

KAIFENG DAFANG PRESTRESSED CO., LTD.

开封大方预应力有限公司

PRODUCT CATALOG

产品目录

ANCHORAGE · HYDRAULIC JACK · HYDRAULIC PUMP · PRESTRESSED EQUIPMENT

锚具 · 液压千斤顶 · 液压泵 · 预应力设备

EDITION 2026

ABOUT DAFANG

关于大方 · Company Profile

COMPANY PROFILE

Kaifeng Dafang Prestressed Co., Ltd. is a professional manufacturer specializing in the R&D, production and sales of prestressed anchorage systems, hydraulic jacks, intelligent tensioning and grouting equipment, and rebar processing machinery.

Our products are widely used in highway & railway bridges, high-rise buildings, dams, tunnels and nuclear power projects. We export to over 70 countries and regions worldwide.

All products comply with GB/T 14370-2007 and are certified by ISO 9001 Quality Management System.

公司简介

开封大方预应力有限公司专业从事预应力锚具系统、液压千斤顶、智能张拉与压浆设备、钢筋加工机械的研发、生产与销售。

产品广泛应用于国内外公路铁路桥梁、高层建筑、大坝、隧道及核电工程，出口至全球 70 多个国家和地区。

执行标准 GB/T 14370-2007，通过 ISO 9001 质量体系认证。

17+	5	70+	ISO
YEARS	PRODUCT LINES	COUNTRIES	9001 CERTIFIED
建厂年数	产品线	出口国家	体系认证

CERTIFICATIONS

资质认证 · ISO / CE Certified Excellence



ISO 9001:2015

Quality Management System

质量管理体系（锚具）



ISO 45001:2018

Occupational Health & Safety

职业健康安全



ISO 14001:2015

Environmental Management

环境管理体系



NOA ISO 9001

Anchors & Oil Pumps

锚具与油泵



CE — Anchorage

YM / BM / HM Anchor

锚具 CE 认证



CE — Jacks

YDC / QYC / YDT

千斤顶 CE 认证



CE — Pumps

ZB / YB / DB / SYB

油泵 CE 认证



CE — Grouting

DFYJ-700 Series

压浆机 CE 认证

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SECTION 01 · 第 01 章

01

PRESTRESSED ANCHORAGE

预应力锚具系统



LOAD CAPACITY
140 – 2600 kN

STANDARD
GB/T 14370-2007

FULL SERIES
MN / YM / HM / BM

APPLICATIONS
Bridge · Building · Rail

Mono Strand Anchor

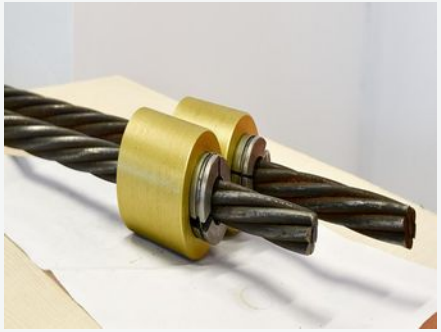
单孔锚具

PRODUCT GALLERY · 产品图集









FEATURES · 产品特点

1. The wedge-based self-locking force is stable, and anchorage slip is minimal.
2. The anchor cup is made of alloy steel with a galvanized passivation finish, ensuring resistance to the humid conditions of construction sites.
3. The wedges undergo quenching and tempering; the high-hardness serrations on the inner surface securely grip the outer layer of the steel strands.
4. The retaining clip is made of spring steel, offering durable elasticity that maintains the wedges in a pre-tightened state over the long term.

TECHNICAL SPECS · 技术参数

Parameter (EN)	参数 (中文)	Value · 数值
Applied Strand Size	适用钢绞线规格	**φ4mm - φ17.8mm**
Standard Strength (UTS)	标准强度	**1860MPa**
Material	材质	**45# Steel / 40Cr**
Hardness	硬度	**Wedge 78-85HRA**
Anchor Head	锚头	**25-36HRC**
Wedge	夹片	**2/3 Sections**
Surface Treatment	表面处理	**Galvanized / Black Chemical Dioxide**
Standard	执行标准	**GB/T 19001-2016 / ISO 9001:2015**

APPLICATIONS · 应用领域

Widely used for edge-span stressing of small- to mid-span bridges, transverse deck prestressing, wet joints of continuous box girders and mono-strand stressing in precast yards. Also suited to tunnel linings, slope anchor reinforcement and wind-power foundation ring beams.

PC Strand Connector

特殊类型锚具

PRODUCT GALLERY · 产品图集









FEATURES · 产品特点

1. Specifically designed for steel strand extension and staged tensioning operations.

2. Manufactured from heat-treated alloy steel; offers corrosion and fatigue resistance to meet the long-term service requirements of bridges, large-scale structures, and similar projects.

3. Equal-strength connection: Post-connection tensile strength meets or exceeds that of the original strand. Expand

TECHNICAL SPECS · 技术参数

Parameter (EN)	参数 (中文)	Value · 数值
Applied Strand Size	适用钢绞线规格	**φ 12.7mm / φ15.7mm**
Material	材质	**40CrMnTi**
Hardness	硬度	**Wedge 55-65HRC**
Anchor Head	锚头	**25-36HRC**
Diameter	直径	**4mm ~30mm**
Standard Strength (UTS)	标准强度	**1860MPa**

APPLICATIONS · 应用领域

Segmental casting of continuous bridge girders, requiring the extension of prestressing tendons in sections;
Extension of steel strands for foundation pit anchor cables and long slope anchor cables;
Single-point extension and reinforcement of prestressing tendons in precast components where the initial length is insufficient.

Special-Mono Anchor

特殊类型锚具

PRODUCT GALLERY · 产品图集









FEATURES · 产品特点

1. Individual single-hole anchorages offer greater flexibility than multi-hole anchor groups, allowing for distributed placement as required.
2. The square flange base features integrated mounting holes, enabling direct attachment to the formwork.
3. Constructed from high-strength cast iron, the base offers high compressive load-bearing capacity, effectively distributing the concentrated tensile force from the tensioned steel strands evenly into the surrounding concrete.

TECHNICAL SPECS · 技术参数

Parameter (EN)	参数 (中文)	Value · 数值
Applied Strand Size	适用钢绞线规格	**φ 4mm / φ15.7mm**
Material	材质	**20CrMnTi**
Hardness	硬度	**Wedge 55-65HRC**
Anchor Head	锚头	**25-36HRC**
Diameter	直径	**4mm ~30mm**
Standard Strength (UTS)	标准强度	**1860MPa**

APPLICATIONS · 应用领域

Compatible with unbonded prestressing systems and suitable for thin concrete members with spatial constraints.
Ideal for applications involving single-point reinforcement, short-span members, and localized prestressing strengthening.

Multi-strand Anchorage

夹片式群锚

PRODUCT GALLERY · 产品图集









FEATURES · 产品特点

1. Multi-hole concentrated anchorage: Designed to handle high-tonnage prestressing loads, this system ensures greater structural integrity and more concentrated, efficient stress transfer.

2. Central and outer-ring hole arrangement: A combination of a central hole and evenly distributed outer holes ensures symmetrical and uniform load distribution, minimizing the risk of eccentric loading or twisting of the anchor plate during tensioning.

TECHNICAL SPECS · 技术参数

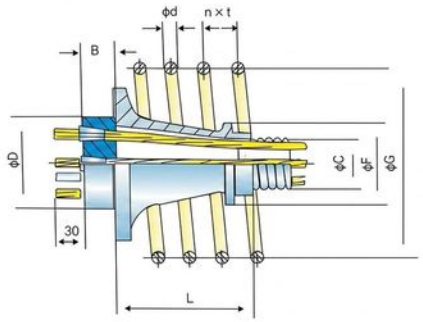
Parameter (EN)	参数 (中文)	Value · 数值
Applied Strand Size	适用钢绞线规格	**φ12.7mm / φ15.2mm**
Standard Strength (UTS)	标准强度	**1860MPa**
Number of Holes	锚具孔数	**2 - 55 holes**
Material	材质	**45# Steel / 40Cr**
Surface Treatment	表面处理	**Galvanized / Black Chemical Dioxide**
Hardness	硬度	**Wedge 55-65HRC,**
Anchor Head	锚头	**25-36HRC**
Wedge	夹片	**2/3 Pieces**
Standard	执行标准	**GB/T 19001-2016 / ISO 9001:2015**

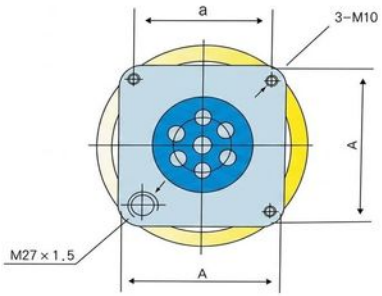
APPLICATIONS · 应用领域

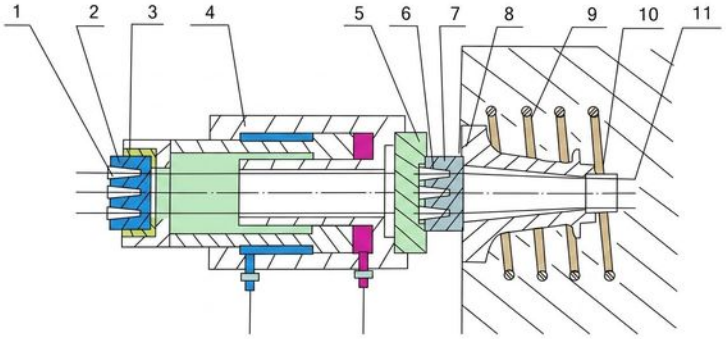
Primarily suitable for post-tensioned prestressing projects involving bundled steel strands, such as highway/railway bridge box girders, long-span roof beams, hydraulic dams, and large-scale basement prestressed structures.

