

乐亭卓展国际贸易有限公司

Laoting Zhuozhan International Trade Co., Ltd.



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支撑世界·筑梦世界

Holding world·Building world



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公司简介
Company profile



卓展集团是一家集研发、生产、销售为一体的实体型企业，旗下拥有乐亭卓展国际贸易有限公司、河北双阳金属结构有限公司等多家公司。乐亭卓展国际贸易有限公司成立于2024年，拥有专门打造的国际贸易团队，致力于为全球客户提供优质的建筑材料和脚手架解决方案。公司产品包括盘扣脚手架、门式脚手架、伸缩梯、镀锌管、卷材、型钢等，广泛应用于建筑、桥梁等工业领域。其工厂河北双阳金属结构有限公司（原唐山双赢建筑设备厂）成立于2014年，工厂占地面积13132.68平方米，建筑面积7124.58平方米，现有员工500余人。工厂拥有生产设备150余台套，年产钢管30万吨、板材45万吨、脚手架配件30万吨、可调节螺旋柱500万支，工厂还设有生产、销售、采购、财务、品管、研发等部门，研发团队申请技术专利15余项。卓展集团产品销往全国30多个省份，合作厂家150余家，其中包括数家国家重点企业项目，远销亚洲、欧洲、非洲、美洲等地区国家，去年销售额突破2000多万美元。

卓展集团始终坚持诚信，认为质量是生命，创新是根本，通过不断的技术创新和严格的质量控制，确保每一位客户都能得到优质的产品和服务。努力成为行业创新领导者，通过卓越的产品和服务为客户创造无限价值。我们希望营造一个充满信任与合作的商业环境，让每一位客户与我们共同成长，促进社会与环境的可持续发展。

乐亭卓展国际贸易有限公司期待与您携手共创美好未来。

Zhuozhan Group is an entity-based enterprise integrating R&D, production and sales. It has several companies including Laoting Zhuozhan International Trade Co., Ltd. and Hebei Shuangyang Metal Structure Co., Ltd. Laoting Zhuozhan International Trade Co., Ltd. was established in 2024. It has a specially built international trade team dedicated to providing high-quality building materials and scaffolding solutions to global customers. The company's products include buckle scaffolding, gantry scaffolding, telescopic ladders, galvanized pipes, coils and steel sections, which are widely used in construction, decoration and other industrial fields. Its factory, Hebei Shuangyang Metal Structure Co., Ltd. (formerly Tangshan Shuangying Building Equipment Factory) was established in 2014. The factory has 13,132.68 square meters of land and a construction area of 7,124.58 square meters. There are more than 500 employees. The factory has more than 150 sets of production equipment, with an annual output of 300,000 tons of steel pipes, 450,000 tons of plates, 300,000 tons of scaffolding accessories, and 5 million adjustable screws. The factory also has production, sales, purchasing, finance, quality control, R&D and other departments. The R&D team has applied for more than 15 technical patents. Zhuozhan Group's products are sold to more than 30 provinces in China, with more than 150 cooperative manufacturers, including several national key enterprise projects. They are exported to countries in Asia, Europe, Africa, America and other regions, with sales exceeding more than 20 million US dollars last year.

Zhuozhan Group always adheres to integrity. It believes that quality is life and innovation is the foundation. Through continuous technological innovation and strict quality control, it ensures that every customer can get high-quality products and services. Strive to become an innovation leader in the industry and create unlimited value for customers through excellent products and services. We hope to create a business environment full of trust and cooperation, so that every customer can grow with us and promote the sustainable development of society and the environment.

Laoting Zhuozhan International Trade Co., Ltd. looks forward to working with you to create a better future.





价值观 Values

用心创造 用爱创新 以信立企 以团进退

Create with heart, innovate with love, build a company with trust, advance and retreat with teamwork



使命 Mission

匠心铸造品质 创新成就未来 服务照亮梦想

Craftsmanship creates quality, innovation creates the future, and service illuminates dreams



愿景 Vision

铸就卓越品质 成就全球制造业的标杆企业

用匠心创造美好生活

To create excellent quality and achieve global manufacturing benchmarking enterprises to create a better life with ingenuity



企业优势 Enterprise advantages

产能优势 Capacity advantage
源头工厂，面积40000平，年产能超20万吨
source factory, area of 40,000 square meters,
annual capacity of over 200,000 tons

技术优势 Technology advantage
15项国家专利
15 national patents

地理优势 Geographical advantage
靠近三大港口（京唐港，天津港，曹妃甸港）
close to three major ports (Jingtang Port,
Tianjin Port, Caofeidian Port)

规模优势 Scale advantage
工厂规模：员工200多人，设计团队20余人设计
专业工程方案
Factory scale: more than 200 employees,
more than 20 design teams to design
professional engineering solutions

经验优势 Experience advantage
深耕行业12年
12 years of industry experience

口碑优势 Reputation advantage
市场覆盖：全国30余省，近200家合作伙伴
Market coverage: more than 30 provinces
in China, nearly 200 partners

品质优势 Quality advantage
国企央企合作背景(中建八局，中建四局)
cooperation background with state-owned
enterprises and central enterprises (China
Construction Eighth Engineering Bureau,
China Construction Fourth Engineering Bureau)

服务优势 Service advantage
专人专岗，24小时随时回复
dedicated personnel Post, reply at any time
24 hours a day

产品优势 Product advantages

承载力大：Q355B材质，单根承重高达10吨，是普通的1.5倍
Large bearing capacity: Q355B material, single load-bearing capacity up to 10
tons, 1.5 times that of ordinary ones

安装便捷：每人每天可安装150-300m2，是传统的3-5倍
Easy installation: Each person can install 150-300m2 per day, 3-5 times that of
traditional ones

多功能性：使用场景近100种，楼房，船舶，航空航天等
Versatility: Nearly 100 usage scenarios, buildings, ships, aerospace, etc.

轻巧省材：相同承载下，用量减至传统1/2重量降至1/2-1/3
Lightweight and material-saving: Under the same load, the amount is reduced
to 1/2 of the traditional weight and reduced to 1/2-1/3

寿命周期：热镀锌工艺使用寿命长平均10余年，正常使用15-20年
Life cycle: Hot-dip galvanizing process has a long service life of more than 10
years on average, and 15-20 years in normal use

