

# BIOPROCESS

Columns



CLARIFICATION • CAPTURE • POLISHING • VIRAL FILTRATION • CONCENTRATION

[www.ak-bio.com](http://www.ak-bio.com)

**AsahiKASEI**  
ASAHI KASEI BIOPROCESS

Rapid and reproducible packing and unpacking of any media for your biopharmaceutical purification.

# Fit Matters.

Packing, separating proteins, unpacking—these fundamental tasks are shared by all clinical and commercial manufacturing scale purification columns. The right design can make all the difference.

At Asahi Kasei Bioprocess, we work to simplify every aspect of your column step. With our bioprocess columns, you get the advantage of a built-in, nozzle-less packing device. You get gentle treatment of your resin to extend its lifetime. You can unpack your column more quickly and with less buffer than you thought possible.

Whether you are packing a large bead soft gel, a small polymeric bead or even a difficult ceramic hydroxyapatite resin, see how much better packing, separating and unpacking can be with Asahi Kasei Bioprocess.

## DYNAMIC AXIAL COMPRESSION BIOPROCESS COLUMNS

### Simple, elegant column packing and unpacking

- Easily transfer slurry into the column slurry inlet port
- Compress gels gently with regulated air at predefined pressures
- Reproducibly pack your column in minutes
- Requires no packing station or nozzles
- Unpack your column by expressing the gel out of slurry outlet ports with a piston
- Unpack you column in minutes, using minimal buffer

### Easy to use

- “Hoist-free” operation—replace both frits without the use of an overhead hoist or lift
- Unique open-path frit design is less susceptible to clogging and can be replaced in minutes
- No need to remove the column top or piston for packing
- Internal leak detection option for seal quality assurance
- Varying bed heights can be packed in any column

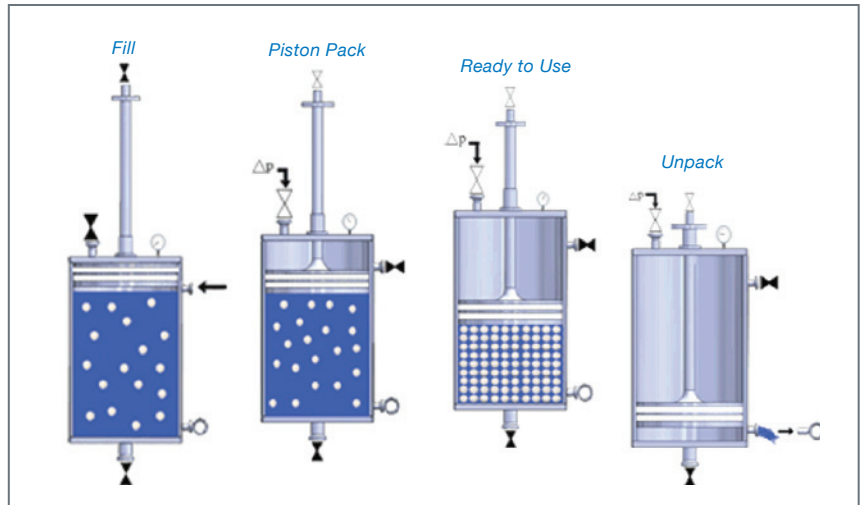
### Compliant with our industry's demanding standards

- 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
- Scalability up to 2m i.d.
- Multipurpose design—suitable for affinity, ion exchange, HIC or gel filtration resins



30cm bioprocess column

- 316L stainless steel construction with EPDM or optionally 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



Column operation

#### 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 BIO industry.

- Planova™ filters
- Viral filtration systems
- AGPTS Planova™ gold particle integrity-test systems
- IBD™ inline buffer dilution skids with Adaptive PAT™
- Bioprocess chromatography systems
- Process development, scale-up and tech transfer support
- Equipment validation services (IQ/OQ & GAMP-5)

#### Standard Bioprocess Columns

Catalog #	Product Specification	Pressure Rating	Operation Mode
LP10x50	10cm i.d. x 50cm L	6bar	Dynamic Axial Compression
LP15x50	15cm i.d. x 50cm L	6bar	Dynamic Axial Compression
LP20x50	20cm i.d. x 50cm L	6bar	Dynamic Axial Compression
LP30x50	30cm i.d. x 50cm L	6bar	Dynamic Axial Compression
LP40x50	40cm i.d. x 50cm L	6bar	Dynamic Axial Compression
LP60x50	60cm i.d. x 50cm L	6bar	Dynamic Axial Compression
LP80x50	80cm i.d. x 50cm L	6bar	Dynamic Axial Compression
LP100x70	100cm i.d. x 70cm L	6bar	Dynamic Axial Compression
LP120x70	120cm i.d. x 70cm L	5bar	Dynamic Axial Compression
LP140x70	140cm i.d. x 70cm L	5bar	Dynamic Axial Compression

- Custom diameters (up to 2m i.d.), lengths and pressure ratings available
- Hydraulic cart available to assist with hoist-free operation
- Bed lengths can typically be packed up to approximately 65% of the column length
- Worldwide install base throughout US, Europe and Asia

# INSIGHT. INNOVATION. ENTHUSIASM.

## North America

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