Technical Data of YM13

13系技术参数







1. Tooling wedges
2. Tooling anchor ring
3. Transition sleeve
4. Jack
5. Limiting plate
6. Wedges
7. Anchor assembly
8. Bearing plate
9. Spiral reinforcement
10. Duct
11. Steel strand

Specification	Anchor Head		Bearing Plate				Duct	Spiral Reinforcement				
	ΦD	B	A	L	ΦF	a	ΦC (ID)	ΦG	t	Φd	n	Stressing Jack
YM13-1	40	50	90	35	-	70		85	35	6	4	QYC270
YM13-2	80	50	120	110	-	80	40	110	50	8	3	YDC650
YM13-3	80	50	120	110	-	80	50	130	50	8	3	YDC650
YM13-4	85	50	135	120	-	95	50	160	50	10	4	YDC650
YM13-5	94	55	150	120	-	110	50	160	50	14	4	YDC1500
YM13-6,7	108	55	165	150	140	125	60	190	50	14	5	YDC1500
YM13-9	128	60	180	160	130	140	60	220	50	16	5	YDC1500
YM13-12	148	60	215	190	150	175	80	240	60	16	5	YDC2000
YM13-19	178	65	270	250	180	230	90	310	60	18	6	YDC3000
YM13-22	188	65	290	260	200	250	100	330	60	18	6	YDC3000
YM13-24	208	75	300	270	230	260	100	340	60	18	6	YDC5000
YM13-25,27	208	80	320	280	245	280	100	360	60	18	6	YDC5000

Technical Data of YM15

15系技术参数

Specification	Anchor Head		Bearing Plate				Duct	Spiral Reinforcement				
	ΦD	B	A	L	ΦF	a	ΦC(ID)	ΦG	t	Φd	n	Stressing Jack
YM15-1	48	50	90	35		70		80	30	6	4	QYC270
YM15-2	93	50	135	110		85	45	120	40	8	4	YDC650
YM15-3	93	50	135	110		85	50	130	40	10	4	YDC650
YM15-4	98	50	150	120		100	55	150	50	10	4	YDC1500
YM15-5	108	50	180	130		130	55	170	50	12	4	YDC1500
YM15-6,7	128	55	190	160	140	140	70	190	50	12	4	YDC1500
YM15-8	138	55	230	180	160	180	80	230	60	14	5	YDC2000
YM15-9	154	58	240	190	170	190	80	240	60	14	5	YDC2000
YM15-10	158	60	250	210	180	200	80	250	60	16	6	YDC2500
YM15-11,12	168	60	260	210	180	210	90	260	60	16	6	YDC2500
YM15-13	176	65	260	210	190	210	90	260	60	16	6	YDC3000
YM15-14	187	65	270	220	190	220	90	270	60	16	6	YDC3000
YM15-15	187	65	290	230	210	240	90	290	60	16	6	YDC4000
YM15-16	207	65	290	250	210	240	90	290	60	16	6	YDC4000
YM15-17	207	70	310	265	220	260	100	310	60	18	7	YDC4000
YM15-18,19	207	70	310	265	220	260	100	310	60	18	7	YDC4000
YM15-22	227	70	330	265	230	280	120	330	60	20	7	YDC4600
YM15-24	237	75	330	280	240	280	120	330	60	20	7	YDC6500
YM15-25,27	247	90	380	300	250	330	120	380	60	20	7	YDC6500
YM15-31	277	90	390	355	300	340	130	390	70	22	8	YDC6500
YM15-37	287	100	430	435	320	380	140	430	70	22	8	YDC8000
YM15-44	327	110	460	465	350	410	160	460	70	22	8	YDC10000
YM15-55	360	120	530	515	405	480	160	530	70	25	9	YDC12000

Anchor Connector

锚具连接器

PRODUCT GALLERY · 产品图集









FEATURES · 产品特点

Multi-strand anchor connectors are used for the segmental extension and full-bundle tensioning of multi-strand steel cables. The connector structure can be customized based on specific multi-strand anchor specifications (YM13/YM15) and the number of cable strands. Offering connection strength equivalent to that of the original steel cable, this solution is a proven method for extending long-distance prestressed steel cables.

TECHNICAL SPECS · 技术参数

Parameter (EN)	参数 (中文)	Value · 数值
Applied Strand Size	适用钢绞线规格	**φ12.7mm / φ15.2mm**
Material	材质	**45# Steel / 40Cr**
Surface Treatment	表面处理	**Galvanized / Black Chemical Dioxide**
Ultimate Tensile Force per Strand	极限张拉力 (每束)	**368-1300KN**
Matched Jack	配用千斤顶	**YDC2000**

APPLICATIONS · 应用领域

Suitable for applications such as extending long-distance prestressed steel tendons, staged tensioning during cantilever segment bridge construction, and batch tensioning for long-span continuous beams, as well as scenarios in underground engineering and external prestressing reinforcement where mid-course tendon splicing is required.

Arc Anchorage

弧形锚具

PRODUCT GALLERY · 产品图集









FEATURES · 产品特点

1. Features a long, flat design with a slim overall profile, making it suitable for members with limited cross-sectional height, such as floor slabs, hollow core slabs, and box girder flanges.
2. The anchor seat and bell-shaped guide sleeve are cast as a single unit and incorporate grouting holes, allowing for direct grouting of the duct through the side holes.
3. Two-stage annular reinforcing ribs resist stress concentration during tensioning, reducing the risk of cracking in the concrete at the anchor end;

TECHNICAL SPECS · 技术参数

Parameter (EN)	参数 (中文)	Value · 数值
Applied Strand Size	适用钢绞线规格	**φ12.7mm / φ15.2mm**
Number of Holes	锚具孔数	**2 - 7 holes**
Hardness	硬度	**Wedge 55-65HRC**
Anchor Head	锚头	**25-36HRC**
Diameter	直径	**9.5mm/12.7mm/15.2mm/17.8mm**
Material	材质	**40Cr/C45**
Wedge	夹片	**2 / 3 Pieces**
Standard	标准	**GB/T 19001-2016 / ISO 9001:2015**

APPLICATIONS · 应用领域

Primarily used for large-span unbonded post-tensioned basement slabs, hollow-core bridge slabs, and narrow-section prestressed beams—scenarios where vertical space is too restricted to accommodate standard circular multi-strand anchorages.

Slab Anchorage / Flat Anchorage

扁平锚具

PRODUCT GALLERY · 产品图集









FEATURES · 产品特点

The tendon ducts are arranged in a single vertical row, resulting in a narrow, elongated cross-section. This design is ideal for locations with limited width but ample vertical space; compared to standard flat anchors, it allows for a higher number of steel strands within a smaller lateral footprint, overcoming the challenge of accommodating multiple strands in narrow structural members.

TECHNICAL SPECS · 技术参数

Parameter (EN)	参数 (中文)	Value · 数值
Applied Strand Size	适用钢绞线规格	**φ12.7mm / φ15.2mm**
Flat Duct Inside Dimension	扁平波纹管内径	**50x19mm to 90x19mm**
Ultimate Tensile Force per Strand	极限张拉力 (每束)	**368-1300KN**
Hardness	硬度	**Wedge 78-85HRA**
Anchor Head	锚头	**25-36HRC**
Diameter	直径	**12.7mm / 15.2mm / 15.7mm**
Material	材质	**40Cr**
Wedge	夹片	**2/3 Sections**
Matched Jack	适用千斤顶	**QYC270**

APPLICATIONS · 应用领域

Primarily used for precast hollow-core slab girders, short-span narrow box girders, slender prestressed building beams, and narrow prestressed components in subway construction. It is designed for structural areas with small transverse dimensions where circular multi-hole anchors cannot be used and where arranging horizontal flat anchors is difficult.

Wedge
夹片

PRODUCT GALLERY · 产品图集









FEATURES · 产品特点

The base material is high-quality alloy steel, subjected to overall quenching and tempering to ensure toughness, while the internal tooth section undergoes high-frequency induction hardening; this results in high surface hardness and resistance to wear and crushing, preventing brittle fracture or snapping under impact during tensioning.
The tooth pattern is created via specialized roll forming, ensuring uniform tooth geometry and even clamping force distribution, which minimizes the risk of localized crushing or wire breakage in the steel strand.

