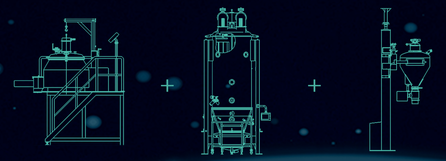
性能优势 Technical performance

1.混合均匀性好，制粒得粒率高；
2.无死角，物料无黑点；
3.出料干净；
4.集混合、制粒、干燥、整粒于一体，密闭等级达OEB5，适用于高活性及有毒物料；
5.CIP清洗。

1. Good mixing uniformity and high granule yield;
2. No dead corner and no black spots on material;
3. Clean discharge;
4. Integrated with mixing, granulating, drying and co-mill, containment level can reach OEB5, suitable for high activity and toxic materials;
5. CIP cleaning.



（湿法制粒线）
(Wet granulation line)

（高密闭制粒干燥整粒一体机）
(High containment granulating, drying and co-mill integrated machine)

技术参数 Technical parameter

型号 Model	THG6-15	THG-100	THG-200	THG-400	THG-600	THG-800
公称容积 Volume (L)	6/15	100	200	400	600	800
产能 Production capacity (kg/batch)	1-5	15-40	30-80	60-160	90-240	120-320
搅拌功率 Mixing power(kW)	3	11	22	30	37	45
搅拌转速 Mixing speed(rpm)	0-725	0-200	0-200	0-160	0-160	0-130
制粒功率 Granulating power(kW)	0.75	3	5.5	7.5	7.5	7.5
制粒转速 Granulating speed(rpm)	0-2900	0-2900	0-2900	0-2900	0-2900	0-2900
整粒功率 Cone mill power (kW)	-	1.1	3	3	3	3
整粒转速 Cone mill speed (rpm)	-	0-900	0-900	0-900	0-900	0-900
压缩空气耗量 Compressed air consumption (m^3/min)	0.3	0.6	0.6	1	1	1
压缩空气压力 Compressed air pressure (Mpa)	0.3-0.6	0.3-0.6	0.3-0.6	0.3-0.6	0.3-0.6	0.3-0.6

注：本公司可按用户要求定制生产
Remark: Our company can customize products according to user requirements.

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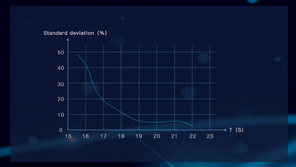
Wonsen 万申智能

顶驱湿法制粒机

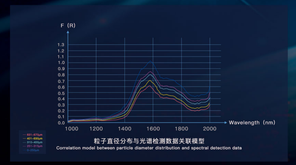
Top Drive Wet Type Rapid Mixer Granulator

万申智能
Yichun Wonsen Intelligent Equipment Co., Ltd.

混合均匀性RSD与混合时间关系曲线
The relationship between mixing uniformity RSD and mixing time



粒子直径分布在线检测
Online detection of particle diameter distribution



顶驱湿法制粒机
Top drive wet type rapid mixer granulator

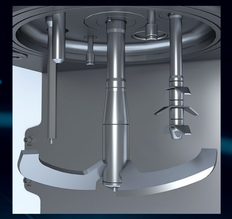
顶驱湿法制粒机采用顶部驱动的方式，将传动与密封置于设备上部，避免出现水、物料或粉尘渗入驱动机构，通过增加真空泵和加热夹套，可实现真空干燥，从而在一台设备上完成混合、制粒、干燥、整粒工序。设备可实现密闭进料，密闭出料，工作过程中完全密闭无泄漏，适用于高活性物料生产，是未来固体制剂生产的重要工艺设备。

The top drive wet type rapid mixer granulator adopts the top drive method, placing the transmission and sealing on the upper part of the equipment to prevent water, material or dust from infiltrating the drive mechanism. By adding a vacuum pump and a heating jacket to achive vacuum drying, thus one set equipment can finish the mixing, granulating, drying and cone mill processes. The equipment can realize containment feeding and discharging. It is completely containment and leak-free during the working process. It is suitable for the production of high-active materials and it is an important process equipment in the production of solid preparation.

顶驱传动 Top driving

搅拌桨及制粒刀顶部驱动，确保轴封不接触产品，CIP清洗时液体也不会伸入轴封，避免交叉污染，便于清洗和维护。

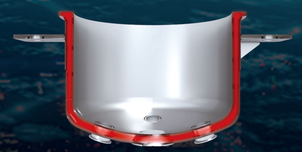
The mixing impeller and granulating chopper are top driven to ensure that the shaft seal does not directly contact the product, and the water will not extend into the shaft seal during CIP cleaning, avoiding cross-contamination, and is easy to clean and maintain.



真空干燥 Vacuum drying

通过真空泵和夹套加热的方式实现真空干燥。

Vacuum drying is realized by means of vacuum pump and jacket heating.



料缸自动升降 Automatic lifting of material pot

料缸可自动升降，便于设备检查维护，并可实现人工加料。

The material pot can be raised and lowered automatically, which is convenient for equipment inspection and maintenance, and it can realize manual feeding at the same time.

在线检测 Online detection

可实现在线混合均匀度、粒径分布及水分含量分析与控制。

Online analysis and control of mixing uniformity, particle size distribution and moisture content can be realized.

齐墙安装 Wall mounted installation

工作区与动力区分开为清洗、维护、防爆提供了最好的解决方案，减少了维护工程师在工作区工作的需要，从而减少停机时间和污染风险。

The separation of the working area and the power area provides the best solution for cleaning, maintenance, and explosion proof protection, reducing the need for maintenance engineers to work in the working area, thereby reducing downtime and pollution risks.

在线清洗 Online cleaning

采用自动伸缩式旋转清洗球，清洗无死角，符合GMP要求。

The automatic retractable rotating cleaning ball is used to clean without dead corners, which meets the requirements of GMP.