精准把控：产品尺寸数据误差±1mm
Precise control: product size data error ±1mm



企业荣誉
Honor of Company



盘扣脚手架简介 Introduction to Ring-lock Scaffolding



材质 Material	盘扣脚手架采用Q355B高强度钢或Q235碳钢制造，表面经热镀锌或喷漆处理，防锈耐腐蚀，户外使用寿命达15~30年。 Ring-lock scaffolding is made of high-strength steel Q355B or carbon steel Q235, with hot-dip galvanized or painted surfaces for rust resistance, offering 15–30 years of service life outdoors.
规格 Specifications	立杆直径：常用48mm、60mm，壁厚3.2mm~3.5mm。 水平杆/斜杆：长度0.5m、1m、1.5m、2m、3m，模块化组合。 Vertical Pole Diameter: 48mm, 60mm (common), wall thickness 3.2mm–3.5mm. Horizontal/Diagonal Poles: Lengths 0.5m, 1m, 1.5m, 2m, 3m for modular assembly.
承载能力 Load Capacity	单立杆极限荷载≥20吨（60系列），横杆节点抗滑移力≥15kN。 Single pole ultimate load ≥20 tons (60 series); node anti-slip force ≥15kN.
标准 Standards	符合GB 24911、EN 12811等。 Complies with GB 24911, EN 12811, etc.
用途 Applications	建筑主体施工：高层建筑外架、模板支撑。 Building Construction: High-rise exterior scaffolding, formwork support. 桥梁工程：现浇箱梁支架、桥墩施工平台。 Bridge Engineering: Cast-in-place box girder supports, pier platforms. 舞台/展馆：大跨度临时结构搭建。 Stage/Exhibition Halls: Large-span temporary structures. 工业维护：石化设备检修架、电厂维护平台。 Industrial Maintenance: Petrochemical equipment access, power plant platforms.

>>> 特点

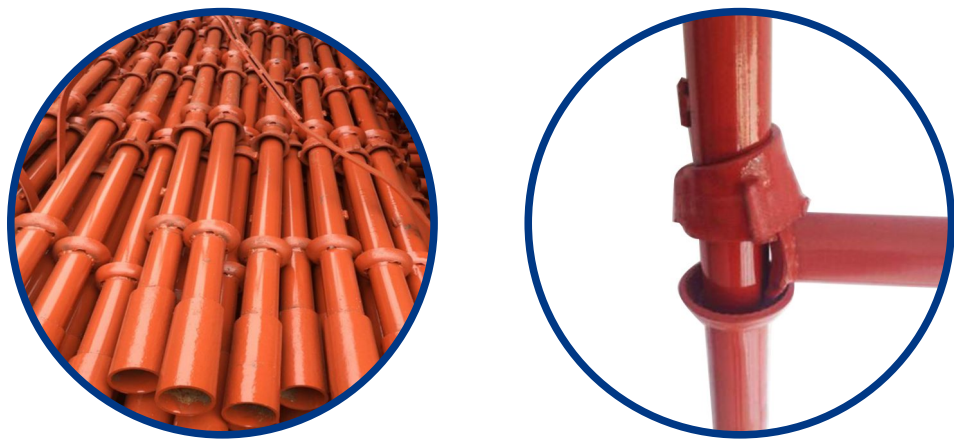
- 模块化设计：插销式连接，安装效率比扣件式快3倍。
- 高稳定性：斜杆双向锁紧，节点抗变形性强。
- 安全性高：无零散配件，荷载均布，通过CE/OSHA认证。
- 重复使用：标准化构件可循环使用300次以上。

>>> Features:

- Modular Design: Pin-connected joints enable 3x faster assembly than traditional coupler systems.
- High Stability: Bi-directional diagonal bracing enhances node rigidity.
- Safety Certified: No loose parts, CE/OSHA compliance.
- Reusability: Standardized components can be reused over 300 cycles.



碗扣脚手架简介 Introduction to Cup-lock Scaffolding



材质
Material Cup-lock scaffolding is crafted from Q235 carbon steel or high-strength Q345B steel, with hot-dip galvanized surfaces for rust resistance, ensuring 10–20 years of outdoor durability.

规格
Specifications Vertical Pole Diameter: Standard 48mm, wall thickness 3.0mm–3.5mm, modular lengths 0.3m–3m.
Horizontal/Diagonal Poles: Horizontal modules 0.3m, 0.6m, 0.9m, 1.2m; diagonal braces for reinforcement.

承载能力
Load Capacity Single pole ultimate load ≥ 15 tons (48 series); node anti-slip force ≥ 10 kN.

标准
Standards Complies with GB/T 24911, JGJ 166, etc.

用途
Applications Bridge Construction: Cast-in-place beam supports, pier formwork.
Building Projects: High-rise exterior scaffolding, large-span slab formwork.
Industrial Facilities: Power plant chimney construction, petrochemical maintenance platforms.
Municipal Works: Tunnel shoring, viaduct temporary structures.

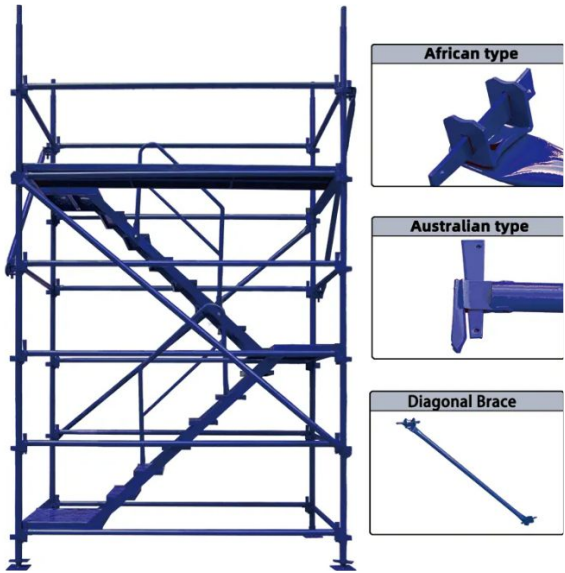


>>> 特点
节点牢固：碗扣式连接自锁性强，抗拉/压性能优异，荷载传递明确。
高效灵活：无螺栓组装，搭设速度比扣件式快2倍以上，适应复杂地形。
安全稳定：多向斜撑强化整体刚度，通过GB 5725安全认证。
经济耐用：标准化构件重复使用200次以上，维护成本低。

>>> Features:
Secure Joints: Cup-lock self-locking mechanism ensures superior tensile/compressive performance.
Efficient Assembly: Tool-free installation, 2x faster than traditional bolt systems, adaptable to complex layouts.
Enhanced Safety: Multi-directional bracing improves rigidity; GB 5725 certified.
Cost Efficiency: Reusable components (200+ cycles) with minimal maintenance.

星星脚手架简介

Introduction to Star Scaffolding



单星主体尺寸

Single Star Main Body Dimensions

外接圆直径：常规尺寸为2m（小型）、5m（标准），支持定制8m~15m（需结构验算）。
立体厚度：0.5m~1.2m（根据直径比例调节，增强视觉立体感）。
Circumcircle Diameter: Standard sizes include 2 m (small), 5 m (standard), with customization available for 8–15 m (requires structural verification).
Stereoscopic Thickness: Adjustable from 0.5–1.2 m (proportional to diameter for enhanced 3D visual effect).

模块化组件

Modular Components

管件长度：主框架预切割为1m/2m标准段，公差±2mm，适配快速拼接。
扩展组合：支持多星串联（如星座、星链形态），横向间距可调（1m~3m）。
Tube Length: Pre-cut 1 m/2 m standard segments (± 2 mm tolerance), compatible with rapid assembly.
Expansion Configuration: Supports multi-star series connections (e.g., constellations, star chains) with adjustable lateral spacing (1–3 m).

