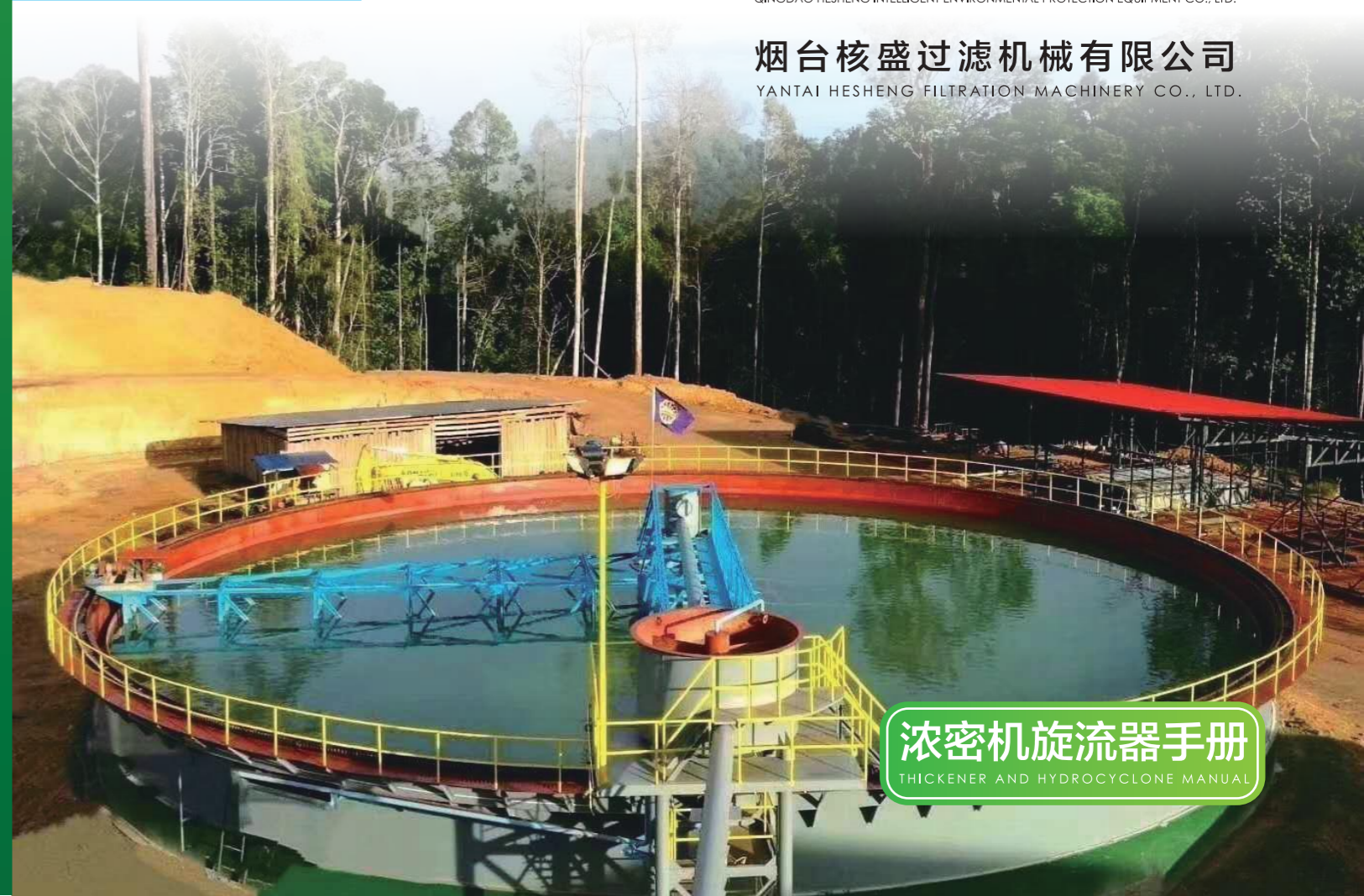




LEADING FILTER 核盛过滤 | 引领过滤科技 TECHNOLOGY

青岛核盛智能环保设备有限公司
QINGDAO HESHENG INTELLIGENT ENVIRONMENTAL PROTECTION EQUIPMENT CO., LTD.

烟台核盛过滤机械有限公司
YANTAI HESHENG FILTRATION MACHINERY CO., LTD.



浓密机旋流器手册
THICKENER AND HYDROCYCLONE MANUAL

青岛核盛智能环保设备有限公司
QINGDAO HESHENG INTELLIGENT ENVIRONMENTAL PROTECTION EQUIPMENT CO., LTD.

山东省青岛莱西市深圳北路255号
NO.255, SHENZHEN NORTH ROAD, LAIXI CITY, QINGDAO CITY, SHANDONG P.R.CHINA.

