Address:No.16, Xingzhong Road, Xinxing Industrial Park, Liujiang District,
Liuzhou city, Guangxi Province, China
Phone number:0086-772-7250615
Email:lzqmv@sina.com
Web: http://www.qmvchina.com
Postcode:545000

June,2024

QMV®

QMV PRESTRESSING SYSTEM

Liuzhou QM Construction Machinery Co.,Ltd.

QMV PRESTRESSING SYSTEM

http://www.qmvchina.com

COMPANY PROFILE

Liuzhou QM Construction Machinery Co., Ltd. (QMV for short) is a diversified and specialized high-tech enterprise integrating R&D of prestressing technology, and production, marketing and installation of prestressed products.

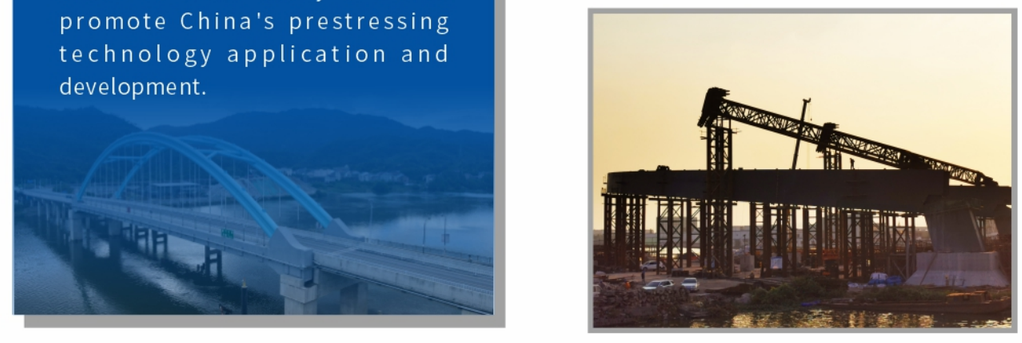
▲ Establishment: Liuzhou Huiqiao Machinery Factory was established in 1988 and its industrial and commercial registration was changed into Liuzhou QM Construction Machinery Co., Ltd. in September 2000.

▲ Scale of company: It covers an area of 3.33 hectares, of which 20,000 square meters are used for the production plant. The company boasts environmental-friendly automated production line for grips and anchorages, advanced production lines for prestressed construction equipment, stayed-cables and heat treatment, etc. and has established testing departments like test center, hardness room, physical and chemical room, and flaw detection room.

▲ Business scope: Production, sales, technical services and installation of prestressed anchors, fixtures, prestressed construction equipment, stayed-cables, suspension cables, booms, tie rods and related products.

▲ Enterprise advantages: QMV has implemented ERP, MES management in production and operation, and passed CCPC traffic products, safety production standardization Level III enterprise, quality, environment, occupational health management system certification. QMV has experienced technicians in design, production, maintenance, engineering construction and installation of prestressed anchors, construction equipment, stayed-cables, etc., complete testing equipment, advanced production equipment and exquisite manufacturing process. Its marketing network is spread worldwide, and its service is efficient and fast.

QMV's quality policy is "People-oriented, pioneering and innovative, honesty, and creating QMV brand"; the environmental policy is "Complying with laws and regulations, preventing pollution, making good use of resources, and continuous improvement"; "Safety first, prevention first, continuous improvement, and ensuring health" is the occupational health and safety policy, perfect product marketing and after-sales service system, rich experience in scientific research, production and engineering construction, high-quality products and commitment to lifelong responsibility for product quality, in order to make every effort to promote China's prestressing technology application and development.




Unity
Hard work
Forge ahead
Glory
QM
邱姆机械
QMV

QMV PRESTRESSING SYSTEM

Company qualification

http://www.qmvchina.com

STANDARD SETTING

QMV participate in drafting and revising domestic standards as below:

GB/T14370-2015 Anchorage, grip and coupler for prestressing tendons

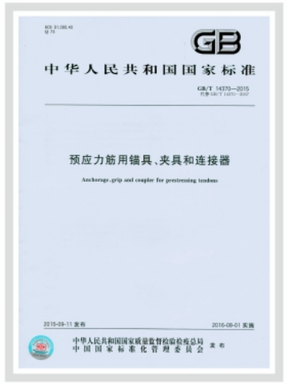
JG/T161-2016 Unbonded prestressing steel strand

JB/T 13462-2018 Building construction machinery and equipment - Prestressing force intelligent tensioning machine

JG/T 225-2020 Corrugated metal ducts for prestressed concrete

T/CECS10112-2020 Anchorage and grip for prestressing fiber-reinforced polymer

T/CACEM 00009-2016 Prestressing strand anchorage for highway



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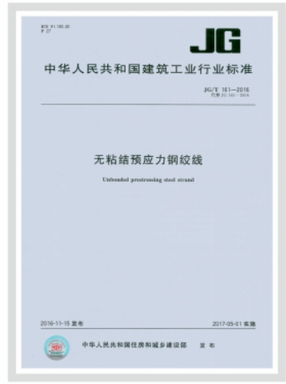
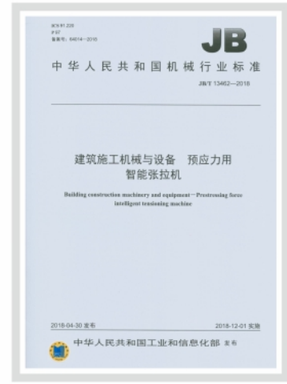


JG/T161-2016



JB/T 13462-2018

JGT 225-2020

T/CECS 10112-2020

T/CACEM 00009-2016

THE COMPANY HONOR

PATENT FOR INVENTION

QMV has obtained more than 33 patents on various technologies.