结构适配要求

Structural Compatibility Requirements

底座尺寸：配重块基础（1m×1m×0.3m混凝土）或法兰盘直径≥40cm（螺栓固定）。
抗风安全间距：户外独立放置时，周边需预留≥2m无遮挡空间（15m以上定制款需额外加固）。
Base Dimensions: Counterweight block foundation (1 m × 1 m × 0.3 m concrete) or flange plate (diameter ≥ 40 cm, bolt-fixed).
Wind-Resistant Safety Clearance: For outdoor standalone placement, reserve ≥ 2 m unobstructed space (additional reinforcement required for custom models ≥ 15 m).



注：特殊尺寸需提供场地参数（如承重、风速），由工程师匹配斜撑密度与连接方案。

Note: Custom dimensions require site parameters (e.g., load-bearing capacity, wind speed) for engineers to optimize bracing density and connection solutions.

This translation maintains technical accuracy while aligning with industry terminology.

电动脚手架简介

Introduction to Electric Scaffolding



规格尺寸与材质 Specifications, Dimensions, and Materials

主体结构材质 Materials for the Main Structure

钢管：主立杆采用热镀锌钢管，重型(Z型)规格为 $\Phi 60.3 \times 3.2\text{mm}$ (材质Q355)，标准型(B型)为 $\Phi 48.3 \times 3.2\text{mm}$ (材质Q355)，符合建筑工业标准。
Steel Pipes: The main vertical poles are made of hot - dipped galvanized steel pipes. The heavy - duty (Type Z) has a specification of $\Phi 60.3 \times 3.2\text{mm}$ (material: Q355), and the standard (Type B) is $\Phi 48.3 \times 3.2\text{mm}$ (material: Q355), which comply with the construction industry standards.

水平杆/斜杆：采用 $\Phi 48.3 \times 2.5\text{mm}$ 钢管(材质Q235B/Q195)，长度覆盖300-2000mm，用于支撑和加固结构。
Horizontal and Diagonal Bars: These are made of $\Phi 48.3 \times 2.5\text{mm}$ steel pipes (material: Q235B/Q195). The lengths range from 300mm to 2000mm, which are used for supporting and reinforcing the structure.

驱动系统材质 Materials for the Drive System

电机与齿轮组：外壳采用碳素结构钢(Q235级钢)，防坠器、导轮等部件使用低合金钢(Q345)。
Motor and Gear Set: The housing is made of carbon structural steel (Grade Q235 steel). Components such as anti - fall devices and guide wheels are made of low - alloy steel (Q345).

钢丝绳：镀锌钢丝绳(直径约5mm)，用于升降传动。
Steel Wire Rope: A galvanized steel wire rope (with a diameter of approximately 5mm) is used for the lifting and lowering transmission.

平台与附件材质 Materials for the Platform and Accessories

脚手板：可选用冲压钢板(Q235钢)、竹胶合板(厚度 $\geq 8\text{mm}$)或松木(厚度 $\geq 50\text{mm}$)，符合国家标准。

Scaffold Boards: You can choose from stamped steel plates (Q235 steel), bamboo plywood (with a thickness of $\geq 8\text{mm}$), or pine wood (with a thickness of $\geq 50\text{mm}$), which meet the national standards.

脚轮与连接件：脚轮为生铁材质(直径约14mm)，支撑架采用角铁或钢管，连接件为厚钢板或生铁。

Casters and Connectors: The casters are made of cast iron (with a diameter of a pproximately 14mm). The support frames are made of angle iron or steel pipes, a nd the connectors are made of thick steel plates or cast iron.

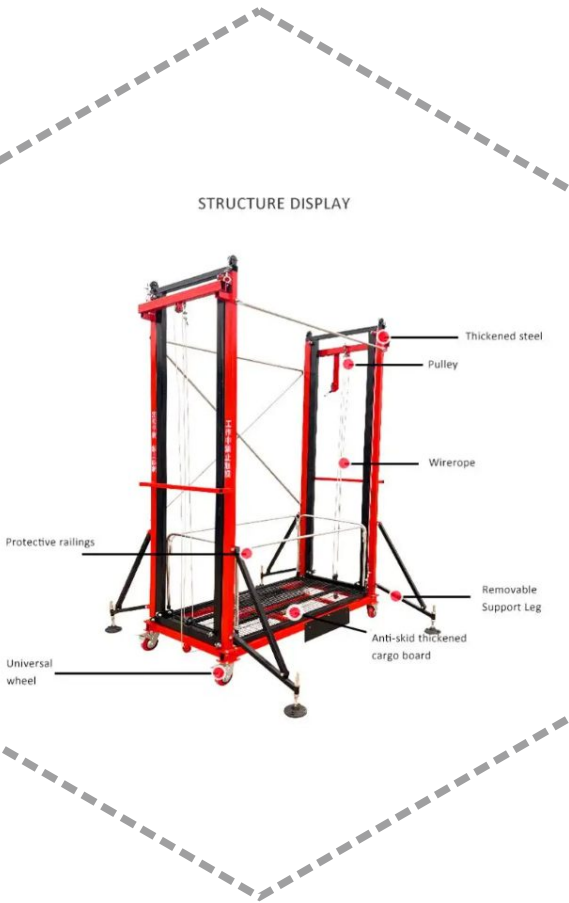
核心应用 Core Applications

建筑领域：外立面装修、幕墙施工、旧楼翻新(如北京奥运会游泳馆、三亚鲁能山海天酒店)。
Construction Field
It is used for exterior wall decoration, curtain wall construction, and renovation of old buildings (such as the swimming pool for the Beijing Olympic Games and the Sanya Luneng Shanhaitian Hotel).

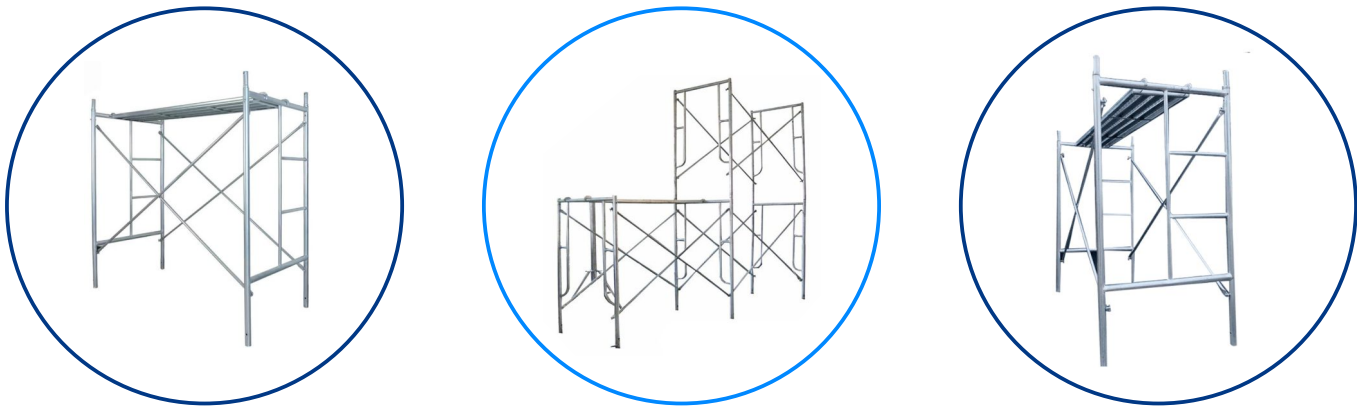
特殊场景：桥梁高墩施工、广告安装、高空清洁(15米以下灵活作业)。
Special Scenarios
It is applicable to high - pier construction of bridges, advertising installation, and high - altitude cleaning (flexible operation below 15 meters).