+86 532 83960966
+86 532 83961788
admin@heshengco.com
[邮编 / P.S CODE] 266600



website



官方网站



COMPANY PROFILE

企业简介

青岛核盛智能环保设备有限公司是专业从事智能过滤设备的生产、研发和销售的高科技企业。公司聚集了中国从事过滤行业的顶尖人才，积累了二十多年的研发、生产、销售和服务经验，拥有先进的智能机加工设备。严格的质量控制、优质的售后服务、超前的创新意识和能力，使公司始终走在过滤行业的技术前沿。

公司的主要产品有：水平带式真空过滤机、陶瓷真空过滤机、叠式压滤机、智能压榨过滤机、水

平带式加压过滤机、加压叠盘过滤机、带式真空震筛过滤机、离心机、管式过滤器等产品。广泛应用于化工、矿山、冶金、化肥、医药、食品、造纸、环保、污水处理、尾矿处理等行业。

公司秉承“为客户创造价值，让员工实现梦想，为社会创造财富”的经营理念，为用户提供高质量的产品和科学的过滤解决方案。

核盛环保，为您创造价值！

Qingdao Hesheng Intelligent Environmental Protection Equipment Co., Ltd. is a high-tech enterprise in production, R & D and sales for intelligent filters. We gathered the top talents in Chinese filtration field, they have more than 20 years' experience in R & D, production, sales and services. We have advanced intelligent machining equipment, the rigorous quality control system and high-class after-sales service system, the advanced innovation consciousness and ability to make us always walk at the forefront of the filter industry.

Our main products as follows: Horizontal Vacuum Belt Filter, Ceramic Disc Filter, Stacked Filter Press, Intelligent Horizontal Press Filter, Horizontal belt press filter, disc press filter, vacuum belt shaking filter, Centrifuge, Disc press filter, Belt vacuum vibrating stage dewatering machine, tubular filter, high efficiency thickener and so on. They are widely used in chemical industry, mining,

metallurgy, fertilizer, medicine, food, paper-making, environmental protection, waste water treatment and tailings dewatering industries.

We adhering to the "Creating value for clients, Realizing dreams for employees, Creating wealth for society" business philosophy, to provide high-quality equipment and scientific filtration proposal for users.

Hesheng Environmental Protection, Creat Value for You.

COHESION
VIRTUE 厚德 聚力
创新 共赢
WIN-WIN
INNOVATION

核心价值观 / CORE VALUE

厚德，聚力，创新，共赢。
VIRTUE, COHESION, INNOVATION, WIN-WIN.

核心竞争力 / CORE COMPETITIVENESS

团队协作，持续创新。
Team Work, Continuous Innovation.

企业精神 / ENTERPRISE SPIRIT

仁爱，坚韧，诚信，担当。
Benevolence, Tenacity, Honesty, Responsibility.

企业愿景 / ENTERPRISE VISION

员工幸福，团队一流，科技领先，全球品牌。
Happy Employees, First-class Team, Leading Technology, Global Brand.

经营理念 / BUSINESS PHILOSOPHY

为客户创造价值，为员工实现梦想，为社会创造财富。
Creating Value for Clients, Realizing Dreams for Employees,
Creating Wealth for Society.

企业使命 / ENTERPRISE MISSION

使过滤机更加智能高效，让核盛过滤走向世界。
To Make the Filter More Intelligent and Efficient, to Make Hesheng
Brand Filter to All Over the World.

安全理念 / SAFETY CONCEPT

岗位安全，环境安全，生产安全，出入安全。
Post Safety, Environment Safety, Production Safety, Access Safety

管理理念 / MANAGEMENT PHILOSOPHY

尊重融合，开放包容，科学决策，高效务实。
Respect Integration, Openness and Inclusiveness, Scientific Decision-making,
Efficiency and Pragmatism.

质量方针 / QUALITY POLICY

精益求精，用户满意，持续改进，追求卓越。
Make Perfection More Perfect, Customer Satisfaction, Continuous Improvement,
Pursuit of Excellence.





GNZ CENTRAL DRIVE THICKENER / GNZ中心传动浓密机



浓密机是一种利用固体颗粒重力沉降为工作原理的设备。它能实现矿浆的连续浓缩和澄清。广泛应用于选矿、冶金、化工、煤炭、环保等行业。

浓密机按传动方式一般分为周边传动和中心传动两种，我公司主要生产GNZ系列中心传动浓密机、NT系列周边传动浓密机和GNZS系列深锥浓密机。

Thickener is a equipment that works by gravity sedimentation of solid particles. It can achieve continuous concentration and clarification of mining slurry, and is widely used in mining, metallurgy, chemical, coal, environmental protection and other industries.

Thickener is generally divided into two types: peripheral drive and central drive according to drive mode. Our company mainly produces GNZ series central drive thickener, NT series peripheral drive thickener and GNZS series deep cone thickener.

EQUIPMENT INTRODUCTION / 设备简介

GNZ系列中心传动浓密机，是以GB/T10605-2003和JB/T 11004-2010规划的系列、技术要求为基础，由我公司研发中心独立设计的新型系列化连续浓缩和澄清设备。

该系列产品，采用模块化设计，整机由槽体、支撑、驱动、受料、排料、耙架、提耙等模块组合而成，可根据您的需求，提供：中心液压驱动高效浓密机、中心电机驱动高效浓密机两种类型。新式结构和控制方式更利于加速物料沉降，提高单位面积的处理能力，降低溢流浑浊度。

GNZ series central drive thickener is a new series of continuous concentration and clarification equipment independently designed by our R&D center based on the series and technical requirements of GB/T10605-2003 and JB/T 11004-2010.

This series of product adopts modular design, the whole machine consists of modules such as tank body, support, drive, receiving, discharging, truss, lifting and so on. According to your needs, we can supply two types: central hydraulic drive high efficiency thickener and central motor drive high efficiency thickener. The new structure and control method are more conducive to accelerate material settlement, improve processing capacity of per unit area and reduce overflow turbidity.

