INI® NINGBO DAGANG INI HYDRAULIC CO.,LTD.

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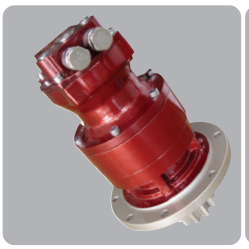
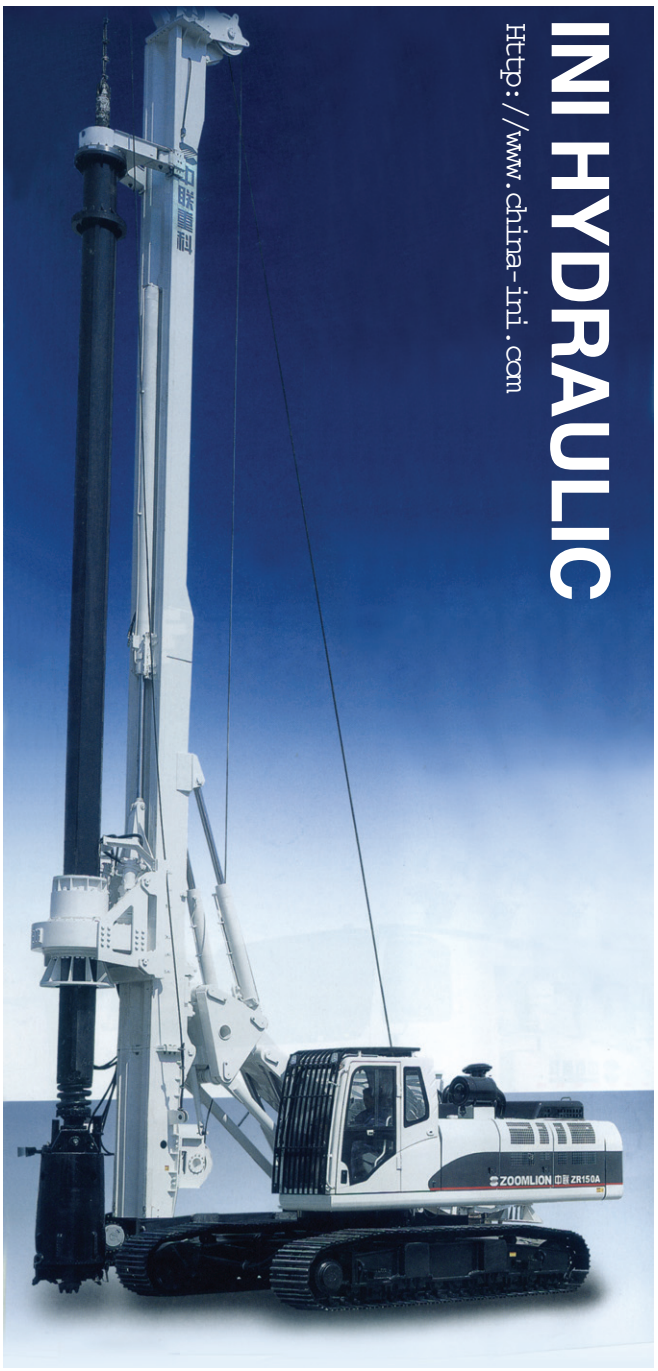
2010 Catalogue

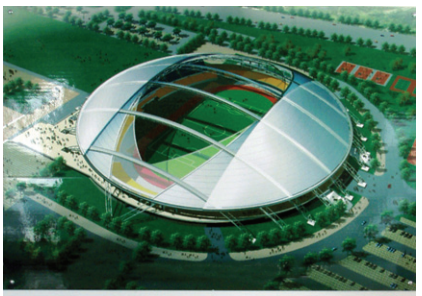
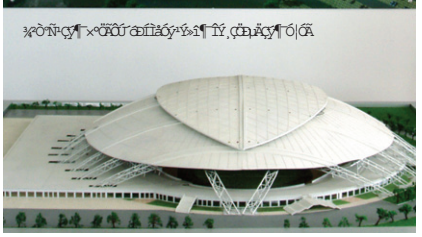
Product
Shows & Applications





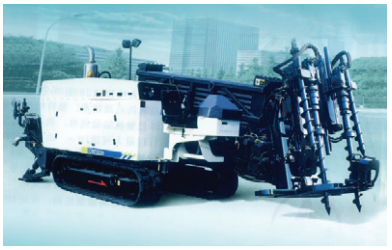








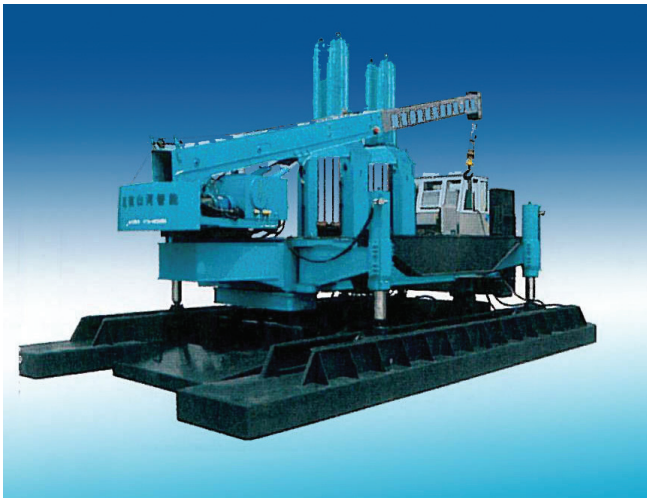
Product
Shows & Applications










Brief Introduction

NINGBO DAGANG INI HYDRAULIC CO., LTD is situated in a state-level economic and technological development zone of BEILUN district, NINGBO. The factory covers almost 40,000 m^2, with 38,000 m^2 building area. The registered capital is 6,500,000 USD, and the total investment is 15,000,000 USD. Currently, the company is staffed with 400 employees, 20% among whom are professional technicians. The company has a strong R&D team, led by the general manager-a professorate senior engineer, who takes special allowance from State Council. The team also includes one doctor, two masters, senior engineers, engineers and engineer trainees, and two retired German experts from ZF GROUP as honor employees. They will come to the factory to help and give advices once a year. Up to now, the company owns eight invention patents and thirty practical innovation and figure patents. Several other patents are under reviewing. The company is specialized in manufacturing of electro-hydraulic proportional valves, hydraulic motors, hydrostatic drives, hydraulic winches, planetary gearboxes, high accuracy rotary flow dividers and the whole set of hydraulic system. These patent products are widely used in engineering machinery, petroleum, mining industry, geological exploration, ships, metallurgy, light industry, agriculture, landscape, environment and military industry. Now we are stepping into the international market, and our products are being exported to Southeast Asia, Middle East, Germany, USA, Netherlands, Turkey, India, Russia, Korea and other countries and regions around the world.

The company has more than 150 advanced manufacturing equipment, half of which were imported. 60% of all the machines are CNC, including three-dimension coordinate measuring machine, universal gear measuring machine, digital ultrasonic inspection machine, and universal tool microscope. A static hydrostatic drives lab and 12 factory test stands were established for product testing. The company passed ISO 9001 quality system certification, CCS certification and CE certification. The annual sales volume reaches 250 million RMB, with a production capacity of over 300 million RMB. The company was appraised as a state-level high-tech enterprise and is a patent pioneer enterprise.

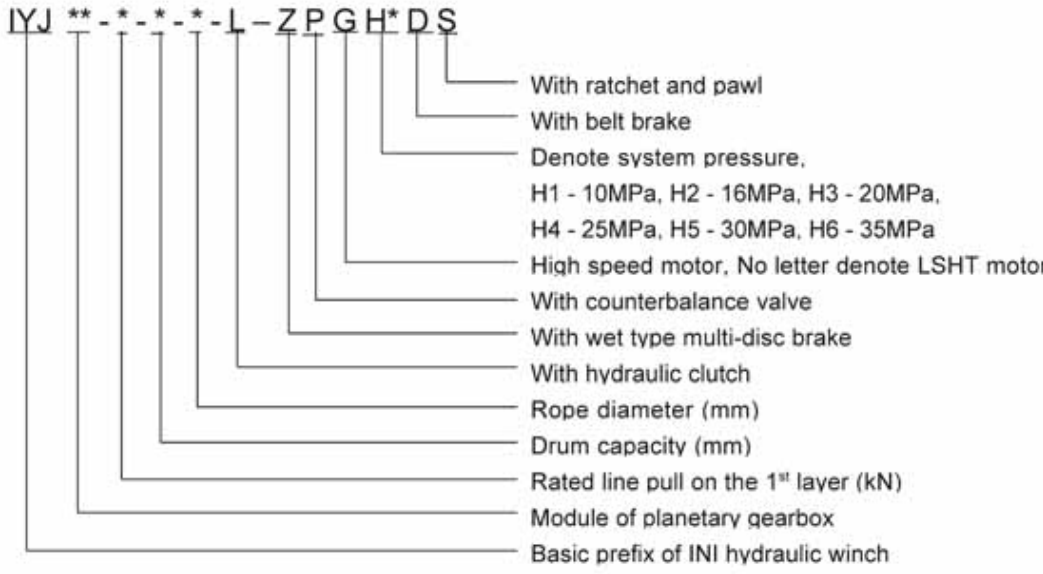
IYJ—-L Free Fall Hydraulic Winch Series

1. Brief Introduction

The IYJ—-L free fall hydraulic winch series consist of planetary gearbox, hydraulic motor, wet type brake, various valve blocks of single counterbalance valve and shuttle valve, drum, frame and hydraulic control clutch. So the series not only simplified hydraulic system design, but also improved reliability and durability. The series could get two speed control if fitted with variable displacement two speed hydraulic motor. When fitted with hydraulic axial piston motor, the working pressure and drive power of the series could be greatly improved.

