

Mini-Extruder Transition Guide - Mini-Extruder Pro Launch & Legacy Product Phase-Out

The Mini-Extruder Pro has been redesigned to improve durability, ease of use, and overall user experience—while maintaining the performance customers rely on.

Overview

The Mini-Extruder Pro represents an evolution of the existing Mini-Extruder system, with targeted improvements to durability, ease of use, and overall reliability.

These updates are based on customer feedback and are designed to address common challenges such as syringe breakage, leakage, and assembly complexity.

Importantly, the **core function and intended use of the Mini-Extruder remain unchanged.**

What's in this document

- **Key design improvements** – what changed and why
- **What has NOT changed** – what remains the same
- **Compatibility overview** – guidance on interchangeable vs. non-compatible parts
- **Transition timeline** – key dates and support period
- **Parts impact summary**
 - Discontinued parts
 - Unchanged components
 - New and replacement parts
- **Customer guidance** – recommended next steps

Key Design Improvements

1. Redesigned Syringe System (Primary Change)

The most significant update is a redesigned syringe assembly intended to improve durability and usability.

- Stronger syringe-to-needle interface to reduce breakage
- Transition to a **standard luer-lock connection**, aligned with common laboratory equipment
- Simplified design replacing multiple components with a more integrated system
- Fewer small components, reducing the risk of loss and simplifying handling

2. Updated Extruder Components

To support the new syringe design, several system components have been updated:

- Modified heating/holding block to improve fit and guide proper assembly
- Updated membrane support geometry to match new syringe interface
- Consolidation of components to reduce complexity and improve durability

3. Overall System Improvements

- Reduced number of components simplifies assembly and cleaning
- Improved durability of critical components
- Enhanced alignment during use to reduce user error
- Improved overall user experience

What Has NOT Changed

- The **core extrusion process and workflows remain the same**
- The **intended use and performance characteristics are unchanged**
- Many consumables (e.g., membranes) and supporting components remain compatible

Compatibility Overview

The Mini-Extruder Pro introduces updates that affect compatibility between certain components.

- Not all legacy components are compatible with the new system
- Changes are primarily related to:
 - Syringe assemblies
 - Syringe-related components
 - Membrane support components

To reduce confusion:

- Legacy and new parts are clearly differentiated through updated product numbers and labeling
- Detailed part mapping is provided in the tables below

Transition & Product Lifecycle

Timeline:

- Mini-Extruder Pro launches:
 - **Beginning July 6, 2026** in the US
 - **Beginning September 2026** outside the US (via MilliporeSigma)
- Legacy Mini-Extruder Kits are discontinued when the Mini-Extruder Pro launches
- Legacy Mini-Extruder components will be supported through March 31, 2027

To ensure a smooth transition:

- Mini-Extruder Pro will replace the existing Mini-Extruder platform
- A controlled overlap period is in place to allow continued support of legacy products
- Legacy components will be supported through March 31, 2027, with final phase-out based on inventory availability

This approach is designed to:

- Minimize disruption
- Reduce the risk of incorrect part selection
- Provide sufficient time for customers to transition

Parts Impact Summary

1. Products being discontinued

These items will continue to be supported through March 31, 2027.

These items are compatible ONLY with the legacy mini-extruder system.

Avanti Material Name	Legacy Code	Legacy SKU	SAP Code	SAP SKU
Extruder set with holder/heating block	610000	610000-1EA	A81000Q	A81000Q/0001/4B64E
Mini extruder only	610020	610020-1EA	A81020Q	A81020Q/0001/4B68E
Extruder set without holder/heating block	610023	610023-1EA	A81023Q	A81023Q/0001/4B64E
Extruder heating block	610024	610024-1EA		
Plunger assembly (1000uL)	610032	610032-1EA	A81032Q	A81032Q/0001/4B65E
PTFE seal	610035	610035-1EA	A81035Q	A81035Q/0001/4C11E
Syringe (1000uL)	610017	610017-1EA	A81017Q	A81017Q/0001/4B65E
Syringe screw cap	610033	610033-1EA	A81033Q	A81033Q/0001/4C11E
Membrane support - PTFE	610025	610025-1EA	A81025Q	A81025Q/0001/4C11E
Plunger assembly (250uL)	610031	610031-1EA	A81031Q	A81031Q/0001/4B65E
Syringe needles (3 pack)	610036	610036-1EA	A81036Q	A81036Q/0001/4C16E
Forceps 316SS	610001	610001-1EA	A81013Q	A81013Q/0001/4C16E
Extruder washer - PTFE	610019	610019-1EA	A81019Q	A81019Q/0001/4C11E

