

山东伶动智能装备有限公司

Shandong Lingdong Intelligent Equipment Co. , Ltd.

中国山东省烟台市经济技术开发区五指山路1号

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WhatsApp

WeChat

智能属具制造商

High-end manufacturer of attachments

伶动智能

LINGDONG

更可靠的产品性能

More reliable product performance

更节省的施工方式

More cost-efficient construction methods

更完美的操作体验

Smoother operational experience

更完善的售后保障

Comprehensive after-sales support

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公司简介 About us

山东伶动智能装备有限公司是一家集智能化属具的研发、生产、销售为一体的高新技术企业。公司现有结构工程师、液压工程师、电气工程师、软件工程师数名。主要产品有液压手腕、液压快换等智能化属具。液压手腕机型涵盖1–32吨挖掘机，其配套专用属具有三十多个品类，基本涵盖了所有的施工工况。快换系列包含液压双锁快换、摆动快换、旋转快换、手指夹快换等。公司产品出口三十多个国家和地区，获得广泛好评。

伶动智能拥有几十项专利技术，荣获了国家认定的科技型企业和高新技术企业。不断创新是伶动智能的发展方向，品质是根本，服务是导向。欢迎全球各地的合作伙伴莅临伶动智能参观指导。

Shandong Lingdong Intelligent Equipment Co., Ltd. is a high-tech enterprise integrating the research, development, production, and sales of intelligent attachments. The company has a team of structural, hydraulic, electrical, and software engineers. Our main products include hydraulic tiltrotator and intelligent quick couplers. Our tiltrotator models cover excavators from 1 to 32 tons, with over thirty dedicated attachment options that address virtually all construction scenarios. The quick coupler series includes, hydraulic double-lock quick couplers, tilt quick couplers, rotary quick couplers, and finger quick couplers. Lingdong products are exported to over thirty countries and regions, receiving widespread acclaim.

Lingdong Intelligent holds dozens of patents and has been recognized as a national high-tech and technology-driven enterprise. Continuous innovation is our growth path, quality is our foundation, and service is our orientation. We warmly welcome partners from around the world to visit and collaborate with Lingdong Intelligent.

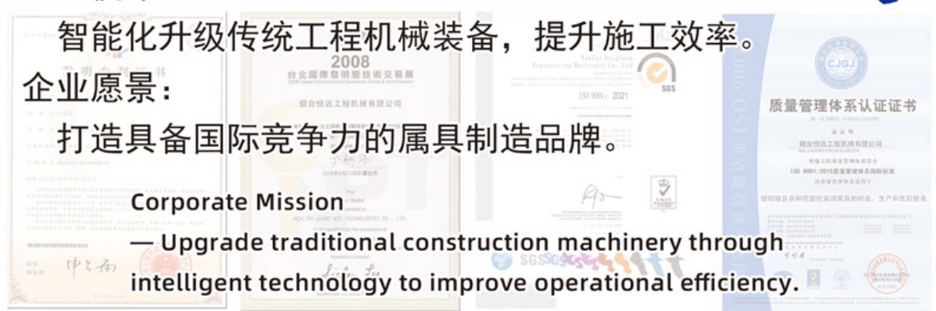
伶动理念
Lingdong philosophy

企业使命：

智能化升级传统工程机械装备，提升施工效率。

企业愿景：

打造具备国际竞争力的属具制造品牌。



Corporate Mission

— Upgrade traditional construction machinery through intelligent technology to improve operational efficiency.

Corporate Vision

— To build an internationally competitive brand in the excavator attachment manufacturing industry.

核心价值观：诚实，务实，精进，创新，共赢，责任。

Lingdong Core Values: Integrity, Pragmatism, Continuous Improvement, Innovation, Win-Win Cooperation, and Responsibility.



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伶动智能——中国挖掘机施工行业变革者

伶动液压手腕为什么终将成为主流

从出生人口曲线看，老龄化问题无法避免。人力成本终将高涨。同时，我国保有大量挖机，施工效率都偏低且功能单一。在基建工程减少后价格内卷严重，均需要液压手腕来提升施工效率，且为更复杂更精细的维护工作赋能。液压手腕能创新性的改变传统挖机工作方式，实现无死角施工。

我们相信液压手腕在中国的普及也将会迎来爆发期，像欧美一样，占据较大的挖机市场份额。

国产液压手腕领跑者

伶动智能通过深耕挖掘机属具行业十余年的经验。在中国市场提前规划并推出了液压手腕系列产品。手腕及手腕配套的硬件，手腕智能控制系统LDTILTROTATOR，也均为伶动独立开发。目前产品型号完整覆盖1-32吨挖机规格，适配国内外各知名品牌挖机。伶动也拥有挖掘机全品类属具设计生产能力，属具生态圈完美适配伶动液压手腕，包括液压破碎锤和多功能挖斗，抓木器，震动夯，叉车架，扫地机，平地器等几十种产品，基本覆盖市政路政，铁路，河道，基建，园林等各个工程领域。



L-07 适配
5-7吨挖机
For 5-7 ton
excavators



L-10 适配
7-12吨挖机
For 7-12 ton
excavators



L-20 适配
18-22吨挖机
For 18-22 ton
excavators



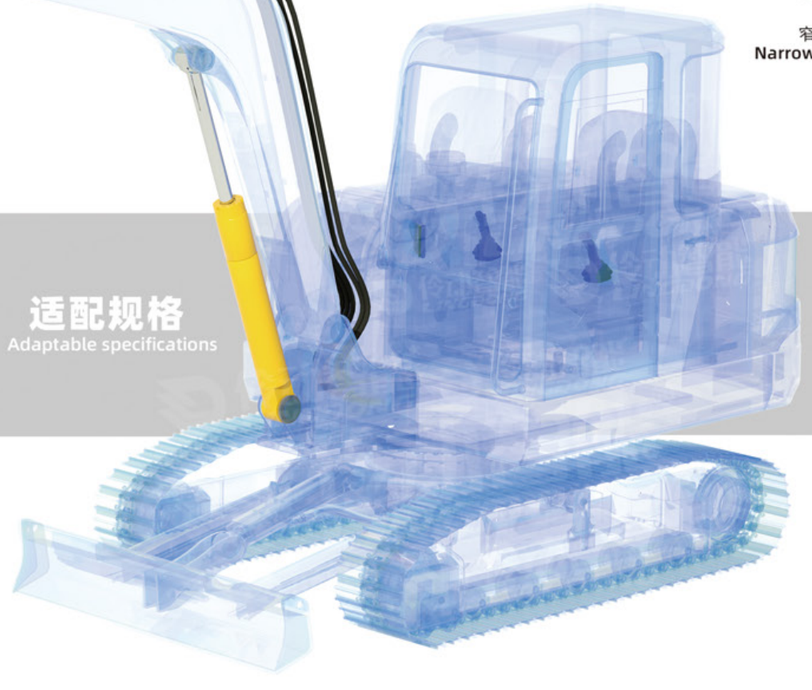
L-30 适配
26-32吨挖机
For 26-32 ton
excavators











适配规格
Adaptable specifications

属具生态圈
Tiltrotator Tools

Lingdong Intelligent: Transforming China's Excavator Operation Industry

Why Lingdong Tilt Rotators Will Ultimately Become Mainstream

Looking at the birthrate curve, the issue of aging populations is unavoidable. In the construction and engineering industry, we are bound to face a shortage of workers and rising labor costs. At the same time, large-scale infrastructure projects are gradually retreating from the historical stage. The maintenance of the massive infrastructure built during the era of major construction, along with the upkeep of private properties and additional construction tasks, will become the mainstream of the future. Historical experience from countries with aging populations shows a similar development path.

To ensure GDP output and maintain the profitability of engineering and contracting companies, it is essential to improve the labor productivity of each worker and machine. The tilt rotator, which allows for multi-functional use and higher efficiency in construction, will gradually occupy a large share of the excavator market, just like in Europe.

China's Leader in Tilt Rotators

Lingdong Intelligent has over a decade of experience and understanding in the excavator attachment industry. We have proactively planned and launched a series of tilt rotator products. Our tilt rotator hydraulic valve block system and the intelligent control system (LDTILTROTATOR) are independently developed by Lingdong. Currently, our product range comprehensively covers excavators from 1 to 32 tons and is compatible with renowned domestic and international brands.

Lingdong also possesses the full design and production capabilities for all types of excavator attachments, allowing us to perfectly match our tilt rotators with other attachments, including hydraulic breakers, multi-functional buckets, grapples, vibratory compactors, forklift frames, sweepers, graders, and many other products. This enables us to meet the demands of a wide variety of construction fields, including municipal roadworks, railways, waterways, infrastructure, and landscaping.


窄斗
Narrow bucket


岩石斗
Rock bucket


平地斗
Grading bucket


栅格斗
Screening bucket


栅格斗
Screening bucket


抓木器
Log Grapple


手指抓
Finger grapple


岩石夹
Sorting grapple


滚筒扫地机
Rotary sweeper


震动夯
Plate Compactor


破碎锤
breaking hammer


树剪
Tree Shear


沥青切割器
Asphalt cutter


松土器
Ripper


叉车架
Forklift frame


平地器
Leveler


平板刷
Flat brush

伶动液压手腕工作原理

液压手腕能实现无死角施工，是在传统挖掘机只能俯仰角度基础上，增加了360°旋转和±45°侧摆从而实现。为施工方式带来更多选择。下端的快换装置可实现迅速切换属具，应对复杂工况。前端手指夹能轻松拿捏重物。

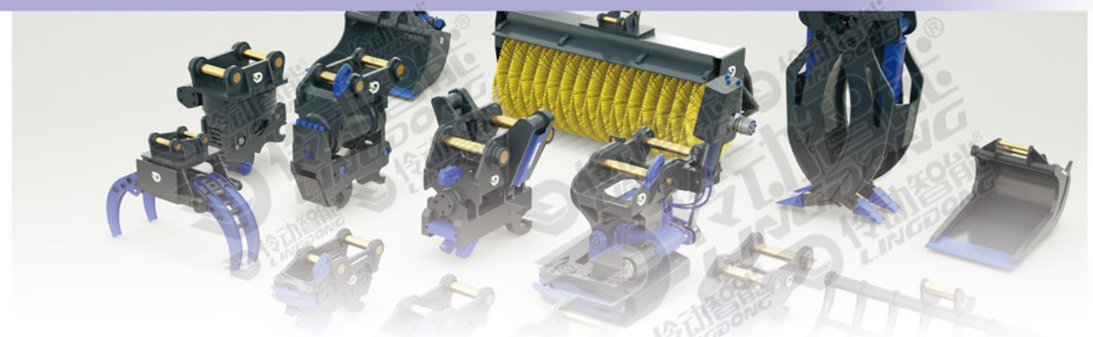
Working Principle of Lingdong Hydraulic Tiltrotators

The Lingdong tilt rotators enables full-angle construction by adding 360° rotation and ±45° tilt to the traditional excavator's pitch motion.This enhances the construction capabilities by offering a broader range of movements. The quick coupler at the lower end facilitates fast attachment switching, making it ideal for complex working conditions. The front finger grip easily handles heavy objects, improving productivity and versatility.