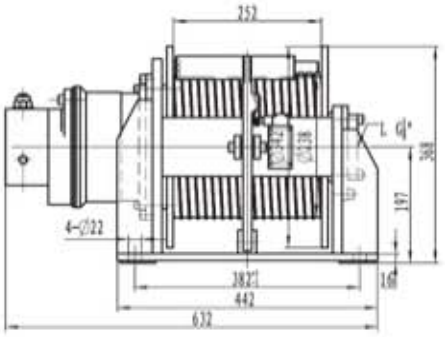
The IYJ——L hydraulic winch series feature smooth performance in hoisting and lowering. The final stage of the series is fitted with hydraulic clutch (invention patent of our company) to get free fall function. The winch series have long life, compact design and good economy. Therefore the series have been widely applied in pipe laying machine, crawler cranes, vehicle cranes, grab bucket cranes, crushers. The series not only widely have been used in domestic market, but also have been exported to Middle East, India, Africa, Russia and Netherlands and so on.

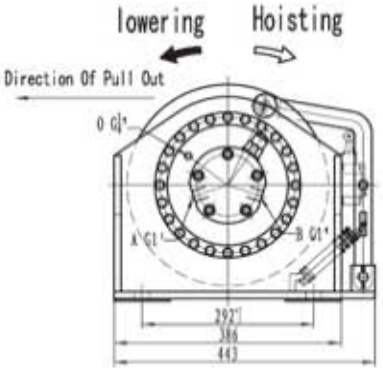
2. Model Options



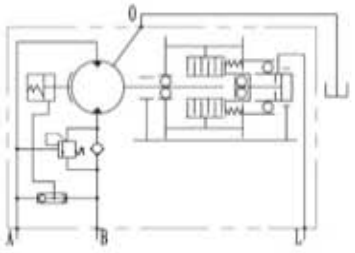
3. Options Example

IYJ34-75-88-22-L-ZPGH4 type represents that the planetary gearbox has 2 stages with module 3 and 4 respectively. The line pull on the 1st layer is 75kN with drum capacity of 88m and a rope diameter of 22mm. The winch is fitted with a piston motor, parking brake, single counterbalance valve, and hydraulic clutch. The winch system pressure is 25MPa.





Hydraulic schematic diagram



Model	The 1st layer		Total displacement	Working pressure diff.	Supply oil flow	Diameter	Layer	Capacity of rope	Hydraulic Motor	Gearbox Model	The Brake Opening Presure	The Clutch Opening Presure	Min. Weight for free fall	Weight
	Pull (kN)	Rope Speed (m/min)	(ml/rev)	(MPa)	(L/min)	(mm)		(m)			(MPa)	(MPa)	(Kg)	(Kg)
IYJ2.5-5-75-8-L-ZPH2	5	0-30	430	13	0-19	8	1 2 3	24 48 75	INM05-90D51	C2.5A i=5	3	3	25	120
IYJ2.5-5-75-8-L-ZPH3	5	0-30	295	18	0-13	8	1 2 3	24 48 75	INM05-60D51	C2.5A i=5	3	3	25	120
IYJ2.5-10-60-10-L-ZPH2	10	0-30	755	14	0-32	10	1 2 3	19 39 60	INM05-150D51	C2.5A i=5	3	3	25	120
IYJ2.5-10-60-10-L-ZPH3	10	0-30	575	18	0-25	10	1 2 3	19 39 60	INM05-110D51	C2.5A i=5	3	3	25	120
IYJ2.5-15-50-12-L-ZPH2	15	0-30	1050.5	14	0-44	12	1 2 3	16 33 50	INM05-200D51	C2.5D i=5.5	3	4.5	25	120
IYJ2.5-15-50-12-L-ZPH3	15	0-30	830	18	0-36	12	1 2 3	16 33 50	INM05-170D51	C2.5D i=5.5	3	4.5	25	120
IYJ2.5-20-50-12-L-ZPH2	20	0-30	1337	14.6	0-56	12	1 2 3	16 33 50	INM05-200D51	C2.5 i=7	3	6	25	120
IYJ2.5-20-50-12-L-ZPH3	20	0-30	1050.5	18	0-44	12	1 2 3	16 33 50	INM05-200D51	C2.5D i=5.5	3	6	25	120

Note: 1. Total displacement represents the capacity of oil supply pre revolution; Working pressure difference represents the pressure drop between Port A and Port B.
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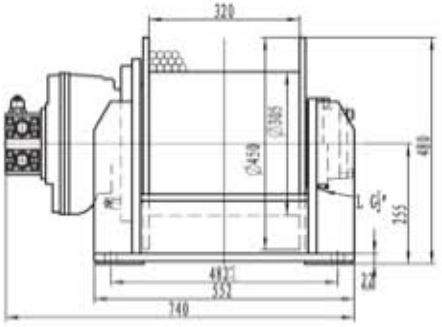
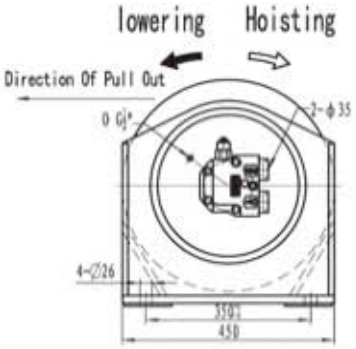
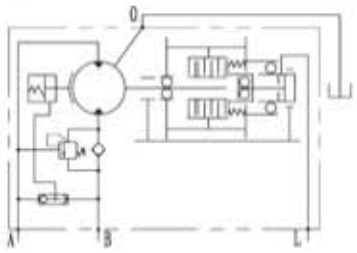
4. The reducing valve should be setted in brake control circuit if system pressure is above 16MPa. When ruturn oil back pressure is higher than 1MPa, setting 2/3 sequence valve to promise oil in brake cylinder directly conduct to tank in braking function.
5. The control pressure of hydraulic clutch is not higher than 8MPa.
6. Fitted with pressure roller and alarm device for ensuring 3 dead wraps of cable on the drum. (the item as option)





Hydraulic schematic diagram



Model	The Ist layer		Total displacement	Working pressure diff.	Supply oil flow	Diameter	Layer	Capacity of rope	Hydraulic Motor	Gearbox Model	The Brake Opening Presure	The Clutch Opening Presure	Min. Weight for free fall	Weight
	Pull (kN)	Rope Speed (m/min)	(ml/rev)	(MPa)	(L/min)	(mm)		(m)			(MPa)	(MPa)	(Kg)	(Kg)
IYJ3-20-69-14-L-ZPH2	20	0-40	1701	14	0-75	14	1 2 3	22 44 69	INM1-250 D120101	C3 i=7	3	5	35	300
IYJ3-20-69-14-L-ZPH3	20	0-40	1407	17	0-62	14	1 2 3	22 44 69	INM1-200 D120101	C3 i=7	3	5	35	300
IYJ3-25-69-14-L-ZPH2	25	0-40	2030	14.5	0-90	14	1 2 3	22 44 69	INM1-300 D120101	C3 i=7	3	5	35	300
IYJ3-25-69-14-L-ZPH3	25	0-40	1701	17.6	0-76	14	1 2 3	22 44 69	INM1-250 D120101	C3 i=7	3	5	35	300
IYJ3-30-66-15-L-ZPH2	30	0-40	2465	14.4	0-109	15	1 2 3	21 42 66	INM2-500 D120101	C3A i=5	3	5	35	300
IYJ3-30-66-15-L-ZPH3	30	0-40	1908.5	18.8	0-85	15	1 2 3	21 42 66	INM2-350 D120101	C3D i=5.5	3	5	35	300
IYJ3-35-66-15-L-ZPH2	35	0-40	2825	14.7	0-125	15	1 2 3	21 42 66	INM2-600 D240101	C3A i=5	3	7	35	300
IYJ3-35-66-15-L-ZPH3	35	0-40	2337.5	18	0-104	15	1 2 3	21 42 66	INM2-420 D240101	C3D i=5.5	3	7	35	300
IYJ3-40-64-16-L-ZPH2	40	0-40	3426.5	14	0-151	16	1 2 3	20 40 64	INM2-630 D240101	C3D i=5.5	3	7	35	300
IYJ3-40-64-16-L-ZPH3	40	0-40	2711.5	17.5	0-120	16	1 2 3	20 40 64	INM2-500 D240101	C3D i=5.5	3	7	35	300