APPLICATION FIELD / 使用范围

GNZ系列浓密机，主要适用于湿式选矿作业中精矿的浓缩、洗涤、脱水作业，尾矿的浓缩、脱水作业，也广泛适用于煤炭、钢铁、化工、建材、水泥、污水处理等含固料浆的浓缩和净化。

GNZ series thickener is mainly used for concentrate concentrating, washing and dewatering of wet beneficiation operations, concentrating and dewatering of tailings, and is also widely used in concentration and purification of solid slurry in coal, steel, chemical, building materials, cement, sewage treatment and other industries.



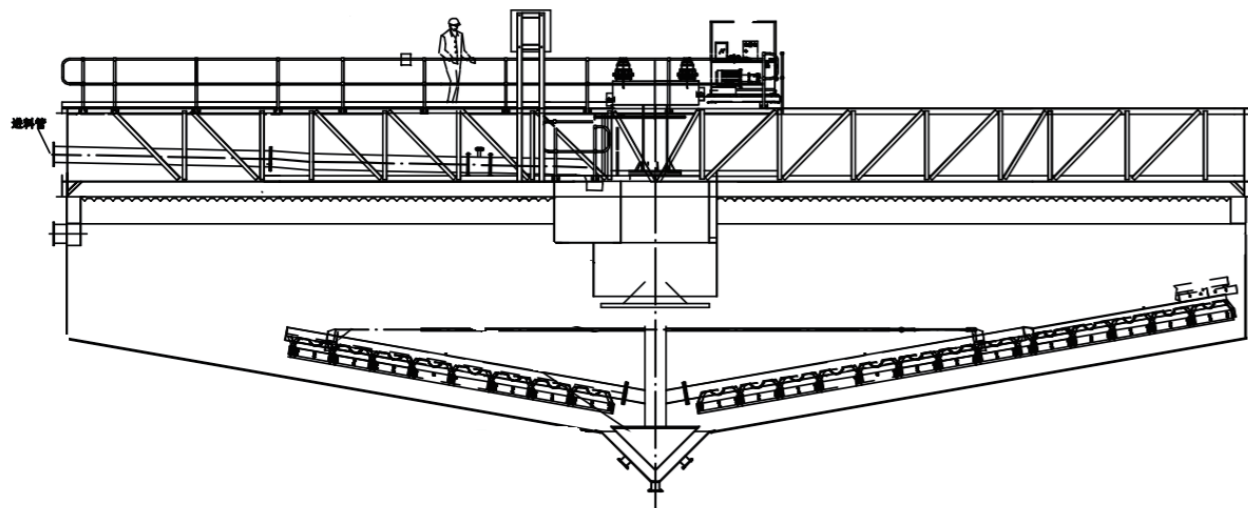
FEATURES / 特点

融合了高效浓密机的沉降理论和设计思想，单位面积处理能力大，脱水效果好，可方便的实现高效化运行。

- ① 中心缓冲深部给料，绝对无冲击受料；
- ② 液压中心传动，具有自动提耙保护功能；
- ③ 采用中心倒锥型集泥斗，对排料二次压缩，排料浓度更高、更稳定；
- ④ 合理的再造浆结构，更利于浓缩效率的提高；
- ⑤ 周边外溢流堰槽设计，有效沉降面积更大、滤液更清；
- ⑥ 多点絮凝剂添加方式；
- ⑦ 采用了重型回转支撑，经久耐用，无故障运行；

Combining sedimentation theory and design idea of high efficiency thickener, processing capacity of per unit area is large, dewatering effect is good and high efficient operation can be realized conveniently.

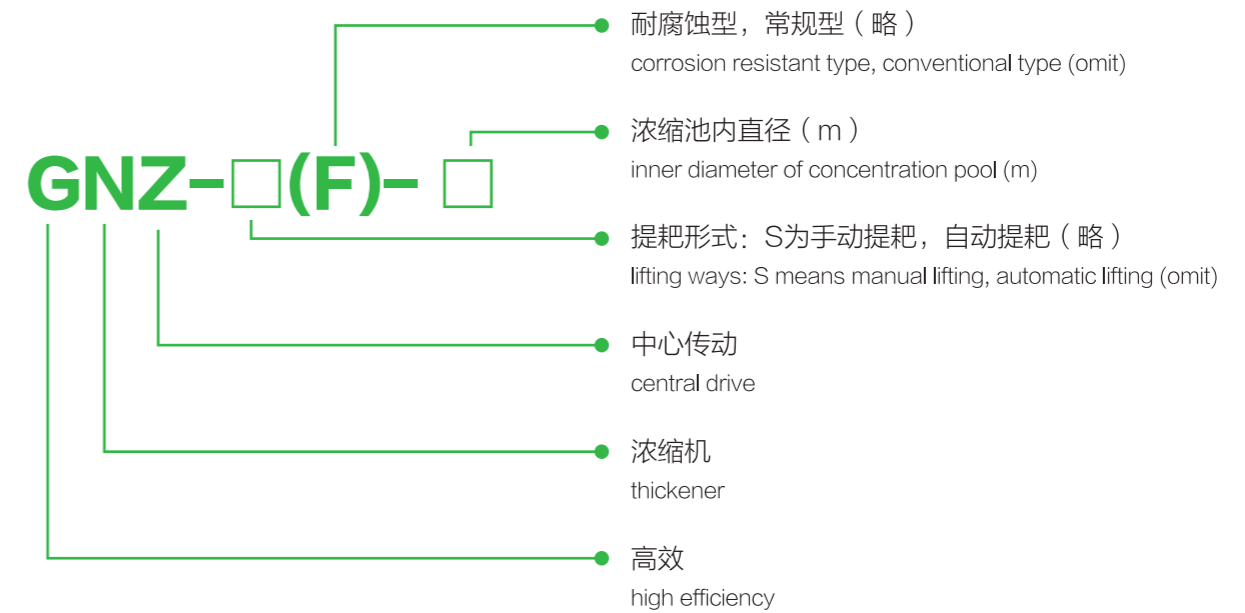
- ① Center buffer deep part slurry feeding, absolutely no impact when receiving slurry;
- ② Hydraulic center drive with automatic truss lifting protection function;
- ③ Adopting center inverted cone type sludge collecting tank to compress discharge material twice, concentration is higher and more stable;
- ④ Reasonable structure of slurry reforming is more conducive to the improvement of concentration efficiency;
- ⑤ Outer overflow groove around design makes a larger effective sedimentation area and clearer filtrate;
- ⑥ Multi-point flocculant addition way;
- ⑦ Heavy duty slewing support is adopted for durability and trouble-free operation;