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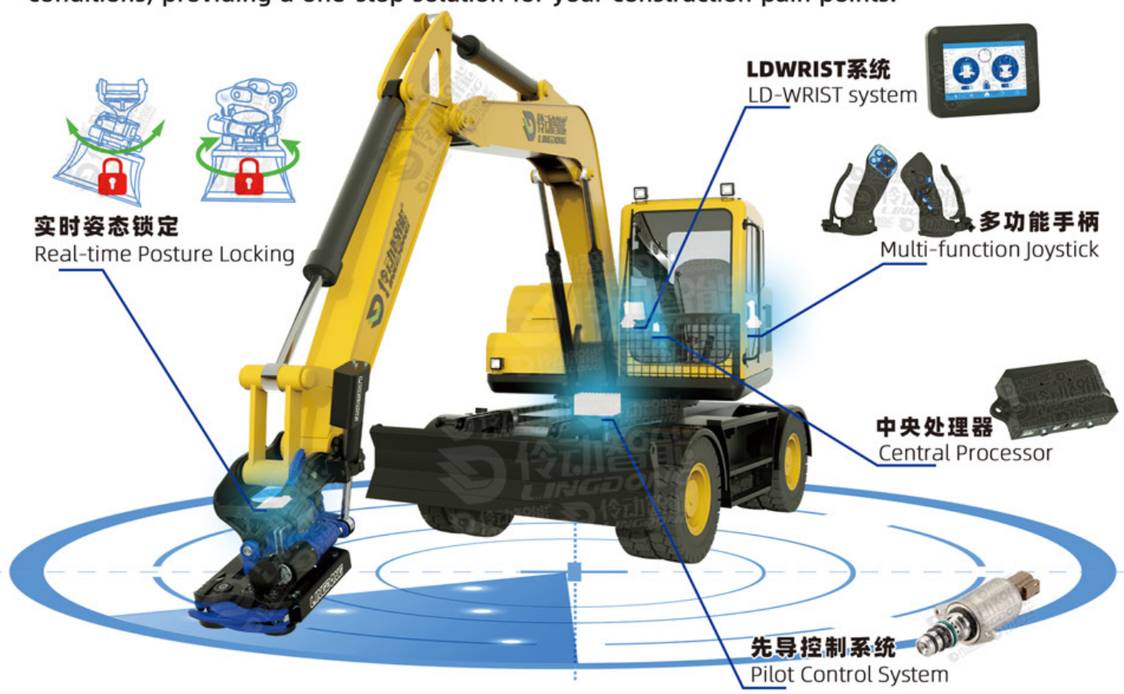


模块化施工领航员 给您最优的解决方案

伶动液压手腕生态圈已经涵盖路面修复，园林绿化，道路护坡，市政管网，室内装修，河道修整，基础设施，港口装卸等领域，液压手腕下方属具有几十种，为施工提供了更优选择，提高施工效率，降低施工成本，保障施工安全。客户可以根据自身工况，选择相应的手腕模块，一站式解决您的施工痛点。

Modular Construction Navigator Providing You with the Best Solutions

Lingdong Tiltrotator ecosystem already covers road surface repair, landscaping, road slope protection, municipal pipelines, interior decoration, river channel improvement, infrastructure, port loading and unloading, and other fields. With dozens of tools available under the tiltrotator, we provide better options for construction, improving efficiency, reducing costs, and ensuring safety. Customers can select the corresponding tiltrotator module based on their own working conditions, providing a one-stop solution for your construction pain points.



液压手腕的优势 Advantages of Tiltrotator

减少人力支出 提高生产效率

普通挖掘机工地项目，普遍要额外2-3人辅助工作。而伶动液压手腕，可以使用各种多功能属具完成原来的人工任务。减少人员需求，提高了生产效率。而更精确的无死角施工，也让市政维修，园林，铁路，除雪等工作更高效。因此现实情况下液压手腕比普通挖机回本周期更短。



普通挖掘机
Standard Excavator



配液压手腕挖掘机
Tiltrotator Excavator

Reduced Labor Costs Increased Productivity

For typical excavator projects, an extra 2-3 workers are often required for support. With the Lingdong tiltrotator, various multifunctional attachments can replace these manual tasks, decreasing personnel needs and boosting productivity. Its precise, all-angle operation also makes tasks in municipal maintenance, landscaping, railways, and snow removal much more efficient. As a result, the return-on-investment period for tiltrotators is often shorter than for regular excavators.

更复杂场景施工能力 Enhanced Capability for Complex Scenarios



原地大范围刷坡
Grading from a stationary position



拱形结构挖掘
Arched structure excavation



正铲加高装车
Front-facing lifting truck



斜坡挖掘并加固
Slope digging and reinforcement



旋转挖掘
Rotating excavation



沿墙开沟
Trenching along walls



旋转叉装
Rotational fork



夹取铲斗及工具
Gripping buckets and tools



协助人力施工
Assisting manual labor



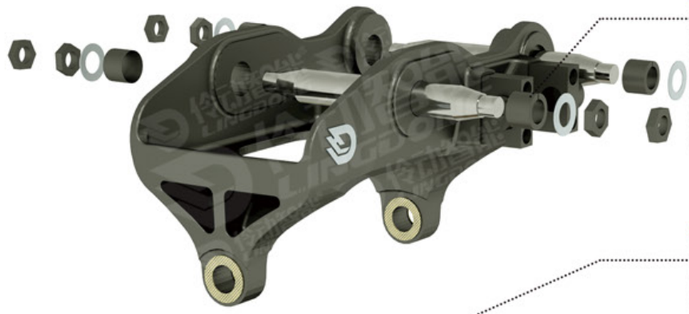
斜面夯平以及更多
Slope Compaction and more

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为什么要选择伶动液压手腕
Why Choose the Lingdong Tiltrotator

卓越的产品硬件

Superior Product Hardware



涨紧套销轴 *Expansion Sleeve Secured Pin*

伶动液压手腕销轴采用涨紧套设计，在长期使用后，只需继续拧紧螺钉即可重新膨胀，消除销轴间隙，确保牢固。

The LINGDONG pin joints use a screw-tensioned wedge-lock expansion sleeve. After long service, you simply re-tighten the screws to re-expand the sleeve, eliminating play and keeping the pins rock-solid.



360°液压油分配 *360° high-flow Hydraulic Swivel*

采用360°旋转液压油分配系统。无论手腕下部如何旋转，液压手腕下方的拇指夹系统，或者连接抓木器，震动夯等液压属具，均能持续供给液压油。

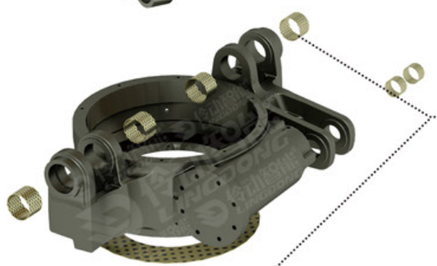
Equipped with a 360° high-flow Hydraulic Swivel . Regardless of how the tiltrotator rotates, the thumb clamp , log grapple, compactor, or other hydraulic attachments connected beneath will continuously receive hydraulic flow.



蜗轮蜗杆结构 *Worm Gear Structure*

伶动液压手腕旋转结构采用旋转力矩更大的蜗轮蜗杆结构。涡轮盘采用锡青铜材质，即使铲斗负载较大的情况下，仍可保持强大的扭矩和角度锁定。

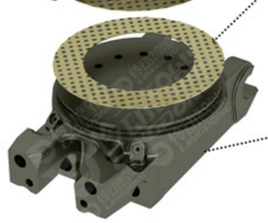
LINGDONG tiltrotator rotation is driven by a worm gear structure with higher torque output. The worm wheel is made of tin bronze, providing strong torque and reliable angle locking even under heavy bucket loads.



免维护耐磨铜套 *Maintenance-Free Wear-Resistant Bushings*

伶动液压手腕主要关节采用耐磨铜套，涡轮盘旋转位置采用磷青铜耐磨铜垫，减少主体结构磨损。

LINGDONG tiltrotators feature wear-resistant bronze bushings at major pivot joints. Phosphor bronze wear pads are used at the worm gear turntable rotation interface to minimize friction and reduce wear on the main structure, ensuring long-lasting durability and reliable performance.



铸造主结构 *Cast Main Structure*

伶动液压手腕的主要承重结构采用铸造，热处理工艺。在保持液压手腕主体结构强度的同时，实现了轻量化设计。

The primary load-bearing structure of the tiltrotator is cast and heat-treated. This ensures a lightweight design while maintaining structural strength.

为什么要选择伶动液压手腕
Why Choose the Lingdong Tiltrotator



作为一款复杂挖机智能属具，伶动智能具有独立开发操作系统能力，能实现手腕与各种挖掘机的最优匹配，并能根据驾驶员的操作习惯进行个性化设置，同时该系统也能兼容主流引导系统，实现更精细高效的施工。

As a sophisticated intelligent excavator attachment, Lingdong Intelligent has independent operating system development capabilities. It enables optimal matching between the tiltrotators and various excavators, supports personalized settings based on the operator's habits, and is compatible with mainstream guidance systems to achieve more precise and efficient construction.

图形化操作系统Graphical Control System （LDTiltrotator 3.0）





姿态显示
Position Display



手柄设置
Joystick Configuration



速度设置
Speed Settings



先导设置
Pilot Control Settings



快换锁定/解锁
Coupler Lock/Unlock



故障诊断
System Fault Diagnosis

手机APP Mobile App（LDTiltrotator）

手机上可对手腕参数进行设置，支持苹果/安卓，支持APP程序对手腕操作系统进行OTA升级。
Tiltrotator can be set on the mobile phone, supporting both Apple and Android.Supports OTA upgrades of the tiltrotator Control System via the APP.