优势特点 Advantages and Features

安全耐用：Q355/Q235钢材质抗压强度高，热镀锌钢管防腐蚀，防坠器和智能同步控制系统保障稳定性。
Safe and Durable
The Q355/Q235 steel materials have high compressive strength. The hot - dipped galvanized steel pipes are corrosion - resistant. The anti - fall device and intelligent s
灵活适配：模块化设计支持不同规格组合，平台宽度可扩展至2.25米，荷载双柱型达36kN。



门式脚手架简介 Introduction to Frame Scaffolding



材质
Material 门式脚手架主框架采用Q235碳钢制造，表面经热镀锌或静电喷塑处理，抗腐蚀性强，户外使用寿命达10~20年。
Frame scaffolding is constructed from Q235 carbon steel, with hot-dip galvanized or powder-coated surfaces for corrosion resistance, providing 10-20 years of outdoor service life.

规格
Specifications 门架尺寸：宽度914mm、1219mm（标准门架），高度1700~1930mm/层，可叠加搭建。
Frame Dimensions: Width 914mm, 1219mm (standard); height 1700-1930mm per tier, stackable.
Cross Braces/Ledgers: Ledgers 0.5m, 1m, 1.5m; diagonal braces enhance structural rigidity.

承载能力
Load Capacity 单层工作荷载1~3吨（静载），动载≤0.5吨，符合GB 24909、EN 12810等标准。
Load Capacity: Static load 1-3 tons per tier; dynamic load ≤0.5 tons; complies with GB 24909, EN 12810.

配件
Accessories 含脚踏板、连接销、调节底座等，适配灵活。
Includes platforms, pins, adjustable bases for flexible configurations.

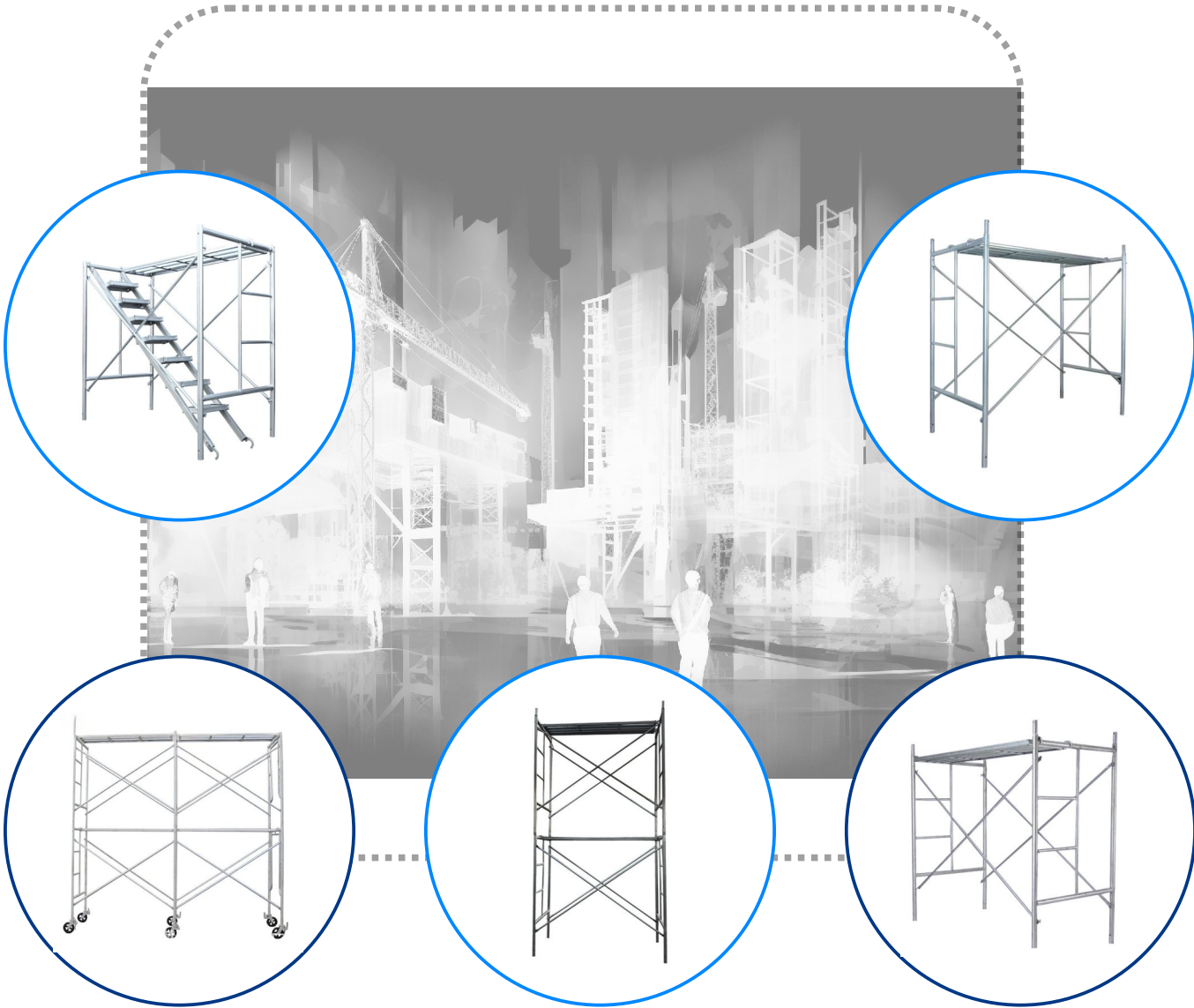
用途
Applications 建筑施工：室内外墙体砌筑、装修作业平台。
Construction: Indoor/outdoor masonry, finishing works.
厂房搭建：轻型钢结构临时支撑。
Industrial Sheds: Temporary support for lightweight steel structures.
设备安装：空调、管道高空作业。
Equipment Installation: HVAC, pipeline maintenance.
活动设施：展览、庆典舞台架体。
Events: Stages, exhibition booths.

>>> 特点

快速搭拆：模块化设计，无需工具，单人可操作。
结构稳固：门架+交叉支撑形成刚性单元，抗侧移性强。
安全可靠：宽底座防倾倒，脚踏板防滑设计，通过JGJ 128安全认证。
经济高效：成本低，适用于中小型工程短期需求。

>>>

Features: Rapid Assembly: Tool-free modular design, operable by a single worker.
Sturdy Structure: Cross-braced frames resist lateral deformation.
Safety: Anti-slip platforms, wide bases for stability; JGJ 128 certified.
Cost-Effective: Ideal for short-term small to medium projects.