TECHNICAL SPECS · 技术参数

Parameter (EN)	参数 (中文)	Value · 数值
Applied Strand Size	适用钢绞线规格	**φ 4mm / φ15.7mm**
Material	材质	**20CrMnTi**
Hardness	硬度	**Wedge 55-65HRC**
Anchor Head	锚头	**25-36HRC**
Diameter	直径	**4mm ~30mm**
Standard Strength (UTS)	标准强度	**1860MPa**

APPLICATIONS · 应用领域

Classification and Compatibility Differences
Working anchor wedges: Designed for permanent anchorage; they feature deeper teeth and higher gripping strength, offering excellent slip resistance under long-term loads.
Tool anchor wedges: Designed for tensioning equipment; they feature shallower teeth for smooth release and are suitable for repeated assembly and reuse.

02

HYDRAULIC JACKS

液压千斤顶



TENSION FORCE
140 – 30000 kN

WORKING PRESSURE
50 – 70 MPa

SERIES
YDC / QYC / YDT

MATERIAL
45# Steel / 40Cr

Multi-strand Center Hole Hydraulic Jack

DF-YDC 穿心式液压千斤顶

PRODUCT GALLERY · 产品图集









TECHNICAL SPECS · 技术参数

Parameter (EN)	参数 (中文)	Value · 数值
Type	类型	**Double Acting**
Nominal Tensile Force	公称张拉力	**75T-3000T**
Nominal Oil Pressure	额定油压	**46 - 55 MPa**
Tensile Stroke	张拉行程	**200 mm / Customizable**
Diameter of Center Hole	中心孔径	**63 - 320 mm**
Piston Area(mm2)	活塞面积	**15072 - 174700**
Weight	重量	**60 - 2000kg**

FEATURES · 产品特点

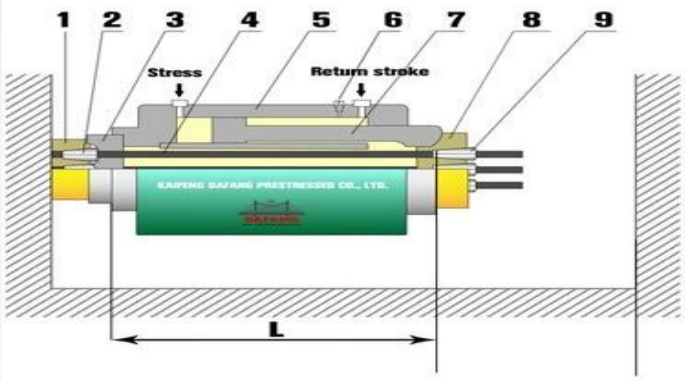
1. Features double-acting hydraulic drive for both tensioning and return strokes; tensioning pressure rises smoothly, while pressure release and return speeds are controllable, making it ideal for high-volume, continuous tensioning operations.
2. Offers a wide tonnage range (standard specifications from 75t to 3000t) and is compatible with multi-strand anchorages ranging from 4 to 55 strands.

APPLICATIONS · 应用领域

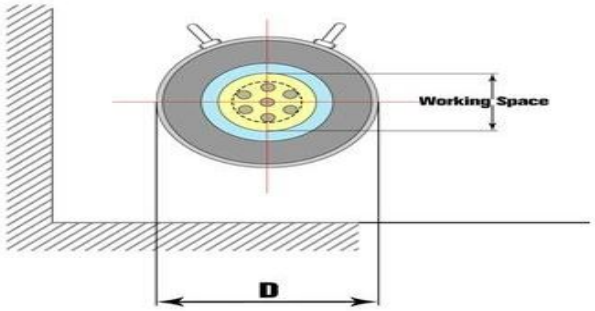
Applications include prestress tensioning for highway and railway bridges, anchor cable tensioning for hydraulic dams, construction of long-span prestressed architectural components, and high-tonnage anchor cable tensioning for foundation pits; it is an essential piece of equipment for prestressing engineering projects.

Multi-strand Center Hole Jack Detailed Parameter

穿心式液压千斤顶详细参数



Side View



Front View

1. Anchor head
2. Wedge
3. Limit plate
4. Strand
5. Cylinder
6. Explosion-proof device
7. Piston
8. Tool anchor head
9. Tool wedge

Item	Nominal Force	Nominal Oil Pressure	Piston Area	Stroke	Dia. of the Center Hole	Working space	space Board	Weight	Over Size
Specification	(kN)	(MPa)	(mm2)	(mm)	(mm)	(mm)	(mm)	(kg)	(D*L)
YDC750	750	50	15072	180	63	100	100	60	Φ200*300
YDC1000	1000	55	18344	200	80	120	120	65	Φ217*342
YDC1100	1100	52	21254	200	80	120	120	72	Φ230*342
YDC1200	1200	51	23550	200	85	120	120	75	Φ240*342
YDC1500	1500	53	28495	200	90	135	146	100	Φ270*342
YDC2000	2000	46	43979	200	122	170	188	148	Φ320*348
YDC2500	2500	49	51810	200	127	170	188	158	Φ348*356
YDC3000	3000	52	57695	200	136	190	200	178	Φ370*356
YDC3500	3500	52	67824	200	168	220	240	255	Φ420*385
YDC4000	4000	53	76066	200	170	230	240	285	Φ440*385
YDC4500	4500	55	81954	200	170	250	260	310	Φ450*385
YDC4600	4600	53	87606	200	185	260	270	330	Φ470*386
YDC5000	5000	52	97202	200	193	280	290	390	Φ496*404
YDC5500	5500	53	103620	200	200	285	295	440	Φ503*405
YDC6000	6000	53	113747	200	205	300	320	480	Φ530*408

Mono-Strand Jack

单股千斤顶

PRODUCT GALLERY · 产品图集









TECHNICAL SPECS · 技术参数

Parameter (EN)	参数 (中文)	Value · 数值
Type	类型	**Double Acting**
Nominal Tensile Force	公称张拉力	**140 - 2000 KN**
Nominal Oil Pressure	额定油压	**50 - 63 MPa**
Pulling Stroke	张拉行程	**200 - 1000 mm**
Diameter of Center Hole	中心孔径	**18 mm**
Piston Area(mm2)	活塞面积	**2830 - 4415**
Self Weight	自重	**13 - 22 kg**

FEATURES · 产品特点

1. Compact and lightweight design, suitable for single-strand tensioning operations in confined spaces, at elevated beam ends, and on foundation pit slopes.
2. Features an integrated front-end gripping mechanism, eliminating the need to install tool anchors or limit plates; this significantly reduces setup time per tensioning cycle and enhances efficiency.
3. Direct gripping of the steel strand at the front end allows for operation with minimal strand protrusion, reducing waste from cutting off excess material and thereby saving on steel strand usage.

APPLICATIONS · 应用领域

Individual strand tensioning for slope and foundation pit anchor cables
Sequential pre-tensioning and load balancing for large strand bundles prior to full tensioning
Re-tensioning and stress verification for previously tensioned components
Scattered tensioning operations in confined spaces or at heights

Pedestal Jack / Pushing Jack

DF-YDT 顶推式千斤顶 / 台座式千斤顶

PRODUCT GALLERY · 产品图集









FEATURES · 产品特点

1. High tonnage load capacity: Standard specifications cover 200t~1000t, and tonnage and stroke can be customized according to working conditions.
2. Wide adaptability: Can be equipped with hydraulic pump stations and intelligent synchronous control systems to achieve synchronous operation of multiple jack clusters. Displacement control accuracy can reach up to ±0.5mm, ensuring smooth and controllable movement of heavy-duty components.

TECHNICAL SPECS · 技术参数

Parameter (EN)	参数 (中文)	Value · 数值
Type	类型	**Single Acting** **Double Acting**
Pushing Force	顶推力	**2000 - 30000 KN**
Pushing Stroke	顶推行程	**50 - 600 mm**
Working Oil Pressure	工作油压	**50 - 53 MPa**
Piston Area(mm2)	活塞面积	**37994- 57227**
Weight	重量	**50 - 2000 kg**

APPLICATIONS · 应用领域

Bridge Engineering: Box girder incremental launching/positioning, lateral girder shifting, and jacking operations for bearing replacement.
Civil Engineering: Synchronous jacking of large structural components, bracing of excavation support structures, and lateral shifting/pushing of heavy equipment.
Compatible with PLC synchronous control systems to enable multi-point synchronous jacking using multiple jacks.

Flange Hydraulic Jack

DF-YDTF 法兰液压千斤顶

PRODUCT GALLERY · 产品图集









FEATURES · 产品特点

1. Designed for heavy loads with a short stroke; requires minimal vertical installation space, making it ideal for embedded applications where space is restricted.

2. The top surface is treated for wear and load resistance and is flat, allowing for direct contact with the component being lifted; adapter blocks can also be installed to accommodate various contact surfaces.

TECHNICAL SPECS · 技术参数

Parameter (EN)	参数 (中文)	Value · 数值
Type	类型	**Double Acting**
Pushing Force	顶推力	**2000 - 30000 KN**
Pushing Stroke	顶推行程	**50 - 600 mm**
Working Oil Pressure	工作油压	**50 - 53 MPa**
Piston Area(mm2)	活塞面积	**2830 - 4415**
Weight	重量	**50 - 2000 kg**

APPLICATIONS · 应用领域

Engineering sectors such as trenchless pipe jacking, preloading of foundation pit components, installation and commissioning of heavy equipment, shipbuilding, and metallurgy/mining Applications requiring hydraulic systems, such as custom pressure tooling, hydraulic presses, and extrusion presses

YH1-40 / YH3B Hydraulic Embossing Machine

DF-YH 液压压花机

PRODUCT GALLERY · 产品图集









FEATURES · 产品特点

Hydraulic force is used to forcibly spread the seven individual wires at the end of the steel strand into a radial, flower-like pattern. After concrete is poured, these splayed ends interlock firmly with the concrete. This method achieves fixed-end anchorage through mechanical interlocking, eliminating the need for additional anchor heads or wedges, and represents the mainstream technique for fixed ends in unbonded prestressing systems.