直接安装型或多层复合安装
Direct Mount or Multi-Layer Composite Mount Options

① 直接安装型

液压手腕可直接与挖掘机小臂连接，安装简单，兼容性好，适配30吨以下所有机型。

Direct Mount Type

The tiltrotator can be connected directly to the excavator's arm, making it easy to install with excellent compatibility, suitable for all models under 30 tons.





② 多层复合安装型

在面对特殊工况时，比如连接震动力大的属具（破碎锤，震动夯等），挖掘比较深窄的沟渠，受力较大的工况等，为保护液压手腕长期稳定使用，您可以选择在液压手腕上端选装超薄快换，当您遇到以上工况，可以将液压手腕切换下来，快换直接切换您的破碎锤窄斗等属具，简单快捷。

Multi-Layer Composite Mount Type

For specific demanding conditions—such as using high-impact attachments (e.g., breakers, vibratory compaction plates), deep and narrow trenching, or high-force operations—you may choose an ultra-thin quick coupler mounted above the tiltrotator. In these cases, the tiltrotator can be quickly removed, and the quick coupler directly attaches breakers, narrow buckets, or other attachments, ensuring both simplicity and convenience.

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伶动双油缸液压手腕
Dual Tilt Cylinder Tiltrotators



伶动液压手腕涵盖1-32吨挖掘机，10吨以上采用双侧摆油缸设计。两侧油缸同步工作，扭矩均衡，提升耐用性。这提供了更大的倾斜力，轻松支撑重型铲斗和属具。为了进一步提升安全性，双油缸型号配备了铲斗防掉落安全锁。

LINGDONG tiltrotators cover 1-32 ton excavators. For 10 tons and above, a dual tilt cylinder design is adopted. Cylinders on both sides operate simultaneously, balancing torque and improving durability. This provides greater tilt force, supporting heavy buckets and attachments with ease. For added safety, dual-cylinder models are equipped with a bucket anti-drop safety lock.



单液压油缸
Single Tilt Cylinder



双液压油缸
Dual Tilt Cylinder



安全锁关闭
Anti-Drop Safety Lock-OFF



安全锁打开
Anti-Drop Safety Lock-ON

伶动液压手腕油路电路自动通导功能
Lingdong Tiltrotator Automatic Hydraulic & Electrical Coupling



伶动是国内首家推出配备自动液压和电气耦合功能的全功能液压手腕的制造商。伶动自动耦合模块也适用于大多数液压驱动属具，可实现破碎锤、震动夯和滚筒扫地机等工具的自动液压连接。

Lingdong is the first manufacturer in China to deliver a fully functional tiltrotator with automatic hydraulic and electrical coupling. The auto-coupling module can also be applied to most hydraulic-powered attachments, enabling automatic hydraulic connection for tools such as breakers, compactors, and sweeper rollers.



伶动油路通导模块
LINGDONG Auto-Coupling Module





姿态锁定功能
Posture Locking Function

伶动姿态锁定功能让您在面对复杂工况需要复合动作时，可以简化操作，专心应对重要的部分。可以随时切换关闭或启动姿态锁定功能。

Lingdong's posture locking function allows you to simplify operations when facing complex working conditions requiring composite movements, enabling you to focus on the important parts of the task. You can switch the posture locking function on or off at any time.



无锁定

No Locking



方位角锁定，实时补偿

Azimuth Locking & Real-Time Compensation

方位角可锁定任意角度，锁定后挖斗始终指向设定方向，系统会自动控制液压油实时补偿。
The azimuth can be locked at any angle. Once locked, the bucket always points in the set direction, and the system automatically controls the hydraulic oil for real-time compensation.



无锁定

No Locking



水平锁定，实时补偿

Horizontal Locking & Real-Time Compensatio

水平锁定后，挖斗铲板会保持与地面平行，自动补偿
After level locking, the bucket blade remains parallel to the ground with automatic compensation.



可定制液压手腕接口
Customizable Tiltrotator Interfacesr

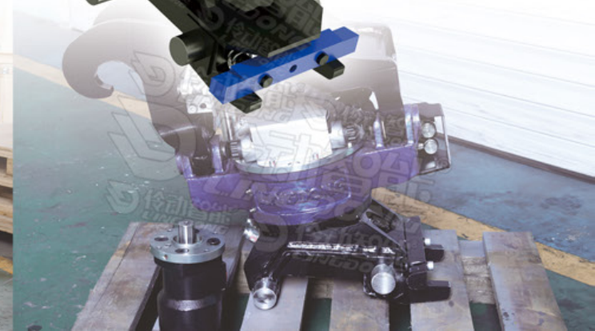
由于全球铲斗的规格不同，液压手腕下部连接系统也因国家/地区不同。除了生产标准的S系统液压手腕以外，伶动也可以定制CW系统和平推系统的液压手腕，以及相应接口的附件。

Due to different bucket specifications worldwide, quick coupler systems vary from country to country. In addition to manufacturing standard S-system tiltrotators, Lingdong can also customize CW-system and push-type system tiltrotators, as well as corresponding interface attachments.

- 标准S系统快换接口
  S-System Quick Coupler
- 平推系统快换接口
  push system Quick Coupler
- CW系统快换接口
  CW-System Quick Coupler



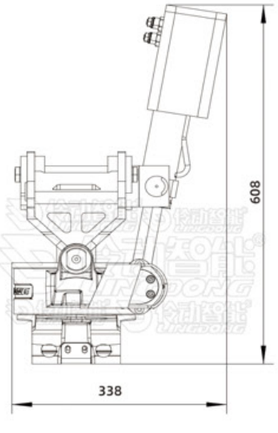


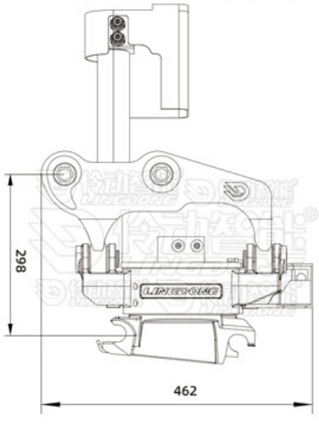


L-02液压手腕参数 Tiltrotators Parameters

型号Motel	L-02/pro
适配挖机 Compatible Excavator	1T-2T
上下轴间距(MM) Vertical axis spacing	298
上部轴直径(MM)Upper Pin Diameter	25-30
上部轴开档(MM)upper Pin Spacing	80-120
上部轴中心距(MM)upper Pin Center Distance	165
下部快换轴直径(M M)Lower Quick Coupler Pin Diameter	30
倾角（度)Maximum Tilt Angle(Degrees)	±45
流量(升 /分)Flow Rate (L/min)	14-28
最大工作压力(BAR)Maximum Working Pressure	180
摆动力矩(KNM)Tilting Torque	3.9
旋转力矩(KNM)Rotating Torque	2
重量(KG)Weight	82
显控屏display and control screen	标配standard
多功能手柄Multi-function Joystick	标配 standard
多国语言Multi-language Support	标配standard
姿态锁定Position Lock	无no/标配standard
自动油路对接Automatic Hydraulic Coupling	无no

L-02 外形尺寸 Dimensions



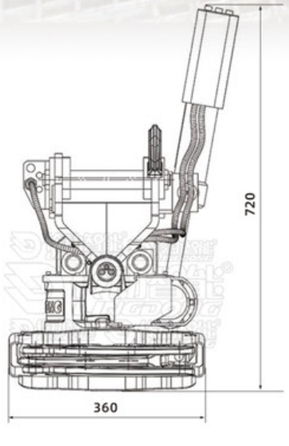


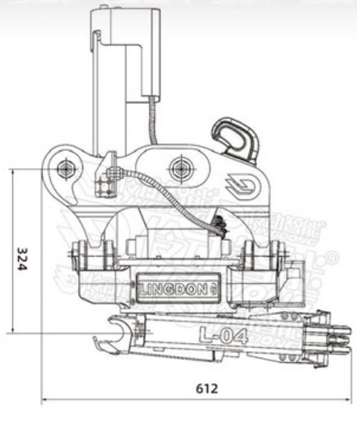


L-04液压手腕参数 Tiltrotators Parameters

型号Motel	L-04/pro
适配挖机Compatible Excavator	2T-4T
上下轴间距(MM) Vertical axis spacing	324
上部轴直径(MM)upper Pin Diameter	30-35
上部轴开档 (MM)upper Pin Spacing	100-150
上部轴中心距(MM)upper Pin Center Distance	180-240
下部快换轴直径(M M)Lower Quick Coupler Pin Diameter	35
下部快换开档(MM)Lower Quick Coupler Spacing	160
下部快换中心距(M M)Lower Quick Coupler Center Distance	240
最大倾角(度)Maximum Tilt Angle (Degrees)	±45
流量(升/分)Flow Rate(L/min)	18-38
最大工作压力(BAR)Maximum Working Pressure	210
手指夹开口(MM)Finger Grab Opening	330
手指夹安全负载(KG)Finger Grab Safe Load	80
摆动力矩(KNM)Tilting Torque	10.6
旋转力矩(KNM)Rotating Torque	4.9
重量(KG)Weight	135
显控屏display and control screen	标配standard
多功能手柄Multi-function Joystick	标配standard
多国语言Multi-language Support	标配standard
姿态锁定Position Lock	无no/标配standard
水平姿态模拟器Horizontal Attitude Simulator	选装optional
自动油路对接Automatic Hydraulic Coupling	选装optional