Raw Material Warehouse


Raw Materials Processing Line


Eco-friendly Wedge Production Line


Automatic Anchorage Production Line


Prestressed Construction Machine Production Line


Steel Wire Production Line


Spiral Reinforcement Production Line

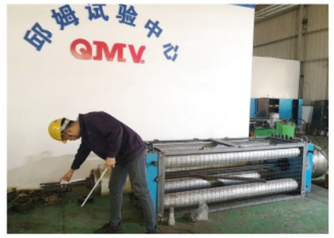

Assembly Workshop


Wedge Carbonitriding Heat Treatment


Anchorage Quenching-tempering Heat Treatment

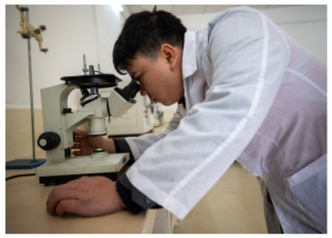

Surface Rust Treatment Production Line


Warehouse



Product Test Center

Material Ultrasonic Test



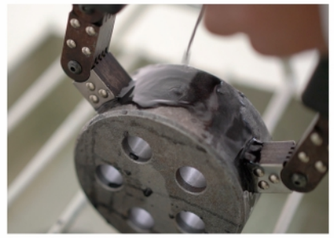
Wedge Physical and Chemical Analysis

Material Composition Test

Wedge Hardness Test

Wedge Thread Detection

The Anchor Plate Strength Test

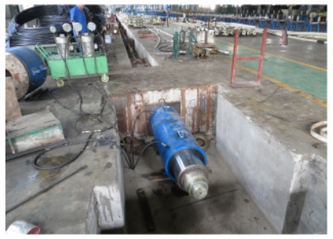


Anchorage Magnetic Particle Inspection

Low Temperature Anchoring Performance Test

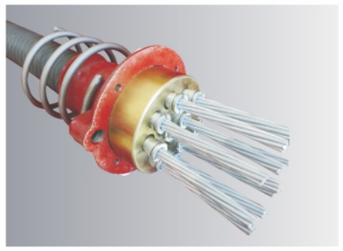
Jack Factory Test

Intelligent Tensioning Machine Calibration



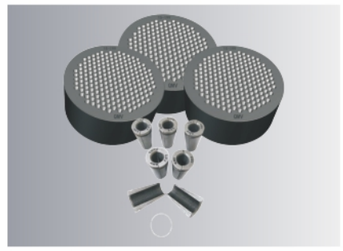
Steel Wire Overtensioning Test

PRODUCT DISPLAY

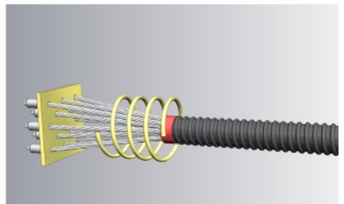


Stressing-end Anchorage

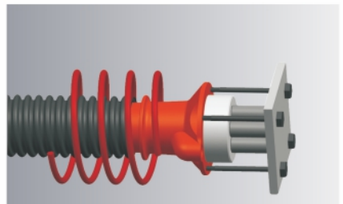
Working Anchorage



Working Anchor Head
YJM15-199QMV

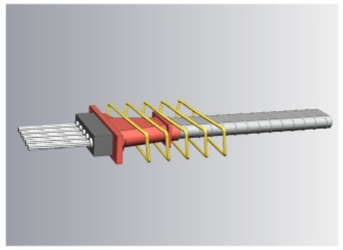


Dead-end Anchorage Type P

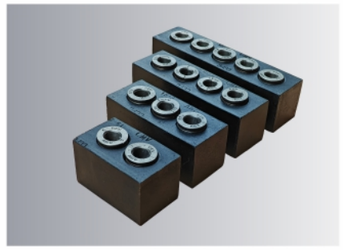


Dead-end Anchorage Ring P

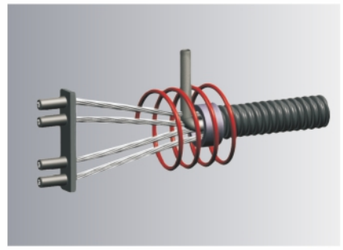
Swaged End



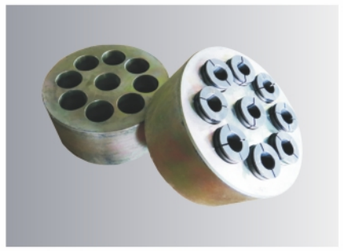
Stressing-end
Slab Anchorage



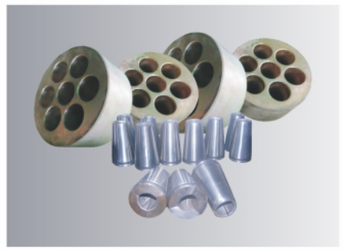
Slab Working Anchorage



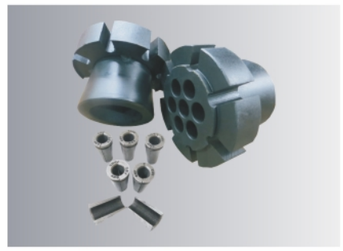
Dead-end Slab Anchorage
Type BP



Working Anchorage
type QMV.M21.6



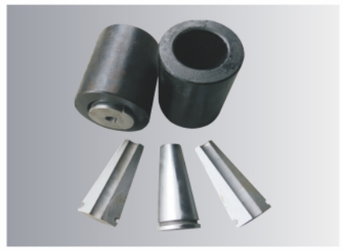
Working Anchorage
type QMV.M28.6



Coupler

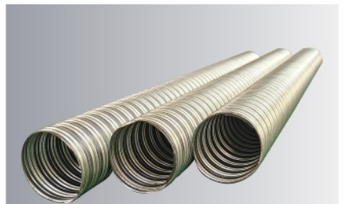
PRODUCT DISPLAY

Mono-Strand Coupler



Single Prestressed
Tool Anchorage

Tool Anchorage

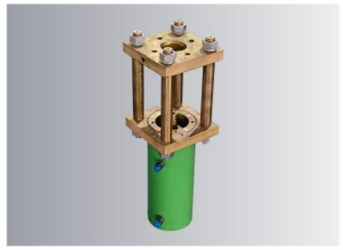


Round Duct

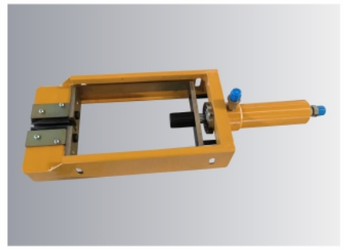
Mono Jack

Hydraulic Jack

Hydraulic Pump



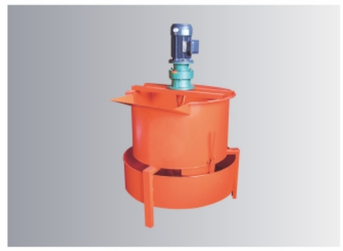
Swaging Machine



Bulb Machine

Button-head Device

Mortar Pump



Mixer

CONTENTS

QMV PRESTRESSING SYSTEM

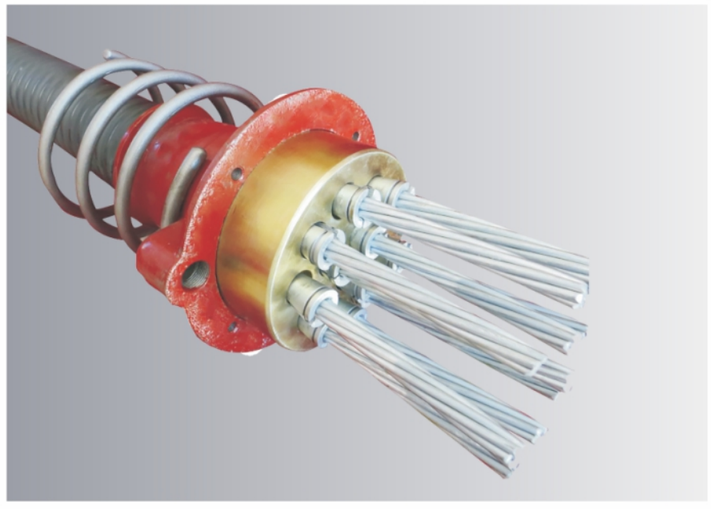
QMV prestressing system may be classified into steel strand anchorage, steel wire anchorage, steel bar anchorage and FRP material anchorage according to the needs of anchorage of different prestressed tendons. It is also equipped with related prestressed construction equipment such as jack and high-pressure oil pump. The products are widely applied in construction of highways, railways, bridges, large-scale buildings, mines, geotechnical anchorage, hydropower, nuclear power energy, photovoltaic energy, wind energy projects, as well as engineering of low-temperature LNG storage tank, etc.

At present, the steel strand anchorage, as a new generation of 2,400-MPa high-strength steel strand prestressing system optimized and upgraded on the basis of the original 1,860-Mpa one, is the leading prestressing system of the company. The prestressing system has the following advantages:

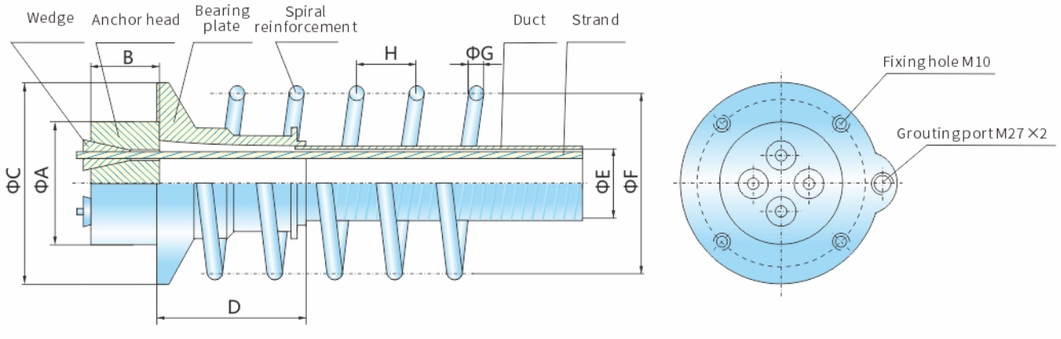
1. It has good stretching and self-anchoring performance, with clamping piece following up flush and with stable clamping performance and is convenient for construction operation.
2. With application strength of 2,400 Mpa, it' s applicable to steel strands with various diameters such as Φ12.7, Φ15.2, Φ15.7, Φ17.8, Φ21.6, Φ21.8, Φ28.6 mm.
3. It has complete varieties and extensive selection range. The number of steel strands ranges from 1 to 199, which can be increased to meet the engineering design requirements.
4. With small spacing between steel strands on the anchorage, compact layout of prestressed tendons, small friction loss of anchorage, high anchorage efficiency coefficient, stable and reliable anchorage performance, and sufficient bearing capacity and good applicability, it meets the requirements of graded tension and supplementary tension of prestressed tendons. All of its performances meet the requirements of GB/T14370 Anchorage, grip and coupler for prestressing tendons, JT/T329 Prestressing strand anchorage, grip and coupler for highway bridge, TB/T 3193 Anchorage, grip and coupler for prestressing tendons in railway construction, FIP-1993 Recommendations for the acceptance of post-tensioning systems and other standards.

STRESSING-END ANCHORAGE

YJM15 stressing-end anchorage can be used to PC strand diameter Φ15.2mm-Φ15.7mm, YJM13 stressing-end anchorage be used to PC strand diameter Φ12.7mm-Φ12.9mm,with PC strand less of 2000 Mpa,1×7 structure.Each set consists of anchor head,wedge,bearing plate and spiral reinforcement.
Stressing together with YDC series Hydraulic Jacks and ZB4-500 Hydraulic pump.



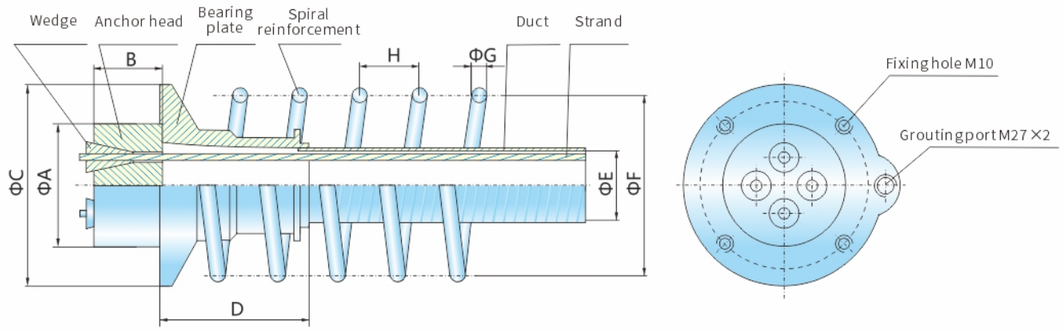
Stressing-end Anchorage YJM15



Main Data

Specification	Anchor head	Bearing plate	Duct	Spiral reinforcement		Stressing Jack
	ΦA×B	ΦC×D	(I.D.)ΦE	ΦF×ΦG×H	N	
YJM15-1	Φ48×48	80×80×δ14		Φ80×Φ8×30	4	YDCQ250
YJM15-2	Φ86×50	Φ130×110	Φ45	Φ120×Φ10×40	4	YDC1000
YJM15-3	Φ91×50	Φ130×110	Φ45	Φ120×Φ10×40	4	YDC1000
YJM15-4	Φ102×50	Φ145×120	Φ45	Φ140×Φ10×50	4	YDC1000
YJM15-5	Φ112×50	Φ160×130	Φ50	Φ150×Φ10×50	4	YDC1500
YJM15-6	Φ126×52	Φ180×150	Φ60	Φ170×Φ12×50	4	YDC1500
YJM15-7	Φ126×52	Φ180×150	Φ60	Φ170×Φ12×50	4	YDC1500
YJM15-8	Φ136×55	Φ195×160	Φ65	Φ190×Φ12×50	4	YDC2000
YJM15-9	Φ146×55	Φ208×160	Φ70	Φ200×Φ12×50	4	YDC2500
YJM15-10	Φ156×58	Φ220×180	Φ75	Φ205×Φ14×60	4	YDC2500
YJM15-11	Φ166×58	Φ235×190	Φ75	Φ205×Φ14×60	4	YDC3000
YJM15-12	Φ166×60	Φ235×190	Φ80	Φ230×Φ14×60	4	YDC3000
YJM15-13	Φ170×63	Φ235×190	Φ80	Φ230×Φ14×60	4	YDC3500
YJM15-14	Φ176×65	Φ250×210	Φ85	Φ240×Φ14×60	4	YDC3500Q
YJM15-15	Φ186×68	Φ265×245	Φ85	Φ260×Φ16×60	5	YDC3500
YJM15-16	Φ196×70	Φ265×245	Φ85	Φ260×Φ16×60	5	YDC4000
YJM15-17	Φ196×73	Φ275×265	Φ85	Φ280×Φ16×60	5	YDC4000
YJM15-18	Φ206×75	Φ285×280	Φ90	Φ280×Φ16×60	5	YDC4000
YJM15-19	Φ206×75	Φ285×280	Φ90	Φ280×Φ16×60	5	YDC5000
YJM15-20	Φ226×80	Φ300×290	Φ95	Φ290×Φ16×60	5	YDC5000
YJM15-21	Φ226×80	Φ300×290	Φ100	Φ290×Φ16×60	5	YDC5000
YJM15-22	Φ226×80	Φ300×290	Φ105	Φ290×Φ18×60	5	YDC5000
YJM15-23	Φ226×85	Φ330×300	Φ110	Φ330×Φ18×60	5	YDC6500
YJM15-24	Φ235×85	Φ330×300	Φ110	Φ330×Φ18×60	5	YDC6500
YJM15-25	Φ245×85	Φ330×300	Φ115	Φ330×Φ18×60	5	YDC6500
YJM15-26/27	Φ245×90	Φ330×300	Φ115	Φ330×Φ18×60	5	YDC6500

