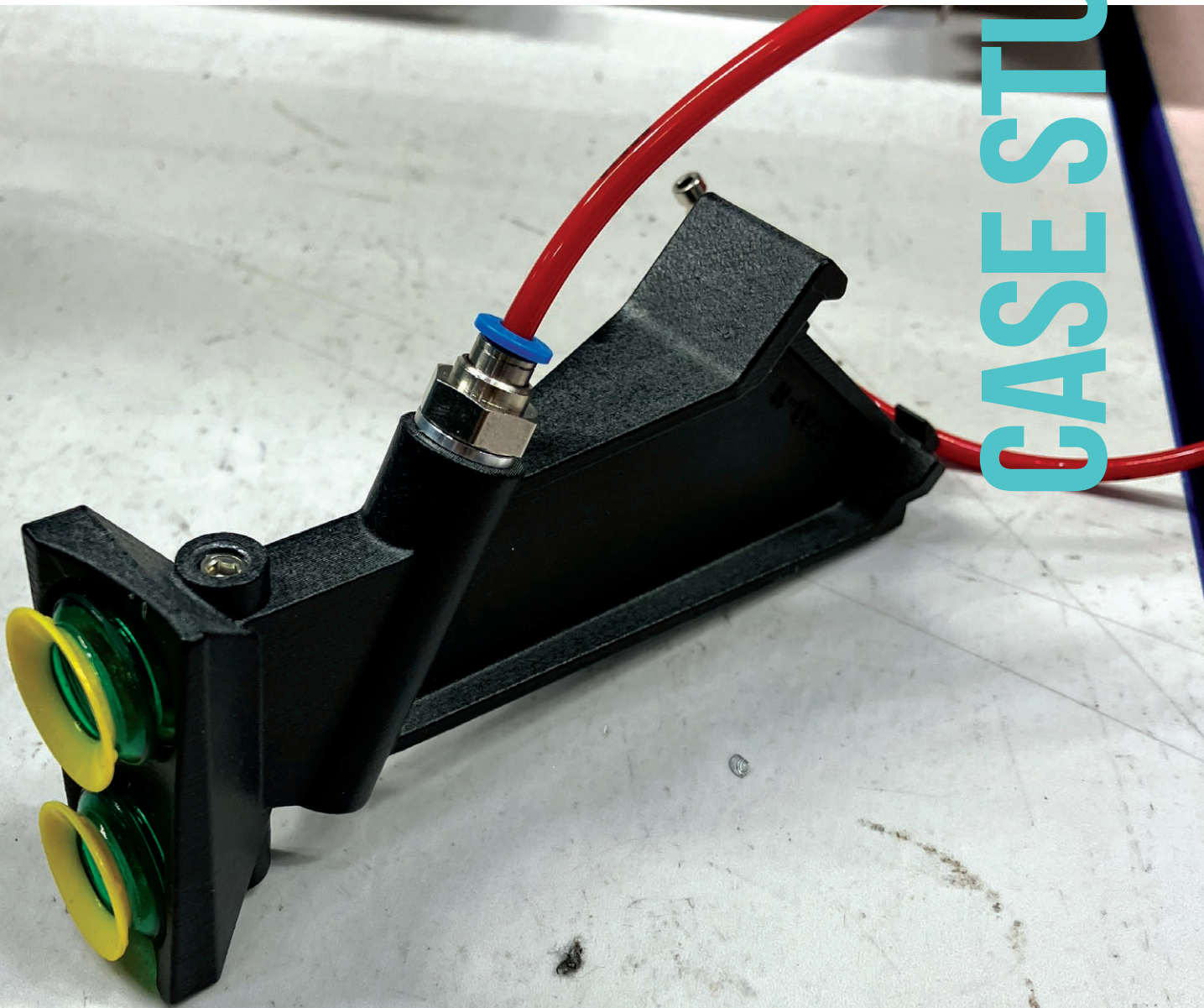




Norden's Pick & Place Format part: Accelerating production with 3D printing and surface finishing



Industry

Production Machinery



Material

PA12, manufactured using MJF (Multi Jet Fusion) technology.

Norden opted for 3D printing when manufacturing a new design of their Pick & Place format part. By using additive manufacturing instead of traditional methods, they could significantly reduce the lead time and production cost of the part.

About the Application

Norden designed and manufactured the Pick & Place Format part to fit into their tube production line. The part transfers vacuum through internal channels for precise tube handling.

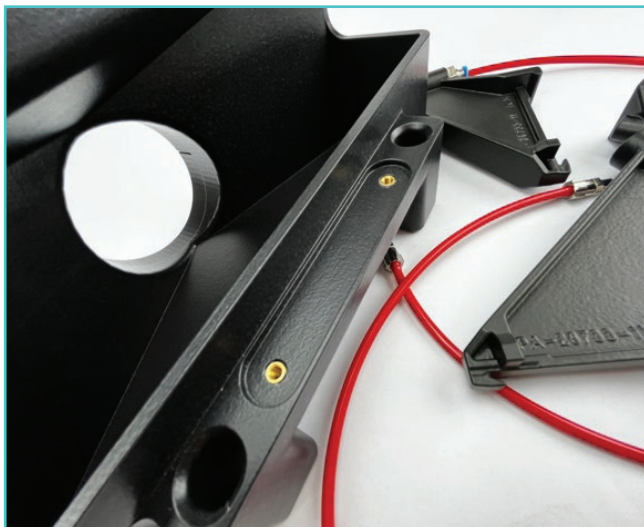
Challenge & Solution

The original design required multiple components and complex geometries, resulting in long lead times and higher costs.