Note: 1. Total displacement represents the capacity of oil supply pre revolution; Working pressure difference represents the pressure drop between Port A and Port B.
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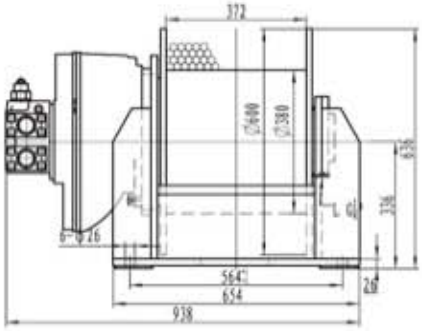
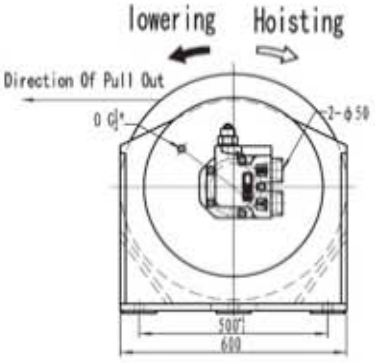
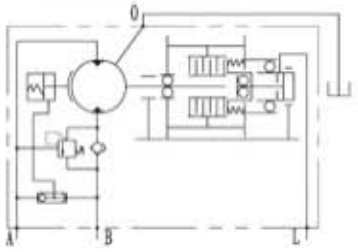
5. The control pressure of hydraulic clutch is not higher than 8MPa.
6. Fitted with pressure roller and alarm device for ensuring 3 dead wraps of cable on the drum. (the item as option)





Hydraulic schematic diagram



Model	The 1st layer		Total displacement	Working pressure diff.	Supply oil flow	Diameter	Layer	Capacity of rope	Hydraulic Motor	Gearbox Model	The Brake Opening Presure	The Clutch Opening Presure	Min. Weight for free fall	Weight
	Pull (kN)	Rope Speed (m/min)	(ml/rev)	(MPa)	(L/min)	(mm)		(m)			(MPa)	(MPa)	(Kg)	(Kg)
IYJ4-45-108-18-L-ZPH2	45	0-50	4935	13.6	0-212	18	2 3 4	50 79 108	INM3-1000 D240101	C4A i=5	3	5	50	650
IYJ4-45-108-18-L-ZPH3	45	0-50	3795	17.3	0-169	18	2 3 4	50 79 108	INM3-700 D240101	C4D i=5.5	3	5	50	650
IYJ4-50-97-20-L-ZPH2	50	0-50	5428.5	13.5	0-240	20	2 3 4	45 71 97	INM3-1000 D480101	C4D i=5.5	3	5	50	650
IYJ4-50-97-20-L-ZPH3	50	0-50	3960	18.4	0-175	20	2 3 4	45 71 97	INM3-800 D240101	C4A i=5	3	5	50	650
IYJ4-55-97-20-L-ZPH2	55	0-50	5621	14.3	0-249	20	2 3 4	45 71 97	INM4-1000 D480101	C4D i=5.5	3	5	50	685
IYJ4-55-97-20-L-ZPH3	55	0-50	4520	17.8	0-200	20	2 3 4	45 71 97	INM4-900 D480101	C4A i=5	3	5	50	685
IYJ4-60-93-21.5-L-ZPH2	60	0-50	6138	14.4	0-270	21.5	2 3 4	43 68 93	INM4-1100 D480101	C4D i=5.5	3	7	50	685
IYJ4-60-93-21.5-L-ZPH3	60	0-50	4972	17.7	0-220	21.5	2 3 4	43 68 93	INM4-900 D480101	C4D i=5.5	3	7	50	685
IYJ4-65-93-21.5-L-ZPH2	65	0-50	6858.5	14	0-302	21.5	2 3 4	43 68 93	INM4-1250 D480101	C4D i=5.5	3	7	50	685
IYJ4-65-93-21.5-L-ZPH3	65	0-50	5621	17.2	0-246	21.5	2 3 4	43 68 93	INM4-1100 D480101	C4 i=7	3	7	50	685

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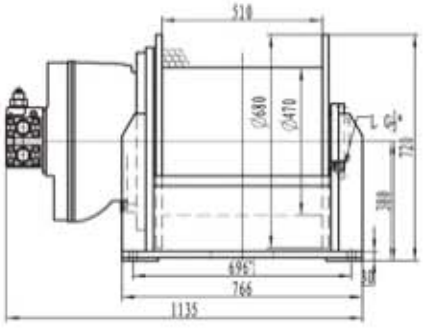
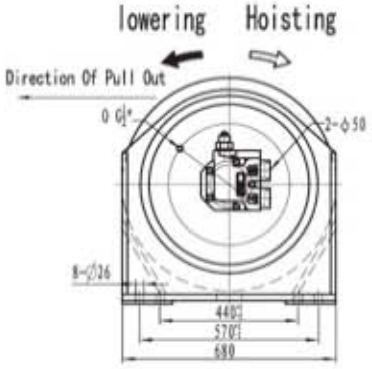
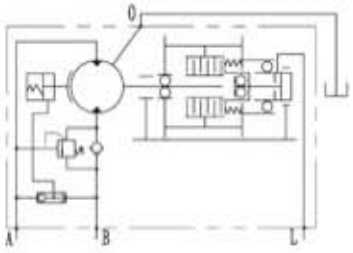
6. Fitted with pressure roller and alarm device for ensuring 3 dead wraps of cable on the drum. (the item as option)





Hydraulic schematic diagram



Model	The 1st layer		Total displacement	Working pressure diff.	Supply oil flow	Diameter	Layer	Capacity of rope	Hydraulic Motor	Gearbox Model	The Brake Opening Presure	The Clutch Opening Presure	Min. Weight for free fall	Weight
	Pull (kN)	Rope Speed (m/min)	(ml/rev)	(MPa)	(L/min)	(mm)		(m)			(MPa)	(MPa)	(Kg)	(Kg)
IYJ5-65-112-21.5-L-ZPH2	65	0-40	9212	13	0-239	21.5	1 2 3	35 71 112	INM4-1300 D480101	C5 i=7	3	6	50	1200
IYJ5-65-112-21.5-L-ZPH3	65	0-40	6328	18.2	0-182	21.5	1 2 3	35 71 112	INM4-900 D480101	C5 i=7	3	6	50	1200
IYJ5-70-112-21.5-L-ZPH2	70	0-40	8729	14.4	0-251	21.5	1 2 3	35 71 112	INM4-1250 D480101	C5 i=7	3	6	50	1200
IYJ5-70-112-21.5-L-ZPH3	70	0-40	7154	17.6	0-206	21.5	1 2 3	35 71 112	INM4-1000 D480101	C5 i=7	3	6	50	1200
IYJ5-80-103-24-L-ZPH2	80	0-40	10035	14.7	0-286	24	1 2 3	32 65 103	INM5-2000 D480101	C5A i=5	3	6	50	1200
IYJ5-80-103-24-L-ZPH3	80	0-40	8170	17.7	0-234	24	1 2 3	32 65 103	INM5-1600 D480101	C5A i=5	3	6	50	1200
IYJ5-90-95-26-L-ZPH2	90	0-40	11698.5	14	0-334	26	1 2 3	30 60 95	INM6-2100 D480101	C5D i=5.5	3	8	50	1200
IYJ5-90-95-26-L-ZPH3	90	0-40	9295	18	0-259	26	1 2 3	30 60 95	INM6-1700 D480101	C5D i=5.5	3	8	50	1200
IYJ5-100-57-28-L-ZPH2	100	0-40	13821.5	13.2	0-393	28	1 2	28 57	INM6-2500 D480101	C5D i=5.5	3	8	50	1200
IYJ5-100-57-28-L-ZPH3	100	0-40	10052	18.1	0-286	28	1 2	28 57	INM6-2500 D480101	C5D i=5.5	3	8	50	1200

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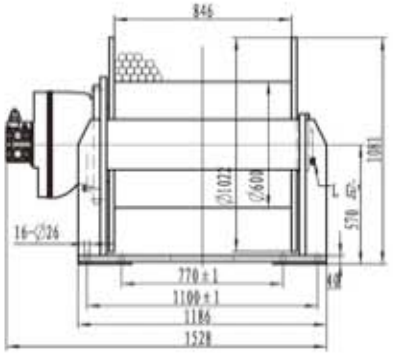
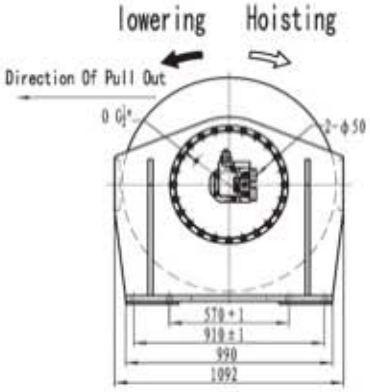
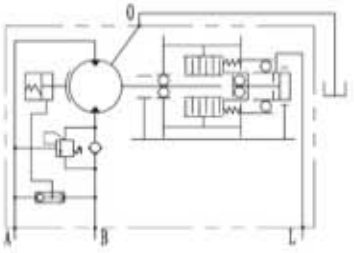