NAMING RULES / 编号规则

GNZ系列中心传动浓密机型号表示方法：

Model naming rules of GNZ series central drive thickener:



基本参数 BASIC DATA	型号 / MODEL													
	GNZ -3	GNZ -6	GNZ -9	GNZ -12	GNZ -18	GNZ -20	GNZ -24	GNZ -30	GNZ -38	GNZ -45	GNZ -53	GNZ -60	GNZ -75	
浓缩池内直径D (m) INNER DIAMETER OF CONCENTRATION POOL (m)	3.6	6	9	12	18	20	24	30	38	45	53	60	75	
浓缩池深度h DEPTH OF CONCENTRATION POOL (h)	2.7	3.4	3.7	3.95	4.4	4.5	4.9	5.3	6.15	7.2	8.0	8.9	8.9	
沉淀面积 (m ²) SETTLING AREA (m ²)	10	28	63	113	254	314	452	700	1134	1590	2205	2826	4416	
提耙高度 (mm) LIFTING HEIGHT (mm)	300	350	350	350	350	350	350	350	350	350	350	350	350	
提耙速度(mm/min) LIFTING SPEED (mm/min)	5-30	5-30	5-30	5-30	5-30	5-30	5-30	5-30	5-30	5-30	5-30	5-30	5-30	
耙架每转时间(min) TRUSS PER REVOLUTION TIME (min)	1.4-3.2	2.3-5.4	3.5-8.1	4.7-11	7.0-16.2	7.8-18	9.4-22	11.5-27	15-36	20-48	26-67	26-67	26-67	
传动电机功率 (kW) DRIVE MOTOR POWER(kW)	1.1	1.1	3	3	5.5	5.5	7.5	7.5	15	15	18.5	18.5	18.5	
主轴最大扭矩(kN) MAXIMUM DRIVE FORCE (kN)	8.86	14.55	60.37	81.07	221.4	246.7	405.3	496	1294	1725	2765	2765	2765	
驱动油泵排量(ml/r) DRIVE OIL PUMP DISPLACEMENT (ml/r)	2.5	2.5	10/13	10/13	13/16	13/16	16/25	16/25	40	40	40	40	40	
液压马达排量(ml/r) HYDRAULIC MOTOR DISPLACEMENT (ml/r)	80	80	100×2	100×2	235×2	235×2	594×2	594×2	683×4	683×4	1000×4	1000×4	1000×4	
外形尺寸(m) OUTLINE DIMENSION (m)	L	3.90	6.6	11.	15.	21.	23.	27	33.	41	48	57	64	79
	H	4.80	5.50	5.80	6.90	8.0	8.4	9.0	9.50	10.95	12.	12	13	14.

说明：防腐型用于非中性介质，防腐型裸露面采用富锌底漆+氯化氯丁橡胶漆或舰船专用漆的重防腐涂装工艺，过流表面粘敷高性能耐磨损、耐酸碱橡胶层。裸露面和过流面均可根据您的要求，采用适合您工作介质的防护层。

Note: Anti-corrosion type is used for non-neutral medium and its exposed surface adopts heavy anti-corrosion coating process of zinc-rich primer & chlorinated chloroprene rubber paint or specific ship paint. The overflow surface is coated with high performance, wear resistant, acid & alkali resistant rubber layer. Both exposed and overflow surfaces can use a protective layer suitable for your working medium, depending on your requirements.

NT系列周边传动浓密机，是以JB/T 6991-2010规划的系列、技术要求为基础，独立设计的新型系列化连续浓缩和澄清设备。

应用重型回转支撑、采用周边齿条传动形式，基于驱动扭矩-沉砂层厚度-排矿浓度监测的PLC集中控制等多项新技术，使该机型具有较大的传动扭矩，超载能力大，运行可靠、浓缩效率高、适用范围广等特点。

可根据您的需求，提供：周边液压驱动高效浓密机、周边电机驱动高效浓密机两种类型。

NT series peripheral drive thickener is a new series of continuous concentration and clarification equipment independently designed based on the series and technical requirements of JB/T 6991-2010.

