MIXEL
Mixing Technology

KPM真空混合系统

Vacuum Process Mixer

此系统，可被广泛使用在制药、日化、油脂行业。

This unit is widely applied for pharmaceutical, cosmetics and grease industries.

GMM Pfaudler

KPM真空混合系统Vacuum Process Mixer

主机主要性能
Main performance

容器 / Vessel

—容器结构：三层、全夹套设计带导流板，有效地提高换热面积，使得加热冷却的效率大大改善；
Vessel Construction: Three-layer, full-jacket design with baffles, effectively increasing the heat exchange area and significantly improving the efficiency of heating and cooling.

— 容器保温层覆盖筒体、下封头；
Insulation Layer: Covers the cylinder body and the lower head.

— 可真空、可加压。正压可耐＋2000mbar，负压可至-960mbar。
Pressure Rating: Capable of vacuum and pressure, withstands positive pressure up to +2000 mbar and negative pressure down to -960 mbar.
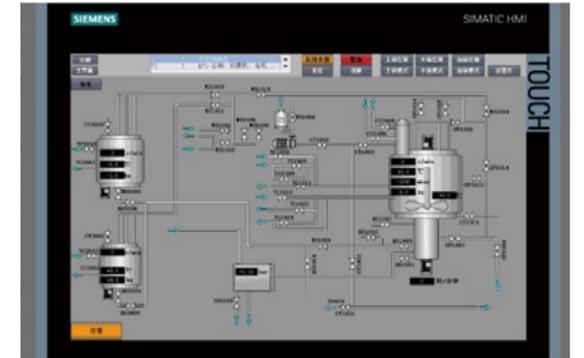
搅拌—变频控制 / Agitator - Frequency Control

— 使用双螺带形搅拌，有效形成物料的轴向流动，提高加热冷却以及混合的效率，改善产品的均匀性和脱气效果。
Uses a double-helix ribbon agitator to effectively create axial flow of the materials, improving the efficiency of heating, cooling, and mixing, while enhancing product homogeneity and degassing effects.

均质机—变频控制 / Homogenizer - Frequency Control

— 内外循环设计，按需自由切换；
Circulation Design: Internal and external circulation design allows for free switching on demand.

— 高流通量，保证物料被均质的统一性；
Flow Rate: High flow rate ensures uniform homogenization of the material.

— 可在任何工况下运行（有料或无料）；
Operating Conditions: run under any condition (with or without material).

— 均质进料，开度可调（0~100%），使得进料速度、反应都有序可控；
Feed Control: Homogenizing feed with adjustable opening (0~100%), making feed speed and reaction orderly and controllable.

— 机械密封自带润滑保护系统，可无料、长时间运转。
Mechanical Seal: Comes with a self-lubricating protection system, allowing for material-free, long-term operation.

加热冷却控制 / Heating and Cooling Control

— 系统设计有上下两个测温点，可有效监控和校对物料上下的温差；
Temperature Monitoring: The system features upper and lower temperature measurement points to effectively monitor and calibrate the temperature difference within the material.

— 温控系统有独立的TCU撬块，PLC控制，可以使得温控的精度在±1℃。
Temperature Control System: Equipped with an independent TCU skid and PLC control, ensuring temperature control accuracy within ±1℃.

— 可视化界面，操作方便；配备西门子PLC和触摸屏。
SIP system is optional.
Visual interface, easy to operate, equipped with Siemens PLC and HMI.

自带CIP系统 / Self-contained CIP system

— 无死角全自动清洗，包含进料口、出料口、真空管路可选SIP系统。
Comprehensive and fully automatic cleaning without any blind spots, covering feed port, discharge port, and vacuum piping.

产品规格及主设备外形尺寸
Size and dimensions of KPM series

主机型号 Size	长(mm) Length	宽(mm) Width	高(mm) Height	重量(Kg) Bare Weight
KPM50	2000	1000	2000	900
KPM100	800	800	2300	800
KPM200	1000	1000	2500	1000
KPM500	1500	1500	3000	2000
KPM1000	1800	1800	3800	3000
KPM2000	2000	2000	4200	4000
KPM3000	2300	2300	4800	6000
KPM5000	3000	3000	5300	9000