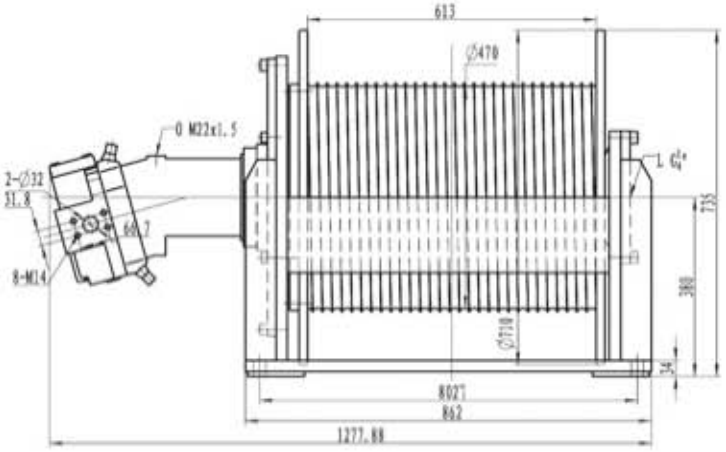


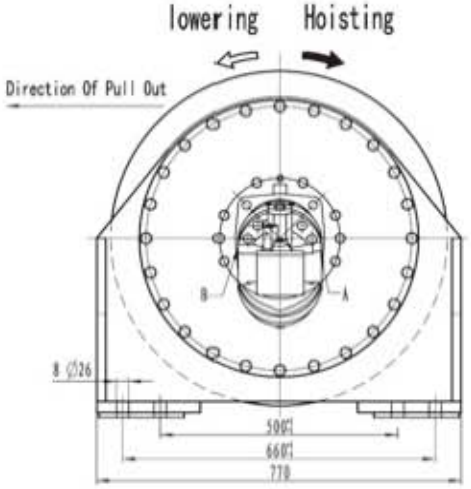
Hydraulic schematic diagram



Model	The 1st layer		Total displacement	Working pressure diff.	Supply oil flow	Diameter	Layer	Capacity of rope	Hydraulic Motor	Gearbox Model	The Brake Opening Presure	The Clutch Opening Presure	Min. Weight for free fall	Weight
	Pull (kN)	Rope Speed (m/min)	(ml/rev)	(MPa)	(L/min)	(mm)		(m)			(MPa)	(MPa)	(Kg)	(Kg)
IYJ6-100-335-28-L-ZPH2	100	0-30	17591	13.3	0-297	28	3 4 5	188 258 335	INM6-2500 D480101	C6 i=7	3	2	75	2200
IYJ6-100-335-28-L-ZPH3	100	0-30	12712	18	0-215	28	3 4 5	188 258 335	INM5-1800 D480101	C6 i=7	3	2	75	2200
IYJ6-110-335-28-L-ZPH2	110	0-30	17591	14.4	0-297	28	3 4 5	188 258 335	INM6-2500 D480101	C6 i=7	3	2.2	75	2200
IYJ6-110-335-28-L-ZPH3	110	0-30	13821.5	18.3	0-233	28	3 4 5	188 258 335	INM6-2500 D480101	C6D i=5.5	3	2.2	75	2200
IYJ6-120-315-30-L-ZPH3	120	0-30	16725.5	17	0-281	30	3 4 5	176 242 315	INM6-3000 D480101	C6D i=5.5	3	2.4	75	2200
IYJ6-130-298-32.5-L-ZPH3	130	0-30	16725.5	18	0-280	32.5	3 4 5	165 228 298	INM6-3000 D480101	C6D i=5.5	3	2.6	75	2200
IYJ6-150-276-34-L-ZPH3	150	0-30	19904.5	18	0-235	34	3 4 5	153 211 276	HGM31-3500 D480101	C6D i=5.5	3	3.0	75	2400
IYJ6-180-198-38-L-ZPH3	180	0-30	23430	18	0-393	38	2 3 4	90 143 198	HGM31-4000 D480101	C6D i=5.5	3	3.6	75	2400

Note: 1. Total displacement represents the capacity of oil supply pre revolution; Working pressure difference represents the pressure drop between Port A and Port B.
2. Flow of oil supply indicates theoretical flow of pump when the volumetric efficiency considered as 90 percent.
3. Capacity of rope is theoretical capacity of rope. The practical available capacity of rope should subtract the retained 3m wire in case of rope head is out of hand.
4. The reducing valve should be setted in brake control circuit if system pressure is above 16MPa. When ruturn oil back pressure is higher than 1MPa, setting 2/3 sequence valve to promise oil in brake cylinder directly conduct to tank in braking function.
5. The control pressure of hydraulic clutch is not higher than 8MPa.
6. Fitted with pressure roller and alarm device for ensuring 3 dead wraps of cable on the drum. (the item as option)

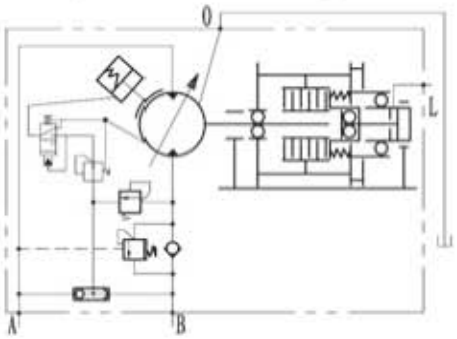




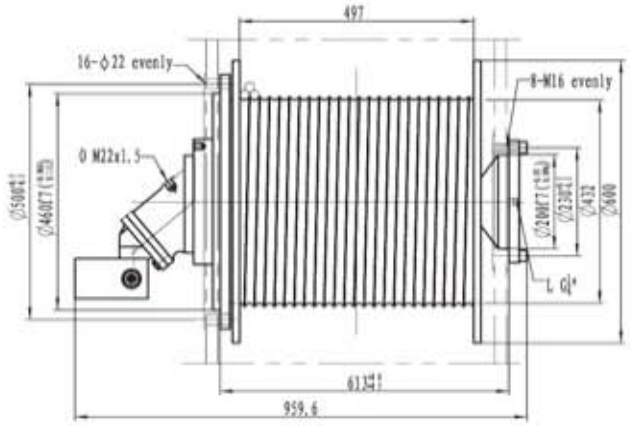
Main Specification

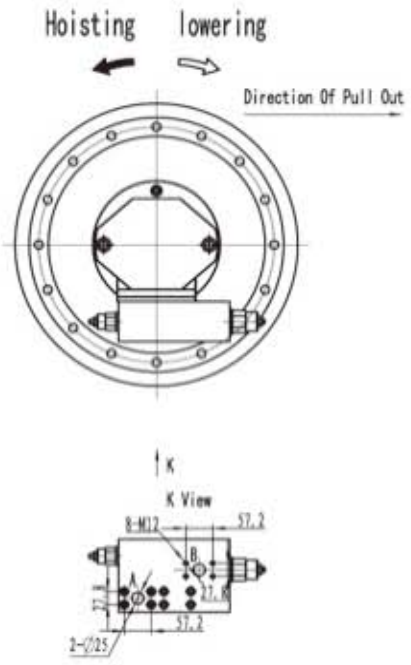
Model	IYJ35-98-200-20-L-ZPGH5	
Line Pull on the 1st Layer(KN)	98	49
Rope Speed at the 1st Layer) (m/min)	0-56	0-112
Total Displacement) (mL/r)	6600	3300
System Pressure(MPa)	30	
Working Pressure Difference(MPa)	28.6	
Rope Diameter(mm)	20	
Layers	4	
Drum Capability(m)	200	
Supply Oil flow(L/min)	260(ηv=0.93)	
Hydraulic motor	LY-A6V 160 HA2 2 F Z 2 080	
Gearbox Model and Ratio	C35(i=41.25)	
Brake Release Pressure(MPa)	2.5	
Clutch Release Pressure(MPa)	3.5	
Min. Free Fall Weight(Kg)	75	

Hydraulic schematic diagram



Note: 1. Total displacement represents the capacity of oil supply pre revolution; Working pressure difference represents the pressure drop between Port A and Port B.
2. Flow of oil supply indicates theoretical flow of pump when the volumetric efficiency considered as 90 percent.
3. Capacity of rope is theoretical capacity of rope. The practical available capacity of rope should subtract the retained 3m wire in case of rope head is out of hand.
4. The reducing valve should be setted in brake control circuit if system pressure is above 16MPa. When ruturn oil back pressure is higher than 1MPa, setting 2/3 sequence valve to promise oil in brake cylinder directly conduct to tank in braking function.
5. The control pressure of hydraulic clutch is not higher than 8MPa.
6. Fitted with pressure roller and alarm device for ensuring 3 dead wraps of cable on the drum. (the item as option)

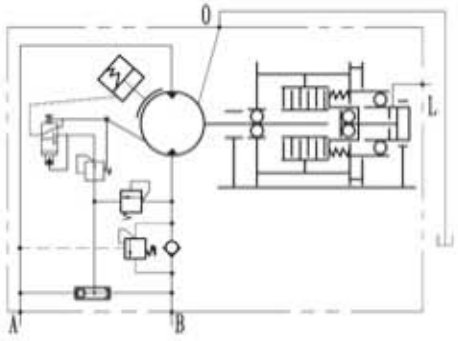




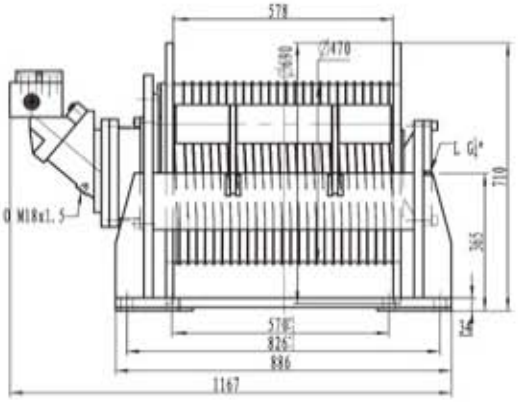
Main Specification

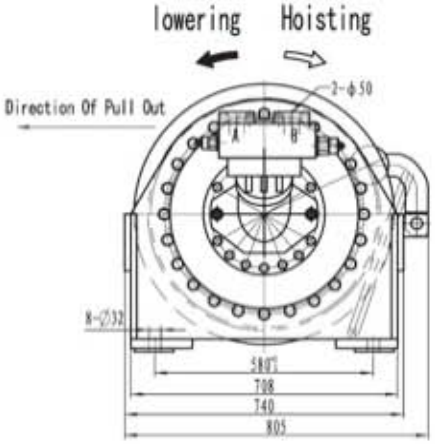
Model	IYJ44-60-67-20-L-ZPGH5
Line Pull on the 1st Layer(KN)	60
Rope Speed at the 1st Layer) (m/min)	0-64
Total Displacement) (mL/r)	4341.6
System Pressure(MPa)	28
Working Pressure Difference(MPa)	25.8
Rope Diameter(mm)	20
Layers	2
Drum Capability(m)	67
Supply Oil flow(L/min)	208(η v=0.93)
Hydraulic motor	A2FE80/6.1WVZL10
Gearbox Model and Ratio	C44(i=54)
Brake Release Pressure(MPa)	2.5
Clutch Release Pressure(MPa)	3.5
Min. Free Fall Weight(Kg)	50