Stressing-end Anchorage YJM13

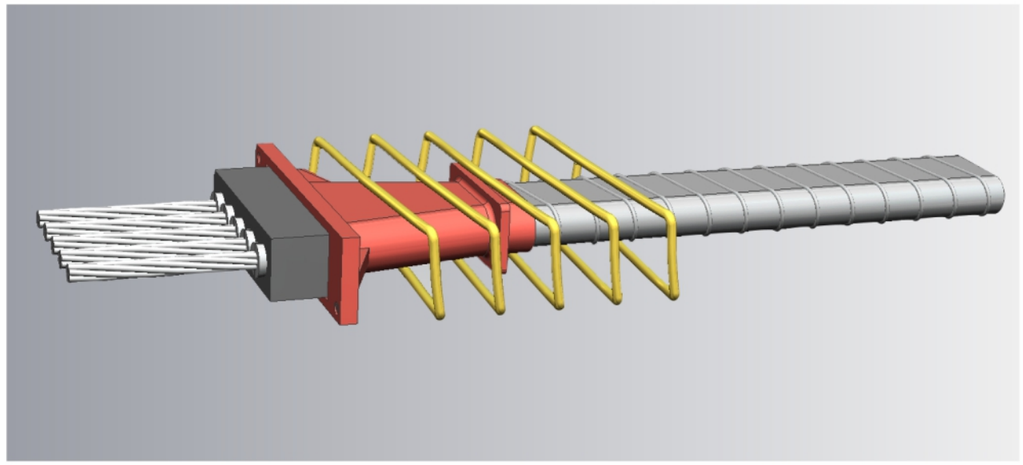


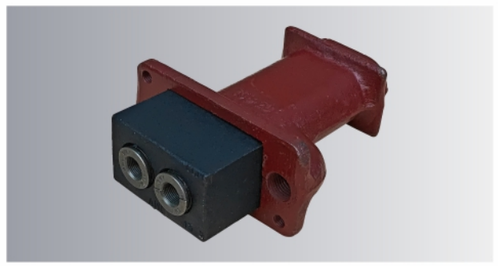
Main Data

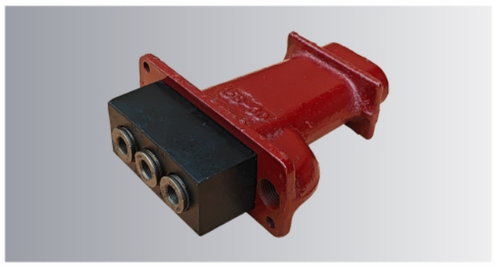
Specification	Anchor head	Bearing plate	Duct	Spiral reinforcement		Stressing Jack
	ΦA×B	ΦC×D	(I.D.)ΦE	ΦF×ΦG×H	N	
YJM13-1	Φ40×40	80×80×δ14		Φ90×Φ6×30	4	YDCQ250
YJM13-2	Φ78×43	Φ130×70	Φ45	Φ120×Φ6×40	4	YDC1000
YJM13-3	Φ85×43	Φ130×70	Φ45	Φ120×Φ6×40	4	YDC1000
YJM13-4	Φ95×44	Φ140×75	Φ45	Φ120×Φ8×40	4	YDC1000
YJM13-5	Φ105×44	Φ155×80	Φ50	Φ120×Φ8×40	4	YDC1500
YJM13-6	Φ115×45	Φ165×85	Φ60	Φ135×Φ10×40	4	YDC1500
YJM13-7	Φ120×45	Φ165×90	Φ60	Φ135×Φ10×40	4	YDC1500
YJM13-8	Φ130×46	Φ176×110	Φ65	Φ160×Φ10×50	4	YDC2000
YJM13-9	Φ140×47	Φ185×120	Φ70	Φ160×Φ10×50	4	YDC2500
YJM13-10	Φ150×48	Φ205×120	Φ75	Φ180×Φ12×50	4	YDC2500
YJM13-11	Φ150×48	Φ210×120	Φ75	Φ180×Φ12×50	4	YDC3000
YJM13-12	Φ160×50	Φ210×140	Φ80	Φ180×Φ12×50	4	YDC3000
YJM13-13	Φ160×50	Φ215×145	Φ80	Φ180×Φ12×50	4	YDC3500
YJM13-14/15	Φ170×54	Φ234×160	Φ85	Φ210×Φ14×60	4	YDC3500
YJM13-16/17	Φ185×58	Φ245×175	Φ85	Φ210×Φ14×60	5	YDC4000
YJM13-18/19	Φ190×60	Φ265×180	Φ90	Φ230×Φ14×60	5	YDC4000
YJM13-20	Φ200×62	Φ280×200	Φ95	Φ250×Φ16×60	5	YDC5000
YJM13-21/22	Φ210×66	Φ290×220	Φ100	Φ250×Φ16×60	5	YDC5000
YJM13-23	Φ220×70	Φ300×220	Φ110	Φ270×Φ18×60	5	YDC6500
YJM13-24/25/26/27	Φ230×72	Φ310×240	Φ115	Φ270×Φ18×60	5	YDC6500

SLAB ANCHORAGE

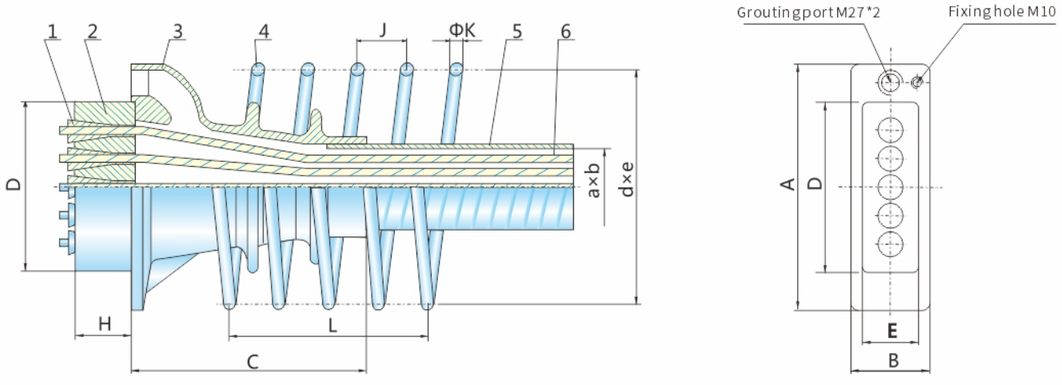
The slab anchorage have two types: Stressing-end Slab Anchorage and Dead-end Slab Anchorage. Stressing-end Slab Anchorage consists of Slab anchor head,wedge, Slab bearing plate and Slab spiral reinforcement. Dead-end Slab Anchorage consists of Swaged end,P-bearing plate, Slab spiral reinforcement and Restraining ring.
Stressing together with YDCQ Mono-strand jack, GYJ type Swaging machine and ZB4-500 Hydraulic pump.







Stressing-end Slab Anchorage BJM15

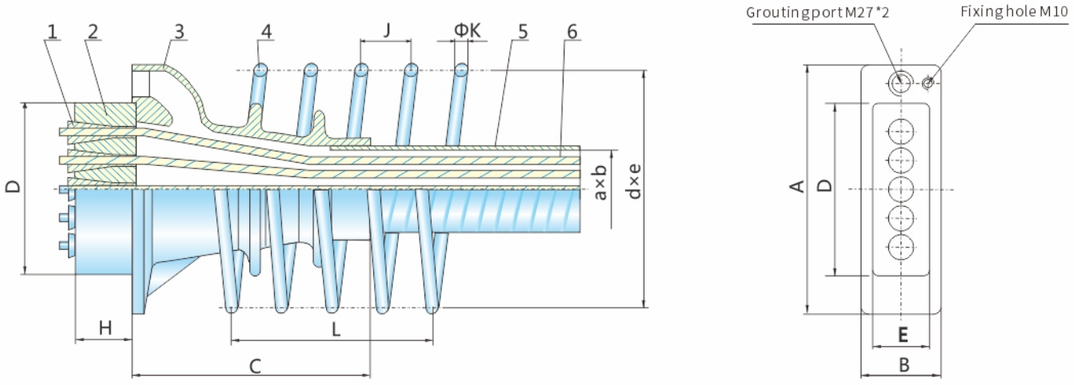


1.Wedge 2.Slab anchor head 3.Slab bearing plate 4.Slab spiral reinforcement
5.Steel flat duct 6.Strand

Main Data

Specification	Slab anchor head			Slab bearing plate			Slab duct		Slab spiral reinforcement
	D	E	H	A	B	C	a	b	d×e×J×ΦK×L
BJM15-2	80	48	50	157	70	107	50	19	140×70×50×Φ8×200
BJM15-3	115	48	50	180	70	160	60	19	180×70×50×Φ8×200
BJM15-4	150	48	50	220	70	210	70	19	220×70×50×Φ8×250
BJM15-5	185	48	50	255	70	240	90	19	260×70×50×Φ8×250

Stressing-end Slab Anchorage BJM13

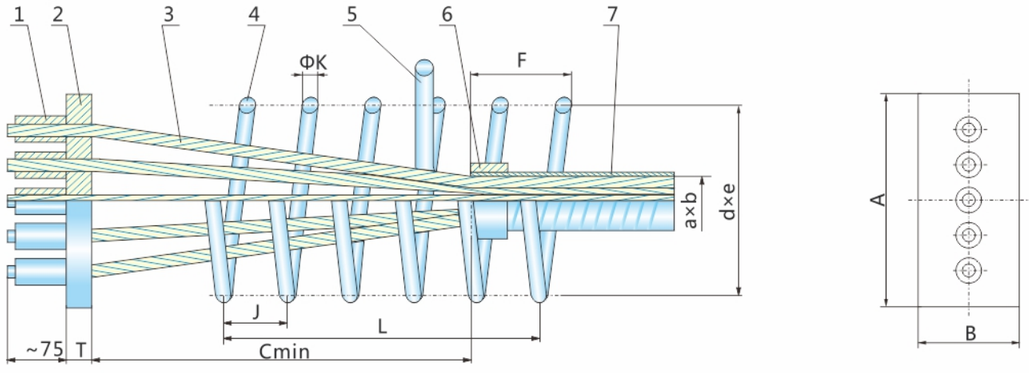


1.Wedge 2.Slab anchor head 3.Slab bearing plate 4.Slab spiral reinforcement
5.Steel flat duct 6.Strand

Main Data

Specification	Slab anchor head			Slab bearing plate			Slab duct		Slab spiral reinforcement
	D	E	H	A	B	C	a	b	d×e×J×ΦK×L
BJM13-2	80	48	48	157	70	107	50	19	130×70×45×Φ6×180
BJM13-3	113	48	48	182	70	130	60	19	170×70×45×Φ6×180
BJM13-4	146	48	48	218	70	160	70	19	210×70×45×Φ6×180
BJM13-5	180	48	48	255	70	180	90	19	250×70×45×Φ6×225