TECHNICAL SPECS · 技术参数

Parameter (EN)	参数 (中文)	Value · 数值
Nominal Pressure	公称顶推力	**20-40 KN**
Rated Oil Pressure	额定油压	**40-50 MPa**
Piston Stroke	活塞行程	**100 mm**
Applicable Strand Diameter	适用钢绞线直径	**12.7mm / 15.2mm**
Weight	整机重量	**15 kg**
Dimensions	外形尺寸	**630 x 200 x 86 mm**

APPLICATIONS · 应用领域

Processing fixed ends for unbonded prestressed floor strands in basements;
Fabricating embedded fixed ends for prestressing tendons in bridge hollow-core slabs and small box girders;
Constructing concealed anchorage ends for prestressed structures in large venues and parking garages.

SECTION 03 · 第 03 章

03

HYDRAULIC PUMPS

液压泵系列



RATED PRESSURE

16 - 70 MPa

DRIVE TYPE

Electric / Manual

FULL SERIES

DB / ZB / SYB

APPLICATIONS

Tensioning · Bridge · PC

Hydraulic Pump

DF-DB液压泵

PRODUCT GALLERY · 产品图集









FEATURES · 产品特点

1. Compact and lightweight, yet capable of high output pressure; standard models reach 70 MPa, while ultra-high-pressure versions support operating conditions exceeding 100 MPa.

2. Features an integrated pressure-holding function that maintains stable pressure for extended periods after the pump stops (provided there are no leaks in the hydraulic circuit); includes a built-in high-pressure safety relief mechanism to prevent system damage caused by over-pressure.

TECHNICAL SPECS · 技术参数

Parameter (EN)	参数 (中文)	Value · 数值
Type	类型	**Double Acting**
Motor Power	电机功率	**0.75kW - 5.5kW**
Voltage	电压	**220V/380V/ Customized**
Control	控制	**Manual valve/ Solenoid valve**
Max Pressure	最大压力	**70MPa/700Bar/10000Psi**
Flow Rate	流量	**1L/min - 6L/min**
Tank Capacity	油箱容量	**14L - 50L**

APPLICATIONS · 应用领域

Compatible with all double-acting hydraulic tools: can be paired with various hydraulic cylinders and specialized hydraulic equipment to perform tasks such as lifting, bending, straightening, pressing, shearing, riveting, and assembly/disassembly.

High and Low Pressure Hydraulic Pump

DF-DBHD高低压液压泵

PRODUCT GALLERY · 产品图集









FEATURES · 产品特点

1. The multi-circuit directional control valve can split the flow into two or more independent hydraulic circuits, enabling the simultaneous operation of multiple pieces of hydraulic equipment.

2. Equipped with a built-in forced-air cooling system, it rapidly dissipates heat from the hydraulic fluid during continuous high-pressure operation, preventing issues such as excessive oil temperatures, pressure drop-off, and seal degradation or failure during prolonged use.

TECHNICAL SPECS · 技术参数

Parameter (EN)	参数 (中文)	Value · 数值
Type	类型	**Double Acting**
Motor Power	电机功率	**3kW - 7.5kW**
Voltage	电压	**220V/380V/ Customized**
Control	控制	**Manual valve/ Solenoid valve**
Max Pressure	最大压力	**16MPa - 70MPa**
Flow Rate	流量	**1L/min - 40L/min**
Tank Capacity	油箱容量	**40L - 120L**

APPLICATIONS · 应用领域

Construction and heavy machinery sectors: Suitable for diverse load requirements, including hydraulic winches, hydraulic power tongs, and derrick erection/relocation systems.

General industrial hydraulics sector: Compatible with equipment such as injection molding machines, metalworking machine tools, and forging machinery, providing independent power to hydraulic actuators at various workstations.

Low Pressure Hydraulic Pump

DF-DBD低压液压泵

PRODUCT GALLERY · 产品图集









FEATURES · 产品特点

1. Features manual mechanical directional control with a reliable, durable design; the mechanical handle actuation and simple internal valve structure ensure a low failure rate.

2. Eliminates vulnerable electrical components such as solenoid valves and remote control circuits, thereby avoiding issues like electronic control malfunctions or wiring faults and ensuring superior adaptability to harsh job-site environments.

TECHNICAL SPECS · 技术参数

Parameter (EN)	参数 (中文)	Value · 数值
Type	类型	**Double Acting**
Motor Power	电机功率	**3kW - 10kW**
Voltage	电压	**220V/380V/ Customized**
Control	控制	**Multi-way valve**
Max Pressure	最大压力	**16MPa - 31.5MPa**
Flow Rate	流量	**1L/min - 20L/min**
Tank Capacity	油箱容量	**20L - 120L**

APPLICATIONS · 应用领域

· Lifting, bending, str… 起重、弯曲、矫直、挤压…
· Installed in other me… 作为液压动力元件安装在…

Hydraulic Pump

DF-ZB型液压泵

PRODUCT GALLERY · 产品图集









FEATURES · 产品特点

1.Features two independent hydraulic circuits, allowing for the simultaneous connection and operation of two tensioning jacks; this enables parallel tensioning workflows, nearly doubling construction efficiency compared to single-circuit pumps.
2.Hydraulic pressures for both circuits are displayed separately, allowing independent control and monitoring of two sets of prestressing tendons without mutual interference.

TECHNICAL SPECS · 技术参数

Parameter (EN)	参数 (中文)	Value · 数值
Model	型号	**ZB2x2-50 / ZB4-600H**
Motor Power	电机功率	**3 / 4 / 5.5kW**
Voltage	电压	**220V / 380V / Customized**
Nom. Oil Pressure	额定油压	**50MPa - 63MPa**
Oil	油液	**46# Hydraulic Oil**
Voltage	电压	**220V / 380V / Customized**
Nom. Flow	额定流量	**3L/4Lmin / Customized**
Size	尺寸	**900*500*1000mm**

APPLICATIONS · 应用领域

Grouting of precast or cast-in-place components

Bridges, culverts, mines, and tunnels

Manual Hydraulic Pump

DF-SYB手动液压泵

PRODUCT GALLERY · 产品图集









FEATURES · 产品特点

1. Purely manual operation: Can be used directly at remote sites, during power outages, in confined elevated workspaces, or deep within foundation pits where electricity is unavailable; not restricted by site power conditions.

2.Compact and lightweight: Portable by a single person; offers far greater mobility than electric hydraulic pumps.

TECHNICAL SPECS · 技术参数

Parameter (EN)	参数 (中文)	Value · 数值
Type	类型	**Single or Double-acting**
Control	控制	**Manual valve**
Tank Capacity	油箱容量	**3-10L**
Max Pressure	最大压力	**70MPa/700 Bar/10000Psi**
Weight	重量	**10-22kg**

APPLICATIONS · 应用领域

Supplementary tensioning and stress testing of anchor cables at remote sites without power supply;
Spot supplementary tensioning of completed prestressed floor slabs and beams;
Bridge maintenance and micro-adjustment jacking of bearings;
Hydraulic operations in confined spaces inaccessible to electric hydraulic pumps.