Hydraulic schematic diagram



Note: 1. Total displacement represents the capacity of oil supply pre revolution; Working pressure difference represents the pressure drop between Port A and Port B.
2. Flow of oil supply indicates theoretical flow of pump when the volumetric efficiency considered as 90 percent.
3. Capacity of rope is theoretical capacity of rope. The practical available capacity of rope should subtract the retained 3m wire in case of rope head is out of hand.
4. The reducing valve should be setted in brake control circuit if system pressure is above 16MPa. When ruturn oil back pressure is higher than 1MPa, setting 2/3 sequence valve to promise oil in brake cylinder directly conduct to tank in braking function.
5. The control pressure of hydraulic clutch is not higher than 8MPa.
6. Fitted with pressure roller and alarm device for ensuring 3 dead wraps of cable on the drum. (the item as option)

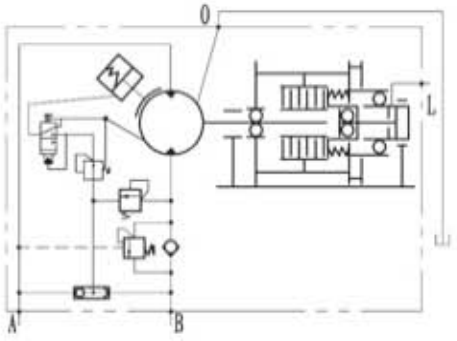




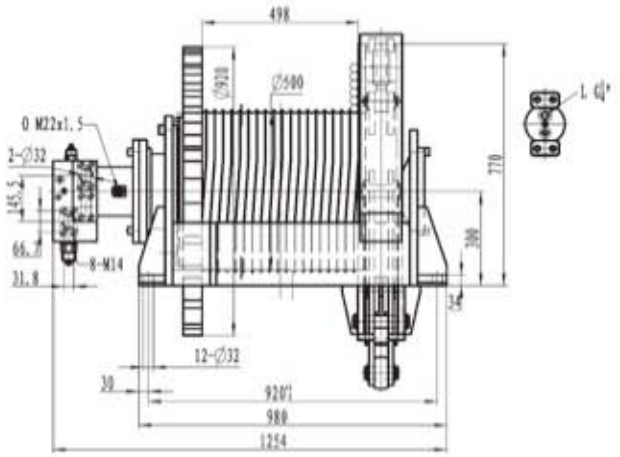
Main Specification

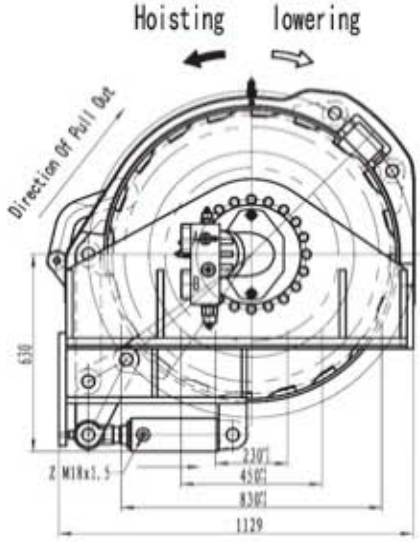
Model	IYJ45-110-120-22-L-ZPGH5
Line Pull on the 1st Layer(KN)	110
Rope Speed at the 1st Layer(m/min)	0-60
Total Displacement) (mL/r)	7699.2
System Pressure(MPa)	30
Working Pressure Difference(MPa)	28
Rope Diameter(mm)	20
Layers	3
Drum Capability(m)	120
Supply Oil flow(L/min)	320(η v=0.93)
Hydraulic motor	A2FE160/6.1WVZL10
Gearbox Model and Ratio	C45(i=48)
Brake Release Pressure(MPa)	2.5
Clutch Release Pressure(MPa)	4.5
Min. Free Fall Weight(Kg)	75

Hydraulic schematic diagram



Note: 1. Total displacement represents the capacity of oil supply pre revolution; Working pressure difference represents the pressure drop between Port A and Port B.
2. Flow of oil supply indicates theoretical flow of pump when the volumetric efficiency considered as 90 percent.
3. Capacity of rope is theoretical capacity of rope. The practical available capacity of rope should subtract the retained 3m wire in case of rope head is out of hand.
4. The reducing valve should be setted in brake control circuit if system pressure is above 16MPa. When ruturn oil back pressure is higher than 1MPa, setting 2/3 sequence valve to promise oil in brake cylinder directly conduct to tank in braking function.
5. The control pressure of hydraulic clutch is not higher than 8MPa.
6. Fitted with pressure roller and alarm device for ensuring 3 dead wraps of cable on the drum. (the item as option)

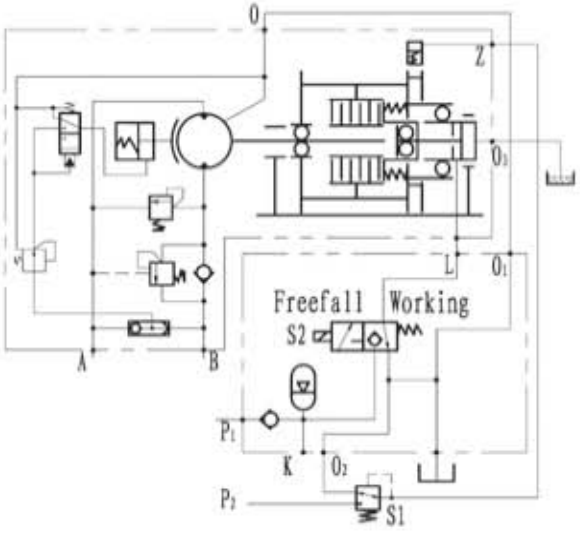




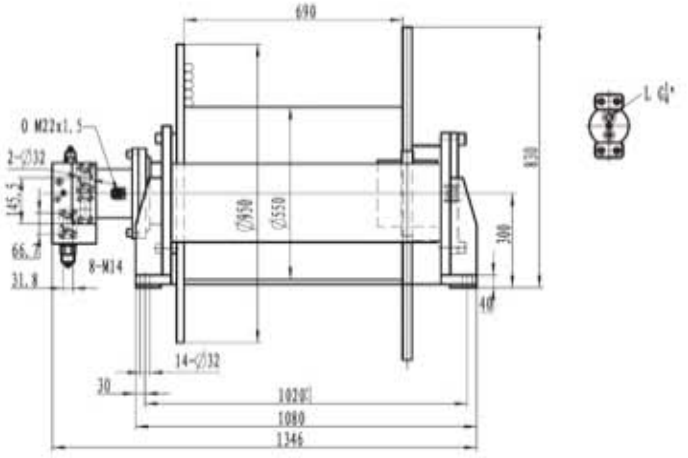
Main Specification

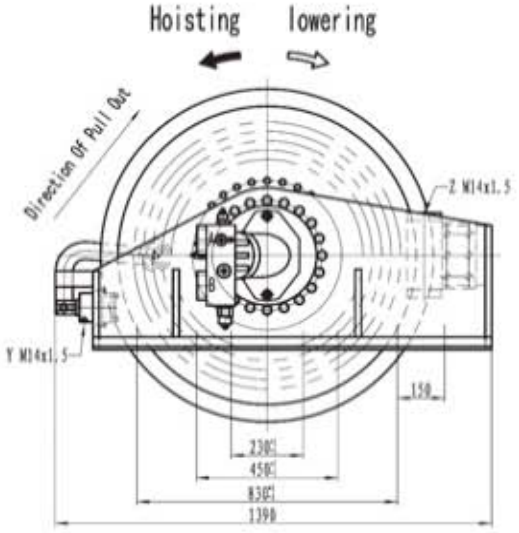
Model	IYJ45-135-215-26-L-ZPGH5D
Line Pull on the 1st Layer(KN)	135
Rope Speed at the 5th Layer(m/min)	0-75
Total Displacement)(mL/r)	9450
System Pressure(MPa)	30
Working Pressure Difference(MPa)	28
Rope Diameter(mm)	26
Layers	6
Drum Capability(m)	215
Supply Oil flow(L/min)	326(ηv=0.93)
Hydraulic motor	A2FE180/6.1WVZL10+F480111P
Gearbox Model and Ratio	C45F(i=52.5)
Brake Release Pressure(MPa)	3.0
Clutch Release Pressure(MPa)	≥4.5且<8
Min. Free Fall Weight(Kg)	100