Dead-end Slab Anchorage BJYM15-NP

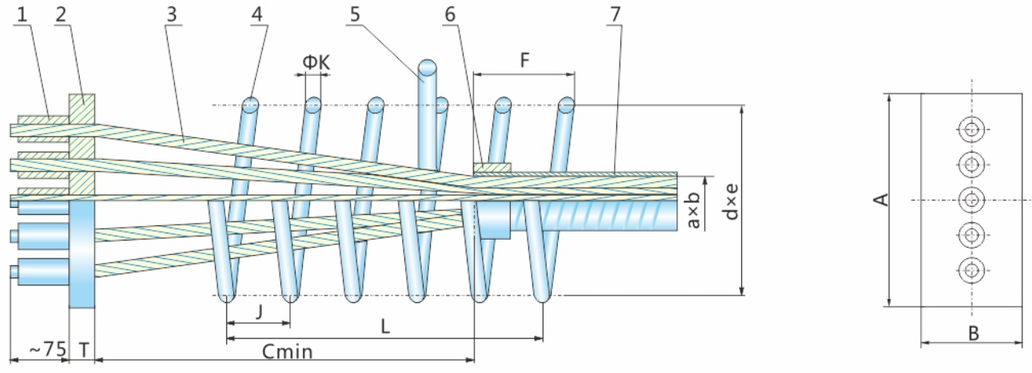


1.Swaged end 2.P-bearing plate 3.Strand 4.Slab spiral reinforcement 5.Grout tube 6.Restraining ring 7.Duct

Main Data

Specification	P-bearing plate			Spiral reinforcement	Flat duct	Restraining ring	Cmin
	A	B	T	d×e×J×ΦK×L	a×b		
BJYM15-2P	140	75	16	140×70×50×Φ8×200	50×19	Φ51×Φ57×30	190
BJYM15-3P	180	75	16	180×70×50×Φ8×200	60×19	Φ54×Φ60×30	250
BJYM15-4P	220	80	16	220×70×50×Φ8×250	70×19	Φ62×Φ68×30	320
BJYM15-5P	260	80	16	260×70×50×Φ8×250	90×19	Φ75×Φ83×30	400

Dead-end Slab Anchorage BJYM13-NP



1.Swaged end 2.P-bearing plate 3.Strand 4.Slab spiral reinforcement 5.Grout tube 6.Restraining ring 7.Duct

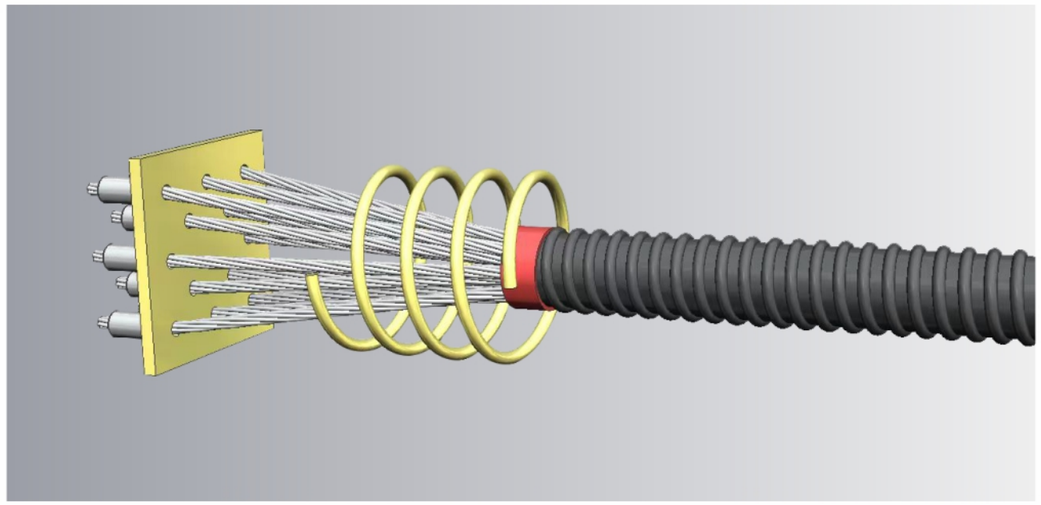
Main Data

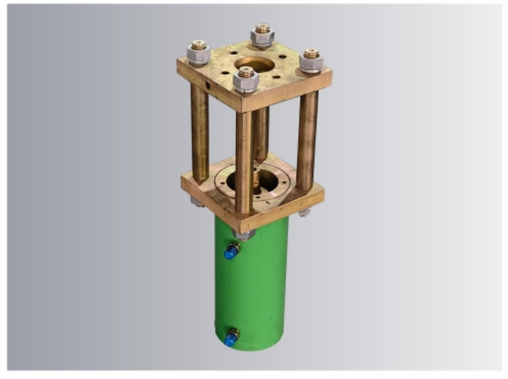
Specification	P-bearing plate			Spiral reinforcement	Flat duct	Restraining ring	Cmin
	A	B	T	d×e×J×ΦK×L	a×b		
BJYM13-2P	115	70	14	130×70×45×Φ6×180	50×19	Φ51×Φ57×30	190
BJYM13-3P	160	70	14	170×70×45×Φ6×180	60×19	Φ54×Φ60×30	250
BJYM13-4P	195	70	14	210×70×45×Φ6×180	70×19	Φ62×Φ68×30	320
BJYM13-5P	240	70	14	250×70×45×Φ6×225	90×19	Φ75×Φ83×30	400

DEAD-END ANCHORAGE TYPE P

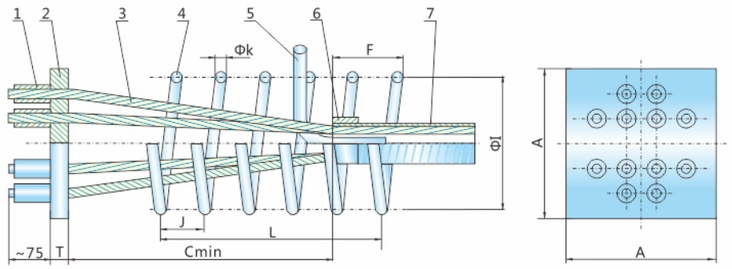
Type P anchorage is composed of the swaged end, anchor plate, spiral reinforcement and restraining ring. Strands in tendon being fixed with swaged ends are dispersed by anchor plate and are normally placed at girder end. Tension load directly transfers to concrete through bonding and anchor plate.

The swaged end is formed by using Swaging Machine GYJ to impose plastic deformation on swaged socket internally lined with swaged spring to firmly grip around strand.





Dead-end Anchorage JYM15-NP

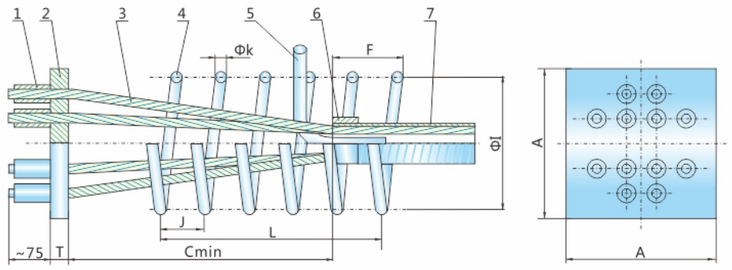


1. Swaged end
2. Anchor plate
3. Strand
4. Spiral reinforcement
5. Grout tube
6. Restraining ring
7. Duct

Main Data

Specification	Anchor plate		Spiral reinforcement		Restraining ring	F	Cmin
	A×A	T	ΦI×ΦK×J	N			
JYM15-1P	80	14	Φ80×Φ8×30	4		85	180
JYM15-2P	100×80	14	Φ120×Φ10×40	4	Φ57.5×Φ63.5×30	85	180
JYM15-3P	120	16	Φ120×Φ10×40	4	Φ57.5×Φ63.5×30	85	180
JYM15-4P	150	16	Φ140×Φ10×50	4	Φ62×Φ68×30	110	240
JYM15-5P	170	16	Φ150×Φ10×50	4	Φ62×Φ68×30	110	300
JYM15-6P	200	16	Φ170×Φ12×50	4	Φ77×Φ83×30	110	380
JYM15-7P	200	16	Φ170×Φ12×50	4	Φ77×Φ83×30	110	380
JYM15-8P	210	16	Φ190×Φ12×50	4	Φ87×Φ95×30	110	420
JYM15-9P	220	16	Φ200×Φ12×50	4	Φ87×Φ95×30	110	440
JYM15-10/11P	230	16	Φ205×Φ14×60	4	Φ98×Φ108×30	120	460
JYM15-12/13P	250	16	Φ230×Φ14×60	4	Φ98×Φ108×30	120	460
JYM15-14P	250	16	Φ240×Φ14×60	4	Φ98×Φ108×30	135	500
JYM15-15P	260	16	Φ260×Φ16×60	5	Φ98×Φ108×30	135	560
JYM15-16P	260	16	Φ260×Φ16×60	5	Φ98×Φ108×30	135	560
JYM15-17P	260	16	Φ280×Φ16×60	5	Φ98×Φ108×30	135	560
JYM15-18P	280	16	Φ280×Φ16×60	5	Φ111×Φ121×30	135	720
JYM15-19P	290	16	Φ280×Φ16×60	5	Φ111×Φ121×30	135	720
JYM15-20/21/22P	300	16	Φ290×Φ16×60	5	Φ130×Φ140×30	135	860
JYM15-23/24/25/26/27P	320	16	Φ330×Φ18×60	5	Φ130×Φ140×30	135	860

