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PEPTIFLEX

Precision. Flexibility. Scalable Peptide Synthesis.

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WE AUTOMATE CHEMISTRY

PeptiFlex™ Semi-Automated Solid Phase Peptide Synthesizer

Precision | Flexibility | Scalable Peptide Synthesis

PeptiFlex is a semi-automated solid phase peptide synthesizer engineered for laboratory and pilot-scale peptide manufacturing. Designed with flexibility, safety, and customization at its core, PeptiFlex bridges the gap between manual synthesis and fully automated production systems.

Why PeptiFlex?

- Semi-automated operation with process safety interlocks
- Interchangeable vessels for multi-scale development
- Skid-mounted, compact, and GMP-ready design
- Customizable automation tailored to your workflow
- Ideal for R&D, process development, and pilot production

KEY FEATURES

Lab & Pilot Scale Design

- Skid-mounted configuration for easy installation and mobility
- Suitable for R&D labs, pilot plants, and scale-up facilities

Interchangeable Reaction Vessels

- Vessel capacity range: 250 mL to 10 L
- Enables smooth scale-up without changing core process logic
- Minimum stirrable volume: 10% of vessel capacity

Component	Material
Jacketed Reaction Vessel	Borosilicate Glass 3.3
Top & Bottom Dish	PTFE
Filter Plate	PE (40–90 µm)
Locking Mechanism	SS Flange Lock Design

Advanced Process Capabilities

Top Dish Configuration

- Overhead stirrer (1 No.) – Automated operation
- PBT stirrer blade for efficient resin mixing
- Solvent inlet ports (2 Nos.) – Automated transfer
- Reagent inlet ports (2 Nos.) – Automated transfer
- Temperature sensor port (1 No.) – Real-time monitoring

Bottom Plate Design

- PE filter plate (40–90 µm) for easy and efficient filtration
- Provision for automated nitrogen bubbling from the bottom
- 8–10 mm drain line compatible with process pump or vacuum

Temperature & Process Control

- Operating temperature range: 0°C to 100°C
- Automated temperature operation
- Optional Temperature Control Unit (TCU)
- Automation with customizable interlocks for enhanced process safety

Ease of Operation & Safety

- SS flange lock design ensures secure locking of top & bottom dishes
- Simplified assembly and disassembly of glass vessels
- Ergonomic design to reduce operator intervention
- Designed for safe handling of solvents and reagents

Customization & Automation

- Automation level configurable as per customer requirement
- Flexible process sequences
- Safety interlocks for critical operations
- Future-ready design for upgrades and expansion

Applications

- Solid Phase Peptide Synthesis (SPPS)
- Process development and optimization
- Pilot-scale peptide manufacturing
- Scale-up studies prior to commercial production
- CRO, CDMO, and pharmaceutical R&D facilities

PeptiFlex™

Designed for Today, Ready for Tomorrow

Whether you are optimizing peptide sequences in the lab or preparing for pilot-scale manufacturing, PeptiFlex delivers reliability, flexibility, and precision all in a compact, semi-automated platform.

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1101, Crescenzo, G-Block, Opp. MCA Club,
Bandra Kurla Complex, Bandra (E), Mumbai - 400 051, India
E: process@borosil.com W: www.borosilscientific.com

Pune Manufacturing Unit:
BOROSIL SCIENTIFIC LTD.
21-24, Plot No. 8, Indialand Global Industrial Park,
Hinjewadi Phase - I, Pune - 411057

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