2. New products being added or replacing legacy components

The list of items below will replace the corresponding Legacy Mini-Extruder parts as outlined.

These items are compatible ONLY with the Mini-Extruder Pro system.

Avanti Description	SAP Code	SAP SKU	Replacing Legacy Code	Replacing Legacy SKU
Luer Syringe assembly, 250uL	A81450Q	A81450Q/0001/4B65E	610015	610015-1EA
Luer Syringe assembly, 1mL	A81451Q	A81451Q/0001/4B65E	610017	610017-1EA
Replacement Leur Syringe Needles, 6 pack	A81453Q	A81453Q/0001/4C16E	610036	610036-1EA
Leur Syringe Plunger Assembly, 1mL	A81454Q	A81454Q/0001/4B65E	610032	610032-1EA
Leur Syringe Plunger Assembly, 250uL	A81455Q	A81455Q/0001/4B65E	610031	610031-1EA
Mini Extruder Pro Kit with Base	A81411Q	A81411Q/0001/4B64E	610000	610000-1EA
Mini Extruder Pro (no Base)	A81412Q	A81412Q/0001/4B68E	610023	610023-1EA
Membrane Supports - PTFE (set of 2)	A81420Q	A81420Q/0001/4C11E	610025	610025-1EA
Extruder base for Mini Extruder Pro	A81441Q	A81441Q/0001/EEEEEE	610024	610024-1EA

3. Products remaining unchanged

The list of items below will remain unchanged and are compatible with BOTH the Legacy Mini-Extruder system and the Mini-Extruder Pro system.

Avanti Description	Legacy Code	Legacy SKU	SAP Code	SAP SKUs
Extruder casing - Stainless Steel	610026	610026-1EA	A81026Q	A81026Q/0001/4B68E
O-rings for Extruder	610018	610018-1EA	A81018Q	A81018Q/0001/4C11E
Filter supports	610014	610014-1EA	A81014Q	A81014Q/0001/EEEEEE
PC MEMBRANES 0.03MM	610002	610002-1Ea	A89003Q	A89003Q/0001/4B67E
PC MEMBRANES 0.05MM	610003	610003-1Ea	A89005Q	A89005Q/0001/4B67E
PC MEMBRANES 0.08MM	610004	610004-1EA	A89008Q	A89008Q/0001/4B67E
PC MEMBRANES 0.1MM	610005	610005-1Ea	A89010Q	A89010Q/0001/4B67E
PC MEMBRANES 0.2MM	610006	610006-1Ea	A89020Q	A89020Q/0001/4B67E
PC MEMBRANES 0.4MM	610007	610007-1Ea	A89040Q	A89040Q/0001/4B67E
PC MEMBRANES 0.8MM	610009	610009-1Ea	A89080Q	A89080Q/0001/4B67E
PC MEMBRANES 1.0MM	610010	610010-1Ea	A89100Q	A89100Q/0001/4B67E

Guidance for Customers

- Existing systems can continue to be used without immediate changes
- Customers should avoid mixing incompatible legacy and new components
- For new purchases or replacements, transition to Mini-Extruder Pro components is recommended

Additional support and guidance are available upon request. If you have questions about compatibility, replacement parts, or transitioning to the Mini-Extruder Pro, our team is available to assist at technical@avantiresearch.com.