Dead-end Anchorage JYM13-NP



1. Swaged end
2. Anchor plate
3. Strand
4. Spiral reinforcement
5. Grout tube
6. Restraining ring
7. Duct

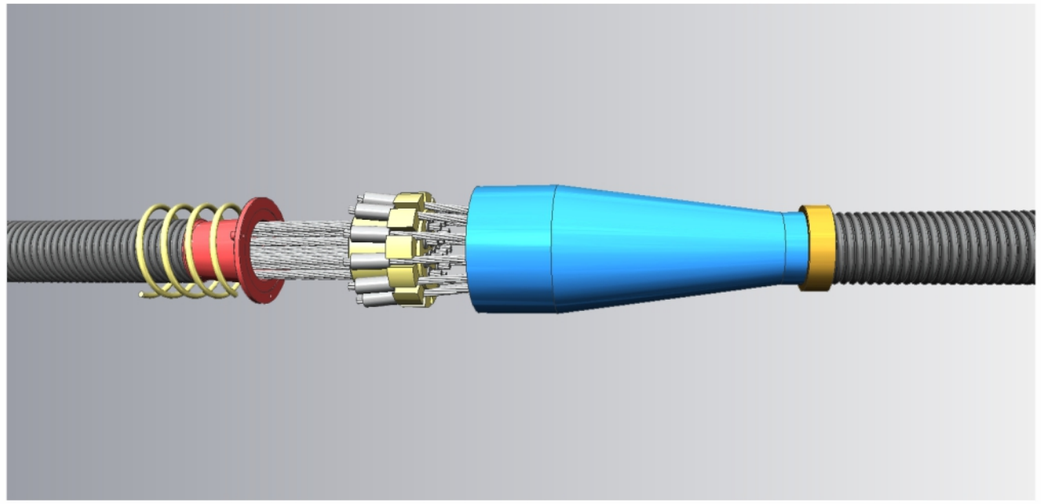
Main Data

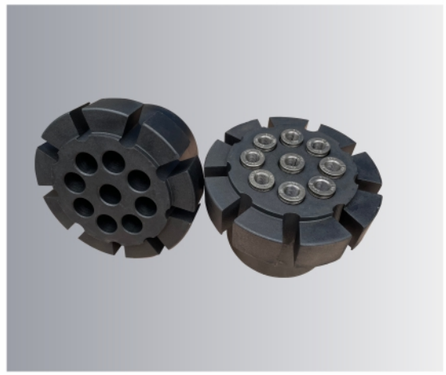
Specification	Anchor plate		Spiral reinforcement		Restraining ring	F	Cmin
	A×A	T	ΦI×ΦK×J	N			
JYM13-1P	70	14	Φ90×Φ6×30	4		85	120
JYM13-2P	90×70	14	Φ120×Φ6×40	4	Φ57.5×Φ63.5×30	85	120
JYM13-3P	110	14	Φ120×Φ6×40	4	Φ57.5×Φ63.5×30	85	120
JYM13-4P	110	14	Φ120×Φ8×40	4	Φ62×Φ68×30	110	180
JYM13-5P	130	14	Φ120×Φ8×40	4	Φ62×Φ68×30	110	180
JYM13-6/7P	160	14	Φ135×Φ10×40	4	Φ77×Φ83×30	110	300
JYM13-8P	160	14	Φ160×Φ10×50	4	Φ87×Φ95×30	120	380
JYM13-9P	170	14	Φ160×Φ10×50	4	Φ87×Φ95×30	120	440
JYM13-10/11P	180	14	Φ180×Φ12×50	4	Φ98×Φ108×30	120	440
JYM13-12/13P	200	14	Φ180×Φ12×50	4	Φ98×Φ108×30	120	440
JYM13-14P	210	14	Φ210×Φ14×60	4	Φ98×Φ108×30	135	500
JYM13-15P	220	14	Φ210×Φ14×60	4	Φ98×Φ108×30	135	500
JYM13-16P	220	14	Φ210×Φ14×60	5	Φ98×Φ108×30	135	500
JYM13-17P	230	14	Φ210×Φ14×60	5	Φ98×Φ108×30	135	500
JYM13-18/19P	250	14	Φ230×Φ14×60	5	Φ111×Φ121×30	135	860
JYM13-20/21/22P	260	14	Φ250×Φ16×60	5	Φ130×Φ140×30	135	860
JYM13-23/24/25P	260	14	Φ270×Φ18×60	5	Φ130×Φ140×30	135	1000
JYM13-26/27P	280	14	Φ270×Φ18×60	5	Φ130×Φ140×30	135	1000

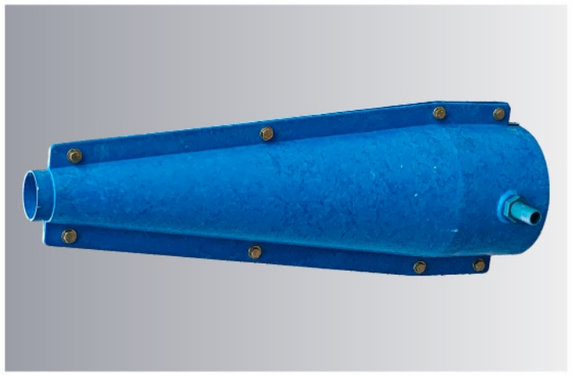
MULTI-STRAND COUPLER

Milti-strand coupler YJL15 is used for strand diameter Φ15.2mm-Φ15.7mm and YJL13 used for strand Φ12.7mm-Φ12.9mm.

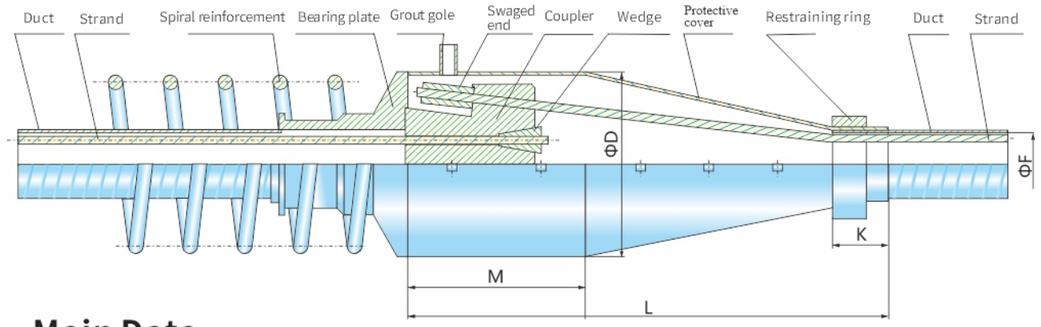
Milti-strand coupler YJL15/13 usually includes seven parts: coupler block, bearing plate, protective sleeve, restraining ring, spiral reinforcement, wedges and swaged ends.GYJ type swaging machine and hydraulic pump ZB4-500 serve operation for extruding the swaged end.







Multi-strand Coupler



Main Data

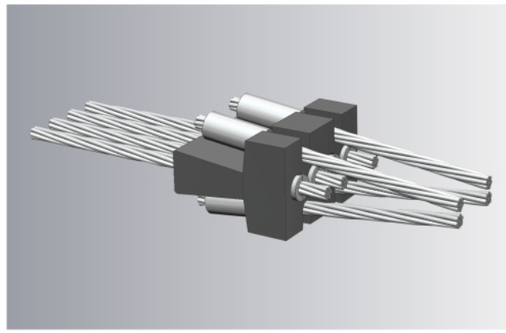
Specification	Protective cover (I.D.)	Protective cover (O.D.)ΦD	M	L	ΦF
YJL15-3	152	160	135	577	50
YJL15-4	164	172	135	629	55
YJL15-5	176	184	135	682	55
YJL15-6	190	198	135	682	70
YJL15-7	190	198	135	682	70
YJL15-8	198	206	135	673	80
YJL15-9	208	216	135	717	80
YJL15-10	220	228	135	726	90
YJL15-11	230	238	135	770	90
YJL15-12	230	238	135	770	90
YJL15-13	234	242	145	797	90
YJL15-14	240	248	147	782	90
YJL15-15	252	260	150	837	90
YJL15-16	262	270	155	886	90
YJL15-17	262	270	155	886	90
YJL15-18	268	276	157	915	100
YJL15-19	268	276	157	915	100
YJL15-20	288	296	162	1007	120
YJL15-21	288	296	162	1007	120
YJL15-22	288	296	162	1007	120
YJL15-23	318	326	167	1056	120
YJL15-24	318	326	167	1056	120
YJL15-25	318	326	167	1056	120
YJL15-26	318	326	167	1056	120
YJL15-27	318	326	167	1056	120

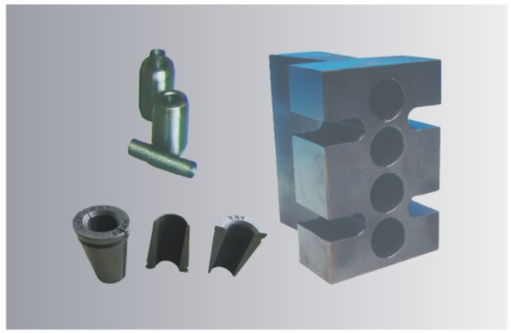
Remark:The size of Bearing plate and Spiral reinforcement is the same as Stressing-end Anchorage YJM15(13).

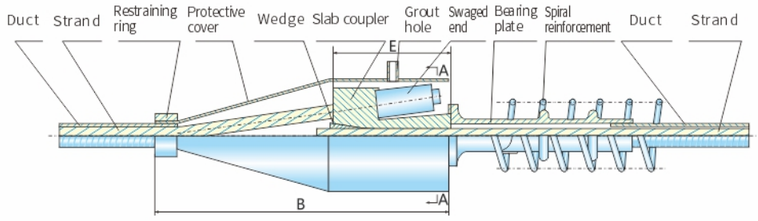
COUPLER OF SLAB ANCHORAGE

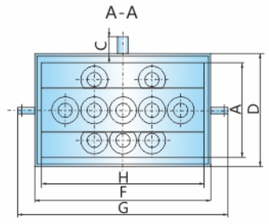
Coupler of slab anchorage includes slab coupling body,wedge,extrusion head,slab bearing plate,slab Restraining ring, slab Spiral reinforcement,slab Protective cover .

YJL slab stressing-end anchorage used for the strand strenght of 2000Mpa and diameter of Φ 15.2mm-Φ15.7mm.







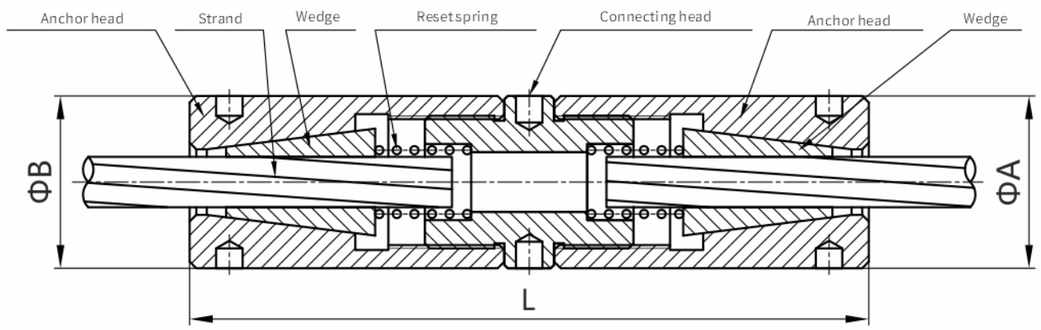


Main Data

Specification	A	B	C	D	E	F	G	H
BJL15-2	100	600	25	120	145	92	152	80
BJL15-3	100	600	25	120	145	127	187	113
BJL15-4	100	650	25	120	145	162	222	148
BJL15-5	100	650	25	120	145	197	257	180

MONO-STRAND COUPLER

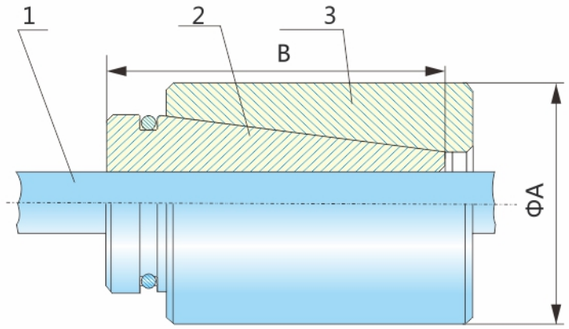
Mono-strand coupler is used to connect and elongate single strand:12.7mm,15.2mm,15.7mm,17.8mm.