SECTION 04 · 第 04 章

04

INTELLIGENT TENSIONING SYSTEM

智能张拉系统



OPERATION
1-Touch Full Auto

CHANNEL COUNT
1 → 16 Synchronized

DISPLACEMENT ACCURACY
< 0.25 mm

CONTROL SYSTEM
PLC · Remote Monitor

DF-ZNZL-Ⅱ Intelligent Tensioning System

DF-ZN-Ⅱ 智能张拉系统

PRODUCT GALLERY · 产品图集





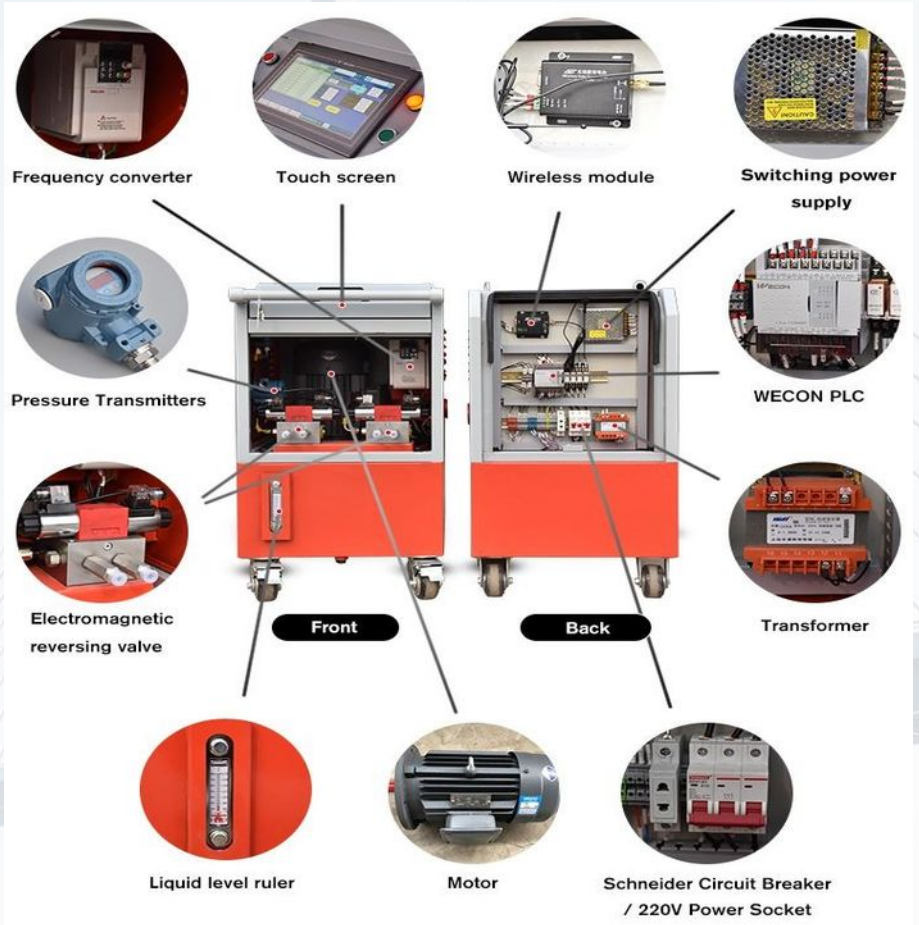
FEATURES · 产品特点

Multi-point synchronous jacking hydraulic system is divided into 5 parts: hydraulic pump station, PLC computer control system, hydraulic system, displacement pressure detection and human-machine interface operating system.

The system integrates hydraulic jacking system, computer PLC signal processing, displacement monitoring, bridge structure analysis and construction technology, and is a complete set of technology development on the integrated system.

The core is to design a computer PLC signal processing and hydraulic system according to the characteristics of the bridge based on the bridge structure analysis and construction technology, input the displacement signal of the external monitoring facility, output the hydraulic system oil quantity control signal, and use the terminal multiple sets of jacks to achieve For the purpose of balanced, safe and efficient bridge lifting and horizontal movement, the lifting load includes: 200 tons-3200 tons, and the lifting height is 5mm to 500mm

DETAILS · 系统说明



APPLICATIONS · 应用领域

This hydraulic system can be used for tensioning steel strands in bridge and building construction, repairing bridge misalignments, and synchronized jacking applications such as building relocation.

该液压系统可用于桥梁和建筑施工中的钢绞线张拉、桥梁错位修复，以及建筑物搬迁等同步顶升作业。

DF-ZNZL-Ⅱ Intelligent Tensioning System

DF-ZN-Ⅱ 智能张拉系统

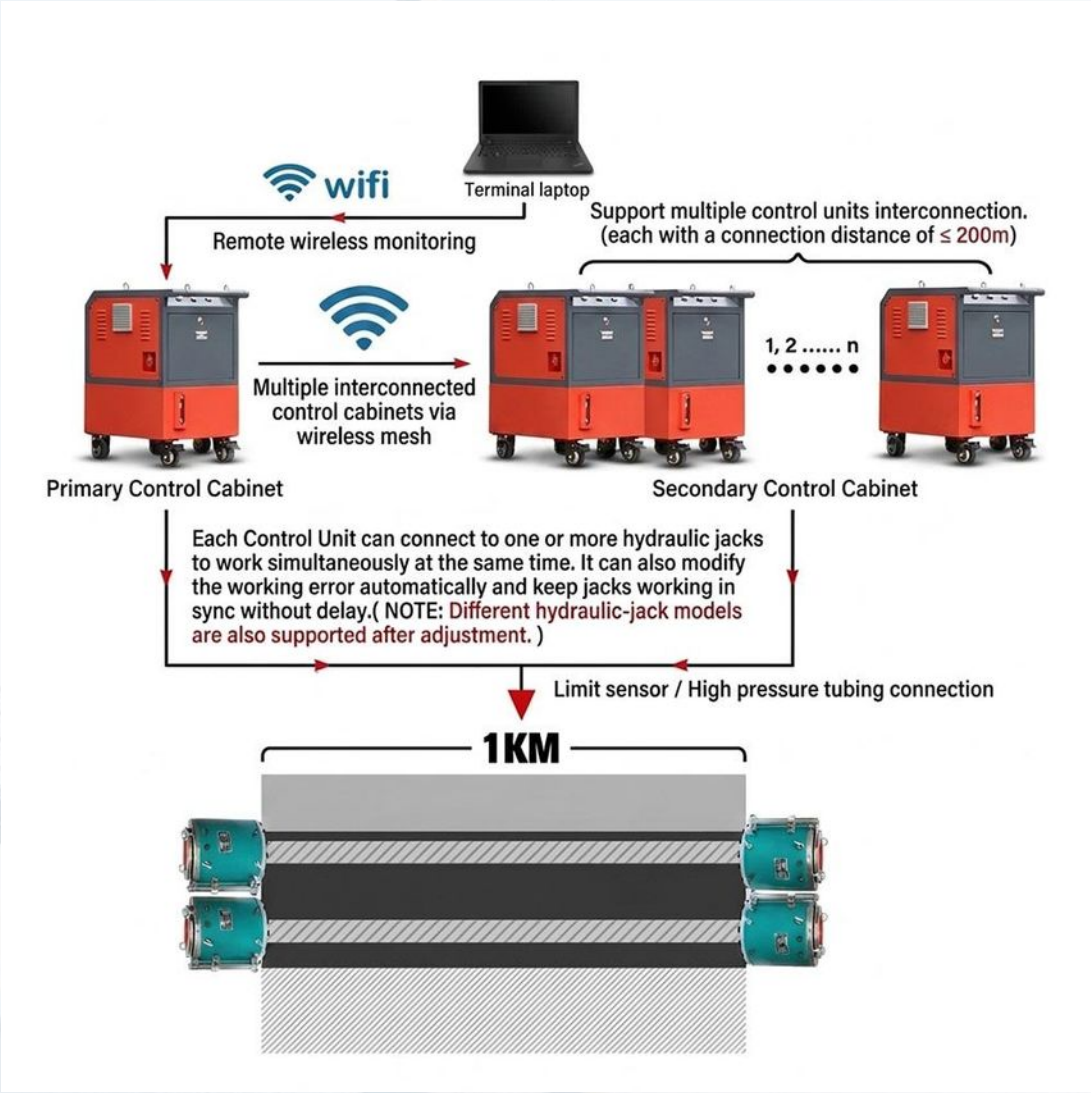
PRODUCT GALLERY · 产品图集








DETAILS · 系统说明



DF-ZNZL-XⅡ Intelligent Tensioning System

DF-ZNZL-XⅡ智能张拉系统

PRODUCT GALLERY · 产品图集









FEATURES · 产品特点

· 多点同步顶升液压系统由五部分组成：液压泵站、PLC计算机控制系统、液压执行系统、位移与压力检测系统以及人机交互操作界面。 该系统集成了液压顶升技术、PLC信号处理、位移监测、桥梁结构分析及施工工艺，是一项针对该综合系统的成套技术开发成果。

· 其核心在于：基于桥梁结构分析与施工工艺，针对桥梁特性设计PLC信号处理与液压控制系统；系统接收外部监测装置的位移信号，输出液压系统流量控制信号，并通过多组末端千斤顶实现桥梁的平衡、安全、高效顶升与水平平移。该系统的顶升荷载范围为200吨至3200吨，顶升高度范围为5毫米至500毫米。