It adopts heavy slewing support and peripheral rack drive form, based on a number of new technologies such as drive torque, sedimentary layer thickness, concentration of mine discharge monitoring of PLC centralized control. This model has features of large drive torque and overload capacity, reliable operation, high concentration efficiency, wide application range, etc.

According to your needs, it can be provided two types: peripheral hydraulic drive high-efficiency thickener, peripheral motor drive high-efficiency thickener.



APPLICATION FIELD / 使用范围

NT系列周边传动浓缩机，广泛适用于煤炭、钢铁、化工、建材、水泥、污水处理等含固料浆的浓缩和净化，是组建浓缩-过滤两段作业流程、浓缩-过滤-干燥三段作业流程、多段洗涤流程的理想设备。

NT series peripheral drive thickener is widely used in concentration and purification of solid slurry such as coal, steel, chemical, building materials, cement, sewage treatment, etc. It is an ideal equipment for a two-stage process of concentration and filtration, a three-stage process of concentration, filtration and drying, and a multi-stage washing process.

特点 / FEATURES

单位面积处理能力更大，脱水效果更好，可方便的实现高效化运行

- ① 中心缓冲深部给料，绝对无冲击受料；
- ② 耙架更坚固，同时满足普通与高效化运行（添加絮凝剂）；
- ③ 采用中心倒锥型集泥斗，对排料二次压缩；
- ④ 优化的排料方式，排料浓度更高、更稳定；
- ⑤ 合理的再造浆稳流桶，更利于提高浓缩机工作效率；
- ⑥ 多点絮凝剂添加方式；
- ⑦ 周边齿条传动、采用了重型回转支撑，经久耐用，无故障运行；

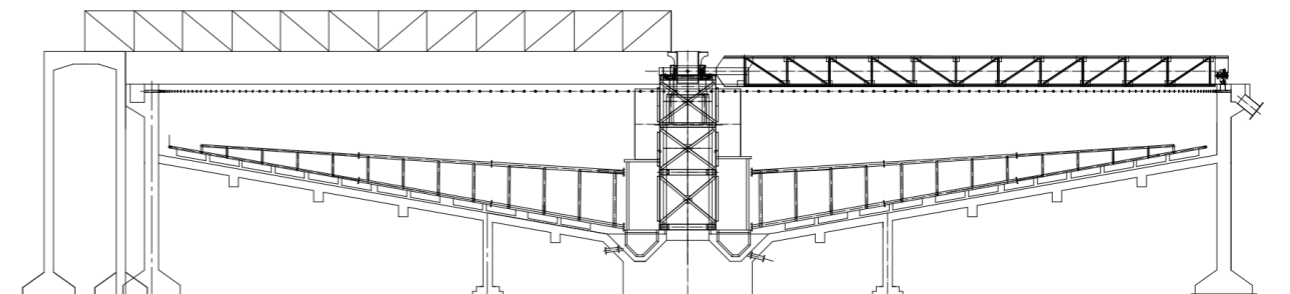
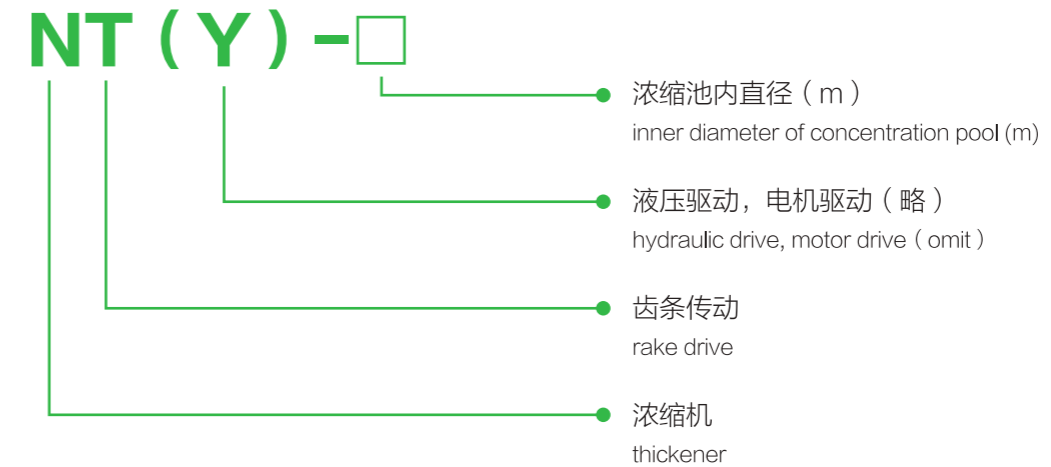
Processing capacity of per unit area is larger, dewatering effect is better and high efficient operation can be realized conveniently.

- ① Center buffer deep part slurry feeding, absolutely no impact when receiving slurry;
- ② Truss is stronger and meets normal and efficient operation meanwhile (adding flocculant);
- ③ Adopting center inverted cone type sludge collecting tank to compress discharge material twice;
- ④ Optimized discharge way, discharge concentration is higher and operation is more stable;
- ⑤ Reasonable structure of slurry reforming and flow stabilizing is more conducive to the improvement of thickener working efficiency;
- ⑥ Multi-point flocculant addition way;
- ⑦ Peripheral rack drive, heavy duty slewing support is adopted for durability and trouble-free operation;

NAMING RULES / 编号规则

NT系列周边传动浓缩机型号表示方法：

Model naming rules of NT series peripheral drive thickener:



NT PERIPHERAL DRIVEN THICKENER / NT周边传动浓密机

基本参数 BASIC DATA	型号 / MODEL									
	NT-15	NT-18	NT-24	NT-30	NT-38	NT-45	NT-53	NT-75	NT-100	
浓缩池内直径D(m) INNER DIAMETER OF CONCENTRATION POOL (m)	15	18	24	30	38	45	53	75	100	
浓缩池深度(h) DEPTH OF CONCENTRATION POOL (H)	4.15	4.4	4.9	5.3	6.0	6.5	7.2	8.9	11.0	
沉淀面积 (m ²) SETTLING AREA (m ²)	175.0	254.0	452.0	700.0	1134.0	1590.0	2200.0	4410.0	7850.0	
提耙高度 (mm) LIFTING HEIGHT (mm)	450	450	450	500	500	500	500	700	700	
提耙速度(mm/min) LIFTING SPEED (mm/min)	5-30	5-30	5-30	5-30	5-30	5-30	5-30	5-30		
耙架每转时间(min) TRUSS PER REVOLUTION TIME (min)	5.89-13.5	7.8-18.0	9.4-22.0	11.5-27.0	15.0-36.0	18.0-40.0	20.0-48.0	26.0-67.5	33.0-90.0	
传动电机功率(kW) DRIVE MOTOR POWER (kW)	5.50	5.50	7.50	7.50	11.0	11.0-15.0	15.0-18.5	18.5-22.0	18.5-30.0	
液压泵排量(ml/r) HYDRAULIC PUMP DISPLACEMENT (ml/r)	16	16	25	25	25	40	63	63	100	
最大驱动力(kN) MAXIMUM DRIVE FORCE (kN)	20.62	22.76	28.05	27.45	41.46	57.3	66.67	78.03	94.54	
外形尺寸 (m) OUTLINE DIMENSION (m)	L	15.42	18.42	24.42	30.42	38.42	45.42	53.50	75.80	100.80
	H	6.15	6.40	6.90	7.50	8.20	8.72	9.70	11.90	15.00
轨道中心直径 (m) TRACK CENTER DIAMETER (m)	DG	15.38	18.38	24.38	30.38	38.38	45.38	53.38	75.38	100.38
齿条中心直径 (m) RACK CENTER DIAMETER (m)	DT	15.63	18.63	24.63	30.63	38.63	45.63	53.63	75.65	100.65

说明：可提供防腐型，用于非中性介质，防腐型裸露面采用富锌底漆+氯化氯丁橡胶漆或舰船专用漆的重防腐涂装工艺，过流表面粘敷高性能耐磨损、耐酸碱橡胶层。裸露面和过流面均可根据您的要求，采用适合您工作介质的防护层。

Note: Anti-corrosion type can be provided for non-neutral medium and its exposed surface adopts heavy anti-corrosion coating process of zinc-rich primer & chlorinated chloroprene rubber paint or specific ship paint. The overflow surface is coated with high performance, wear resistant, acid & alkali resistant rubber layer. Both exposed and overflow surfaces can use a protective layer suitable for your working medium, depending on your requirements.

GNZS SERIES DEEP CONE THICKENER / GNZS系列深锥浓密机
概述 / BRIEF INTRODUCTION

GNZS系列深锥浓密机，是运用逆流沉降、沉积压缩理论，结合倾斜板技术和絮凝助降技术，自行设计的新型全自动、高性能连续脱水设备。具有占地面积小、单位面积处理能力大、适应范围广、底流浓度高、溢流清、易于实现全自动控制等特点，广泛适用于冶金、矿山、煤炭、钢铁、化工、建材、水泥、污水处理等含固料浆的浓缩和净化。

GNZS系列深锥浓密机，根据用户的物料特性及工艺条件，可选择性提供单一重力排料型、单一强制排料型和混合型（重力排料型升级加装排料耙）三种机型。

GNZS series deep cone thickener is a new type of fully automatic and high performance continuous dewatering equipment designed by contra-flow sedimentation, sedimentation compression theory, combined with inclined plate technology and flocculation assisting sedimentation technology. It has features of small occupied area, large processing capacity of per unit area, wide adaptability range, high underflow concentration, clean overflow, easy automatic control, etc. It is widely used in concentration and purification of solid slurry in metallurgy, mining, coal, steel, chemical, building materials, cement, sewage treatment, etc.

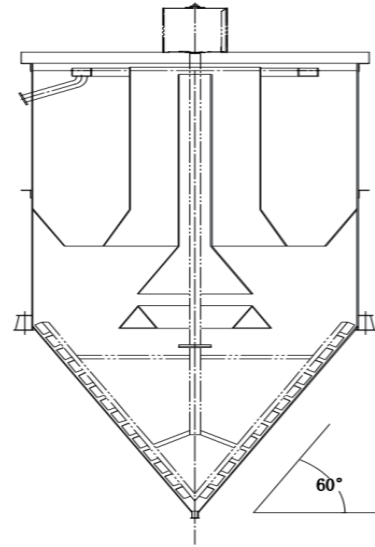
GNZS series deep cone thickener can be provided three types selectively: single gravity discharge type, single forced discharge type and mixed type (gravity discharge type upgrade with discharge truss) according to material characteristics and process conditions of user.