Main Data

Name	Model	ΦA	ΦB	L
Single-use mono-strand coupler	YJL15-1	Φ48	Φ48	182
Single-use mono-strand coupler	YJL13-1	Φ48	Φ48	176
Reusable mono-strand coupler	YJL15G-1	Φ52	Φ52	205
Reusable mono-strand coupler	YJL13G-1	Φ48	Φ48	194

MONO-STRAND ANCHORAGE

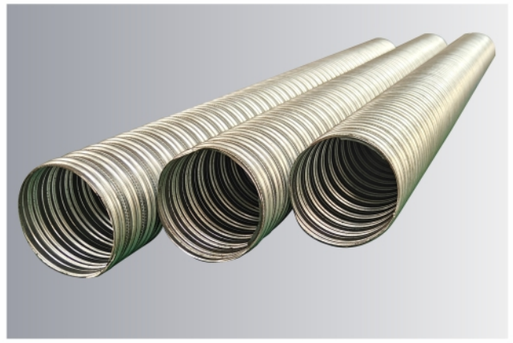


1.Strand 2.Tooling wedge 3.Barrel

Main Data

Specification	Strand diameter	Barrel	Tooling wedge
	mm	A	B
M4-1G	Φ4	Φ36×40	35
M5-1G	Φ5	Φ36×40	35
M7-1G	Φ6.5,Φ7	Φ36×40	35
M8-1G	Φ8.6	Φ36×40	35
M9-1G	Φ9.5	Φ36×40	35
M10-1G	Φ10.1	Φ36×40	35
M11-1G	Φ11	Φ36×40	35
M13-1G	Φ12.7	Φ45×45	47
M15-1G	Φ15.2,Φ15.7	Φ50×50	50
M18-1G	Φ17.8	Φ55×58	58
M22-1G	Φ21.6	Φ65×67	67

GALVANIZED STEEL CORRUGATED DUCT



Main Data of Round Duct

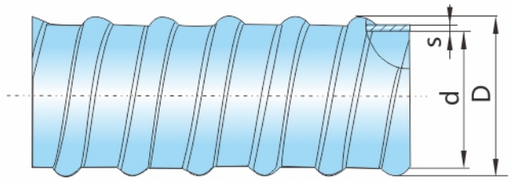
Specification	Inner diameter	Specification	Inner diameter
JBG-40	Φ40	JBG-100	Φ100
JBG-45	Φ45	JBG-105	Φ105
JBG-50	Φ50	JBG-110	Φ110
JBG-55	Φ55	JBG-120	Φ120
JBG-65	Φ65	JBG-135	Φ135
JBG-70	Φ70	JBG-140	Φ140
JBG-80	Φ80	JBG-150	Φ150
JBG-90	Φ90	JBG-155	Φ155
JBG-95	Φ95	JBG-160	Φ160

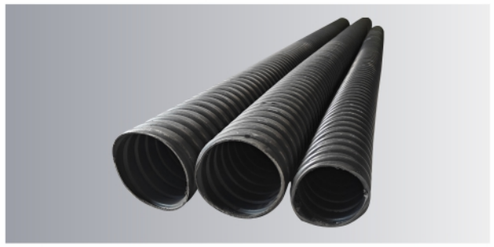
Main Data of Slab Duct

Specification	Inner diameter	Anchorage adapted
JBGB-50	50×19	BJM15-2,BJM13-2
JBGB-60	60×19	BJM15-3,BJM13-3
JBGB-70	70×19	BJM15-4,BJM13-4
JBGB-90	90×19	BJM15-5,BJM13-5

PLASTIC DUCT

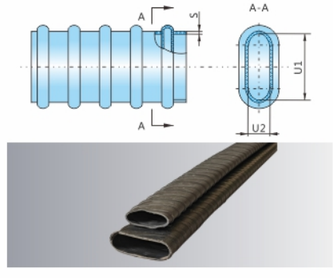
Plastic ducts are used to Post-tensioning systerm ,made of HDPE material, its features:Lower friction,excellent sealing property,better anti-corrosion performance,and more flexible during assembling.





Main Data

Specification	Inner diameter(d)	Outside diameter(D)	Wall thickness(S)
SBG-40	Φ40	Φ53	2.5
SBG-45	Φ45	Φ58	2.5
SBG-50	Φ50	Φ63	2.5
SBG-55	Φ55	Φ68	2.5
SBG-60	Φ60	Φ73	2.5
SBG-65	Φ65	Φ78	2.5
SBG-70	Φ70	Φ83	2.5
SBG-75	Φ75	Φ88	2.5
SBG-80	Φ80	Φ95	2.5
SBG-85	Φ85	Φ100	2.5
SBG-90	Φ90	Φ106	2.5
SBG-95	Φ95	Φ112	2.5
SBG-100	Φ100	Φ116	3
SBG-110	Φ110	Φ126	3
SBG-115	Φ115	Φ131	3
SBG-120	Φ120	Φ136	3
SBG-130	Φ130	Φ146	3

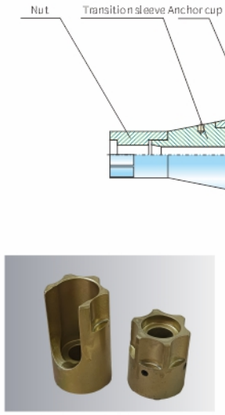


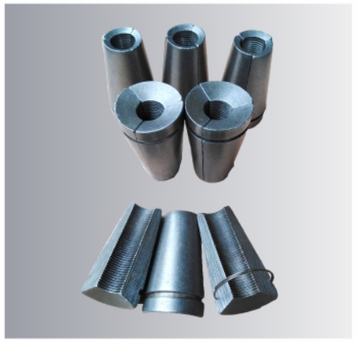
Specification	U1	U2	S	Anchorage adapted
SBGB-41	41	22	2.5	BJM15-2,BJM13-2
SBGB-60	60	22	2.5	BJM15-3,BJM13-3
SBGB-72	72	23	2.5	BJM15-4,BJM13-4
SBGB-90	90	23	2.5	BJM15-5,BJM13-5

MONO-STRAND JACK

Mono-strand jack have internal re-usable anchor which can automatically clamp and loosen the wedge,they are mainly used for YJM15 and YJM13 type various single tensioning with bonded and unbounded.

Mono-strand jack could be matched with different size, length of the top cover,retreat anchor device,to used in the experiment by root tension pre-tightening,tension retreat anchor and stay cable tone with single cable.





Main Data

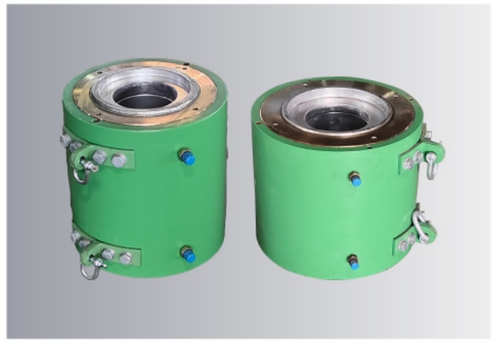
Type	Nom. pressure (MPa)	Tensile piston area(m^2)	Nom. tensile force(KN)	Stroke (mm)	Return pressure (Mpa)	Cavity aperture (mm)	Overall size (mm)	Mass (KG)	Adapted strands (mm)
YDCQ100/ 50-150	50	2.356×10^{-3}	117	150	<25	Φ18	Φ80×393	10	Φ13、Φ15
YDCQ200/ 46-200	46	4.42×10^{-3}	200	200	<25	Φ19	Φ102×520	16	Φ13、Φ15
YDCQ250/ 50-200	50	5.105×10^{-3}	255	200	<25	Φ19	Φ108×507	23	Φ13、Φ15
YDCQ300/ 48-200	48	6.264×10^{-3}	300	200	<25	Φ22	Φ125×537	30	Φ15、Φ18
YDCQ450/ 56-200	56	8.011×10^{-3}	448.6	200	<25	Φ28	Φ146×489	37	Φ22

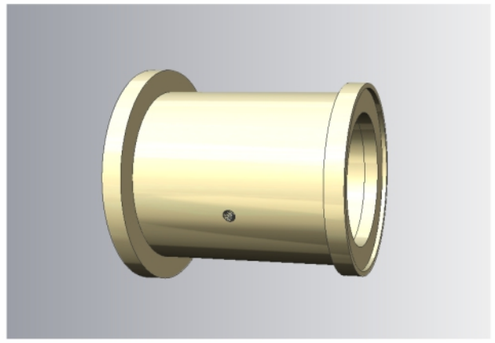
HYDRAULIC PUMP

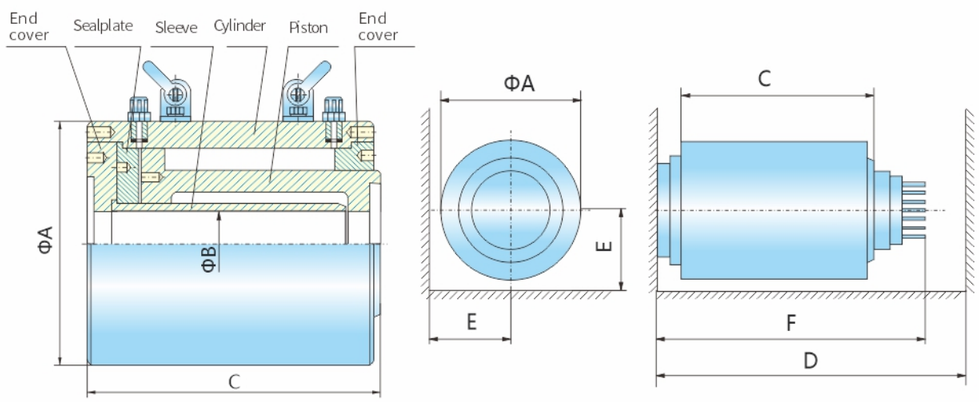
Main Data

Specification	Nom. pressure (MPa)	Nom. flow (L/min)	Mass (KG)	Dimension (mm)	Power of motor (KW)	Hydraulic oil tank (L)
ZB4-500	50	2×2	110	700×370×850	3	42
ZB6-600	60	3×2	120	700×370×850	4	42
ZB4-600H	60	4	120	700×370×850	3	42
ZB10/320-4/800	32	10	270	1090×590×1120	7.5	100
	80	4				

