compact routing in wafer-handling tools - Cleanroom-compatible, with excellent chemical resistance	- FOUP load port drives - Wafer cassette indexers - Reticle handling modules - Back-end robotic arms - Semiconductor sorters/packaging systems
		MATERIAL	POLYURETHANE		
		CORD	NYLON		
	FLEXSTAR™ Belt J FLAT BELT SIZES: See catalog for full listing	TYPE	FLAT BELT	- Fits tight spaces in inspection and handling systems - Smooth, low-dust operation for cleanroom conveyors - Resists wear in high-cycle automation	- Reticle storage/retrieval systems - Inspection stage conveyors - Wafer cleaning modules - X-Y motion platforms in compact enclosures - Photomask loader subsystems
		MATERIAL	POLYURETHANE		
		CORD	POLYESTER		
	MB Belt COGGED V-BELT SIZES: MB	TYPE	COGGED V-BELT	- High-strength and low-dust generation - Excellent shock absorption for high-load cleanroom systems - Maintains precise motion in photolithography and inspection stages	- Wafer prober and test handler stages - Photolithography and mask aligner platforms - Reticle and wafer transfer robots - Back-end packaging and placement tools - Cleanroom lift tables and rotary actuators
		MATERIAL	POLYURETHANE		
		CORD	POLYESTER		
	STARROPE / SUPER STARROPE ROUND ROPE BELT SIZES: See catalog for full listing	TYPE	ROUND ROPE BELT	- Clean, quiet drive in light automation - SUPER STARROPE supports higher loads for FOUP and reticle transport - Spliceable and cleanroom-compatible for modular conveyors	- Conveyor modules for FOUps and reticles - Lightweight wafer transport trays - Indexing lines for packaging and sorting - Shuttle systems in storage or transfer units - Overhead or track-mounted systems
		MATERIAL	POLYURETHANE		
		CORD	NOT APPLICABLE		



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