

advanced
coatings

cleaning and
refurbishment

original parts
manufacturing

quality
assurance

END EFFECTOR

Re-Engineered and Manufactured

Applied Materials Producer™ End Effector

As an end effector manufacturer, NxEdge is committed to applying our engineering resources toward our customers' evolving needs to deliver flexible yet cost effective engineering and manufacturing solutions.

Problem Statement

The original OEM wafer handler robot end effector has a high replacement cost and low durability, causing wafer defects during high-volume CVD production.

NxEdge Solution

Our innovative design features a more robust wafer vacuum seal and vacuum channel cover that alleviates potential vacuum leakage, as experienced in the original design.

- Priced significantly lower than the OEM price.
- Manufactured to require tolerances on all critical surfaces, with a more durable vacuum channel cover that increases the tool-up time and decreases the potential for vacuum leakage with wafer damage during processing, resulting in increased product yields.
- In-house semiconductor grade anodizing ensures high material integrity and quality.
- Each unit is individually vacuum checked and certified by NxEdge.
- Retrofitting service for original OEM end effectors with NxEdge engineered upgrades. We will also supply customers with new, re-engineered units.

Installed Base

The NxEdge re-engineered end effector is currently installed and performing well at major North American IDMs, where it has lowered maintenance costs and increased production yields.



Integrated Capabilities

NxEdge in-house operations and processes enable us to perform multiple steps to deliver high-quality, completed parts with rapid turn-around time and lower overall cost. We offer end-to-end component design, plasma and other advanced coatings, precision manufacturing, and testing all under one roof, providing you with the convenience and assurance of one point contact.

Quality Assurance & Engineering

NxEdge is committed to meeting the high quality standards that our customers demand. Our coating and manufacturing operations are ISO-certified. We continuously work to refine processes and invest in our workforce to maintain excellence in quality management and operational efficiency.

At NxEdge, we are equally committed to applying our engineering resources toward our customers' evolving needs. Novel coatings, specialized hardware engineering, process design and optimization, and materials science R&D are all part of our ongoing efforts to provide flexible solutions.



ISO 9001:2001



This product is manufactured at our Boise, Idaho, location whose quality system is registered as an ISO 9001:2000 facility.

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