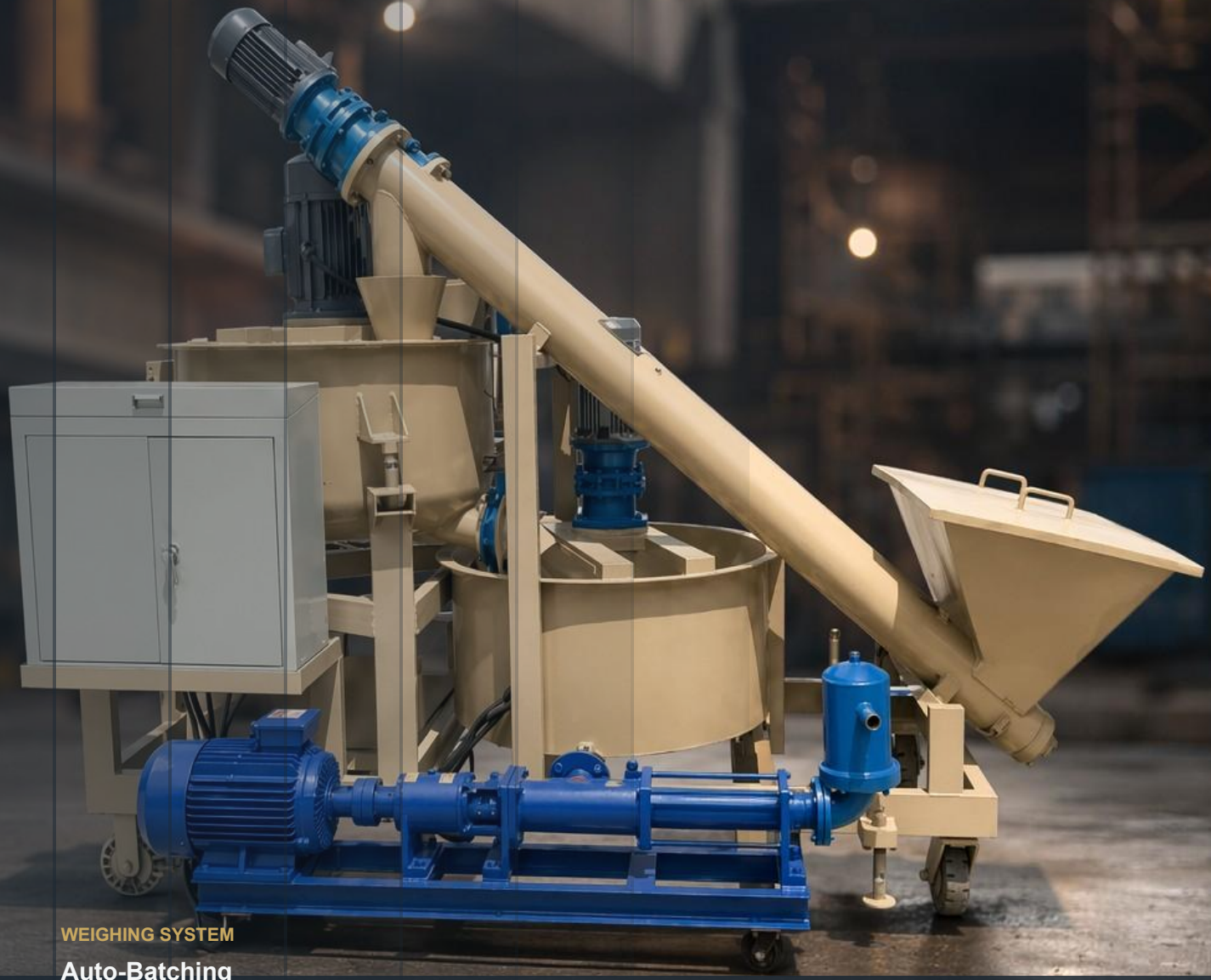
TECHNICAL SPECS · 技术参数

Parameter (EN)	参数 (中文)	Value · 数值
Type	类型	**Double Acting**
Motor Power	电机功率	**3kW / 4kW /5kW**
Voltage	电压	**380V/Customized**
Control	控制	**PLC**
Max Pressure	最大压力	**50MPa - 70MPa**
Flow Rate	流量	**2L/min - 4L/min**
Tank Capacity	油箱容量	**20L - 120L**
Displacement Measurement Accuracy	位移测量精度	**<0.25(Resolution 0.1mm)**
Pressure Measurement Accuracy	压力测量精度	**<0.5(Resolution 0.01MPa)**
Operating Temperature	工作温度	**-20℃ -50℃**

05

GROUTING EQUIPMENT

压浆设备



MODEL
DFYJ-700

WEIGHING SYSTEM
Auto-Batching

GROUT QUALITY
+30% Density

AUTOMATION
PLC Controlled

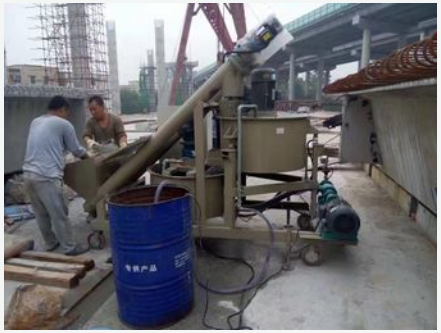
DF-YJ700 Intelligent Grouting Machine

DF-YJ700 智能压浆机

PRODUCT GALLERY · 产品图集





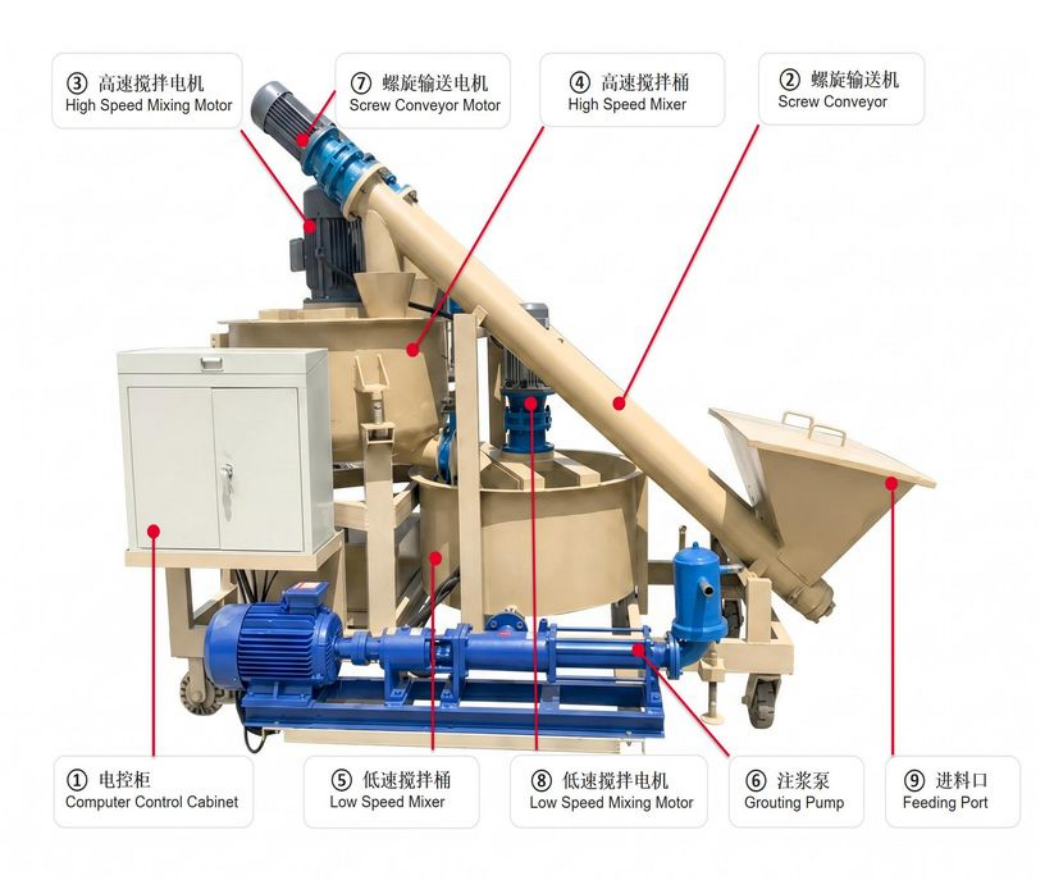




FEATURES · 产品特点

Highly integrated process with a high degree of automation
It integrates material feeding, proportioning/metering, slurry mixing, storage, and grouting into a single unit. This eliminates the need for separate mixers, manual feeding, and standalone grout pumps, significantly reducing the equipment footprint and labor requirements. The system allows for preset water-cement ratios and automatic water addition control, ensuring far superior consistency in slurry proportioning compared to manual methods.

DETAILS · 系统说明



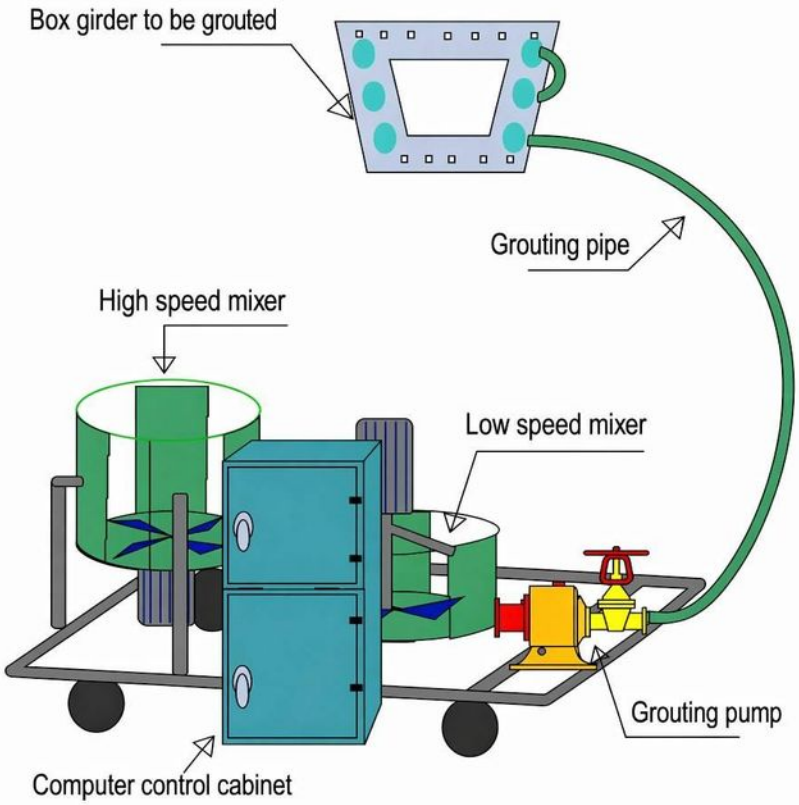
APPLICATIONS · 应用领域

It can be applied to industries such as grouting of the tunnel after tension in the construction of railway bridges. It can also be applied to prestressed construction in railway, highway, bridge and construction projects and production of some chemical companies.

