

INSIGHT. INNOVATION. ENTHUSIASM.

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HPLC

Columns



SYNTHESIS • PURIFICATION

Rapid and reproducible packing
for any media.

Fit Matters.

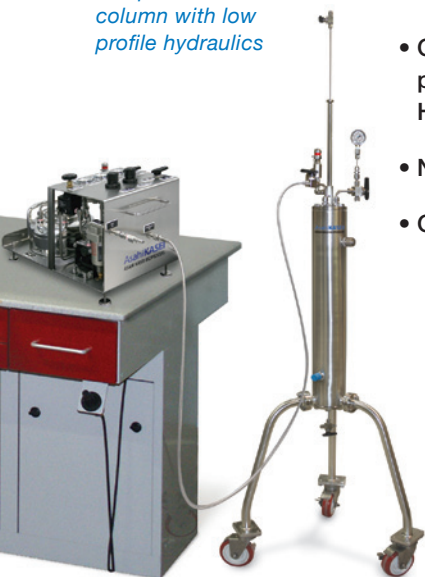
Packing. Separating. Unpacking. These are the fundamental tasks for dynamic axial compression HPLC columns in today's preparative-to-production scale, high-pressure chromatographic purifications.

Need MPLC?

Will 20bar pressure rating suffice for your purification? Ask us about our medium-pressure dynamic axial compression columns. All of the characteristics of our HPLC column, simply with a lower pressure rating.

Low Height Requirement

10cm dynamic axial compression HPLC column with low profile hydraulics



At Asahi Kasei Bioprocess, we don't take the fundamentals for granted. We work to simplify every aspect of your purification process. Take advantage of optimized flow distribution for your most challenging separation. Unpack your column quickly and safely with our customizable solutions.

Whether you are packing a reverse-phase silica gel for your large-scale peptide purification, normal-phase silica gel for your API purification, or a small-bead polymeric gel for that difficult oligo separation, we have the column for you.

Highest-performance column packing

- Reproducibly pack your column in minutes
- Eliminate voids and channels in the packed bed
- CAD-modeled "active" flow distribution provides higher column performance (lower HETP or higher N) and lower pressure drop
- No flow disruption of the packed bed
- Optimized column efficiency

Easy to use

- "Hoist-free" operation—replace both frits without the use of an overhead hoist or lift—designed for use in clean rooms or purification suites with low overhead clearance
- Unique frit design is less susceptible to clogging and can be replaced in minutes without liquid nitrogen chilling
- Slurry inlet port for loading of slurry without removing column top or piston
- Internal leak detection option for seal quality assurance
- Varying bed heights can be packed in any column
- Unpack your column in minutes

Compliant with our industry's demanding standards

- Scalability from 5cm i.d. to 100cm i.d. or higher
- Multipurpose design—suitable for reverse-phase, normal-phase, chiral, irregular and spherical packing materials
- Suitable for batch chromatography or simulated moving bed
- Properly engineered design—not a flanged tube, but a hydraulic cylinder for smooth, consistent piston movement

- 316L stainless steel construction with highly fluorinated, FDA-compliant seals that are compatible with all mobile phases
- Electropolishing standard
- Jacketed options available for column temperature control
- Full material traceability for all stainless steel product contact parts
- ASME code stamp option available
- CE Pressure Equipment Directive compliance available
- USP Class VI and non-animal-derived seal certification available

Customize your columns to meet your specific needs

- Custom designed columns at pressures of 100bar or higher are available
- Custom diameters and lengths are available
- Custom designs to fit into walk-in fume hoods or other tight spaces are available

Warranty and technical support

- One-year extendable warranty, service contracts and 24-hour response time for peace of mind and fast support when you need it
- Partner companies throughout Europe and Asia for reliable worldwide tech support

Other Asahi Kasei Bioprocess products and services for the Pharma, TIDES and BIO industries

- HPLC skid systems
- Knauer preparative HPLC systems
- Simulated moving bed systems
- IBD™ in-line buffer dilution skids with Adaptive PAT™
- TechniPur™ chromatography packing materials
- Process development, scale-up and tech transfer support
- Equipment validation services (IQ/OQ and GAMP-5)

Dynamic Axial Compression HPLC Columns

Catalog #	Product Specification	Pressure Rating	Assembly Type
HP5x50	5cm i.d. x 50cm L	100bar	Legs + Low-Profile Hydraulics
HP5x70	5cm i.d. x 70cm L	100bar	Legs + Low-Profile Hydraulics
HP5x100	5cm i.d. x 100cm L	100bar	Legs + Low-Profile Hydraulics
HP6x50	6cm i.d. x 50cm L	100bar	Legs + Low-Profile Hydraulics
HP6x70	6cm i.d. x 70cm L	100bar	Legs + Low-Profile Hydraulics
HP6x100	6cm i.d. x 100cm L	100bar	Legs + Low-Profile Hydraulics
HP7.5x50	7.5cm i.d. x 50cm L	100bar	Legs + Low-Profile Hydraulics
HP7.5x70	7.5cm i.d. x 70cm L	100bar	Legs + Low-Profile Hydraulics
HP7.5x100	7.5cm i.d. x 100cm L	100bar	Legs + Low-Profile Hydraulics
HP10x50	10cm i.d. x 50cm L	100bar	Legs + Low-Profile Hydraulics
HP10x70	10cm i.d. x 70cm L	100bar	Legs + Low-Profile Hydraulics
HP10x100	10cm i.d. x 70cm L	100bar	Legs + Low-Profile Hydraulics
HP15x50	15cm i.d. x 50cm L	70bar	Legs + Low-Profile Hydraulics
HP15x70	15cm i.d. x 70cm L	70bar	Legs + Low-Profile Hydraulics
HP15x100	15cm i.d. x 100cm L	70bar	Legs + Low-Profile Hydraulics
HP20x50	20cm i.d. x 50cm L	70bar	Legs plus hydraulic cart
HP20x70	20cm i.d. x 70cm L	70bar	Legs plus hydraulic cart
HP20x100	20cm i.d. x 100cm L	70bar	Legs plus hydraulic cart
HP30x50	30cm i.d. x 50cm L	70bar	Legs plus hydraulic cart
HP30x70	30cm i.d. x 70cm L	70bar	Legs plus hydraulic cart
HP30x100	30cm i.d. x 100cm L	70bar	Legs plus hydraulic cart
HP40x50	40cm i.d. x 50cm L	70bar	Legs plus hydraulic cart
HP40x70	40cm i.d. x 70cm L	70bar	Legs plus hydraulic cart
HP40x100	40cm i.d. x 100cm L	70bar	Legs plus hydraulic cart
HP60x50	60cm i.d. x 50cm L	70bar	Legs plus hydraulic cart
HP60x70	60cm i.d. x 70cm L	70bar	Legs plus hydraulic cart
HP60x100	60cm i.d. x 100cm L	70bar	Legs plus hydraulic cart
HP80x50	80cm i.d. x 50cm L	70bar	Legs plus hydraulic cart
HP80x70	80cm i.d. x 70cm L	70bar	Legs plus hydraulic cart
HP100x70	100cm i.d. x 70cm L	70bar	Legs plus hydraulic cart

- Worldwide install base throughout US, Europe and Asia