Hydraulic schematic diagram



Note: 1. Total displacement represents the capacity of oil supply pre revolution; Working pressure difference represents the pressure drop between Port A and Port B.
2. Flow of oil supply indicates theoretical flow of pump when the volumetric efficiency considered as 90 percent.
3. Capacity of rope is theoretical capacity of rope. The practical available capacity of rope should subtract the retained 3m wire in case of rope head is out of hand.
4. The reducing valve should be setted in brake control circuit if system pressure is above 16MPa. When ruturn oil back pressure is higher than 1MPa, setting 2/3 sequence valve to promise oil in brake cylinder directly conduct to tank in braking function.
5. The control pressure of hydraulic clutch is not higher than 8MPa.
6. Fitted with pressure roller and alarm device for ensuring 3 dead wraps of cable on the drum. (the item as option)

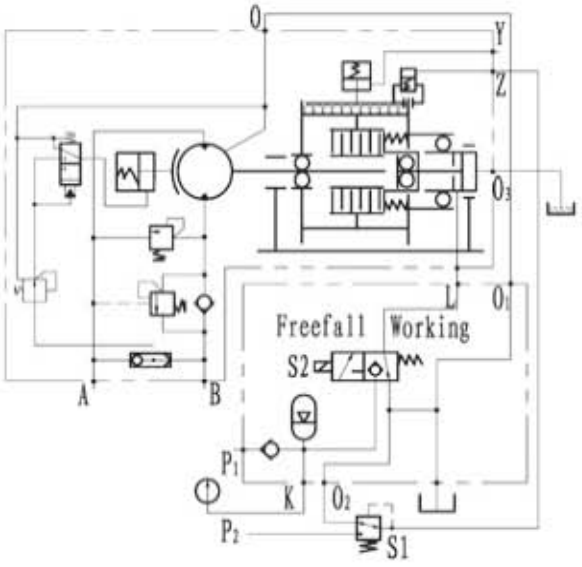




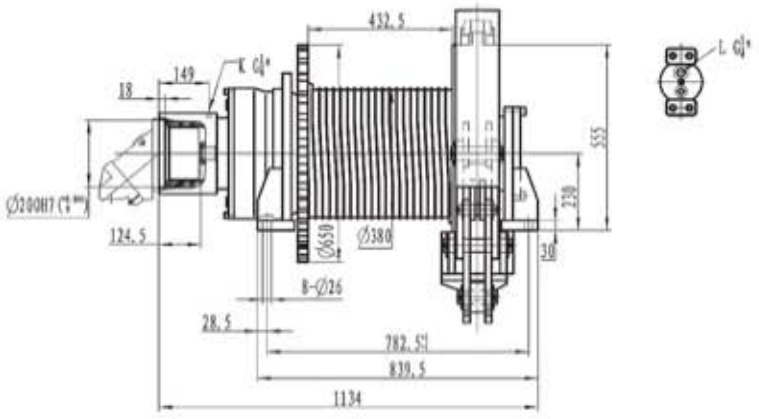
Main Specification

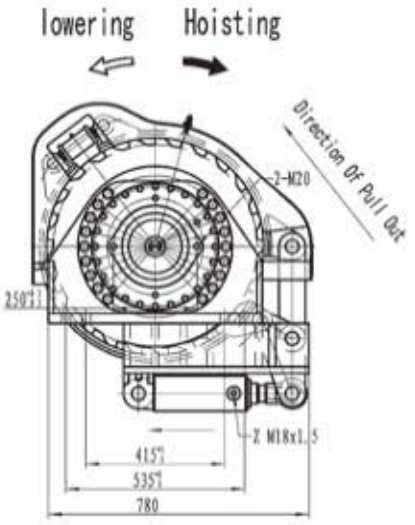
Model	IYJ45-115-235-30-L-ZPGH5D		
Line Pull on the 1st Layer(KN)	115		
Rope Speed at the 5th Layer(m/min)	0-100		
Total Displacement) (mL/r)	9450		
System Pressure(MPa)	30		
Working Pressure Difference(MPa)	28		
Rope Diameter(mm)	28	30	32
Layers	5	5	5
Drum Capability(m)	250	235	220
Supply Oil flow(L/min)	428(η v=0.92)		
Hydraulic motor	A2FE180/6.1WVZL10+F480111P		
Gearbox Model and Ratio	C45F(i=52.5)		
Brake Release Pressure(MPa)	3.0		
Clutch Release Pressure(MPa)	≥4.5且<8		
Min. Free Fall Weight(Kg)	100		

Hydraulic schematic diagram



Note: 1. Total displacement represents the capacity of oil supply pre revolution; Working pressure difference represents the pressure drop between Port A and Port B.
2. Flow of oil supply indicates theoretical flow of pump when the volumetric efficiency considered as 90 percent.
3. Capacity of rope is theoretical capacity of rope. The practical available capacity of rope should subtract the retained 3m wire in case of rope head is out of hand.
4. The reducing valve should be setted in brake control circuit if system pressure is above 16MPa. When ruturn oil back pressure is higher than 1MPa, setting 2/3 sequence valve to promise oil in brake cylinder directly conduct to tank in braking function.
5. The control pressure of hydraulic clutch is not higher than 8MPa.
6. Fitted with pressure roller and alarm device for ensuring 3 dead wraps of cable on the drum. (the item as option)

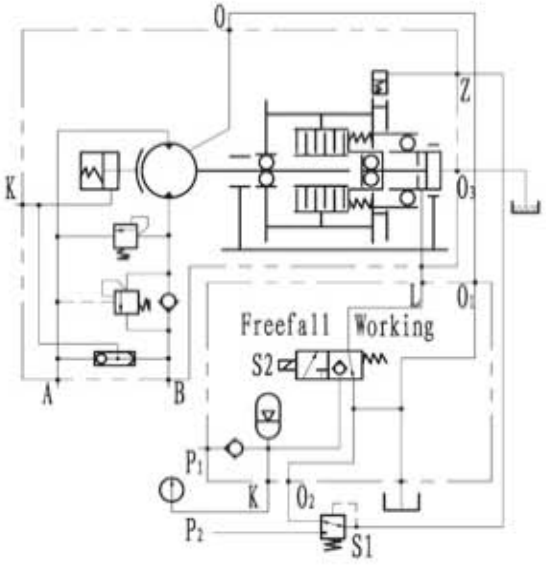




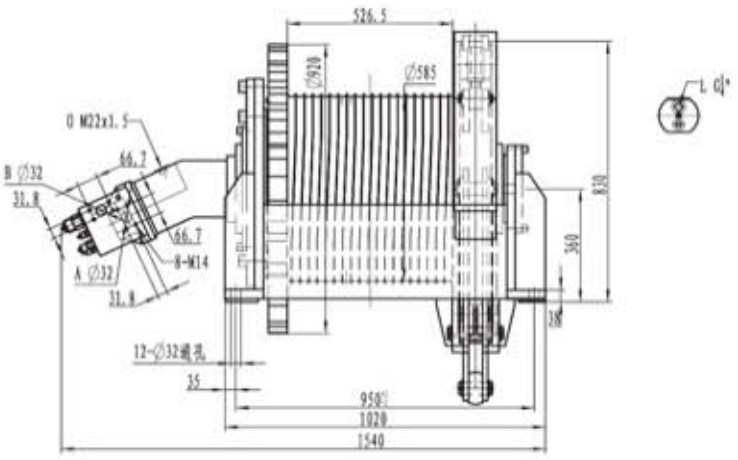
Main Specification

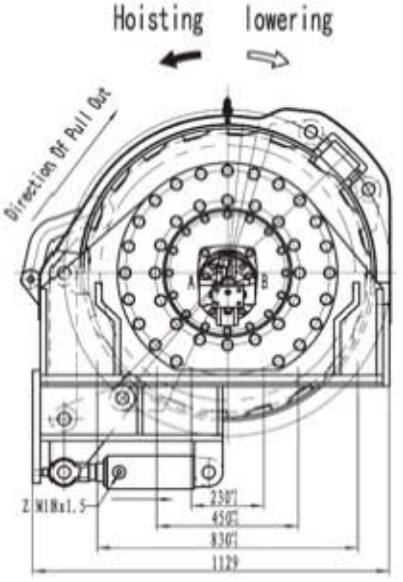
Model	IYJ45-110-110-20-L-ZPGH6DS
Line Pull on the 1st Layer (KN)	110
Rope Speed at the 5th Layer (m/min)	0-93
Total Displacement) (mL/r)	5401.36
System Pressure (MPa)	35
Working Pressure Difference (MPa)	32.5
Rope Diameter (mm)	20
Layers	4
Drum Capability (m)	110
Supply Oil flow (L/min)	430 (η v=0.92)
Hydraulic motor	A2FE107/61W-VZL181-K (Purchased By User)
Gearbox Model and Ratio	C45F (i=50.48)
Brake Release Pressure (MPa)	3.0
Clutch Release Pressure (MPa)	≥4.5且<8
Min. Free Fall Weight (Kg)	100

Hydraulic schematic diagram



Note: 1. Total displacement represents the capacity of oil supply pre revolution; Working pressure difference represents the pressure drop between Port A and Port B.
2. Flow of oil supply indicates theoretical flow of pump when the volumetric efficiency considered as 90 percent.
3. Capacity of rope is theoretical capacity of rope. The practical available capacity of rope should subtract the retained 3m wire in case of rope head is out of hand.
4. The reducing valve should be setted in brake control circuit if system pressure is above 16MPa. When ruturn oil back pressure is higher than 1MPa, setting 2/3 sequence valve to promise oil in brake cylinder directly conduct to tank in braking function.
5. The control pressure of hydraulic clutch is not higher than 8MPa.
6. Fitted with pressure roller and alarm device for ensuring 3 dead wraps of cable on the drum. (the item as option)