L-04 外形尺寸 Dimensions







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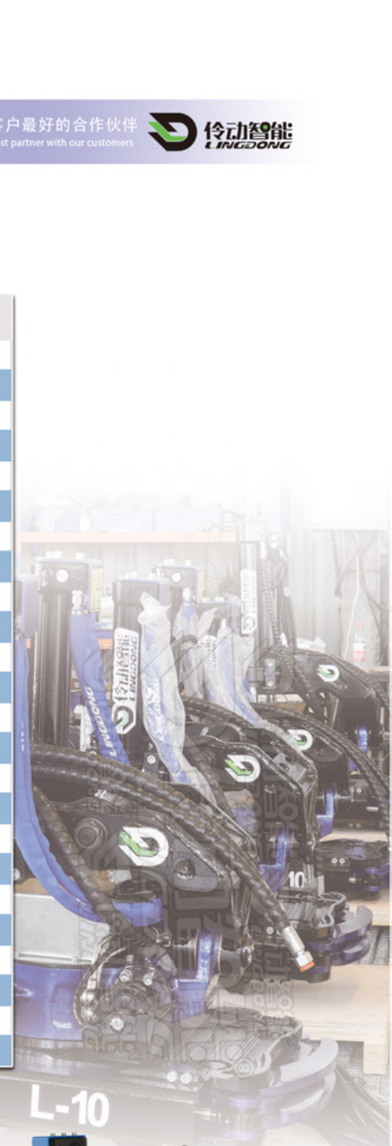
L-07液压手腕参数 Tiltrotators Parameters

型号Motel	L-07/pro
适配挖机Compatible Excavator	5T-7T
上下轴间距(MM) Vertical axis spacing	400
上部轴直径(MM)upper Pin Diameter	40-50
上部轴开档(MM)upper Pin Spacing	150-250
上部轴中心距(MM)upper Pin Center Distance	260-350
下部快换轴直径(M M)Lower Quick Coupler Pin Diameter	40
下部快换开档(M M)Lower Quick Coupler Spacing	200
下部快换中心距(M M)Lower Quick Coupler Center Distance	300.5
最大倾角（度)Maximum Tilt Angle (Degrees))	±45
流量(升 /分)Flow Rate (L/min)	18-38
最大工作压力(BAR)Maximum Working Pressure	220
手指夹开口(MM)Finger Grab Opening	310
手指夹安全负载(KG)Finger Grab Safe Load	120
摆动力矩(KNM)Tilting Torque	15
旋转力矩(KNM)Rotating Torque	6.5
重量(KG)Weight	262
显控屏display and control screen	标配standard
多功能手柄Multi-functionJoystick	标配Standard
多国语言Multi-language Support	标配standard
姿态锁定Position Lock	无no/标配standard
水平姿态模拟器Horizontal Attitude Simulator	选装optional
自动油路对接Automatic Hydraulic Coupling	选装optional

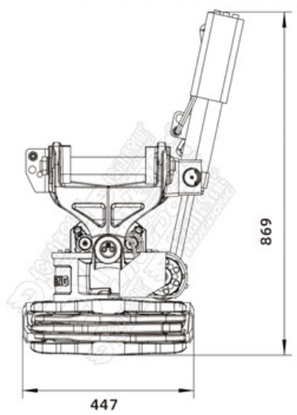
L-10液压手腕参数 Tiltrotators Parameters

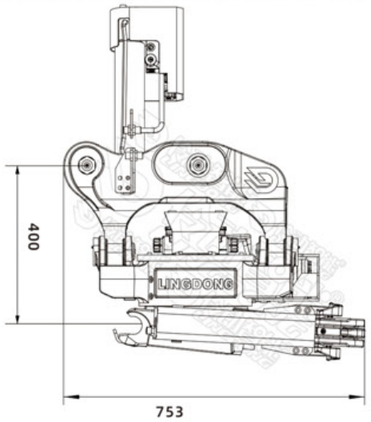
型号Motel	L-10/pro
适配挖机 compatible Excavator	7T-12T
上下轴间距(MM) Vertical axis spacing	435
上部轴直径(MM)upper Pin Diameter	55-65
上部轴开档(MM)Upper Pin Spacing	200-260
上部轴中心距(MM)upper Pin Center Distance	310-390
下部快换轴直径(M M)Lower Quick Coupler Pin Diameter	50
下部快换开档(M M)Lower Quick Coupler Spacing	270
下部快换中心距(M M)Lower Quick Coupler Center Distance	430
最大倾角（度)Maximum Tilt Angle (Degrees)	±45
流量(升 /分)Flow Rate (L/min)	70-90
最大工作压力(BAR)Maximum Working Pressure	210
手指夹开口(MM)Finger Grab Opening	500
手指夹安全负载(KG)Finger Grab Safe Load	250
摆动力矩(KNM)Tilting Torque	29
旋转力矩(KNM)Rotating Torque	5.4
最小油缸运行速度(MM /S)Minimum Cylinder Operating	1
最大油缸运行速度(MM /S)Maximum Cylinder Operating	80
重量(KG)Weight	376
显控屏display and control screen	标配standard
多功能手柄Multi-function Joystick	标配standard
多国语言 Multi-language Support	标配standard
姿态锁定Position Lock	无no/标配standard
水平姿态模拟器Horizontal Attitude Simulator	选装optional
自动油路对接Automatic Hydraulic Coupling	选装optional





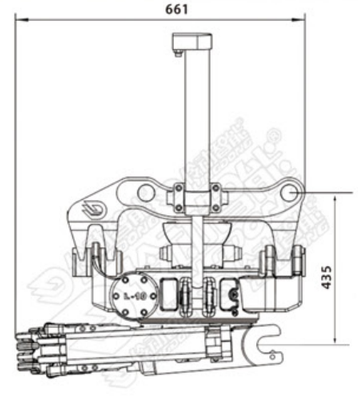
L-07 外形尺寸 Dimensions

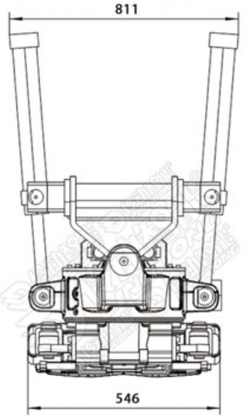






L-10 Dimensions



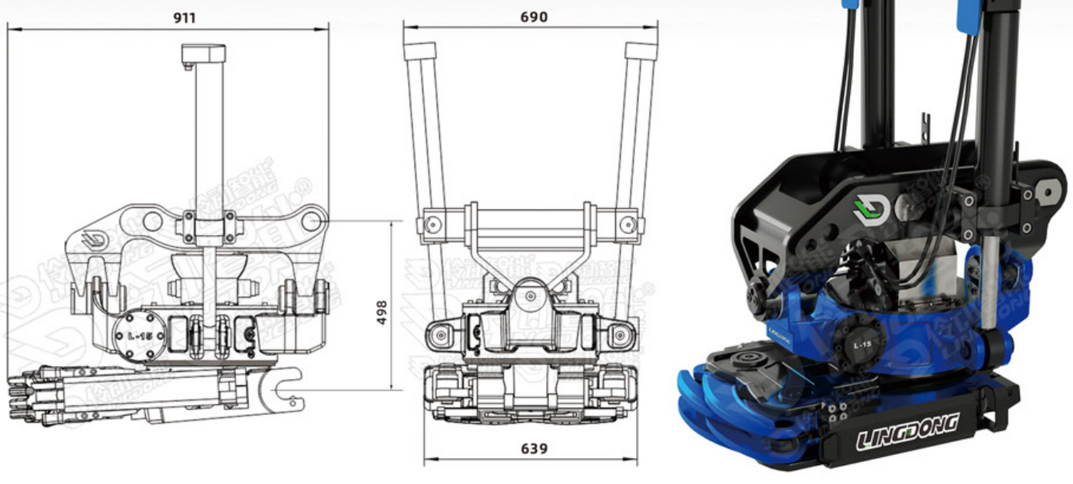




L-15液压手腕参数 Tiltrotators Parameters

型号Motel	L-15/pro
适配挖机 compatible Excavator	12T-18T
上下轴间距(MM) Vertical axis spacing	498
上部轴直径(MM)upper Pin Diameter	60-65
上部轴开档(MM)Upper Pin Spacing	220-270
上部轴中心距(MM)upper Pin Center Distance	330-390
下部快换轴直径(M M)Lower Quick Coupler Pin Diameter	60
下部快换开档(M M)Lower Quick Coupler Spacing	340
下部快换中心距(M M)Lower Quick Coupler Center Distance	480.5
最大倾角（度)Maximum Tilt Angle (Degrees)	±45
流量(升 /分)Flow Rate (L/min)	80-100
最大工作压力(BAR)Maximum Working Pressure	220
手指夹开口(MM)Finger Grab Opening	500
手指夹安全负载(KG)Finger Grab Safe Load	250
摆动力矩(KNM)Tilting Torque	43
旋转力矩(KNM)Rotating Torque	7.8
最小油缸运行速度(MM /S)Minimum Cylinder Operating	1
最大油缸运行速度(MM /S)Maximum Cylinder Operating	80
重量(KG)Weight	643
显控屏display and control screen	标配standard
多功能手柄Multi-function Joystick	标配standard
多国语言 Multi-language Support	标配standard
姿态锁定Position Lock	无no/标配standard
水平姿态模拟器Horizontal Attitude Simulator	选装optional
自动油路对接Automatic Hydraulic Coupling	选装optional

