



New arrivals for the LC-MS Tool family



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Three new LC-MS Tools, all equipped with Smart Syringes.



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The widely used LC-MS Tool is part of a family of tools now. PAL System is introducing 3 new LC-MS Tools, all equipped with Smart Syringes. These tools are compatible with the PAL RSI and RTC series.

The new LC-MS Tools will be offered with a 100 µL or 250 µL syringe. Two needle lengths will be available. The standard 51 mm needle is suitable for most applications. With this needle length vials can be penetrated with a maximum depth of 42 mm. The two tools equipped with short needle are:

PAL3-TH-SLCMS-P-100*; replaces PAL3-TH-SLCMS-P	(short 51 mm needle with 100 µL syringe)
PAL3-TH-SLCMS-P-250*	(short 51 mm needle with 250 µL syringe)

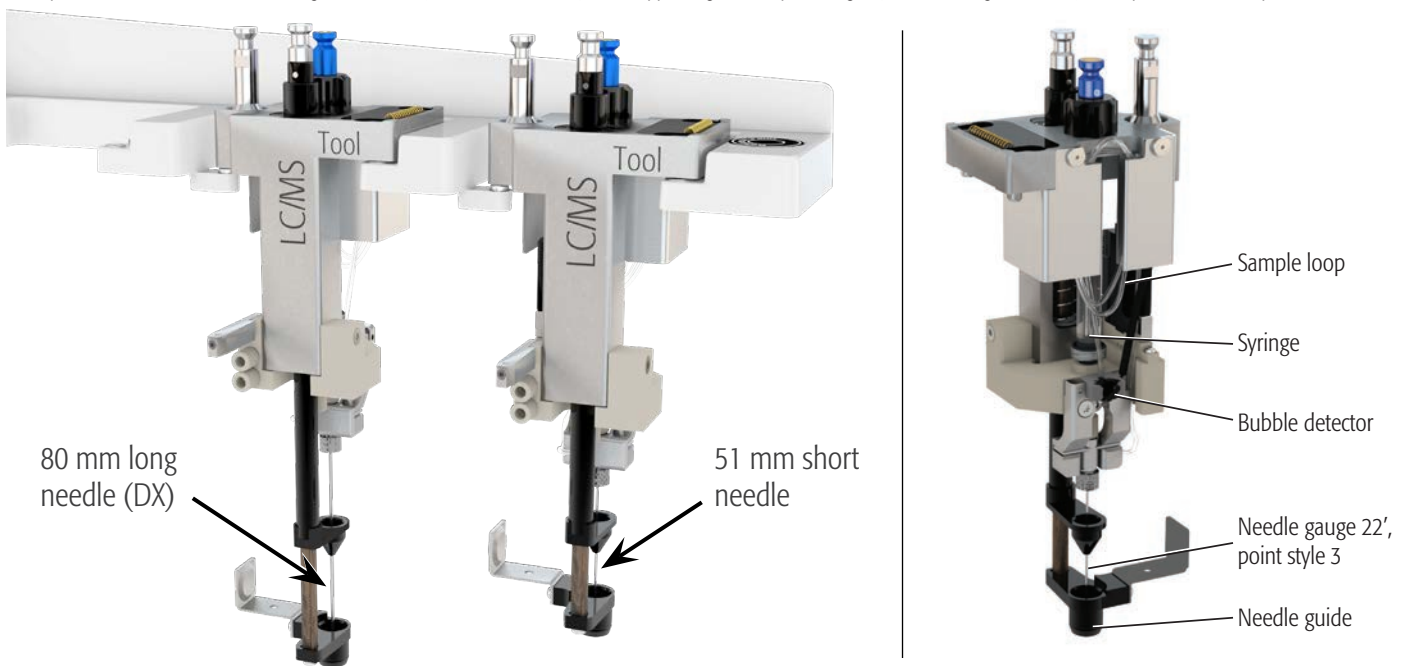
In applications requiring higher penetration depths or strong septa caps, e.g. when dealing with blood tubes (e.g. Vacutainer™) or deep vials, the tools equipped with an 80 mm long, reinforced needle are recommended, allowing a maximum penetration depth of 70 mm:

PAL3-TH-SLCMS-P-100DX**; replaces PAL3-TH-SLCMS-P80	(80 mm long, reinforced needle with 100 µL syringe)
PAL3-TH-SLCMS-P-250DX**	(80 mm long, reinforced needle with 250 µL syringe)

Minimum FW 2.4.52

* Requires LCMS Wash Module (PAL3-WashLCMS)

** Requires LCMS Wash Module with longer inner liner (PAL3-WashLCMS-DX), and support legs of adequate height (minimum length: 26.5 cm) to be positioned in the park station



Feature:	Benefit:
Two wash solvents	Lowest carryover
Bubble sensor	Injection verification, process safety
Smart Syringe	Monitoring of tool status, process safety
Variable needle lengths and penetration depths	Access to longer containers (e.g. Vacutainer)
250 µL max injection volume	Expanded working range
Reinforced 80mm needle	Pierces even thick septa

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