

We build material interfaces for the last centimeter of robotics.

Protecting contact surfaces, enabling tactile sensing, and improving data quality — so robots interact with the physical world reliably, at scale.



20+

YEARS MATERIALS R&D

67+

INVENTION PATENTS

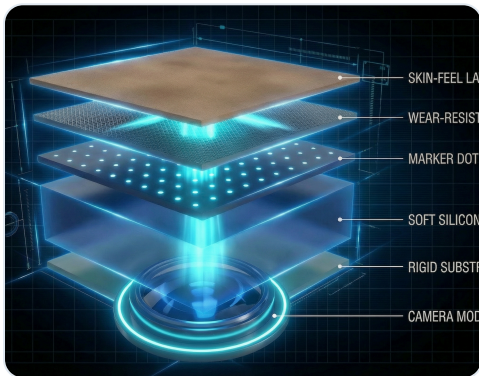
10x

FASTER R&D · AI LAB

90%

MAINTENANCE COST ↓

ENGINEERED 5-LAYER VISUOTACTILE CONTACT SYSTEM



5	Skin-Feel Layer	PU soft · Biomimetic surface · Tunable tactile feel
4	Wear-Resistant Layer	Hard PU coating · 180–200µm · Abrasion-resistant
3	Marker Dot Layer	Customizable dot-matrix · Precision-engineered
2	Soft Silicone Layer	Shore A 30 · >90% Transparency · Precise deformation
1	Rigid Substrate	PC/PMMA · Optical-grade · Structural support

HILLMAT™ — STANDARDIZED CONTACT LAYERS FOR ROBOTICS



HUMANOID HANDS

Hillmat-Pro

Wear-Resistant · Anti-Static ESD
Dust-Repellent · Industrial Grade



MEDICAL

Hillmat-Medi

Ag+ Antimicrobial · Fluid Barrier
Sterile



FOOD GRADE

Hillmat-Food

FDA Certified · Steam-Safe
Grease-Repellent



CONSUMER

Hillmat-Lite

Hydrophobic · Lightweight · Durable



Strategic Partner: sudo — World's first deployed visuotactile sensor skin

Validated integration with sudo's humanoid platform. Proprietary sensing algorithm. Sensor maintenance reduced 70%+. Production-ready.

The goal is contact. Let's make it reliable.

Custom samples in 2 weeks · International shipping · Mass production in 3 months

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