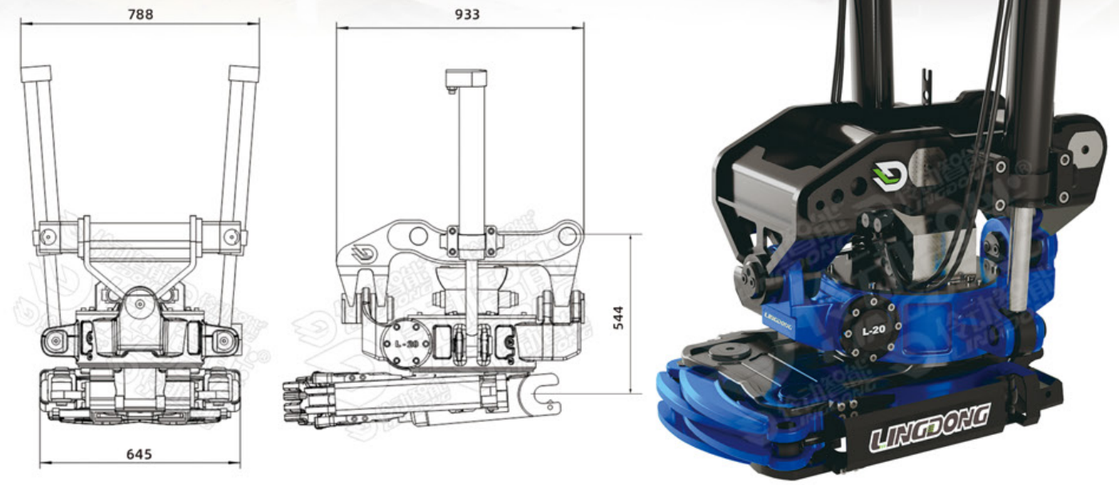
L-15 外形尺寸 Dimensions



L-20液压手腕参数 Tiltrotators Parameters

型号Motel	L-20/pro
适配挖机Compatible Excavator	18T-26T
上下轴间距(MM) Vertical axis spacing	544
上部轴直径(MM)upper Pin Diameter	70-80
上部轴开档(MM)upper Pin Spacing	300-340
上部轴中心距(MM)upper Pin Center Distance	400-500
下部快换轴直径(M M)Lower Quick Coupler Pin Diameter	70
下部快换开档(MM)Lower Quick Coupler Spacing	450
下部快换中心距(MM)Lower Quick Coupler Center Distance	600.5
最大倾角(度)Maximum Tilt Angle (Degrees)	±45
流量(升/分)Flow Rate(L/min)	100-120
最大工作压力(BAR)Maximum Working Pressure	220
手指夹开口(M M)Finger Grab Opening	565
手指夹安全负载(KG)Finger Grab Safe Load	350
摆动力矩(KNM)Tilting Torque	62
旋转力矩(KNM)Rotating Torque	8.8
最小油缸运行速度(MM /S)Minimum Cylinder Operating	1.2
最大油缸运行速度(MM /S)Maximum Cylinder Operating	90
重量(KG)Weight	956
显控屏 display and control screen	标配standard
多功能手柄Multi-function Joystick	标配 standard
多国语言Multi-language Support	标配 standard
姿态锁定Position Lock	无no/标配standard
水平姿态模拟器Horizontal Attitude Simulator	选装optional
自动油路对接Automatic Hydraulic Coupling	选装optional

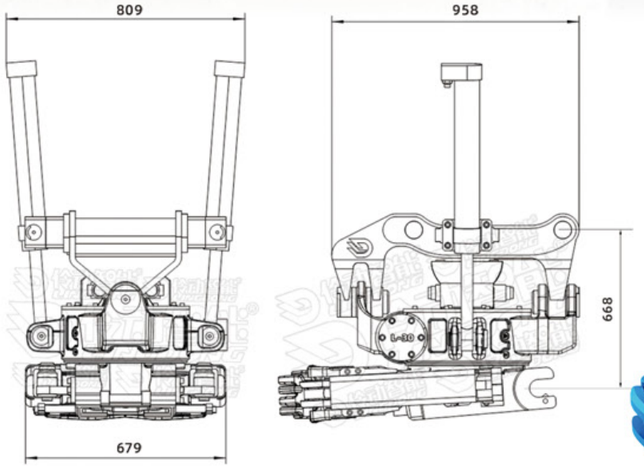
L-20 外形尺寸 Dimensions



L-30液压手腕参数 Tiltrotators Parameters

型号Motel	L-30/pro
适配挖机Compatible Excavator	26T-32T
上下轴间距(MM) Vertical axis spacing	668
上部轴直径(MM)upper Pin Diameter	80-100
上部轴开档(MM)upper Pin Spacing	360-400
上部轴中心距(MM)upper Pin Center Distance	450-550
下部快换轴直径(M M)Lower Quick Coupler Pin Diameter	80
下部快换开档(MM)Lower Quick Coupler Spacing	590
下部快换中心距(MM)Lower Quick Coupler Center Distance	670
最大倾角(度)Maximum Tilt Angle (Degrees)	±45
流量(升/分)Flow Rate(L/min)	140-180
最大工作压力(BAR)Maximum Working Pressure	220
手指夹开口(M M)Finger Grab Opening	636
手指夹安全负载(KG)Finger Grab Safe Load	500
摆动力矩(KNM)Tilting Torque	75
旋转力矩(KNM)Rotating Torque	9.8
最小油缸运行速度(MM /S)Minimum Cylinder Operating	1
最大油缸运行速度(MM /S)Maximum Cylinder Operating	90
重量(KG)Weight	1095
显控屏 display and control screen	标配standard
多功能手柄Multi-function Joystick	标配standard
多国语言Multi-language Support	标配standard
姿态锁定Position Lock	无no/标配standard
水平姿态模拟器Horizontal Attitude Simulator	选装optional
自动油路对接Automatic Hydraulic Coupling	选装optional

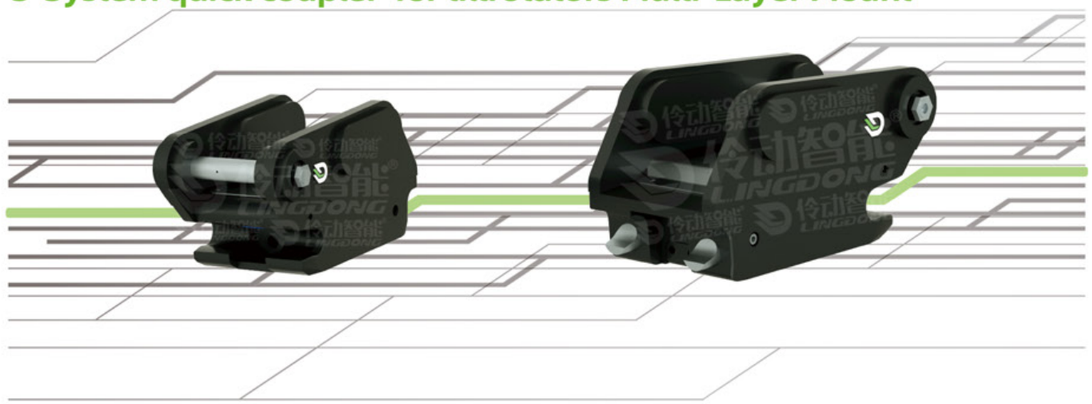
L-30 外形尺寸 Dimensions





用于液压手腕复合安装的S快换

S-System quick coupler for tiltrotators Multi-Layer Mount



产品特点: Features & Benefits

- 符合欧式S接口液压手腕。S规范属具的兼容规范

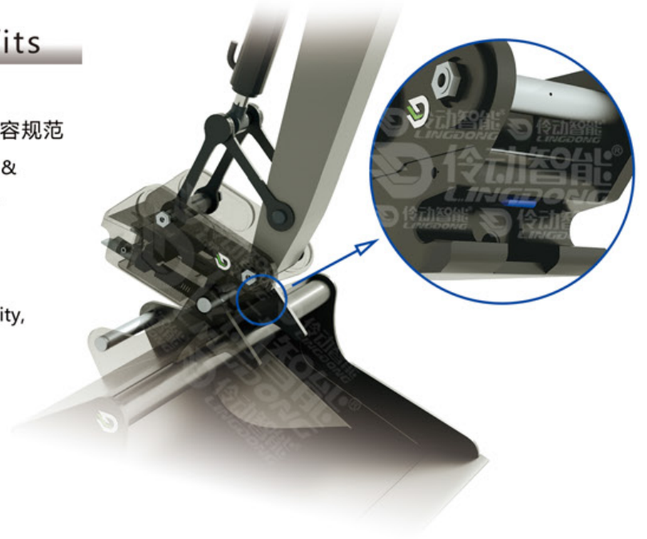
  Compliant with European S-System tiltrotator & S-System attachment compatibility standards.

- 整体合金铸造，稳定可靠，结构高度紧凑

  Fully cast alloy structure, ensuring high stability, reliability, and a compact design

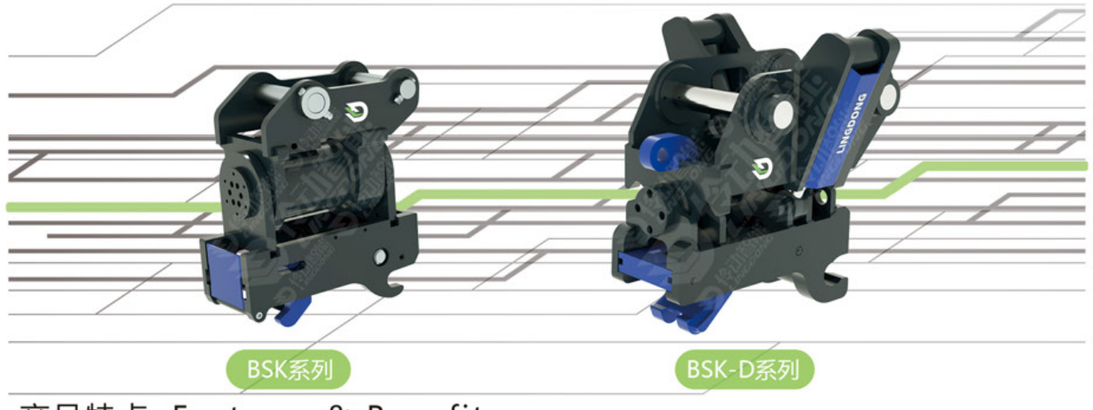
- 配备后部防坠落安全锁

  Equipped with a rear safety lock to prevent accidental detachment.