HYDRAULIC JACK



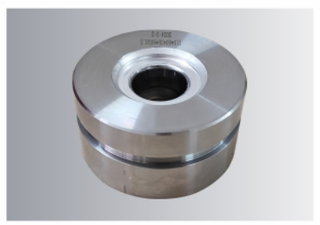


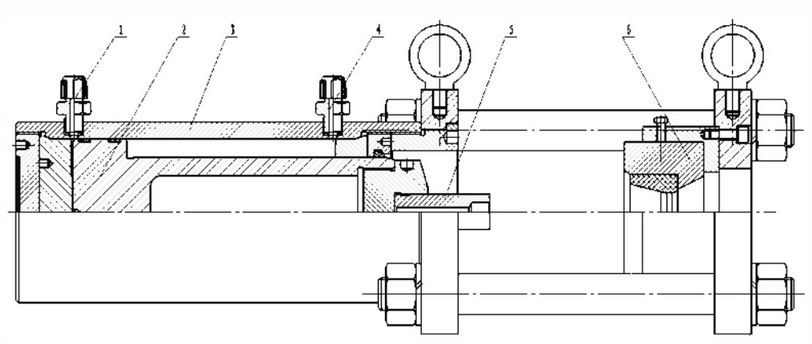


Main Data

Type	Nom. force (KN)	Nom. pressure (Mpa)	Tensile piston area (m^2)	Return piston area (m^2)	Cavity aperture (mm)	Stroke (mm)	Mass (KG)	Overal size (mm)	Strand reserved length (mm)	Install limit plate size (mm)	Install Tool anchor head size (mm)
YDC600/52-200	600	52	11.545×10^{-3}	2.120×10^{-3}	Φ58	200	42	Φ174×313	600	100	100
YDC1000/53-200	1011	53	19.085×10^{-3}	7.775×10^{-3}	Φ78	200	62	Φ218×334	600	151	136
YDC1500/53-200	1511	53	28.510×10^{-3}	12.566×10^{-3}	Φ90	200	98	Φ265×336	600	170	156
YDC2000/53-200	2000	53	37.797×10^{-3}	19.654×10^{-3}	Φ110	200	134	Φ305×338	630	191	171
YDC2500/54-200	2490	54	46.122×10^{-3}	25.780×10^{-3}	Φ131	200	160	Φ340×359	630	210	186
YDC3000/52-200	3000	52	57.727×10^{-3}	31.337×10^{-3}	Φ145	200	188	Φ376×342	630	230	210
YDC3500/52-200	3500	52	67.859×10^{-3}	34.626×10^{-3}	Φ165	200	230	Φ412×357	700	252	252
YDC4000/50-200	3958	50	79.168×10^{-3}	45.945×10^{-3}	Φ165	200	270	Φ432×362	700	252	252
YDC5000/50-200	5000	50	100.53×10^{-3}	47.75×10^{-3}	Φ196	200	406	Φ496×411	800	302	282
YDC6500/51-200	6500	51	127.86×10^{-3}	67.54×10^{-3}	Φ228	200	576	Φ575×439	850	352	292
YDC8000/51-200	8073	51	158.3×10^{-3}	90.4×10^{-3}	Φ260	200	950	Φ650×530	900	373	373
YDC9000/54-200	8957	54	165.876×10^{-3}	87.258×10^{-3}	Φ280	200	1080	Φ670×530	930	392	372

SWAGING MACHINE



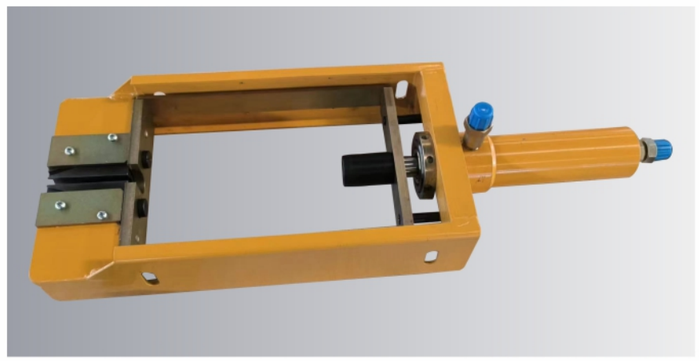


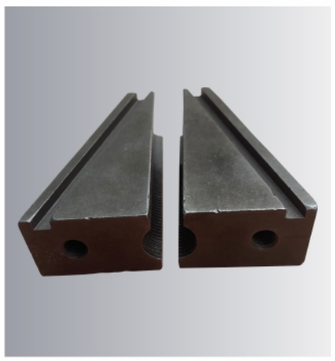
1. Nozzle
2. Cylinder
3. Piston
4. Nozzle
5. Swaging head
6. Swaging mould

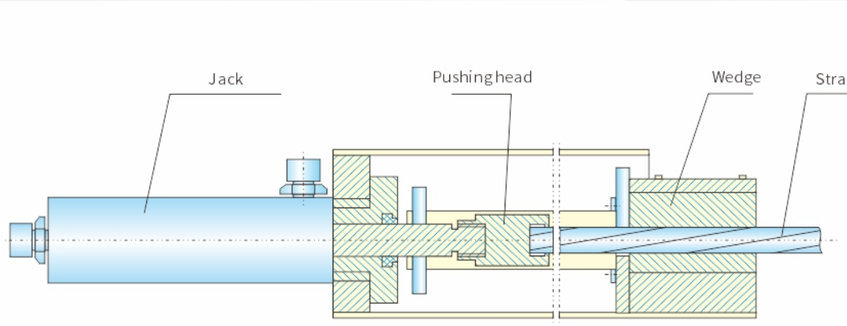
Main Data

Item	Unit	GYJ56-160	GYJ85-180	JYC400-160-30.5A
Nom. Swaging Force	KN	566	842	400
Nom. Pressure	MPa	50	51	70
Stroke	mm	160	180	160
Swaging Piston Area	m^2	11.309×10^{-3}	16.513×10^{-3}	5.655×10^{-3}
Return Piston Area	m^2	4.948×10^{-3}	70.10×10^{-3}	3.986×10^{-3}
Overall Size	mm	200×200×640	250×250×690	563×Φ114×165
Mass	KG	64	115	23
Strands	mm	Φ13、Φ15、Φ18	Φ22	Φ13、Φ15

BULB MACHINE YHƎ



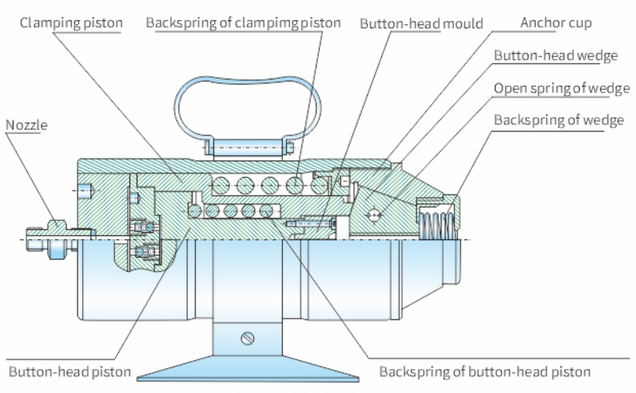




Main Data

Specification	YH3
Nom. Pressure Force(KN)	48
Nom. Pressure(MPa)	50
Stressing Piston Area(m^2)	0.96×10^{-3}
Return Piston Area(m^2)	0.58×10^{-3}
Storke(mm)	100
Swaging Dia.(mm)	Φ80×130
Overall Size(mm)	640×206×86
Mass(KG)	17

BUTTON-HEAD DEVICE



Main Data

Model	LD10	LD20K	LD30
Nom.pressure(MPa)	40	43	48
Target of head(mm)	Φ4、Φ5、Φ6	Φ7	Φ9
Max.button-head force(KN)	88.2	165	300
Order opening pressure(MPa)	3.1	3.2	3.2
Heading stroke of piston(mm)	6	7.5	12
Clamping stroke of piston(mm)	12	20	20
Overall dimension(mm)	Φ98×279×199	Φ120×319×249	Φ160×332×258
Mass(KG)	10	15	30

MORTAR PUMP UBE-C

Delivery value of mortar (m^3/h)	Vertical conveying distance (m)	Horizontal delivery distance (m)	Working pressure (MPa)	Power of motor (KW)	Rotate speed of motor (r/min)	Weight (KG)	Overall dimension (mm)
3	40	150	1.5	4	1440	250	1035×480×900

MIXER JW180

Model	Volume (L)	Rotate speed (r/min)	Power of motor (KW)	Mixing weight (m^3/h)	Loading height (mm)	Mass (KG)	Overall dimension (mm)
JW180	180	60	1.5	6	980	170	Φ950×1550

HIGH-SPEED MIXER

Model	Volume (L)	Rotate speed (r/min)	Power of motor (KW)	Mixing weight (m^3/h)	Loading height (mm)	Mass (KG)	Overall dimension (mm)
GSJW300	300	>1000/60	5.5/1.5	6	1300	263	1780×800×1690

STRAND PUSHING MACHINE

Specification	Power of motor (KW)	Hand wheel (PCS)	Range of application (Meters)	Overall dimension (mm)
CSJ15-4-4F	4	4	80	700×460×450
CSJ15-5.5-5F	5.5	5	120	780×460×360
CSJ15-7.5-6F	7.5	6	150	800×460×360
CSJ15-11-6F	11	6	180	800×5000×360

ENGINEERING APPLICATIONS

Part of the engineering applications in Northeast Region

NO.	Project name
1	Second Ring Throughway of Harbin City
2	Hegang-Dalian Expressway - Jixi-Mudanjiang Section, Yichun-Jiayin Highway in Heilongjiang Province - Sections from Xingshan to provincial boundary and to Ning'an
3	Xiangzheng Street Overpass of Second Ring Throughway of Harbin City
4	Harbin-Lanxi Highway
5	Harbin-Zhaoxing Highway in Heilongjiang Province
6	Ring Road of Shuangyashan City
7	Suihua-Manzhouli Highway in Heilongjiang Province - Daqing Bypass Section
8	Qitaihe-Mishan Highway in Heilongjiang Province
9	Third Ring Road of Harbin - Jiangbei Section
10	Yichun-Cuiluan Highway in Heilongjiang Province
11	Mingshui-Shenyang Highway in Heilongjiang Province
12	Bypass Expressway of Harbin City - Northeast Section
13	Ershidao Street in Daowai District, and Songhua River Spanning Bridge on West Line of Third Ring Road, Harbin City
14	Suihua-Bei'an Expressway and Bei'an-Heihe Expressway in Heilongjiang Province
15	Yichun-Suihua Expressway in Heilongjiang Province
16	Jiansanjiang-Hulin Expressway
17	Jiansanjiang-Jixi Expressway - Hulin-Jixi Section
18	Harbin Taiping International Airport Overpass
19	Tangwanghe-Yichun Expressway in Heilongjiang Province
20	Harbin West Second Ring Road Retrofitting Project - Phase I - Lot I
21	PPP Project of Jiamusi Transit Section of Hegang-Dalian Expressway
22	Wusong Bridge Project and Songyuan Bridge Project in Jilin Province
23	Ji' an-Tonghua Expressway
24	Yanji-Dapuchaihe Expressway
25	Ji' an-Shuangliao Expressway
26	Shuangliao-Taonan Highway
27	Beijng-Harbin Expressway - Changchun-Lalin River Project
28	Wanhanchuan Bridge in Tonghua Medicine New and High-tech Zone
29	Tieling-Fuxin Expressway in Liaoning Province
30	Shenyang-Zhangwu Expressway in Liaoning Province
31	Liaozhong-Xinmin Expressway in Liaoning Province
32	Fushun-Tonghua Expressway in Liaoning Province
33	Dandong-Haicheng Expressway in Liaoning Province