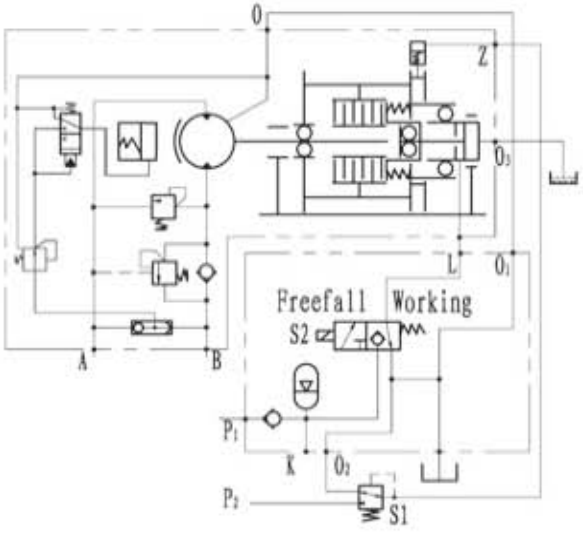




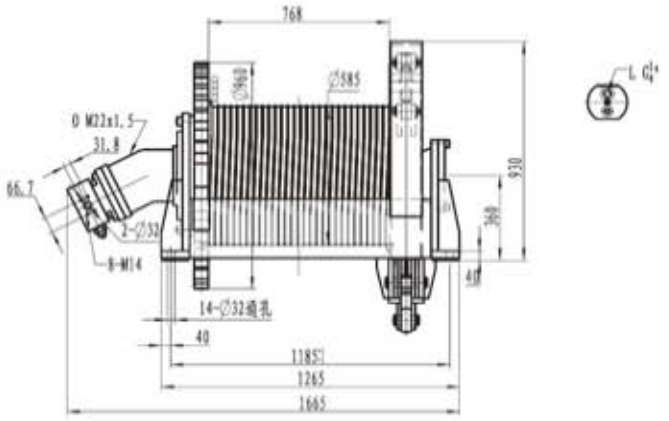
Main Specification

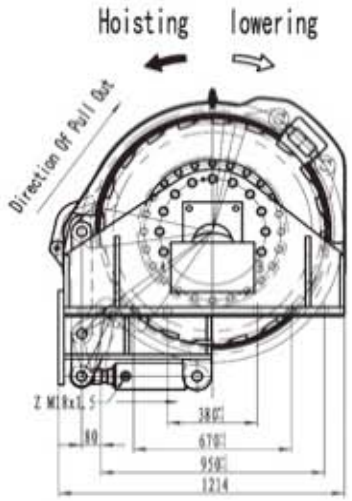
Model	IYJ46-120-205-26-L-ZPGH5D
Line Pull on the 1st Layer (KN)	120
Rope Speed at the 5th Layer (m/min)	0-75
Total Displacement) (mL/r)	10161.152
System Pressure (MPa)	30
Working Pressure Difference (MPa)	28
Rope Diameter (mm)	26
Layers	5
Drum Capability (m)	205
Supply Oil flow (L/min)	319 (η v=0.93)
Hydraulic motor	A2FE160W2Z2+F480111P
Gearbox Model and Ratio	C46 (i=63.5072)
Brake Release Pressure (MPa)	2.5
Clutch Release Pressure (MPa)	4.5
Min. Free Fall Weight (Kg)	100

Hydraulic schematic diagram



Note: 1. Total displacement represents the capacity of oil supply pre revolution; Working pressure difference represents the pressure drop between Port A and Port B.
2. Flow of oil supply indicates theoretical flow of pump when the volumetric efficiency considered as 90 percent.
3. Capacity of rope is theoretical capacity of rope. The practical available capacity of rope should subtract the retained 3m wire in case of rope head is out of hand.
4. The reducing valve should be setted in brake control circuit if system pressure is above 16MPa. When ruturn oil back pressure is higher than 1MPa, setting 2/3 sequence valve to promise oil in brake cylinder directly conduct to tank in braking function.
5. The control pressure of hydraulic clutch is not higher than 8MPa.
6. Fitted with pressure roller and alarm device for ensuring 3 dead wraps of cable on the drum. (the item as option)

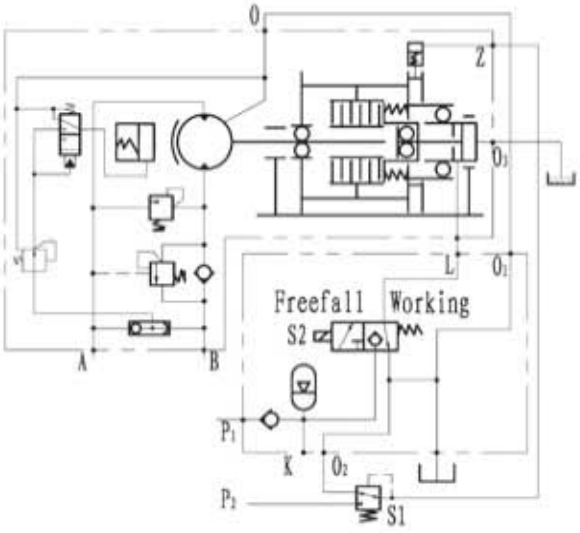




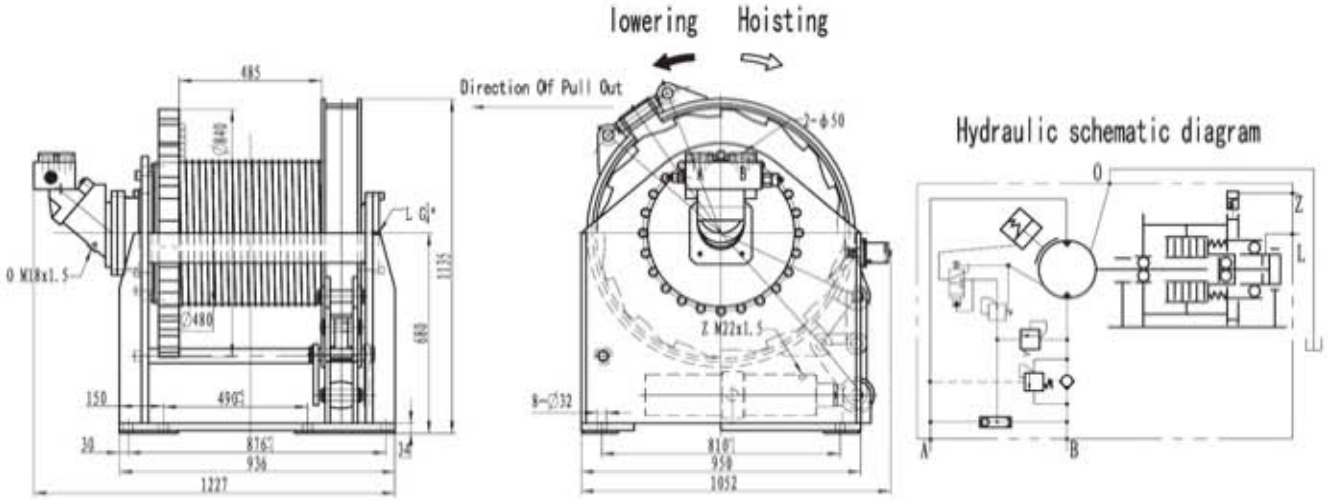
Main Specification

Model	IYJ56-180-300-26-L-ZPGH5	
Line Pull on the 1st Layer (KN)	180	
Rope Speed at the 1st Layer (m/min)	0-59	0-74
Total Displacement) (mL/r)	16320	16582.5
System Pressure (MPa)	30	28
Working Pressure Difference (MPa)	27	26
Rope Diameter (mm)	26	
Layers	5	
Drum Capability (m)	300	
Supply Oil flow (L/min)	540 (η v=0.93)	700 (η v=0.93)
Hydraulic motor	A2F250W5Z1+F720111P	A2F500W5Z1+F960111P
Gearbox Model and Ratio	C56 (i=65.28)	C56 (i=33.16)
Brake Release Pressure (MPa)	3.2	
Clutch Release Pressure (MPa)	≥3.0且<10	
Min. Free Fall Weight (Kg)	100	