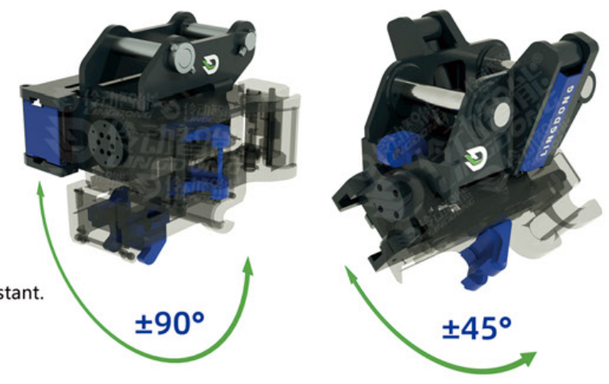
型号Model	S30	S40	S45	S50	S60	S70
长度 Length	331mm	425mm	588mm	587mm	682mm	816mm
轴经 Pin Diameter	30mm	40mm	45mm	50mm	60mm	70mm
中心距 Pin Distance	110-215mm	160-270mm	220-365mm	220-365mm	350-410mm	270-485mm
S中心距 S Pin Distance	230mm	300mm	430mm	430mm	480mm	600mm
总高度 Total Height	180mm	228mm	274mm	280mm	344mm	397mm
适配挖机 Compatible Excavator	1-2 ton	2-6ton	5-12ton	5-12ton	12-20ton	18-32ton

如果您仅需摆动功能
If you only need the tilt function



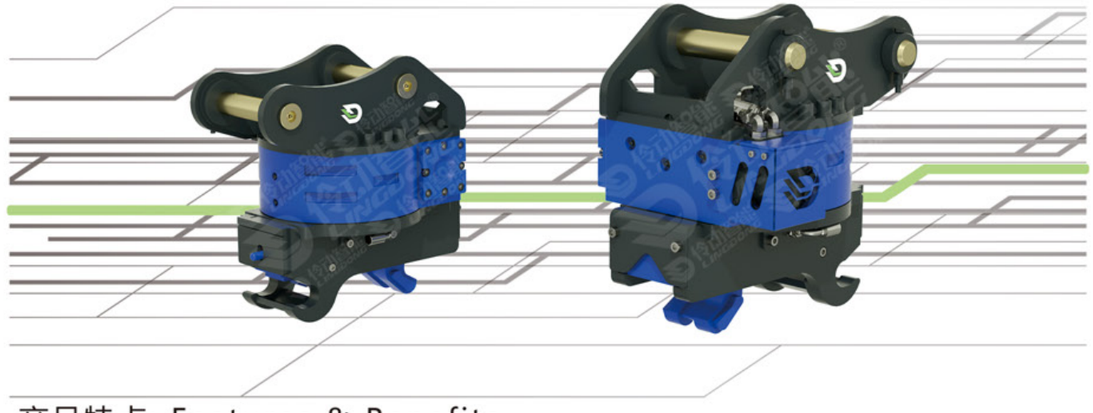
产品特点: Features & Benefits

- 紧凑型设计，内置油路，体积更小
  Compact design with built-in oil lines for a smaller footprint.
- 高扭矩摆动油缸，为施工提供强力支撑
  High-torque swing cylinder provides strong support for operations.
- 高等级Q345锰板钢材，耐磨损。
  销轴采用42CrMo合金钢
  High-grade Q345 manganese steel, wear-resistant. Pins are made of 42CrMo alloy steel.
- 平推式接口设计，兼容多种不同轴距属具
  Push typ Coupling Design – Compatible with Multiple Bucket Spacings



型号Model	BSKmin	BSK02	BSK04	BSK06-D	BSK08-D	BSK10-D
重量 Weight	63kg	156kg	182kg	382kg	622kg	682kg
轴径 Shaft Diameter	25-40mm	40-45mm	45-55mm	60-65mm	70-80mm	90-100mm
中心距 Center Distance	120-155mm	245-285mm	285-375mm	370-390mm	455-515mm	510-550mm
摆动角度 Swing Angle	±90°	±90°	±90°	±45°	±45°	±45°
高度 Height	482mm	546mm	770mm	800mm	880mm	930mm
适配挖机 Compatible Excavator	0.5-2 ton	4-6 ton	6-9 ton	10-15 ton	20-25 ton	30-38 ton

如果您仅需旋转功能
If you only need the rotation function



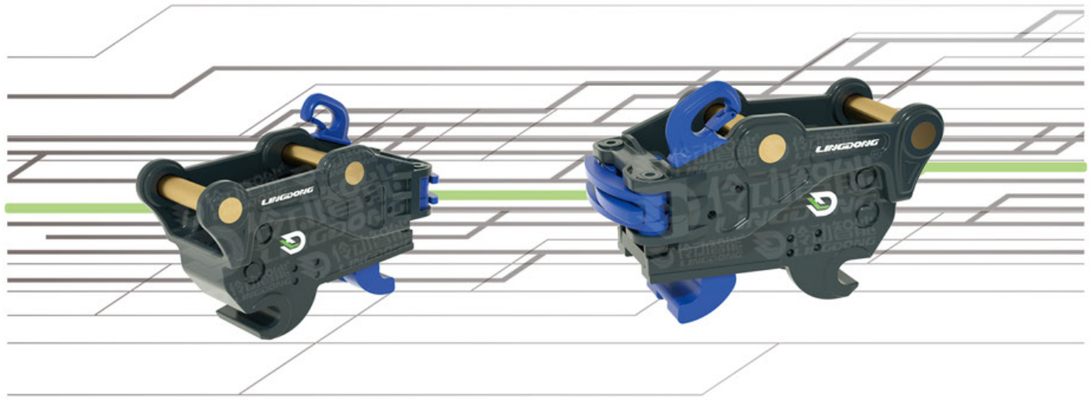
产品特点: Features & Benefits

- 360度旋转，蜗轮蜗杆结构，
  实现机械锁止，旋转锁定更稳定
  360-degree rotation with a worm gear structure for mechanical locking, ensuring more stable rotation.
- 进口伊顿马达，动力输出更稳定
  Imported Eaton motor for more stable power output.
- 一体式蜗轮蜗杆箱设计，长期使用不晃动
  Integrated worm gear housing design ensures no looseness or vibration even after long-term use.
- 360° 大流量液压油分配系统
  360° high-flow Hydraulic Oil swivel



型号Model	RBKmin	RBK02	RBK04	RBK06	RBK08
重量 Weight	93kg	183kg	192kg	452kg	610kg
轴径 Shaft Diameter	30/35/40mm	40/45mm	45-50mm	60-65mm	90-100mm
中心距 Shaft Distance	195mm	285mm	310mm	395mm	465mm
旋转角度 Rotation Angle	360°	360°	360°	360°	360°
高度 Height	432mm	532mm	525mm	680mm	750mm
适配挖机 Compatible Excavator	2.5-4 ton	4-6 ton	7-9 ton	10-15 ton	20-25 ton

如果您仅需手指夹功能
If you only need standalone thumb-clamp functions



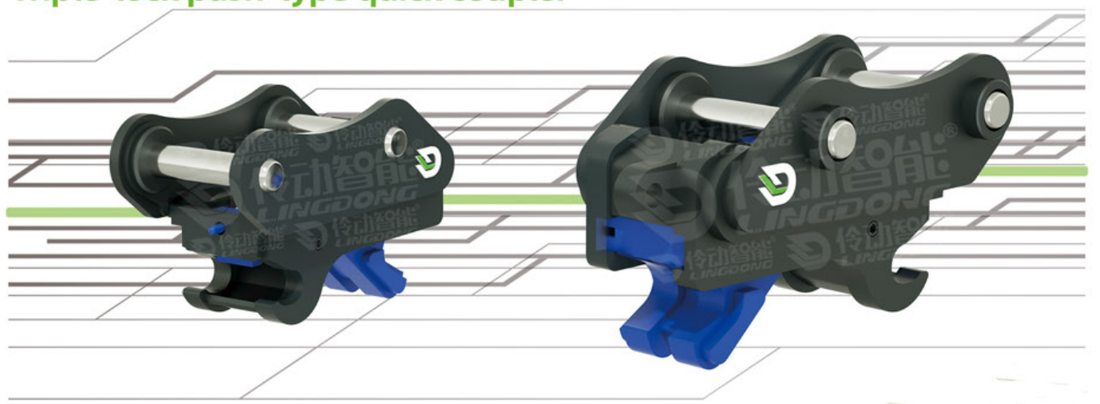
产品特点: Features & Benefits

- ●在快换基础增加了手指夹功能，轻松拿捏重物，为挖掘机赋能
  Adds a finger-grip function on the quick coupler, easily grasping heavy objects, empowering the excavator.
- ●整体合金铸造，稳定可靠，结构高度紧凑
  Made of integrated alloy casting, stable and reliable with a highly compact structure.
- ●夹子以及快换都带液压锁，安全稳定
  Both the clamp and quick coupler are equipped with hydraulic locks for safety and stability.



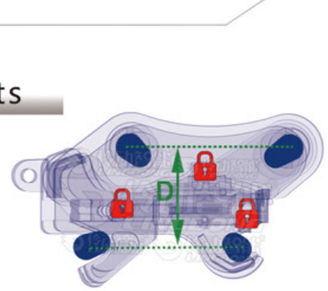
型号Model	BFKmin	BFK02	BFK04	BFK06	BFK08
重量 Weight	55kg	70kg	90kg	180kg	370kg
轴经 Shaft Diameter	25-40mm	40-45mm	45-55mm	60-65mm	70-80mm
中心距 Center Distance	95-220mm	240-290mm	260-320mm	360-410mm	440-510mm
最大开口 Maximum opening	180mm	230mm	350mm	420mm	500mm
总高度 Total Height	240mm	265mm	265mm	325mm	380mm
适配挖机 Compatible Excavator	0.5-1.5 ton	4-6 ton	6-9 ton	10-15 ton	20-25 ton

三锁平推式快换
Triple-lock push-type quick coupler

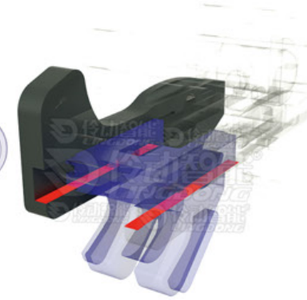


产品特点: Features & Benefits

- ●采用耐磨450高强度钢，耐磨寿命长。
  Made from high-strength, wear-resistant 450 steel for extended service life.
- ●紧凑型超薄设计，挖掘力损失更小，挖掘机更省油。
  Compact, ultra-slim design minimizes digging force loss and helps reduce excavator fuel consumption.
- ●三重锁止结构，安全可靠，可定制为液压手腕模块及倾斜快换，旋转快换
  Triple-lock safety design for reliable attachment retention. Customizable as a tiltrotator module, tilt quick coupler, or rotating quick coupler.