Part of the Engineering Applications in South China Region

NO.	Project name
1	Taiyuan-Macao Highway - Section from Bijiang Village of Shunde District, Foshan City to Shaxi County, Zhongshan City
2	Guangzhou-Heyuan Expressway - Guangzhou Section
3	Dongsha-Xinlian Expressway in Guangzhou City
4	Guangzhou-Gaoming Expressway in Guangdong Province
5	Guangzhou Metro Line 4
6	Shengli Bridge in Heyuan City
7	Huadu-Dongguan Expressway
8	No.2 Expressway of the new Guangzhou Baiyun International Airport
9	Guangzhou-Longchuang Expressway in Guangdong Province
10	Shenzhen Banyin Passage Project
11	Qingyuan-Yunfu Expressway
12	Yunfu-Zhanjiang Expressway in Guandong Province - Xinyang Section
13	Conghuan-Dongguan Expressway in Guandong Province - Huizhou Section
14	Nanshan-Pingshan Throughway in Shenzhen - Phase 2
15	Longchuan-Huaiji Expressway in Guangdong Province
16	Guangzhou-Gaoming Expressway in Guangdong Province - West Extension Project
17	Zijin-Huizhou Expressway
18	Lingchuan-Santang Expressway in Guangxi Province
19	Yangshuo-Pingle Expressway in Guangxi Province
20	Cenxi-Cangwu Expressway in Guangxi Province
21	Guilin-Liuzhou Expressway in Guangxi Province
22	Yangshuo-Luzhai Expressway in Guangxi Province
23	Outer Ring Expressway of Nanning City
24	Ziyuan-Xing'an Expressway
25	Leye-Baise Expressway in Guangxi Province
26	Shanhuagen Bridge Project in Tengxian County, Guangxi Province
27	Yulin-Zhanjiang Expressway in Guangxi Province
28	Datang-Pubei Expressway in Guangxi Province
29	Rail Transit Project in Liuzhou City
30	Nandan-Tian’e Expressway in Guangxi Province
31	Qiongzhong-Ledong Expressway in Hainan Province
32	Jiangdong Avenue Phase II Project in Haikou City
33	G15 Shenyang-Haikou Expressway - Haikou Section Project - TJ4 Contract Section
34	G360 National Highway in Hainan Province - Lot WLTJ08 Project

Part of the engineering applications in Southwest Region

NO.	Project name
1	Baoshan-Longling Expressway in Yunnan Province
2	Mengzi-Xinjie Expressway in Yunnan Province
3	Baoshan-Tengchong Expressway in Yunnan Province
4	Bypass Expressway of Kunming City, Yunnan Province - Northwest Section
5	Longling-Ruili Expressway in Yunnan Province
6	Liuku-Bingzhouluo Expressway in Yunnan Province
7	Tengchong-Longchuan Expressway in Yunnan Province
8	Simao-Lancang Expressway in Yunnan Province
9	Chuxiong-Yaoan Expressway in Yunnan Province
10	Gele Village-Qiaojia County Expressway in Kunming City
11	Yibin-Zhaotong Expressway
12	Kunming-Chuxiong Expressway
13	Ring Expressway of Chongqing Municipality
14	Tongliang-Hechuan Section of Third Ring Expressway of Chongqing Municipality
15	Chongqing-Yichang Expressway
16	First Ring Expressway and Second Ring Expressway of Chongqing Municipality
17	Chongqing-Fuling Expressway
18	Chengdu-Deyang-Nanchong Expressway
19	Guangyuan-Bazhong Expressway
20	Mianyang-Suining Expressway
21	Luzhou-Yibin Expressway
22	Neijing-Yibin Expressway
23	Mianyang Airport, Sichuan Province
24	Yibin-Bijie Expressway
25	Ring Expressway of Guiyang City - South Ring Line and Southwest Section
26	Guiyang-Duyun Expressway in Guizhou Province
27	Xiamen-Chengdu Expressway - Gedu Section in Guizhou
28	Bijie-Duge Expressway in Guizhou Province
29	Zunyi-Bijie Expressway in Guizhou Province
30	Huaxi-Anshun Expressway in Guiyang City, Guizhou Province
31	Xifeng-Qianxi Expressway in Guizhou Province
32	Liupanshui-Weining Expressway
33	Liupanshui-Weining (boundary between Guizhou and Yunnan) Expressway
34	Renhuai-Zunyi Expressway in Guizhou Province

Part of the engineering applications in East China

NO.	Project name
1	Shanghai Middle Ring Road-Hongmei Road Project
2	Nanjing Guabu Bridge
3	Nanjing Fangshui Bridge
4	Mofan Road Overpass in Nanjing
5	Nanjing-Luoyang Expressway
6	Funing-Jianhu Expressway
7	Hailing Grand Bridge in Taizhou, Jiangsu
8	Renovation of Terminal 1 of Nanjing Lukou International Airport
9	Zhejiang Jinhua-Lishui-Wenzhou Expressway - Wenzhou Section
10	Zhejiang Ningbo-Taizhou-Wenzhou Expressway
11	Zhejiang Hangzhou-Changsha Expressway
12	Zhejiang Shanghai-Jiaxing-Huzhou Expressway
13	Qidu Bridge in Wenzhou City
14	Xiamen-Chengdu Expressway - Xiamen Section and Zhangzhou Section
15	Fujian Zhangzhou-Yong 'an Expressway
16	Fujian Quanzhou-Sanming Expressway - Nan'an-Anxi Line
17	Fuzhou Third Ring Expressway
18	Fuzhou-Xiamen Expressway
19	Fujian Xiamen-Shaxian Expressway
20	Fuzhou Mawei Bridge and Connecting Line Project
21	Ring Expressway in Wuyi New Area, Fujian Province - A2 Contract Section
22	Putian-Yanling Expressway - Sanming Section - Lot YA4
23	Jiangxi Wuning-Ji'an Expressway
24	Jiangxi Yingtan-Ruijin Expressway
25	Fuzhou-Ji'an Expressway
26	Nanchang-Tonggu Expressway
27	Expansion Project of Nankang-Longnan Expressway
28	Shandong Rizhao-Lankao Expressway
29	Jinan-Guangzhou Expressway
30	Qingzhou-Linshu Expressway
31	Weifang-Rizhao Expressway
32	Zaozhuang-Heze Expressway

Part of the engineering applications in North China

NO.	Project name
1	Third Ring Road and Fourth Ring Road in Beijing
2	Beijing New Poly Plaza
3	Beijing Hanghua Science and Technology Trade Center
4	Tianjin-Baoding Expressway
5	Tianjin Outer Ring Road
6	Tianjin-Jixian Expressway
7	Shanxi Fanzhi-Daying Expressway
8	Xinzhou-Baode Expressway
9	Shenchi-Hequ Expressway
10	Datong-Yuncheng Expressway
11	Pingyao-Yushe Expressway
12	Zhangjiakou-Shijiazhuang Expressway
13	Beijing-Zhangjiakou Expressway
14	Beijing-Chengde Expressway
15	Beijing-Kaifeng Expressway
16	Hohhot Third Ring Road Project - Lot 4

Part of the engineering applications in Central China

NO.	Project name
1	Shending River Bridge, Development Avenue, Shiyan City, Hubei Province
2	Hubei E’ dong Yangtze River Bridge
3	Hubei Wuhan-Jingmen Expressway
4	Hubei Tongcheng-Jieshang Expressway
5	Hubei Jiayu Yangtze River Bridge
6	Hunan Yanling-Rucheng Expressway
7	Chenzhou-Ningyuan Expressway
8	Liuyang-Liling Expressway
9	Changsha-Liuyang Expressway
10	Daweishan-Liuyang Expressway
11	Hengyang-Shaoyang Expressway
12	Hengyang-Nanyue Expressway
13	Shishou-Huarong Expressway in Huarong County, Yueyang City
14	New Terminal of Changsha Huanghua International Airport
15	Tongcheng-Jieshang Expressway - Xianning Section
16	Maglev Cultural Project in Fenghuang County - Lot 1

Part of the engineering applications in Northwest China

NO.	Project name
1	Shaanxi Yanan-Yanchuan Expressway
2	Shaanxi Yulin-Shangluo Expressway
3	Yulin-Jiaxian Expressway
4	Yulin-Suide Expressway
5	Huangsha Han River Bridge in Mianxian County
6	Juhe River Grand Bridge in Yaozhou District, Tongchuan City
7	Gansu Tianshui-Dingxi Expressway
8	Baoji-Tianshui Expressway
9	Guangyuan-Gansu Expressway
10	Xi' an-Hanzhong Expressway
11	Yinchuan-Baise Expressway (G69) - Tianyong Section

Part of the engineering applications in foreign countries

NO.	Project name
1	Class Five Road and Bridge Project over Nam Ou River, Laos
2	6,200 Tons Cement Production Line in Ohangaron, Uzbekistan
3	STG2 Project in Algeria
4	Line III Project of Vietnam Thanh Thang
5	Grinding Station Project of Vietnam Song Lam
6	New Cement Bunker Project in Tanzania
7	Phnom Penh-Sihanohkville Expressway Project in Cambodia
8	(Gold) GCK Project in Congo
9	Cement Bunker Project in Zambia
10	BAYAH Phase II Project in Indonesia
11	SAMAN Project in Iraq
12	Project of Connecting Sidewalks on Both Banks of Bogongtan in Taiwan Province, China
13	DUKE PHASE 3 Project in Malaysia
14	Project in Papua New Guinea
15	China -Thailand railway
16	Highway in Peru
17	Delta Cement Company 6000TPD Line II Project in Iraq
18	Central Expressway project-section 2(CEP-2) Mirigama to Kurunegala in Sri Lanka

QMV Anchorage and Stay Cable are widely used in New energy power generation projects