STRUCTURE FEATURES

结构特点

- ① 适宜絮凝搅拌强度的入料流道设计，絮凝剂用量更少，效果更好；
- ② 浓相沉积层下稳态布料，逆流絮凝、滤降；
- ③ 特殊设计的清水内循环系统，使入料在最适宜的浓度下絮凝沉降；
- ④ 独具自润滑性的倾斜板构造，缩短沉降距离、增加处理能力；
- ⑤ 浓相沉积层高度的精确测控，实现高浓度排放；
- ⑥ 倾斜板、打散锥的合理布置，更利于打散、挤出絮团内间隙水；
- ⑦ 模块化设计，电机、液压无级调速两种驱动方式任意选择；
- ⑧ 重力排放型可轻松升级为强制排放型（混合型）；
- ⑨ 结构部件经有限元分析、优化，实现长寿命可靠运行；
- ⑩ 高强度耙架设计，即使在高粘矿浆中也能良好运行；
- ⑪ 智能化控制模块，实现基于给料浓度、给料量的絮凝剂恒定控制，基于底流浓度和沉积层



高度的底流泵控制；

- ⑫ 重力排料型采用大倾角倒锥排放，更适用于矿山精矿脱水、尾矿高浓度排放；
- ⑬ 流线型耙架设计，耙浆阻力更小，效率更高；

- ① Slurry feeding channel design makes flocculation stirring strength appropriately, flocculant consumption is less, and effect is better;
- ② Steady receiving slurry under dense sedimentary layer, contra-flow flocculation, filtration and sedimentation;
- ③ Specially designed clean water internal circulation system to make slurry flocculation and sedimentation at optimum concentration;
- ④ Self-lubricating inclined plate structure shortens settlement distance and increases processing capacity;
- ⑤ Accurate measurement and control of the height of dense sedimentary layer to achieve high concentration discharge;
- ⑥ Reasonable arrangement of inclined plate and scattering cone is more conducive to scattering and extruding gap water in floc;
- ⑦ Modular design, two driving modes: motor and hydraulic stepless speed regulation can be selected arbitrarily;
- ⑧ Gravity discharge type can be upgraded to forced discharge type (mixed type) easily;
- ⑨ Structural parts realize long-life and reliable operation according to finite element analysis and optimization;
- ⑩ High-strength truss design, smooth operation even in high-viscosity slurry;
- ⑪ Intelligent control module achieves constant control of flocculant based on slurry feeding concentration and volume, underflow pump control based on underflow concentration and sedimentary layer height;
- ⑫ Gravity discharge type adopts large inclined angle inverted cone discharge, which is more suitable for mine concentrate dewatering and high concentration discharge of tailings;
- ⑬ Streamlined truss design, resistance of truss is smaller and efficiency is higher;

STRENGTHS

优势

- ① 高浓度底流，最高可达72%；
- ② 低浊度溢流，溢流水浊度 $\leq 500\text{ppm}$
- ③ 单位面积处理能力大，可达 $180 \sim 1500\text{kg/m}^2 \cdot \text{h}$
- ④ 占地面积小、建设速度快；
- ⑤ 运行成本低；
- ⑥ 全自动智能化运行；
- ⑦ 为您的脱水流程提供系统化解决方案。
- ⑧ 针对特殊物料，由试验中心通过小型化试验，为您提供无絮凝剂深锥浓缩解决方案。
- ① High concentration underflow, up to 72%;
- ② Low turbidity overflow, overflow water turbidity $\leq 500\text{ppm}$
- ③ Large processing capacity of per unit area, up to $180 \sim 1500\text{kg/m}^2 \cdot \text{h}$
- ④ Small footprint and fast construction speed;
- ⑤ Low operating costs;
- ⑥ Fully automatic intelligent operation;
- ⑦ Provide a systematic solution for your dewatering process.
- ⑧ For special materials, test center will provide you with a no-flocculation deep cone concentration solution through miniaturization test.

NAMING RULES

编号规则

GNZS系列周边传动浓缩机型号表示方法：

Model naming rules of GNZS series peripheral drive thickener:

GNZS-□

- 池体内径 (m)
inner diameter of concentration pool (m)
- 深锥式
deep cone type
- 中心传动、自动提耙
central drive, automatic lifting
- 浓缩机
thickener
- 高效
high efficiency

基本参数 BASIC DATA	型号 / MODEL									
	GNZS -5	GNZS -6	GNZS -9	GNZS -12	GNZS -18	GNZS -20	GNZS -24	GNZS -30	GNZS -38	
浓缩池内直径D(m) INNER DIAMETER OF CONCENTRATION POOL (m)	5.	7.	9.	12.	18.	24.	30.	35.	40.	
浓缩池深度(h) DEPTH OF CONCENTRATION POOL (h)	11.8	15.6	17.3	20.00	13.0	13.80	14.70	15.50	16.33	
变锥、锥角(°) CONE, CONE ANGLE (°)	60	60	60	60	120	120	120	120	120	
沉淀面积 (m²) SETTLING AREA (m²)	63.0	113.5	197.0	350.5	645.0	1024.0	1469.0	1714.0	2355.0	
提耙高度 (mm) LIFTING HEIGHT (MM)	300	300	300	300	300	300	300	300	300	
提耙速度(mm/min) LIFTING SPEED (mm/min)	5-30	5-30	5-30	5-30	5-30	5-30	5-30	5-30	5-30	
耙架每转时间(min) TRUSS PER REVOLUTION TIME (min)	2.0-4.5	2.7-6.5	3.5-8.1	4.7-11.0	7.0-16.2	9.4-22.0	11.5-27.0	13.5-31.0	15.0-36.0	
传动电机功率(kW) DRIVE MOTOR POWER (kW)	3.0	4.0	4.0-5.5	5.5-7.0	7.0-11.0	11.0-15.0	11.0-15.0	11.0-15.0	15-18.5	
液压泵排量(ml/r) HYDRAULIC PUMP DISPLACEMENT (ml/r)	10	10	16	16	25	40	40	40	40-63	
最大驱动扭矩(kN) MAXIMUM DRIVE FORCE (kN)	34.5	62	110	189	442	810	992	1164	1595	
外形尺寸 (m) OUTLINE DIMENSION (m)	L	6.50	8.50	11.00	14.00	20.00	24.00	32.00	37.00	42.00
	H	12.80/14.30	16.60\18.60	18.50/20.50	21.50/24.00	17.00	18.00	18.70	19.50	20.50

