

# YMC UHPLC Capillary Columns



# YMC

## For MicroLC and NanoLC Applications

Miniaturisation of liquid chromatography in combination with mass spectrometry has several advantages including improvements in sensitivity, especially at low concentration levels and dramatically reduced solvent consumption, compared to conventional HPLC or UHPLC. With further method optimisation, run time can also be reduced and therefore more solvent or time can be saved. To meet the requirements of MicroLC/NanoLC YMC offers capillary columns especially designed for rapid high-resolution gradient chromatography.



### Selectivity:

- All fully porous YMC phases available
- Phases for RP, NP, HILIC, chiral LC and SEC
- Variety of dimensions
- Particles from 1.9 to 5  $\mu\text{m}$

### Sensitivity:

- Extremely low sample volumes and flow rates
- Compatible with most Micro-/NanoLC/MS systems
- Guard columns, also for trapping/desalting

### Robustness:

- Long column lifetimes
- Exceptional column-to-column reproducibility
- Excellent lot-to-lot reproducibility

## Available Dimensions\*

Inner Diameters ( $\mu\text{m}$ )	Lengths (mm)		
500	75		
300		50	
100		100	
75		150	

Particle Sizes ( $\mu\text{m}$ )			
1.9	3.0	2.0	5.0

\*Not all dimension/particle size combinations are possible.

Other dimensions are available on request.

## Overview

- Compatible with several Nano-/MicroLC/MS systems; e.g. Eksigent/Sciex (M5/ExpressLC ultra/Ekspert MicroLC 200), Shimadzu (Nexera Mikros) or Waters ACQUITY UPLC M-Class
- Suitable for extremely low sample volumes and low flow rates
- Fused silica inner body
- Stainless steel outer body for microLC columns (0.3 / 0.5 mm ID)
- Polymer coating is used for nanoLC columns (0.1 / 0.075 mm ID)

## Stationary Phases for Capillary Columns

	Reversed Phase	Normal Phase & HILIC	SEC
YMC-Triart C18	✓		
YMC-Triart C18 EXRS	✓		
YMC-Triart Bio C18	✓		
Hydrosphere C18	✓		
J'Sphere ODS	✓		
YMC-Pack ODS-A	✓		
YMC-Pack ODS-AL	✓		
YMC-Pack ODS-AM	✓		
YMC-Pack ODS-AQ	✓		
YMC-Pack Pro C18	✓		
YMC-Pack Pro C18 RS	✓		
YMC-Triart C8	✓		
YMCBasic	✓		
YMC-Pack C8	✓		
YMC-Triart Bio C4	✓		
YMC-Pack C4	✓		
YMC-Pack Pro C4	✓		
YMC-Triart PFP	✓		

	Reversed Phase	Normal Phase & HILIC	SEC
YMC-Triart Phenyl	✓		
YMC-Pack PH	✓		
YMC Cardenoid			
YMC PAH	✓		
YMC-Pack CN	✓		
YMC-Pack TMS	✓		
YMC-Pack CN		✓	
YMC-Pack Diol-NP		✓	
YMC-Pack NH2		✓	
YMC-Pack Polyamine II		✓	
YMC-Pack PVA-SIL		✓	
YMC-Pack SIL		✓	
YMC-SEC MAB			✓
YMC-Pack Diol SEC			✓
YMC-Triart Diol-HILIC			✓

Most YMC Stationary Phases are available in capillary columns.  
Visit [www.ymcamerica.com/capillary](http://www.ymcamerica.com/capillary).

### Connection Options

All columns are available with 2 connection options:

- 1/16" connections (10-32 thread), e.g. for Shimadzu Nexera Mikros or Waters M-Class
- 1/32" connections (6-40 thread) for Eksigent/Sciex



### Guards & Couplers

A custom-made stainless-steel column coupler is included with every pack of 3 capillary guard cartridges to guarantee the optimum connection with low dead volume. Couplers can also be purchased separately.

Scan the QR code for more information & applications



You can also access the brochure via this link:  
<https://www.ymcamerica.com/resource/ymc-capillary-columns/>



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