镀锌管简介 Introduction to Galvanized Pipes



材质 Material	<p>镀锌管以碳钢Q235为基材，表面经镀锌处理，分为热镀锌和电镀锌两种工艺。热镀锌层较厚（60~150μm），耐腐蚀性强；电镀锌层较薄（5~30μm），表面光滑但防护性较弱。</p> <p>Galvanized pipes are made of carbon steel (e.g., Q195, Q235) as the base material, with a zinc coating applied to the surface. They are categorized into hot-dip galvanized and electro-galvanized processes. Hot-dip galvanizing offers a thicker coating (60-150 μm) with strong corrosion resistance, while electro-galvanizing provides a thinner layer (5-30 μm) with a smoother surface but weaker protection.</p>
规格 Specifications	<p>外径：常见15mm~200mm（小口径用于结构件，大口径用于输水/气）。 壁厚：0.8mm~6mm，按承压需求选择。长度：标准6米/根，可定制。</p> <p>Outer Diameter: Ranges from 15 mm to 200 mm (small diameters for structural parts, large diameters for water/gas transportation). Wall Thickness: 0.8 mm to 6 mm, selected based on pressure requirements. Length: Standard 6 meters per pipe, customizable.</p>
标准 Standards	<p>遵循GB/T 3091、ASTM A53等。</p> <p>Complies with GB/T 3091, ASTM A53, etc.</p>
用途 Applications	<p>建筑领域：脚手架、钢结构支撑、护栏。 Construction: Scaffolding, structural supports, guardrails.</p> <p>供水/气系统：市政水管、天然气低压输送。 Water/Gas Systems: Municipal water pipes, low-pressure gas delivery.</p> <p>农业：灌溉管道、大棚支架。 Agriculture: Irrigation pipes, greenhouse frames.</p> <p>电力/通信：电缆穿线保护管。 Power/Telecom: Conduit for cable protection.</p> <p>工业：机械部件、通风管道。</p>

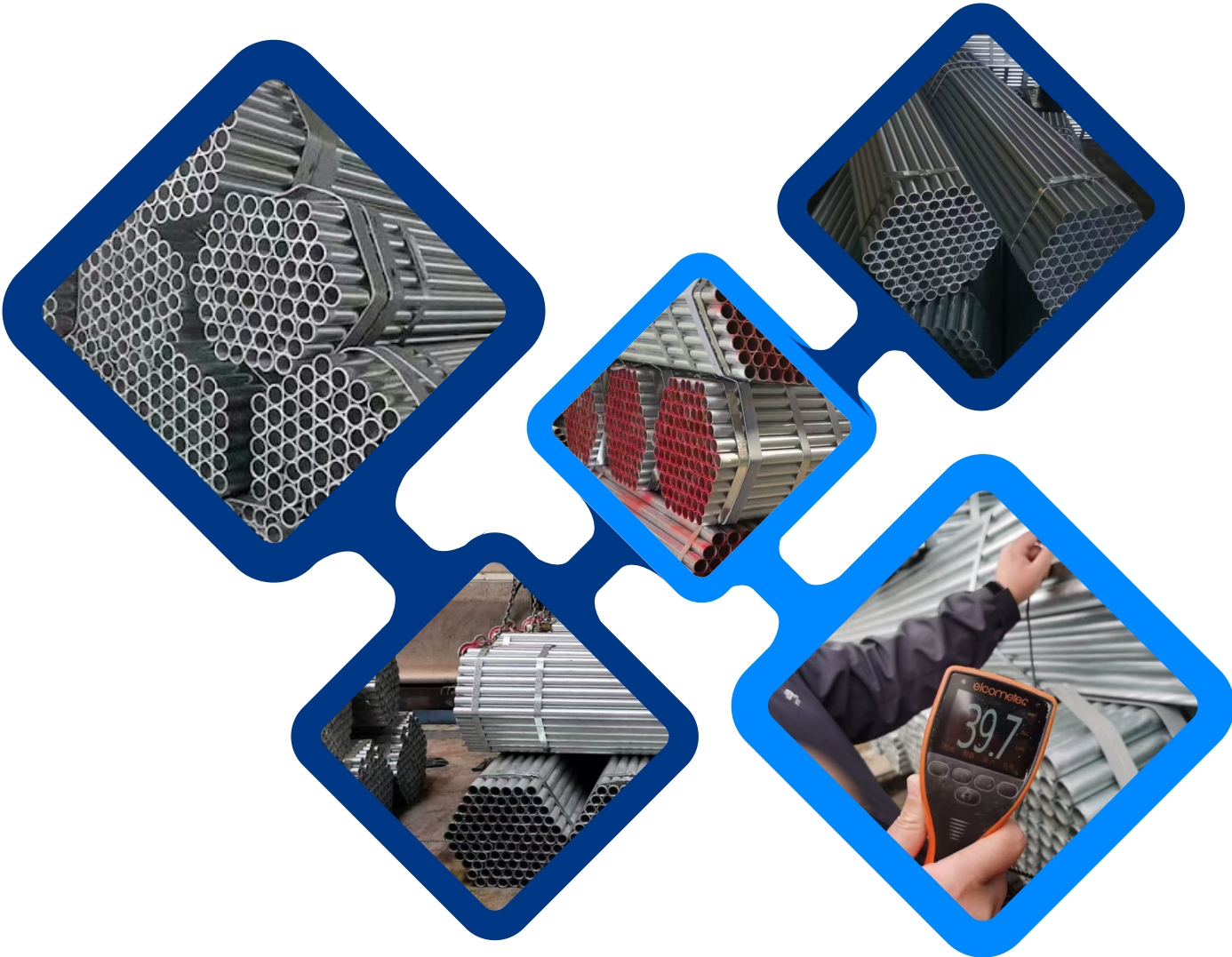
>>> 特点

镀锌层有效防锈，延长使用寿命（户外可达20~50年），性价比高，广泛用于潮湿、腐蚀性环境。

>>>

Features:

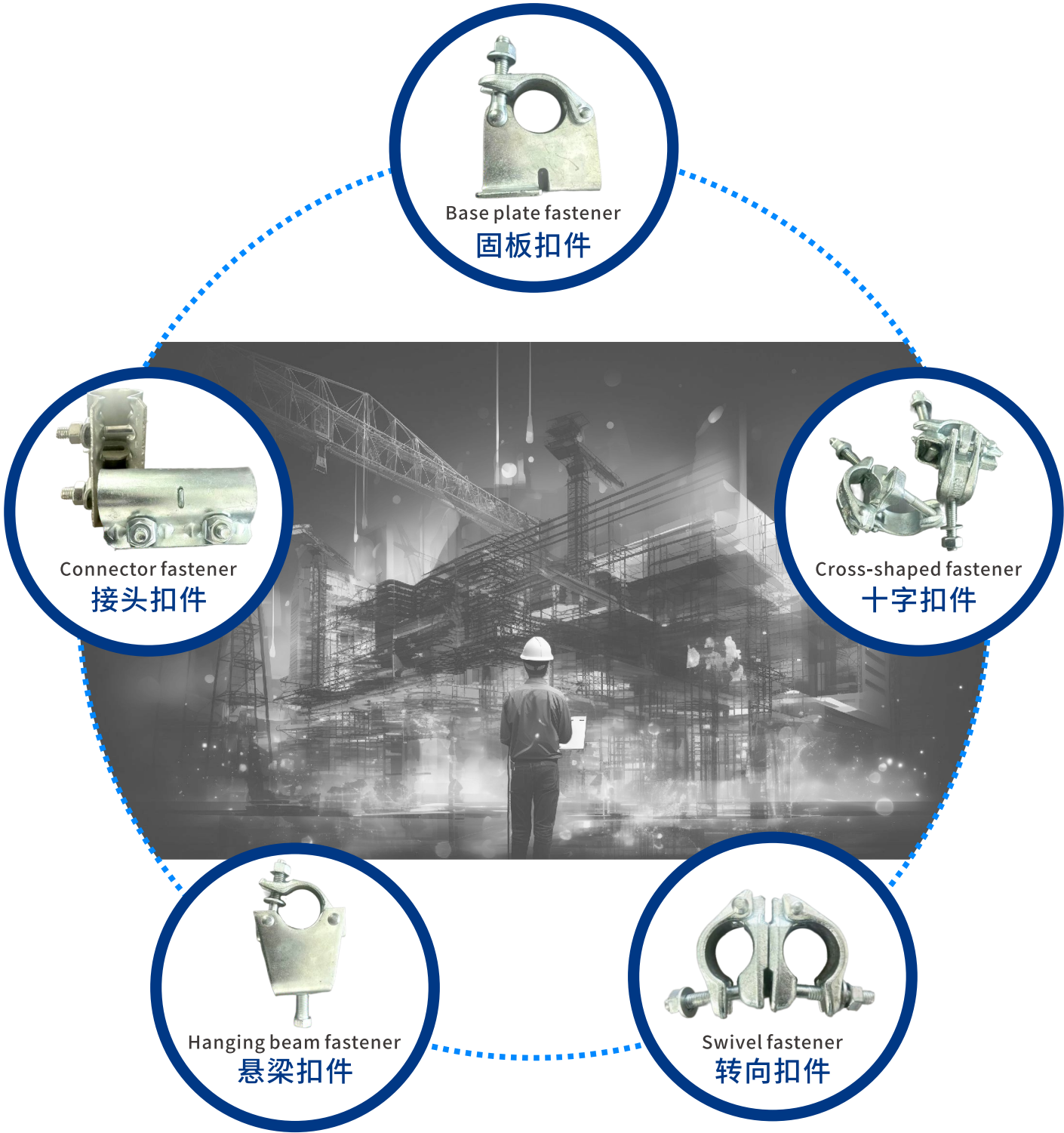
The zinc coating provides effective rust prevention, extending service life (20-50 years in outdoor environments). Cost-effective and widely used in humid or corrosive conditions.



钢管扣件简介 Introduction to pipe fastener



Product Name	Surface Treatment Method	Weight (grams)	Packaging Weight
Cross-shaped fastener	Hot-dip galvanizing / Electro-galvanizing	980±10	25 pieces * 50 bags
Connector fastener	Hot-dip galvanizing / Electro-galvanizing	995 + 10	25 pieces * 50 bags
Swivel fastener	Hot-dip galvanizing / Electro-galvanizing	1140±10	25 pieces * 50 bags
Hanging beam fastener	Hot-dip galvanizing / Electro-galvanizing	1470±10	20 pieces * 50 bags
Base plate fastener	Hot-dip galvanizing / Electro-galvanizing	610+5	30 pieces * 50 bags
Pig-ear fastener	Hot-dip galvanizing / Electro-galvanizing	610+5	30 pieces * 50 bags