Intelligent Grouting Machine

DF-YJ700 智能压浆机

PRODUCT GALLERY · 产品图集



Whole grouting system part flow chart

Note:

1.some part did not show

2.All equipment components are based on physical objects

3. Please follow the instructions or the debugging staff of the factory

TECHNICAL SPECS · 技术参数

Parameter (EN)	参数 (中文)	Value · 数值
Voltage	电压	**380V / Customized**
High Speed Motor	高速电机	**7.5kW**
Grouting Motor	注浆电机	**5.5kW**
Measurement Accuracy	测量精度	**0.50%**
Feeding Motor	进料电机	**7.5kW**
Low Speed Motor	低速电机	**2.2kW**
Single Stirring Amount	单次搅拌量	**350kg**
Dimension	尺寸	**2860 * 1600 * 2180mm**

Grouting Machine

DF-GJ灌浆机

PRODUCT GALLERY · 产品图集









FEATURES · 产品特点

1. Two piston cylinders alternate between suction and injection strokes, resulting in reduced pulsation and more stable injection pressure compared to single-cylinder pumps.

2. The unit is lightweight and equipped with wheels for manual transport, allowing for operation at beam ends, foundation pit slopes, and confined work areas without the need for complex lifting or positioning; it is ideal for projects with smaller workloads and dispersed work sites.

TECHNICAL SPECS · 技术参数

Parameter (EN)	参数 (中文)	Value · 数值
Motor Power	电机功率	**4 / 5.5kW**
Voltage	电压	**220V / 380V / Customized**
Delivery Capability	输送能力	**6m3/h**
Delivery Height	输送高度	**70m**
Dia of Inlet Pipe	进水管直径	**63mm**
Dia of Outlet Pipe	出水管直径	**38mm**
Working Pressure	工作压力	**3~6MPa**
Horizontal Delivery Distance	水平输送距离	**200m**
Dimension	外形尺寸	**1400 * 800 * 940mm**
Weight	重量	**320kg**

APPLICATIONS · 应用领域

1. Geotechnical Support Engineering
2. Tunnel and Underground Engineering
3. Building Construction and Municipal Engineering
4. Prestressed Construction Support

06

REBAR MACHINERY

钢筋加工设备



PRECISION
± 1 mm

PRODUCTIVITY
3-5× Efficiency

PROCESS TYPE
CNC Bending · Forming

APPLICATIONS
Bridge · Tunnel · Precast

CNC Rebar Bending Machine

数控钢筋弯曲机

PRODUCT GALLERY · 产品图集









FEATURES · 产品特点

1. Target bending angles can be entered directly via the digital panel; the machine automatically controls the turntable rotation, ensuring minimal angular error and consistent bending across batches, thereby meeting standardization requirements for rebar processing.
2. Capable of bending rebar up to Φ32mm, covering the processing needs for the vast majority of standard load-bearing rebar and stirrups used in building construction and bridge projects; supports 90° right-angle bends, 135° hooks, and custom-angle bendin

TECHNICAL SPECS · 技术参数

Parameter (EN)	参数 (中文)	Value · 数值
Type	型号	**NC control**
Motor power	电机功率	**3 kW / 4 kW**
Motor speed	电机转速	**1420 r/min**
Voltage	电压	**220V / 380V / Customized**
Rebar bending diameter	钢筋弯曲直径	**6–36 mm**
Bending disk diameter	弯曲盘直径	**350 mm**
Max. bending diameter	最大弯曲直径	**36 mm**
Main shaft speed	主轴转速	**10.5 r/min**
Weight	重量	**330 kg**

APPLICATIONS · 应用领域

Cutting and bending of standard rebar prior to construction of buildings, bridges, or prestressed components;
Batch processing of stirrups and anchorage hooks for longitudinal load-bearing rebar;
On-site processing of miscellaneous rebar at small-scale construction sites.

Spiral Rebar Forming Machine

螺旋筋成型机

PRODUCT GALLERY · 产品图集









TECHNICAL SPECS · 技术参数

Parameter (EN)	参数 (中文)	Value · 数值
Motor Power	电机功率	**3kW**
Rated Voltage	额定电压	**380V / Customized**
Spiral Rebar Diameter Range	螺旋筋直径范围	**90mm-280mm**
Roller Diameter	滚轮直径	**300mm**
Weight	整机重量	**125kg**
Rotating Speed	旋转速度	**1430r/min**
Certification	认证	**ISO 9001:2015**
Size	尺寸	**1000*700*1000(mm)**

FEATURES · 产品特点

1. Specialized Service for Post-Tensioning Construction
The produced spiral reinforcement directly meets the specifications for various round and flat anchorages, featuring uniform inner diameters, coil pitches, and coil counts.
2. Versatile Processing Capabilities
Interchangeable main spindles and rollers allow for the production of spiral reinforcement compatible with anchorages ranging from 4 to 19 strands;

APPLICATIONS · 应用领域

Fabrication of spiral reinforcement for multi-strand round and flat anchorages;
Processing of anchorage-end reinforcement for bridge T-beams, box girders, and post-tensioned basement slabs;
Prefabrication of spiral stirrups for foundation pit anchor cable anchorages.

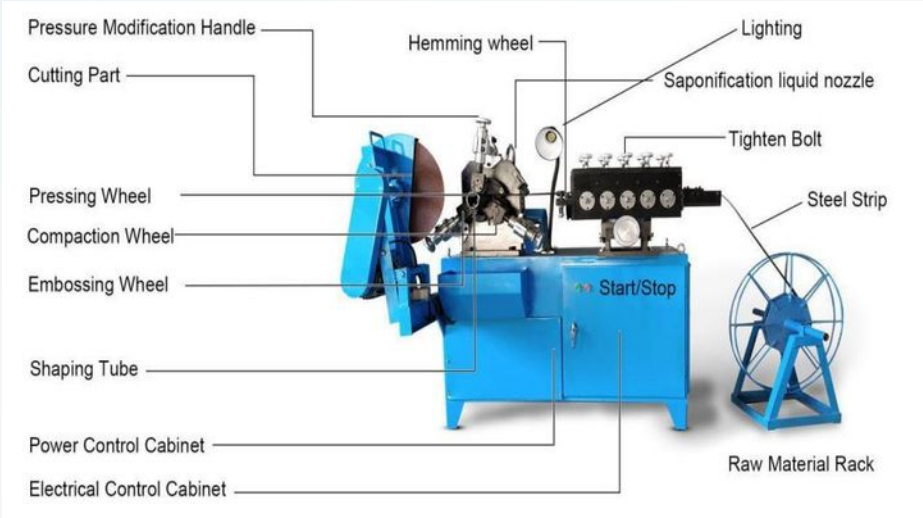
Spiral Duct Making Machine

波纹管机

PRODUCT GALLERY · 产品图集







TECHNICAL SPECS · 技术参数

Parameter (EN)	参数 (中文)	Value · 数值
Power	功率	**3kW / 5.5kW / 7.5kW (Customized)**
Voltage	电压	**380V 60Hz (Customized)**
Power For Cutting Machine	切割机功率	**0.75kW**
Water Pump Motor	水泵电机	**80w**
Thickness Of Steel Strip	钢带厚度	**0.25-0.4mm**
Producing Metal Ducts Diameter	生产金属风管直径	**35~140mm**
Duct Corrugation Type	风管波纹类型	**Double Waves**
Producing Duct Speed	风管生产速度	**φ30-70mm 15m/min; φ80-140mm 9m/min**
Dimension	外形尺寸	**1600 * 1400 * 1400mm**
Weight	重量	**700kg**

FEATURES · 产品特点

1. The entire process—from steel strip uncoiling, leveling, and corrugating to spiral interlocking and fixed-length cutting—is fully automated.
2. The steel strip utilizes a spiral interlocking seam process, ensuring a tight seal; the machine can produce circular corrugated pipes with various internal diameters.

APPLICATIONS · 应用领域

Prefabrication of metal corrugated ducts for prestressing channels in bridge box girders, T-beams, and hollow-core slabs;
Processing of ducting for post-tensioned prestressed structures in large basements and long-span buildings;
Production of sleeves for foundation pit anchor cables and slope prestressed anchor cables.