三重锁止超薄设计
Triple-Lock Security & Ultra-Slim Design



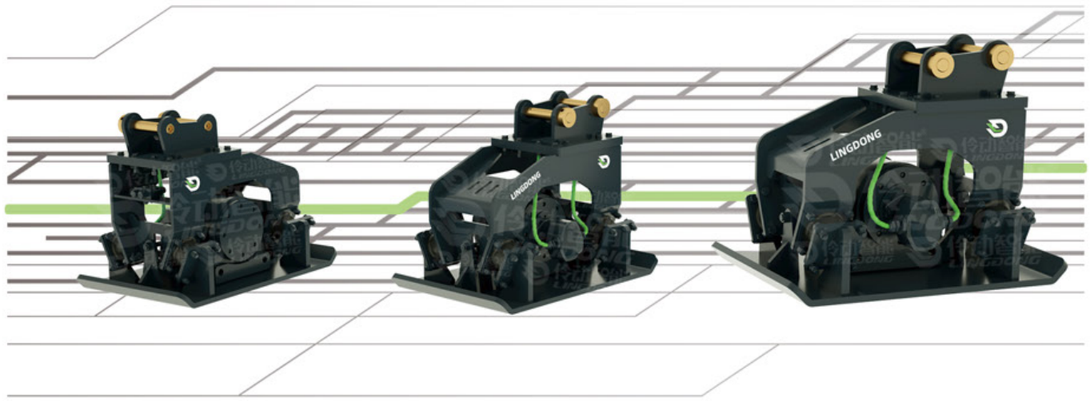
平推式快换壳体受力
Push-Type Load-Bearing Structure



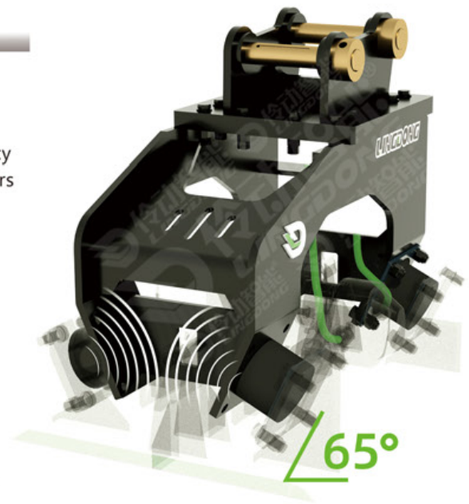


型号Model	HBK01	HBK02	HBK04	HBK06	HBK08	HBK10	HBK12
重量 Weight	40kg	70kg	80kg	180kg	336kg	665kg	841kg
轴径 Shaft Diameter	30-40mm	40-50mm	50mm	60-65mm	80mm	90mm	100-110mm
中心距 Center Distance	110-200mm	220-330mm	310mm	330-420mm	465mm	510mm	550-650mm
轴高(D) Pin Height(D)	180/185mm	189mm	193mm	247mm	304.5mm	375mm	405mm
高度 Height	280mm	360mm	310mm	398mm	505mm	622mm	650mm
适配挖机 Compatible Excavator	1-4 ton	4-6 ton	6-9 ton	10-15 ton	18-26 ton	30-38 ton	40-60 ton

震动夯
Compactor



产品特点: Features & Benefits



- ●进口马达，高效稳定
  高等级减震块，寿命长
  Imported hydraulic motor, ensuring high efficiency and stable performance.High-grade shock absorbers with extended service life
- ●欧式不对称结构设计，可深入上方有障碍物的地方压实。
  European asymmetric structural design allows operation in confined spaces and compaction under overhead obstacles.
- ●壳体内倾斜65°减震夹角设计，将大量震动吸收到壳体，提高减震块寿命。
  65° Inner Shell Shock-Absorption Angle – absorbs vibration into the shell, extending the service life of damping blocks.

型号Model	HPCmin	HPC04	HPC06	HPC08	HPC10
重量 Weight	200kg	382kg	692kg	1000kg	1300kg
打击力 Impact force	3 ton	4 ton	6.5 ton	11 ton	15 ton
震动频率 Vibration frequency	2000rpm/min	2000rpm/min	2000rpm/min	2200rpm/min	2200rpm/min
液压油流量 Hydraulic oil flow	30-60L/min	45-85L/min	85-105L/min	120-170L/min	120-170L/min
工作压力 Working pressure	100-130 bar	100-130 bar	100-150 bar	150-200 bar	150-200 bar
适配挖机 Compatible Excavator	2-4 ton	4-10 ton	12-16 ton	18-24 ton	30-40 ton

伶动液压手腕属具——抓夹系列
Lingdong hydraulic tools——gripping series



抓木/抓钢/抓石器
Log Grapple / Steel Grapple / Stone Grapple

型号Model	LLG04	LLG07	LLG10	LLG15
重量 Weight	87kg	263kg	383kg	565kg
夹口尺寸 Max Jaw Opening	800mm	1200mm	1500mm	1900mm
油缸流量 Flow Cylinder	10-20 L/min	15-25 L/min	30-40 L/min	55-65 L/min
马达流量 Motor flow	30-55 lpm	30-55 lpm	40-70 lpm	40-70 lpm
尺寸 Dimension	956*372*740mm	1300*550*1060mm	1600*650*1160mm	1190*728*880mm
适配挖机 Compatible Excavator	2-4 ton	5-7ton	7-12 ton	12-15 ton

手指抓
Finger grapple

型号Model	LFC07	LFC10	LFC15
重量 Weight	336kg	356kg	545kg
开口角度 Max Jaw Opening	1475mm	1475mm	1550mm
爪宽 Claw width	465mm	465mm	600mm
旋转角度 Rotation Angle	±360°	±360°	±360°
马达流量 Motor flow	20-35 lpm	30-55 lpm	40-70 lpm
适配挖机 Compatible Excavator	5-7 ton	7-12 ton	12-15 ton





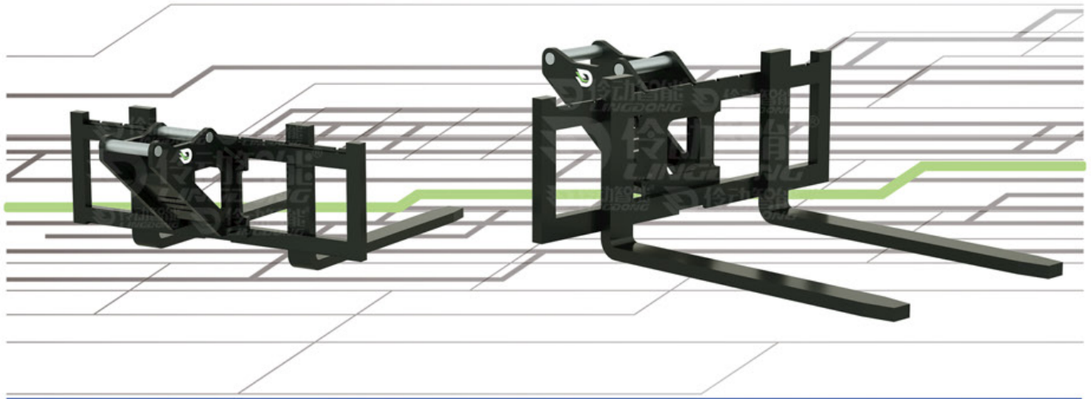
岩石夹
Heavy-duty grapple

型号Model	LRC04	LRC07	LRC10	LRC15	LRC20
重量 Weight	108kg	223kg	446kg	465kg	578kg
开口角度 Maximum opening	800mm	1100mm	1600mm	1600mm	1860mm
闭合容积 Closed Capaity	0.03m³	0.07m³	0.2m³	0.2m³	0.6m³
旋转角度 Rotation Angle	±360°	±360°	±360°	±360°	±360°
运行流量 Necessary Flow	25-40 lpm	30-55 lpm	50-100 lpm	90-110 lpm	100-140 lpm
适配挖机 Compatible Excavator	2-4 ton	5-7 ton	7-12 ton	12-15 ton	15-22 ton



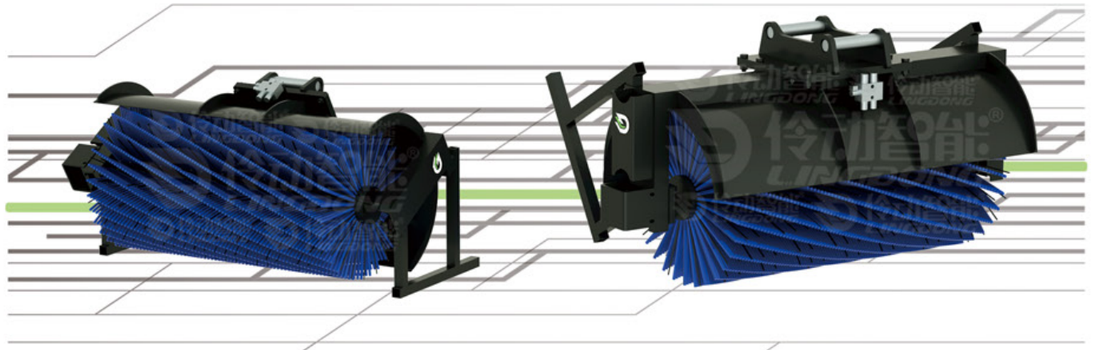
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叉车架 Forklift frame



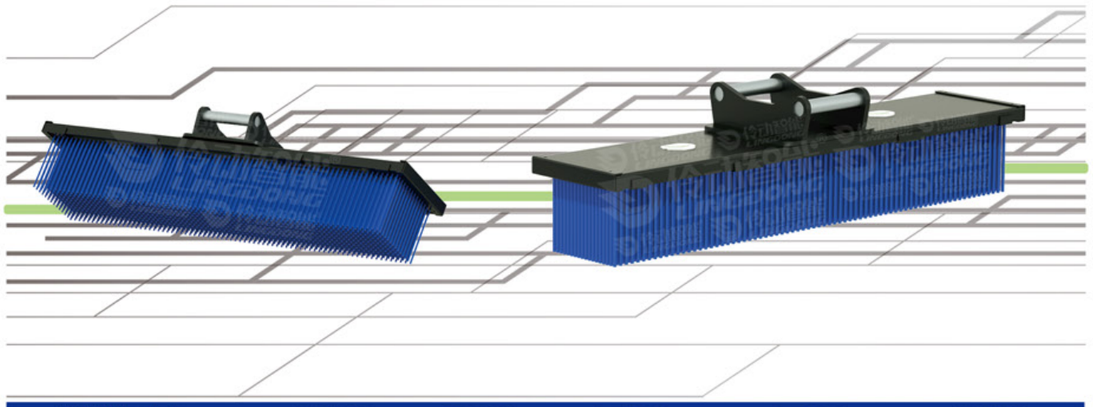
型号Model	LFF04	LFF07	LFF10	LFF15	LFF20
叉齿载重T Fork tine load capacity	2ton	2ton	2ton	3ton	5ton
叉齿长度mm Fork tine length	1070mm	1070mm	1070mm	1220mm	1370mm
适用挖机T Compatible Excavator	2-4ton	5-7ton	7-12ton	12-15ton	15-22ton