3D printing these parts, streamlined the design into a single, lightweight component, eliminating the need of additional machining and reducing production time and cost.



Pick & Place Format part before PostPro Vapor Smoothing



Pick & Place Format part after PostPro Vapor Smoothing

The Difference Made by PostPro Vapor Smoothing

For components used in production machinery, surface quality directly affects hygiene, safety, and long-term performance. To meet these requirements, AMT PostPro vapor smoothing was applied, delivering the following key advantages:

- **Improved cleanability:** The sealed surface resists buildup and makes daily cleaning easier and more effective.
- **FDA compliance:** Using PostPro Pure supports compliance with food contact standards, provided the base materials are suitable.*
- **Expanded application range:** Smoother surfaces enable safe use in areas where hygiene, wear resistance, and surface consistency are critical.
- **Reduced friction:** The refined, smooth surface reduces friction and wear, and contributes to a more professional product finish.

Conclusion

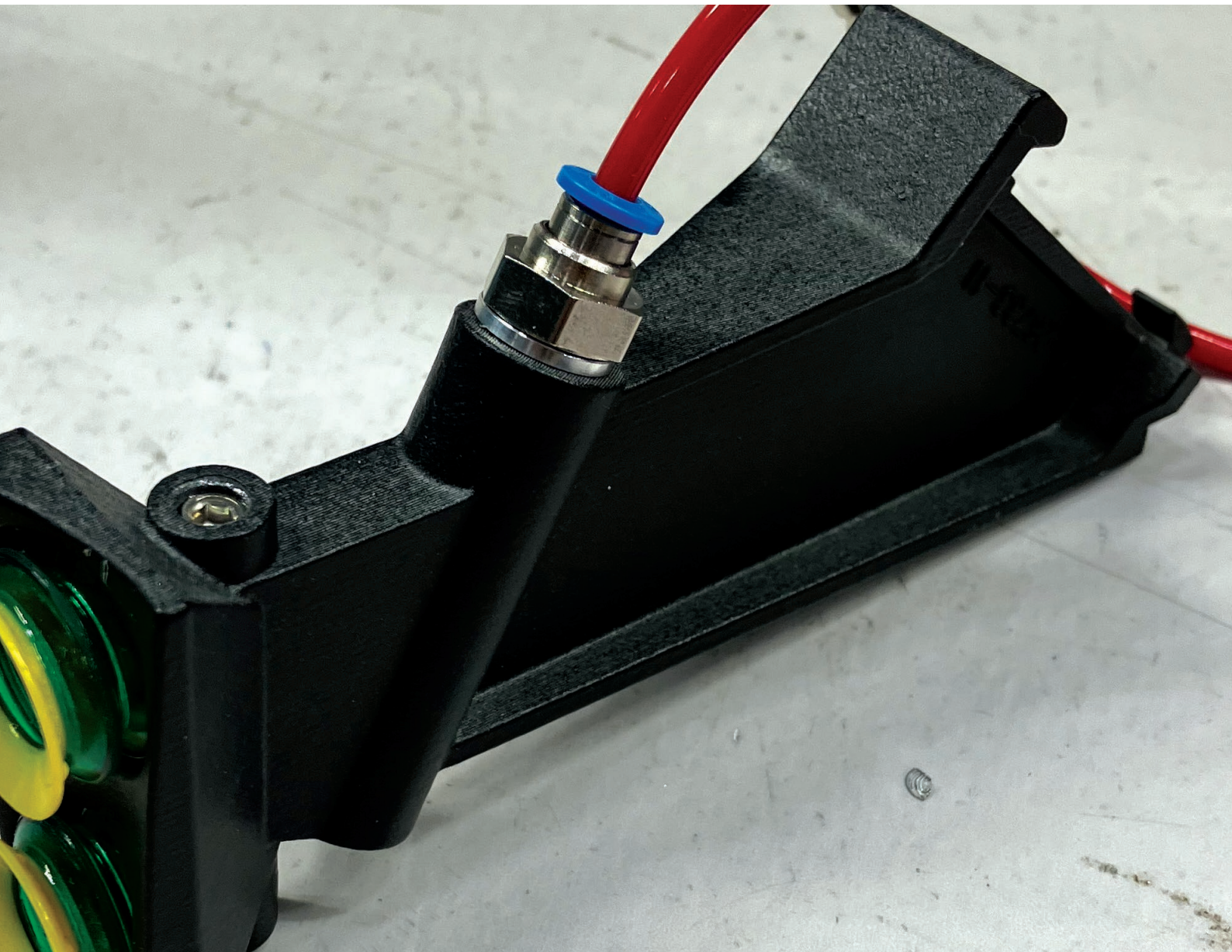
By shifting to 3D printing and vapor smoothing, Norden simplified their workflow, cut costs, and improved product quality.

This enabled a more efficient and hygienic production of parts, setting a new benchmark for performance in production machinery.

Benefits of Vapor Smoothing for Production Machinery Applications:

- ✓ Easy cleanability & FDA compliance to meet industry standards
- ✓ Reduced friction, improving operational performance
- ✓ Consistent quality across scaled production

*AMT cannot verify or take responsibility for the regulatory compliance of the original 3D printing material. Customers must ensure that the materials used meet the relevant food contact regulations for their final application.

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