

EKATO AGITATORS HWL EKATO 搅拌机 HWL

High performance agitators for extended lifetime,
reduced maintenance and operational costs
高性能搅拌机，长使用寿命、低的维护和运行成本

EKATO

EKATO HWL



EKATO
搅拌技术
公众号

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More than 250,000 EKATO agitators are successfully operating worldwide in various Industrial applications. EKATO's product range consists of efficient and tailor-made industrial agitators, entire agitator systems with reactor vessel, as well as complete process plants, which are individually designed for specific mixing requirements.

超过25万台的EKATO搅拌机成功地在全球各种工业应用中运行。EKATO的产品是高效和为客户定制的工业搅拌机，包括容器的搅拌机系统以及为特殊的混合工艺要求单独设计的成套工艺装置

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- Agitators for System Reliability 系统可靠性高的搅拌机
- State-of-the-art Mixing Equipment 先进的混合设备
- Full Scope of Engineering Services 全面的工程服务
- Lower Maintenance and Operational Costs 低的维护和运行成本



EKATO Agitators Type HWL 搅拌机型号 HWL

八十多年来，EKATO代表了搅拌技术领域高水平的开发和制造技术。无论各种规模和复杂程度的搅拌系统客户的利益和搅拌机的可靠性始终是第一优先考虑的。基于EKATO各种高效的叶轮，针对您的混合要求，您总可以找到优化的搅拌系统，无论您的要求是混合、悬浮、分散、加气、加/去热。为了确保搅拌机高的运行可靠性，机械密封和系统是专门开发的。

HWL搅拌机在EKATO的产品中是最主力的，我们已向客户提供过大型的搅拌机，其驱动功率达3,000 kW，轴长15米， 轴径500 mm。

搅拌机的设计努力确保运行的安全和满足各种应用标准。特殊的拆装装置使机械密封的更换快速和容易。同时，坚固的设计确保低的维护和运行成本。

Features 特点

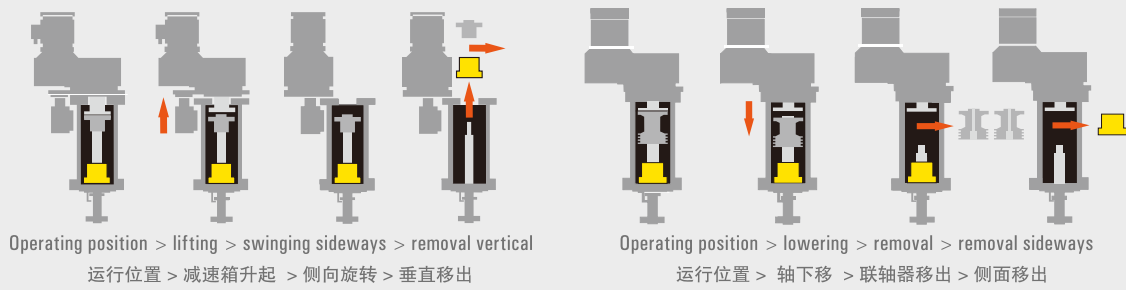
Motor power 电功率机	5 – 3,000 kW
Shaft diameter 轴径	40 – 500 mm
Operating pressure 操作压力	Vacuum / 真空 – 200 bar (g)
Impeller systems 叶轮系统	EKATO high-efficiency impellers and conventional impellers EKATO高效叶轮和传统叶轮
Materials (product wetted) 材质（接触产品）	Carbon steel, rust and acid resistant steels, nickel-base alloy, Duplex and Super Duplex steels, titanium und titanium alloys, rubber coatings, coatings 碳钢、 各种防锈耐酸钢， 镍基合金、双相和超级双相钢， 纯钛和钛合金， 橡胶包覆或其它各种包覆材料

- Drive versions with fixed or variable shaft speeds 定速或可变速驱动
- Different gearbox types (flat, bevel, helical gearbox...) 不同型式的齿轮箱 （平的、成直角的、螺旋线齿轮箱.....）
- Oil supply systems for the gearbox available 可配各种齿轮箱供油系统
- Lanterns of cast or welded design 铸造或焊接的机架
- Fast seal removal sideways and vertical 机械密封快速拆装装置
- Minimized space for maintenance required 所需的维修空间尽可能小
- Split shaft design with bearing shaft and flange coupling 分段轴设计，有轴承轴和法兰联轴器
- Steady bearings or shaft deflection limiting rings 底部轴承或轴限位环



Seal Removal 密封拆出

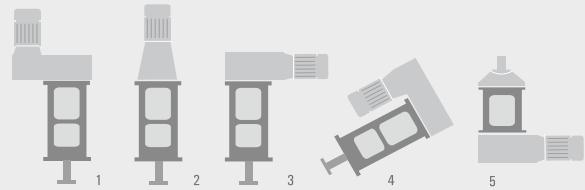
Sideways or vertical
侧面或垂直



Drive & Agitator Arrangements

驱动和搅拌机 安装方式

- 1 Flat gearbox 平齿轮箱
- 2 Geared motor 齿轮电机
- 3 Bevel gearbox 锥齿齿轮箱
- 4 V-belt drive V-型皮带驱动
- 5 Bottom entry bevel gearbox 底进锥齿齿轮箱



- A Internal flexible coupling 内置弹性联轴器
- B Gearbox 齿轮箱
- C Lift & swivel system 提升旋转装置
- D Flange coupling 法兰联轴器
- E Seal supply system 密封液系统
- F Bearing housing 轴承座
- G Mechanical seal 机械密封

Sealing Options 密封选项

EKATO offers a wide range of robust and reliable mechanical seals including cooling and supply systems: EKATO提供各种坚固和可靠的机械密封， 包括冷却和密封液系统：

- Single-, double-, or triple-acting seals 单、双和三端面密封
- Dry running, product wetted, liquid or gas lubricated 干运行密封、 物料润滑密封、 密封液或气体润滑密封
- Pressure compensators, automatic seal supply systems 压力补偿器、 密封液自动供给系统

Engineering & Consulting Services 工程 & 咨询服务

Different finite element modal analysis (FEM) can be offered to guarantee the system reliability of the agitator together with the vessel. For example the agitator/vessel connection, the vessel itself and its internals can be specifically calculated with this method. Typical FEM analyses:

为保证搅拌机与容器整体的可靠性， EKATO可提供几种不同的有限元分析FEM。如搅拌机/容器的联接， 容器本身和容器内构件都可用FEM进行分析计算。典型的FEM分析：

- Structural mechanical calculations (operational strength, deformations) 结构机械计算（运行时的强度， 变形）
- Modal/vibration analyses for the assessment of resonance 模态/振动分析， 防止共振
- Fluid-structure-interface for the consideration of contained or surrounding fluids with modal analysis 流体结构界面， 用模态分析对所盛的或被周边包围的液体的分析
- Thermal calculations 热量计算

