

# DAU-50

For medicine, chemistry, and food preparation

DAU series

## Preparative Dynamic Axial Compression Column

Model DAU-50 is an automatic packing column developed for high-pressure preparation. Constant pressurization of the packed bed enables self-packing of a high-durability column without creating voids. The slurry port enables operation by the closed system from supplying of gel to pressurized packing with ease.

Higher sealing performance is achieved by a uniquely developed sealing structure (Japanese Patent No. 3929407). It can be used in a packing cycle for long periods. This column is entirely free from electric parts and therefore, safety use in explosion-proof area is possible. The column, manufactured in Japan, corresponds to IQ/OQ validation. We ensure a thorough support system for the maintenance and supply of consumables.

It is possible to select from various packing materials depending on the preparative object. Preparation and purification will be realized to your satisfaction together with a group of products designed exclusively by YMC.

Main Characteristics	
Product number	DAU-50-700S
Inner diameter	50 mm
Packed bed length	100 - 400 mm
Maximum pressure	10 MPa
Compression	Constant pressurization
Temperature	10 - 40 deg C
Installation height	Over 2.3 m
Dimensions	700(W) × 600(D) × 1800(H) mm
Weight	About 70 kg
Utility	0.5 MPa dry air
Maximum Packing material	500 g

**Recommended packing material:**  
Silica-based packing material (spherical/irregular) 10 μm and larger

**Resistance to solvent:**  
Ordinary solvents used in reverse phase and normal phase HPLC



DAC COLUMN FOR PREPARATIVE HPLC

## Specifications

Name		Preparative Dynamic Axial Compression Column DAU-50
Product number		DAU-50-700S
Body	Size	Inner diameter = $\phi$ 50 mm, Length = 700 mm
	Inner finishing	Electrolytic polishing after honing process
	Roughness	Ra $\leq$ 0.5
Filter	Material	SUS316L (Sintered filter)
	Frit size	2 $\mu$ m
Seal	Material	PTFE
	Type	Uniquely developed sealing structure
	Feature	V-packing seals effectively in response to inner pressure of column. Easy replacement
Cylinder	Source	Airdriven hydraulic pump
	Type	Stainless steel rod, Oil cylinder
Operation	Switching valve	Change orientation of Cylinder alignment (UP, DOWN, HOLD)
	Pressure Regulator	Adjust pressure of Oil pump
	Pressure meter	Monitoring air operation and oil pressure
Wetted material		SUS316, SUS316L, PTFE, PEEK
Connection	Inlet/Outlet	1/8" Swagelok tube fitting
	Slurry port	ISO 15A Sanitary ferrule
	Air	$\phi$ 6 One-touch fittings

## Option

Slurry Container	Feature	Slurry can be carried in closed system.
	Product number	SC-2-20
	Pump	Airdriven diaphragm pump
	Wetted material	SUS316, SUS316L, PTFE, PFA, FEP
	Inner finishing	Electrolytic polishing
	Connection	Column connection: ISO 15A Sanitary ferrule Air connection: $\phi$ 6 One-touch fittings
Cylinder Oil		USDA, NSF H1 approved oil is available.

**For more information or to place an order, please contact us.  
Please feel free to ask our specialists about products or service.**



[www.ymc-group.com](http://www.ymc-group.com)



[sales@ymc.co.jp](mailto:sales@ymc.co.jp)

### Worldwide Availability

YMC America, Inc.  
www.ymcamerica.com

YMC Europe GmbH  
www.ymc-europe.com

YMC India Pvt. Ltd.  
www.ymcindia.com

YMC Korea Co., Ltd.  
www.ymckorea.com

YMC Shanghai Rep. Office  
www.ymchina.com

YMC Singapore Tradelinks Pte. Ltd.  
www.ymc.sg

YMC Taiwan Co., Ltd.  
www.ymctaiwan.com



### YMC CO., LTD.

YMC Karasuma-Gojo Bldg., 284 Daigo-cho  
Karasuma Nishiiru Gojo-dori, Shimogyo-ku  
Kyoto, 600-8106, Japan  
TEL: +81-75-342-4515 FAX: +81-75-342-4550  
www.ymc.co.jp sales@ymc.co.jp

Distributor