说明：可提供防腐型,用于非中性介质.防腐型裸露面采用富锌底漆+氯化氯丁橡胶漆或舰船专用漆的重防腐涂装工艺,过流表面粘敷高性能耐磨损、耐酸碱橡胶层。裸露面和过流面均可根据您的要求,采用适合您工作介质的防护层。

Anti-corrosion type can be provided for non-neutral medium and its exposed surface adopts heavy anti-corrosion coating process of zinc-rich primer & chlorinated chloroprene rubber paint or specific ship paint. The overflow surface is coated with high performance, wear resistant, acid & alkali resistant rubber layer. Both exposed and overflow surfaces can use a protective layer suitable for your working medium, depending on your requirements.

用途 / APPLICATION

浓缩分级

CONCENTRATED CLASSIFICATION

浓缩

CONCENTRATION

脱水

DEWATERING

脱泥

DESLIMING

工作原理 / WORKING PRINCIPLE

给料料浆在压力作用下沿线方向进入旋流器,在离心力场作用下,大颗粒被抛向器壁,随外旋流向下运动,从下部沉砂口排出,得到粒度粗的沉砂产物,细颗粒随内旋流向上运动,从上部溢流管得到粒度细的溢流产物。

Slurry flows along the line into hydrocyclone under pressure. Under centrifugal force, large particles are thrown to the wall, move downward with external swirling flow and are discharged from the lower grit chamber to get coarse-grained grit products. Fine particles move upward with the internal swirling flow from the upper overflow pipe to get fine-grained overflow products.



规格 Model	内径 Inner diameter [mm]	溢流管径 Overflow pipe diameter [mm]	沉砂口径 Underflow pipe diameter [mm]	锥角 Cone angle [°]	给料压力 Slurry feeding pressure [Mpa]	处理能力 Capacity [m³/h]	分离粒度 Separation solid size [μm]
NMT-750	750	240,260,280	120,140,160	20	0.03-0.4	400-550	74-250
NMT-660	660	180,200,220,240	80,110,150	20	0.03-0.4	250-360	74-220
NMT-610	610	160,180,200,220	90,100,110	20	0.03-0.4	200-260	74-200
NMT-500	500	130,140,160,180,220	35,45,50,65,70,80,90,100	10,20,25	0.03-0.4	140-220	74-200 74-150
NMT-350	350	80,90,105,115,120	30,35,40,45,50,60,70	15,20,25	0.03-0.4	60-90	50-150 50-120
NMT-300	300	65,80,100,120	20,25,30,35,40	15,20	0.05-0.4	45-80	50-150 40-100
NMT-250	250	60,75,80,100,120	16,18,20,25,30,35,40	10,15,20	0.05-0.4	40-65	40-100 30-100
NMT-200	200	40,50,55,65	16,20,24,28,32	15,20	0.05-0.4	25-40	40-100 30-100
NMT-150	150	30,35,40,45,50	8,10,12,14,16,18,20,22	8,15,20	0.05-0.4	11-20	30-74 20-74
NMT-125	125	25,30,35,40	8,10,12,14,16,18	7,15	0.05-0.4	8-15	20-100 20-74
NMT-100	100	20,25,30,40	8,10,12,14,16,18	8,15,20	0.05-0.4	5-12	10-100 10-74



- ◎ 旋流器采用钢壳内衬高耐磨橡胶制作。整机具有耐磨性强、抗腐蚀。
- ◎ 采用立体蜗壳式轴向向下旋转的流道结构、光滑的内表面，使浆体的发散力更大，水力旋流器分级效果好，磨损更轻，可更换的内套，安装简单，维修方便。
- ◎ 根据工艺流程需要，经计算和试验确定适当的溢流管径和沉砂口径，如不在常规范围内，可直接向我司特殊定制。
- ◎ 我们可以根据您公司现场情况，免费进行电脑模拟，旋流器选型工作。
- ◎ Hydrocyclone is made of steel shell and high wear resistant rubber lining. The whole machine has features of strong wear resistance and corrosion resistance.
- ◎ The three-dimensional volute shell type axially downward rotating flow channel structure and smooth inner surface make the dispersion of slurry larger. Hydrocyclone has better classification effect and lighter wear. Replaceable inner sleeve is easy to install and maintain.
- ◎ According to the needs of process flow, appropriate overflow pipe diameter and underflow pipe diameter are determined through calculation and test. If it is not within the normal range, it can be designed specially by our company.
- ◎ We can carry out computer simulation and hydrocyclone selection work free according to on-site situation of your company.