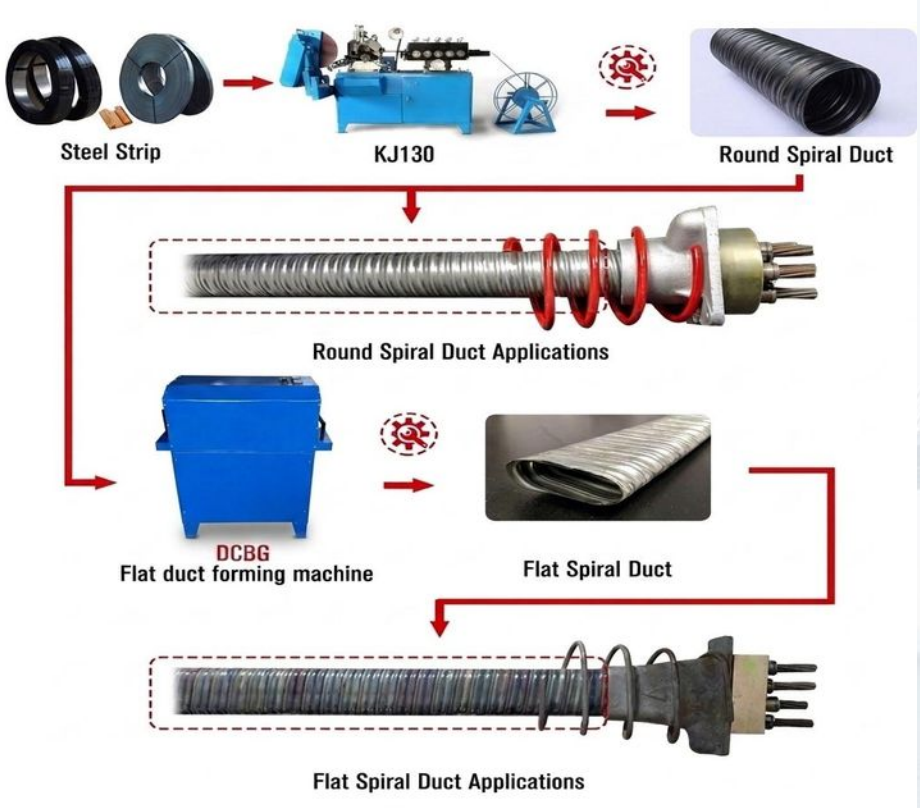
Flat Duct Forming Machine

扁管机

PRODUCT GALLERY · 产品图集







TECHNICAL SPECS · 技术参数

Parameter (EN)	参数 (中文)	Value · 数值
Driving motor power	驱动电机功率	**1.5kW**
Duct inner width	风管内宽	**52~90mm**
Duct inner height	风管内高	**19/22mm**
Round duct dia	圆形风管直径	**35-135mm**
Duct dia range	风管直径范围	**φ35-φ130mm**
Production speed	生产速度	**4m/min**
Weight	重量	**180kg**
Overall dimension	外形尺寸	**1500*500*1850**

APPLICATIONS · 应用领域

Processing of flattened corrugated pipes for prestressed slabs in long-span garages and basements (utilizing flat anchorage technology);
Fabrication of prestressed ducting for narrow-section areas—such as the webs of hollow-core slabs and small box girders—in bridges;
Various prestressed structures where vertical space constraints preclude the use of standard circular corrugated pipes.

07

AUXILIARY EQUIPMENT

辅助施工设备



VIBRATOR

DF-CV150

STEAM CURING

DFRY / DFDR

CURING SYSTEM

Smart Temp Control

APPLICATIONS

Precast Concrete

High Frequency Concrete Vibrator

DF-CV 高频混凝土振动器

PRODUCT GALLERY · 产品图集







Power Control Cabinet (Front)

1: Main Power Circuit Breaker 2: Timer
3: Voltage (Left) / Current Meter(Right) 4: Power Indicator
5: Start Button 6: Stop Button 7: Restart Button
8: Frequency Rotary Switch 100HZ / 150HZ / 200HZ
9: Power Output Circuit Breaker 10: Cooling Fan

TECHNICAL SPECS · 技术参数

Parameter (EN)	参数 (中文)	Value · 数值
Motor Power	电机功率	**1.5kW / 2.2kW**
Vibration Frequency	振动频率	**9000-11000次/min**
Excitation Force	激振力	**11-16 KN**
Working Voltage	工作电压	**380V**
Weight	整机重量	**20-35 kg**
Waterproof Grade	防水等级	**IPX-7**
Variable Frequency Vibrator Control Cabinet 1 Driven 6	变频振动器控制柜 1 驱动 6	**50*40*90cm**
Variable Frequency Vibrator Control Cabinet 1 Driven 8	变频振动器控制柜 1 驱动 8	**50*40*90cm**
Variable Frequency Vibrator Control Cabinet 1 Driven 10	变频振动器控制柜 1 驱动 10	**55*45*98cm**
Variable Frequency Vibrator Control Cabinet 1 Driven 12	变频振动器控制柜 1 驱动 12	**55*45*98cm**

APPLICATIONS · 应用领域

Concrete pouring and vibration for T-beams, box girders, and hollow core slabs in bridge prefabrication yards;
External formwork vibration for heavily reinforced components, such as large prestressed roof trusses and pier caps;
Construction in areas where complex prestressing duct layouts prevent the insertion of internal vibrators.

DFRY/DFDR Steam Curing Equipment

DFRY/DFDR 蒸汽养护设备

PRODUCT GALLERY · 产品图集









FEATURES · 产品特点

1. Uses electric heating to generate steam; produces no coal-combustion emissions. Provides stable steam temperature and pressure, maintaining constant temperature and humidity within the curing enclosure.
2. Features integrated pressure and water-level safety interlocks: automatic power cutoff upon water shortage and pressure relief during overpressure. Combined with temperature and humidity monitoring, it enables standardized curing processes involving staged heating, constant-temperature holding, and controlled cooling.

TECHNICAL SPECS · 技术参数

Parameter (EN)	参数 (中文)	Value · 数值
Heating Method	加热方式	**Fuel-fired / Electric heating**
Rated Pressure	额定压力	**0.5 - 0.7 MPa**
Steam Temperature	饱和蒸汽温度	**140 - 170°C**
Evaporation Capacity	蒸发量	**45 - 90 L/h**
Power Range	功率范围	**24 - 72 kW (Electric heating)**
Oil Consumption	耗油量	**5 L/h**

APPLICATIONS · 应用领域

Steam curing of precast concrete beams for highway and railway bridges;
Winter freeze-protection curing for large-volume prestressed components, pier caps, and small box girders;
Humidification and heating curing for prestressed components in basement construction during winter.

08

PC STRAND & PUSHER

钢绞线与穿束机



TENSILE STRENGTH
1720 / 1860 / 1960 MPa

DIAMETER
9.5 / 12.7 / 15.2 mm

STANDARD
GB/T 5224

STRAND PUSHER
DF-CXJ Pusher

Prestressed Concrete PC Strand

预应力混凝土钢绞线

PRODUCT GALLERY · 产品图集









FEATURES · 产品特点

1. Lightweight structural design suitable for long-span bridges and large-span floor slabs.
2. Subjected to specialized heat treatment for low relaxation; exhibits minimal long-term stress loss under constant tensile stress, thereby reducing the need for subsequent re-tensioning.
3. Unbonded strands allow for future inspection and replacement, making them suitable for semi-permanent or permanent structures requiring maintenance or cable replacement.

TECHNICAL SPECS · 技术参数

Parameter (EN)	参数 (中文)	Value · 数值
Nominal Diameter	公称直径	**9.5mm / 12.7mm / 15.2mm / 17.8mm**
Tensile Grade	强度级别	**1720/1860/1960 MPa**
Strand structure	绞合结构	**1×7**
Relaxation	松弛级别	**Low relaxation**
Coil Weight	每卷重量	**2.0 - 4.0 tons**
Surface Treatment	表面处理	**Black / Galvanized**

APPLICATIONS · 应用领域

Longitudinal prestressing reinforcement for highway/railway bridge box girders, T-girders, and hollow-core slabs;
Unbonded prestressed floor slab reinforcement for underground garages and large-span industrial facilities;
Prestressed anchor cable reinforcement for deep foundation pits and slopes;
Specialized large-span prestressed structures such as large-scale sewage treatment tanks and sports stadiums.

PC Strand Pusher

穿束机

PRODUCT GALLERY · 产品图集









FEATURES · 产品特点

1. Labor-saving and efficient; suitable for long-distance tendon threading
Capable of continuously feeding strands through curved ducts in box girders spanning over a hundred meters; threads single or multiple strands in one pass. Construction efficiency is several times higher than manual methods, significantly reducing labor requirements.
2. Bidirectional control (forward and reverse)
Supports forward feeding and reverse retraction; allows for retraction and re-operation in cases of threading misalignment or strand length errors.

TECHNICAL SPECS · 技术参数

Parameter (EN)	参数 (中文)	Value · 数值
Motor Power	电机功率	**3 kW - 7.5 kW**
Voltage	电压	**220V / 380V**
Applicable Strand Diameter	适用钢绞线直径	**12mm - 16mm**
Transport Distance	输送距离	**50m - 200m**
Control Method	控制方式	**Intermittent/Continuous, Forward/Reverse**
Weight	重量	**120kg - 230kg**
Size	尺寸	**950×450×400mm**

APPLICATIONS · 应用领域

Strand threading for long ducts in bridge box girders and T-girders;
Strand threading through flat corrugated ducts in large-span basement floor slabs;
Feeding and threading strands into long anchor cable ducts for slopes and foundation excavations.

THANK YOU FOR YOUR ATTENTION

THANK YOU

感谢观看 · 期待与您合作

Prestressed Concrete Equipment · Global Solutions Since 2010

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