滚筒扫地机 Rotary sweeper



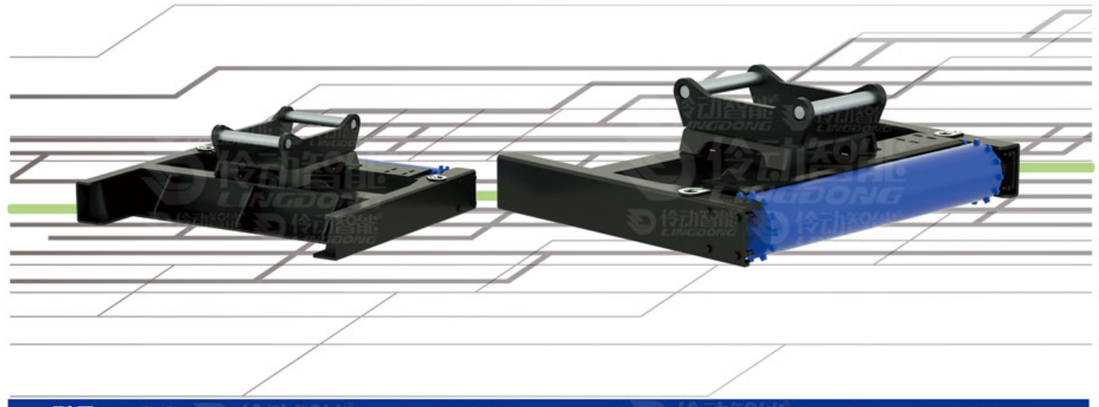
型号Model	LRS07	LRS10	LRS15	LRS20
清扫长度mm Sweeping length	1200mm	1200mm	2000mm	2000mm
滚筒直径mm Roller diameter	600mm	600mm	600mm	600mm
适用挖机T Compatible Excavator	5-7ton	7-12ton	12-15ton	15-22ton

平板刷 Flat brush



型号Model	LFH04	LFH07	LFH10	LFH15	LFH20
清扫长度mm Sweeping length	1200mm	1500mm	1500mm	2000mm	2000mm
宽度mm width	300mm	300mm	300mm	450mm	450mm
适用挖机T Compatible Excavator	2-4ton	5-7ton	7-12ton	12-15ton	15-22ton

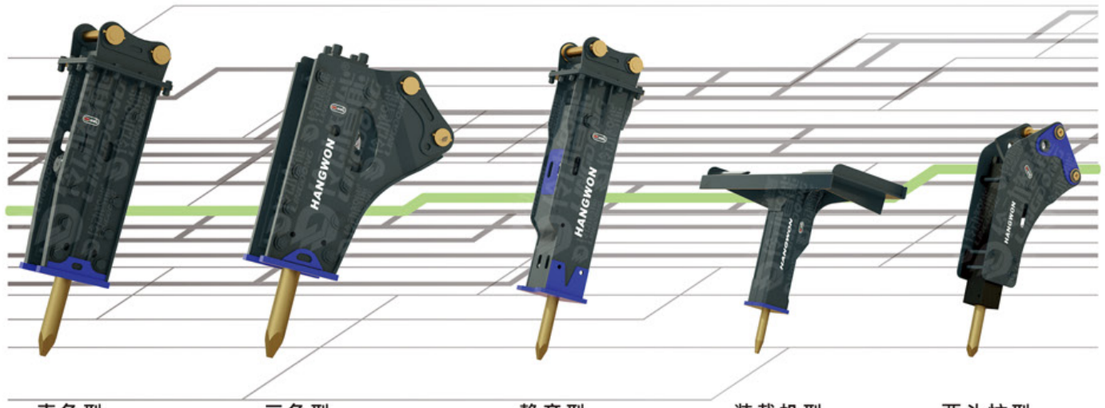
平地器 Leveler



型号Model	LPL04	LPL07	LPL10	LPL15	LPL20
宽度mm Roller diameter	900mm	1200mm	1200mm	2000mm	2000mm
适用挖机T Compatible Excavator	2-4 ton	5-7 ton	7-12 ton	12-15 ton	15-22 ton

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液压破碎锤
Hydraulic breaking hammer



直角型 TOP type | 三角型 Side Type | 静音型 Box Type | 装载机型 Loader Type | 两头忙型 Backhoe Type

产品特点: Features & Benefits

- 高效的能量传递:高能效设计，
  实现活塞和钎杆最理想撞击，打击力强劲
  Efficient energy transfer: High energy-efficiency design achieves optimal impact between the piston and the chisel, delivering powerful striking force.
- 卓越的耐久性:优质的合金钢材料搭配最佳
  热处理方式制造，保证了产品的耐用性，寿命更长。
  Exceptional durability: Premium alloy steel materials combined with optimal heat treatment ensure product longevity and extended service life.
- 高品质部件:重视每个零部件的可靠性
  High-quality components: Emphasizing the reliability of every part.





型号Model	HB35s	HB40s	HB45s	HB53s	HB68s	HB75s	HB100s	S29
重量 Weight	60kg	65kg	90kg	120kg	250kg	380kg	765kg	850kg
钎杆直径 Tool diameter	35mm	40mm	45mm	53mm	68mm	75mm	100mm	100mm
工作油压 Oil flow rate	80-110bar	90-120bar	90-120bar	90-120bar	110-140bar	130-160bar	150-170bar	125-160bar
打击频率 Blows per minute	500-1200Bpm	800-1400Bpm	700-1200Bpm	600-1100Bpm	500-900Bpm	400-800Bpm	350-700Bpm	500-1000Bpm
适配挖机 Compatible Excavator	0.6-1 ton	0.8-2 ton	1.2-3 ton	2.5-4.5 ton	4-7 ton	6-9 ton	11-16 ton	9-15 ton

高品质配件
High-quality accessories




油封Oil seal


活塞Piston


换向阀Valve


储能器Accumulator


通体螺栓Bolt


扁销Rod Pin


内外套Cover


钎杆Rod









HB125s	HB140s	X-20s	HB20G	HB30G	HB155s	HB165s	HB175s	HB195s
1277kg	1767kg	1767kg	1658kg	2218kg	2577kg	2751kg	3910kg	4867kg
125mm	140mm	140mm	135mm	150mm	155mm	165mm	175mm	195mm
150-170bar	160-180bar	160-180bar	160-180bar	160-180bar	160-180bar	170-200bar	180-210bar	200-280bar
350-650Bpm	350-500Bpm	350-500Bpm	400-800Bpm	350-700Bpm	300-450Bpm	250-400Bpm	200-350Bpm	180-200Bpm
15-18 ton	18-26 ton	18-26ton	18-26 ton	27-35 ton	28-35ton	30-40 ton	35-40 ton	45-55 ton

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伶动液压手腕全铲斗（可定制）
LINGDONG tiltrotator buckets(customizable)



平地斗
Grading buckets

伶动液压手腕铲斗按欧洲S系统规格设计，兼容S30至S70接口。也兼容各品牌液压手腕，并可根据客户要求定制适配欧洲和美国的CW、MS等快换连接标准。

Lingdong buckets are designed in accordance with the European S-system standard and are compatible with S30-S70 interfaces. They are also compatible with mainstream tiltrotators and can be customized to fit European and American quick coupler systems such as CW and MS upon request.







挖掘斗
Digging buckets



平地宽斗
Ditching buckets



窄斗
Cable buckets



栅格斗
Sorting buckets



V型窄斗
V Cable buckets



浇筑斗
Concrete Pouring buckets



V型斗
V Ditch buckets



加宽栅格斗
Widened Sorting buckets

液压手腕动力属具 Tiltrotator hydraulic tools



滚筒扫地机
Rotary sweeper



震动夯
Plate Compactor



破碎锤
breaking hammer



树剪
Tree Shear

液压手腕无动力属具 Tiltrotator Mechanical Tools



沥青切割器
Asphalt cutter



松土器
Ripper



树根钩
Root ripper



压实器
Compaction wheel



叉车架
Forklift frame



平地器
Leveler



耙子
Rake



平板刷
Flat brush

其他属具 Other accessories



铸造快换
Cast quick coupler



S快换
S quick coupler



CW快换
CW quick coupler



MS快换
MS quick coupler



快换销轴夹
Pin-Grabber

伶动的发展历程
Lingdong's Development Journey

2020液压手腕立项
立足十年挖掘机传统属具制造，追赶世界趋势研发液压手腕

Tiltrotator project initiation.Based on ten years of experience in manufacturing traditional excavator attachments, LINGDONG started researching and developing the tiltrotator to keep pace with global trends.





2021
液压手腕正式开发
Official development of the tiltrotator



2022
第一台L07伶动液压手腕测试
The First Lingdong L07 Tiltrotator Test



2023
伶动液压手腕正式推向市场
反响强烈
Lingdong Tiltrotator was officially launched and received a strong positive response.

伶动的发展历程
Lingdong's Development Journey



2024

伶动液压手腕亮相宝马展，获得广大外国客户青睐

Lingdong Tiltrotator Showcased at Bauma - Highly Praised by International Customers



2025

越来越多全球客户莅临伶动参观指导，洽谈合作。

More and More Customers Worldwide Visiting Lingdong for Guidance and Cooperation

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世界各地伶动客户案例
Lingdong Tiltrotator Customer Case


WITH Bobcat


WITH HENGTE


WITH HYUNDAI


WITH CAT


WITH LOVOL


WITH DOOSAN


WITH 山东临工


WITH SANY


WITH XCMG


WITH XINYUAN


WITH HITACHI

伶动的社会责任
Lingdong's Social Responsibility









伶动不仅致力于产品的卓越品质，更致力于慈善和社会公益事业。我们相信慈善是社会稳定和进步的重要力量。伶动每年将0. 1%的销售利润捐赠给残疾儿童教育机构，并持续参与公益活动，彰显了品牌的社会价值和责任担当。

Lingdong is committed not only to product excellence but also to charity and social welfare. We believe that philanthropy is an important force for social stability and progress. Lingdong donates 0.1% of annual sales profits to educational institutions for disabled children and continuously participates in public welfare activities, demonstrating the brand's social value and responsibility.