钢结构简介

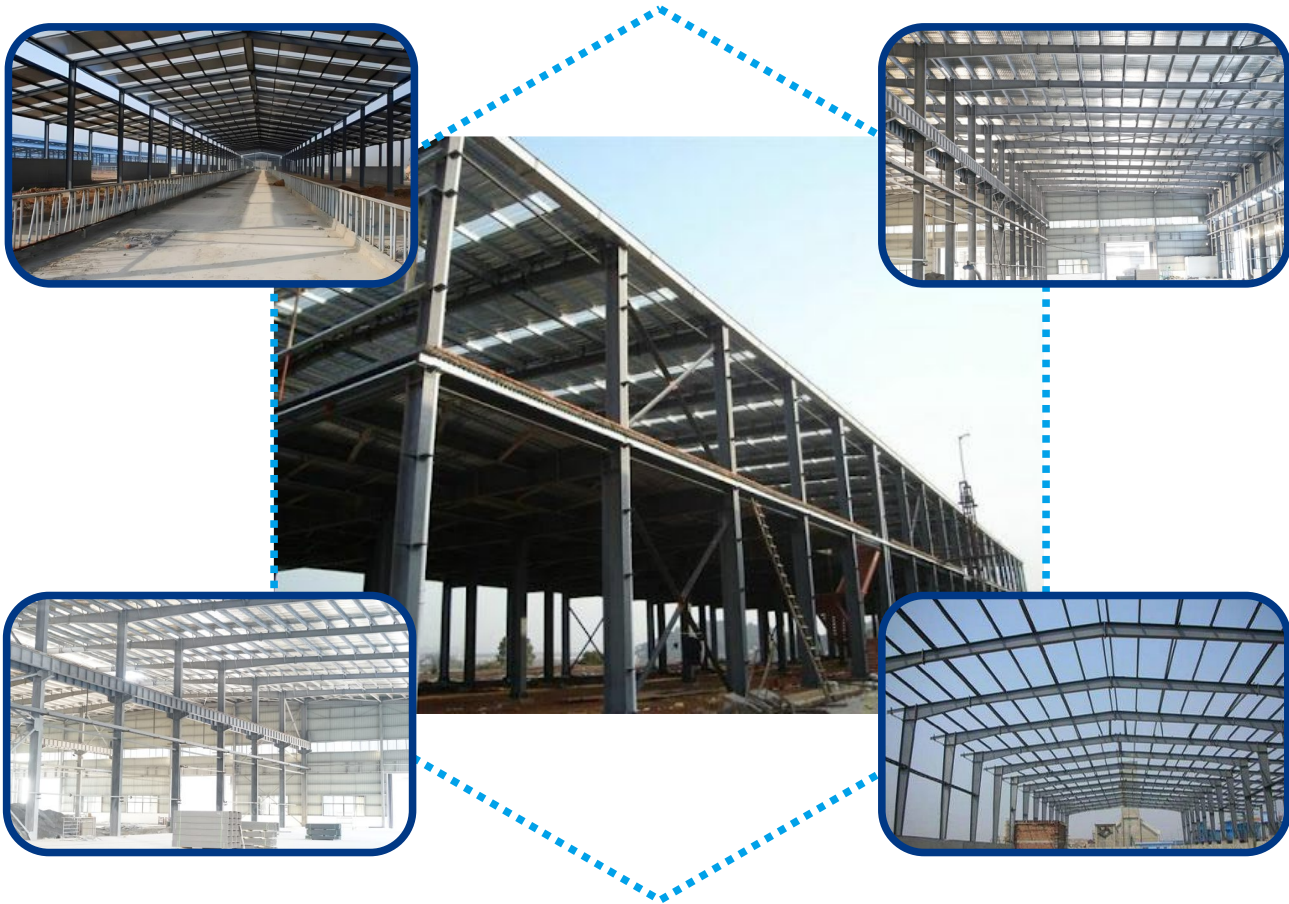
Introduction to
Steel Structures



材质 Material	钢结构主要采用Q235B、Q345B低合金高强度钢制造，表面经热镀锌、防火涂料或喷砂处理，耐候性强，使用寿命达50年以上（定期维护条件下）。 Steel structures primarily use Q235B and Q345B high-strength low-alloy steel, with hot-dip galvanizing, fireproof coatings, or sandblasting for durability. Service life exceeds 50 years with maintenance.
规格 Specifications	构件类型：H型钢、工字钢、箱型柱、C/Z型檩条等，截面尺寸灵活定制。 跨度/高度：单跨可达30m~100m（空间桁架），建筑高度不限（超高层核心筒+钢框架）。 Components: H-beams, I-beams, box columns, C/Z purlins; customizable sections. Span/Height: Single spans up to 30m~100m (space trusses); skyscraper heights unlimited (core-tube + steel frames).
承载能力 Load Capacity	抗拉强度≥400MPa，抗震设防烈度8~9级，符合GB 50017、AISC 360等标准。 Tensile strength ≥400MPa; seismic resistance up to 8~9 magnitude; complies with GB 50017, AISC 360.
连接方式 Connections	高强螺栓（10.9级）、焊接（CO ₂ 气体保护焊），节点刚性/半刚性设计。 High-strength bolts (Grade 10.9), welding (CO ₂ shielded), rigid/semi-rigid joints.
用途 Applications	超高层建筑：写字楼、酒店（如框架-支撑体系）。 Skyscrapers: Offices, hotels (braced-frame systems). 大跨度结构：机场航站楼、体育场馆（网壳/索膜结构）。 Long-span Buildings: Airports, stadiums (latticed shells/cable-membrane). 工业厂房：重型机械车间、物流仓库（门式刚架）。 Industrial Plants: Heavy machinery workshops, warehouses (portal frames). 桥梁工程：斜拉桥、悬索桥主塔与桥面系。 Bridges: Cable-stayed/suspension bridge towers & decks. 装配式建筑：模块化住宅、快速应急设施。 Prefab Construction: Modular housing, emergency facilities.

>>> 特点
高强轻质：强度为混凝土5倍，自重减轻30%~50%，降低基础成本。
施工高效：工厂预制+现场吊装，工期比传统结构缩短40%。
绿色环保：材料回收率超90%，减少建筑垃圾。
设计灵活：适应异形曲面造型，支持BIM数字化协同。

>>> Features:
High Strength-to-Weight: 5x stronger than concrete; 30%~50% lighter weight.
Rapid Construction: Prefabrication + on-site assembly cuts工期 by 40%.
Sustainability: Over 90% recyclability, minimal waste.
Design Flexibility: Supports complex geometries with BIM integration.



钢支撑简介 Introduction to Steel Props

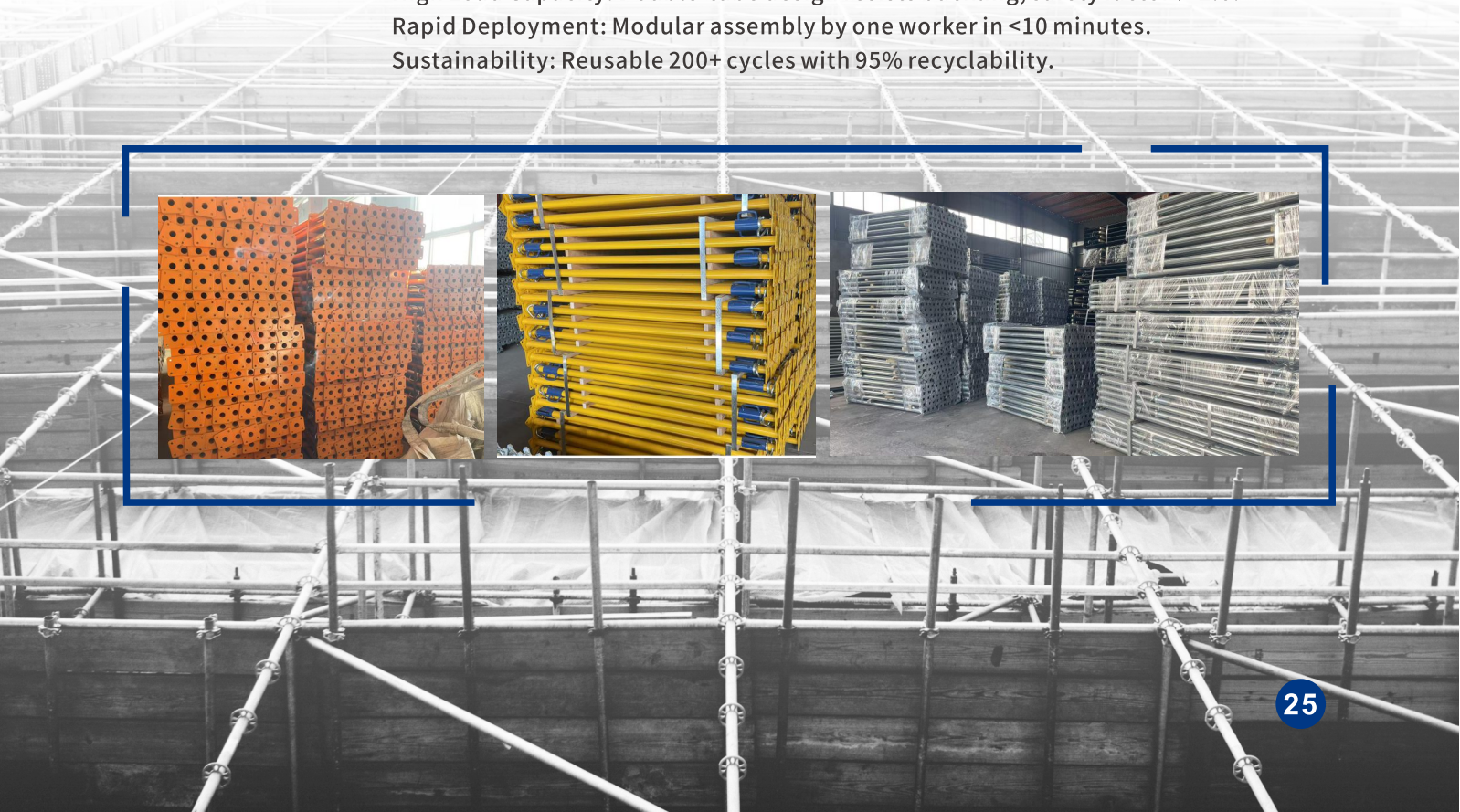


材质 Material	钢支撑主体采用Q235碳钢或Q345B高强度钢制造，表面经热镀锌或防锈漆处理，耐腐蚀性强，户外使用寿命达10~15年。 Steel props are made of Q235 carbon steel or high-strength Q345B steel, with hot-dip galvanized or anti-rust coatings, offering 10–15 years of outdoor service life.
规格 Specifications	直径系列：常见38mm、48mm、60mm，壁厚2.5mm~4.5mm。 调节范围：标准长度1.5m~5m（可伸缩设计，调节幅度0.5m~1.5m）。 Diameter Series: 38mm, 48mm, 60mm (common); wall thickness 2.5mm–4.5mm. Adjustment Range: Standard length 1.5m–5m (telescopic design with 0.5m–1.5m extension).
承载能力 Load Capacity	极限荷载15kN~60kN（依直径与高度），符合EN 1065、GB 50009等标准。 Ultimate load 15kN–60kN (varies by diameter/height); complies with EN 1065, GB 50009.
配件 Accessories	含螺纹调节头、加强底座、连接卡板，适配多种支撑场景。 Threaded heads, reinforced bases, connectors for versatile use.
用途 Applications	建筑施工：混凝土模板垂直支撑、楼板临时顶撑。 Construction: Vertical formwork support, slab propping. 地下工程：基坑支护、隧道临时加固。 Underground Works: Excavation bracing, tunnel reinforcement. 工业维护：设备安装定位、厂房结构矫正。 Industrial Maintenance: Equipment alignment, structural correction. 市政抢修：管道破裂应急支撑、桥梁维修加固。 Municipal Repair: Emergency pipe support, bridge rehabilitation.

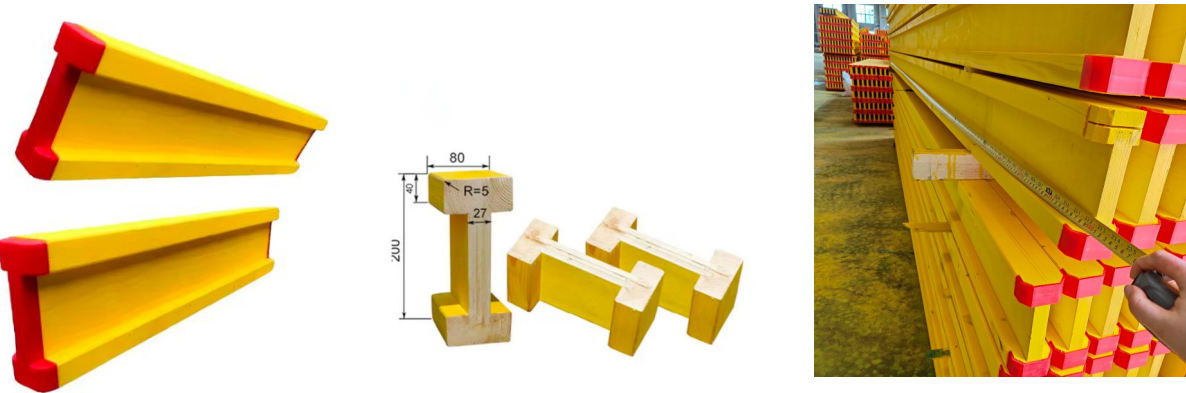


- >>> 特点
- 灵活调节：螺纹旋钮微调高度（±50mm），适应不平整地面。
 - 高承载力：双钢管嵌套结构抗压防弯，安全系数≥2.0。
 - 快速安装：模块化拼接，单人10分钟内完成单根架设。
 - 经济环保：可重复使用200次以上，回收率超95%。

- >>> Features:
- Height Adjustment: Fine-tuning via threaded knob (±50mm) for uneven surfaces.
 - High Load Capacity: Double-tube design resists buckling; safety factor ≥2.0.
 - Rapid Deployment: Modular assembly by one worker in <10 minutes.
 - Sustainability: Reusable 200+ cycles with 95% recyclability.



H20木梁简介 Introduction to H20 Timber Beams



材质 Material	H20木梁采用高强度工程木（如LVL层压单板木或胶合木）制造，经防腐、防潮及阻燃处理，力学性能稳定，适用于高荷载场景，使用寿命可达20~30年（视环境维护条件）。 H20 beams are engineered from high-strength LVL (Laminated Veneer Lumber) or glulam, treated with anti-rot, moisture-proof, and fire-retardant coatings. Stable mechanical properties suit heavy-load applications, with a service life of 20-30 years (dependent on maintenance).
规格 Specifications	截面尺寸：标准80mm×200mm（H20等级），优化设计工字型截面可减少自重并提升抗弯刚度。 长度：模数化3m~6m，支持定制拼接，最大跨度可达8m（需中间支撑）。 Cross-section: Standard 80mm×200mm (H20 grade); I-beam profiles reduce weight and enhance stiffness. Length: Modular 3m-6m, customizable with splicing; max span 8m (mid-span support required).
承载能力 Load Capacity	均布荷载≤20kN/m（跨度4m时），集中荷载≤30kN，符合EN 13377、BS 5268等标准。 Uniform load ≤20kN/m (4m span); point load ≤30kN; complies with EN 13377, BS 5268.
标准 Standards	满足EN 13377（混凝土模板支撑梁）、GB/T 50329（木结构技术规范）要求。 Meets EN 13377 (formwork bearers), GB/T 50329 (timber structures).
用途 Applications	混凝土施工：楼板、梁柱模板的水平支撑龙骨。 Concrete Works: Horizontal supports for slab/column formwork. 工业建筑：重型设备临时支撑平台、钢结构辅助架。 Industrial Projects: Temporary platforms for heavy machinery. 桥梁工程：现浇箱梁底模纵横向分配梁。 Bridge Construction: Distribution beams for cast-in-place girders. 装配式建筑：预制构件吊装临时加固结构。 Prefab Structures: Temporary bracing during component assembly.

>>> 特点

高强轻质：强度为普通木材2~3倍，自重比钢梁轻50%，降低运输与安装成本。
尺寸精准：工厂预制公差±1mm，确保模板平整度与施工安全。
耐候耐久：防霉抗变形，适应-20℃~60℃温湿度变化。
快速周转：可重复使用50次以上，支持机械化快速拆装。

>>>

Features:

High Strength-to-Weight Ratio: 2-3x stronger than solid wood; 50% lighter than steel.
Precision Manufacturing: ±1mm tolerance ensures formwork flatness.
Weather Resistance: Stable in -20°C~60°C environments.
Reusability: 50+ cycles with mechanized handling.



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