Hydraulic schematic diagram



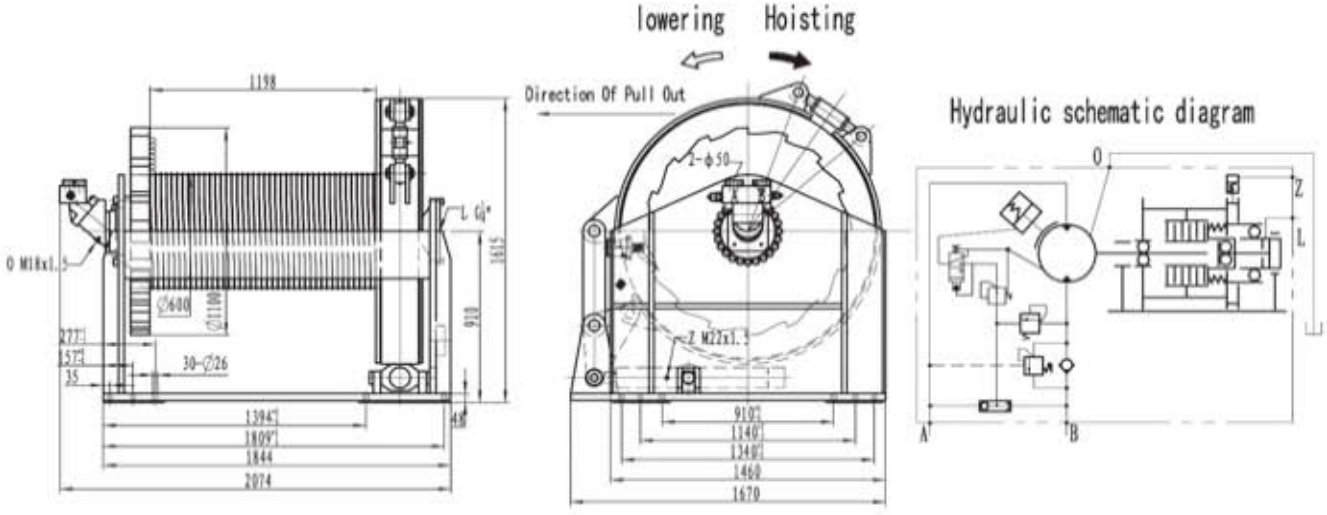
Note: 1. Total displacement represents the capacity of oil supply pre revolution; Working pressure difference represents the pressure drop between Port A and Port B.
2. Flow of oil supply indicates theoretical flow of pump when the volumetric efficiency considered as 90 percent.
3. Capacity of rope is theoretical capacity of rope. The practical available capacity of rope should subtract the retained 3m wire in case of rope head is out of hand.
4. The reducing valve should be setted in brake control circuit if system pressure is above 16MPa. When ruturn oil back pressure is higher than 1MPa, setting 2/3 sequence valve to promise oil in brake cylinder directly conduct to tank in braking function.
5. The control pressure of hydraulic clutch is not higher than 8MPa.
6. Fitted with pressure roller and alarm device for ensuring 3 dead wraps of cable on the drum. (the item as option)



Main Specification

Model	IYJ445-110-235-22-L-ZPGHsDS	IYJ445-120-235-22-L-ZPGHsDS	IYJ445-130-235-22-L-ZPGHsDS
Line Pull on the 1st Layer (KN)	110	120	130
Rope Speed at the 1st Layer (m/min)	0-61	0-46.5	0-67.2
Total Displacement) (mL/r)	7583.375	8988	9417.485
System Pressure (MPa)	30	28	29
Working Pressure Difference (MPa)	28.4	25.6	27
Rope Diameter (mm)	22	22	22
Layers	6	6	6
Drum Capability (m)	235	235	235
Supply Oil flow (L/min)	320 (η v=0.93)	240 (η v=0.93)	432 (η v=0.93)
Hydraulic motor	A2FE125/6.1WVZL10	A2FE107/6.1WVZL10	A2FE160/6.1WVZL10
Gearbox Model and Ratio	C445 (i=60.667)	C445 (i=84)	C445 (i=58.7125)
Brake Release Pressure (MPa)	3	3	3
Clutch Release Pressure (MPa)	4	4.5	5
Min. Free Fall Weight (Kg)	75	75	75

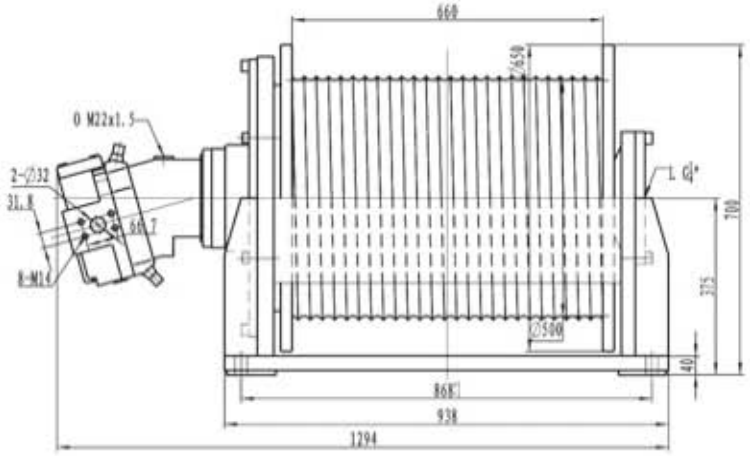
Note: 1. Total displacement represents the capacity of oil supply pre revolution; Working pressure difference represents the pressure drop between Port A and Port B.
2. Flow of oil supply indicates theoretical flow of pump when the volumetric efficiency considered as 90 percent.
3. Capacity of rope is theoretical capacity of rope. The practical available capacity of rope should subtract the retained 3m wire in case of rope head is out of hand.
4. The reducing valve should be setted in brake control circuit if system pressure is above 16MPa. When ruturn oil back pressure is higher than 1MPa, setting 2/3 sequence valve to promise oil in brake cylinder directly conduct to tank in braking function.
5. The control pressure of hydraulic clutch is not higher than 8MPa.
6. Fitted with pressure roller and alarm device for ensuring 3 dead wraps of cable on the drum. (the item as option)

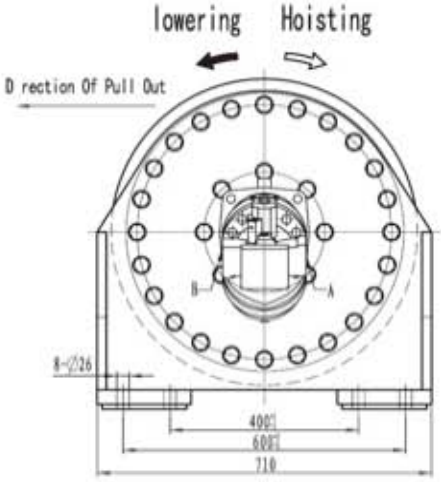


Main Specification

Model	IYJ446-160-675-28-L-ZPGHsDS	IYJ446-200-620-33-L-ZPGHsDS	IYJ446-220-625-34-L-ZPGHsDS
Line Pull on the 1st Layer(KN)	160	200	220
Rope Speed at the 1st Layer(m/min)	0-38	0-36	0-30
Total Displacement)(mL/r)	14380.8	18142.25	20566.488
System Pressure(MPa)	30	30	28
Working Pressure Difference(MPa)	28.2	28	26.7
Rope Diameter(mm)	28	33	34
Layers	7	7	7
Drum Capability(m)	675	620	625
Supply Oil flow(L/min)	300(η v=0.93)	353(η v=0.93)	333(η v=0.93)
Hydraulic motor	A2FE107/6.1WVZL10	A2FE125/6.1WVZL10	A2FE160/6.1WVZL10
Gearbox Model and Ratio	C446(i=134.4)	C446(i=145.138)	C446(i=128.22)
Brake Release Pressure(MPa)	3	3	3
Clutch Release Pressure(MPa)	4	5	5.5
Min. Free Fall Weight(Kg)	80	80	80

Note: 1. Total displacement represents the capacity of oil supply pre revolution; Working pressure difference represents the pressure drop between Port A and Port B.
2. Flow of oil supply indicates theoretical flow of pump when the volumetric efficiency considered as 90 percent.
3. Capacity of rope is theoretical capacity of rope. The practical available capacity of rope should subtract the retained 3m wire in case of rope head is out of hand.
4. The reducing valve should be setted in brake control circuit if system pressure is above 16MPa. When ruturn oil back pressure is higher than 1MPa, setting 2/3 sequence valve to promise oil in brake cylinder directly conduct to tank in braking function.
5. The control pressure of hydraulic clutch is not higher than 8MPa.
6. Fitted with pressure roller and alarm device for ensuring 3 dead wraps of cable on the drum. (the item as option)

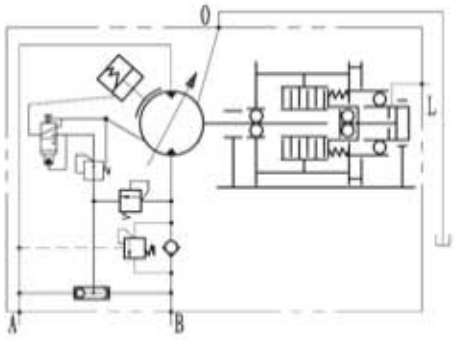




Main Specification

Model	IYJ455-150-80-25-L-ZPGH4		
Line Pull on the 1st Layer (KN)	150	80	≥2 (Clutch Off)
Rope Speed at the 1st Layer) (m/min)	0-25	0-47	173
Total Displacement) (mL/r)	14766	7866	
System Pressure (MPa)	25		
Working Pressure Difference (MPa)	22.4		
Rope Diameter (mm)	25		
Layers	2		
Drum Capability (m)	80		
Supply Oil flow (L/min)	244 (η v=0.93)		
Hydraulic motor	LY-A6V 107 HA2 2 F Z 2 057		
Gearbox Model and Ratio	C455 (i=138)		
Brake Release Pressure (MPa)	2.5		
Clutch Release Pressure (MPa)	3.5		
Min. Free Fall Weight (Kg)	80		

Hydraulic schematic diagram



Note: 1. Total displacement represents the capacity of oil supply pre revolution; Working pressure difference represents the pressure drop between Port A and Port B.
2. Flow of oil supply indicates theoretical flow of pump when the volumetric efficiency considered as 90 percent.
3. Capacity of rope is theoretical capacity of rope. The practical available capacity of rope should subtract the retained 3m wire in case of rope head is out of hand.
4. The reducing valve should be setted in brake control circuit if system pressure is above 16MPa. When ruturn oil back pressure is higher than 1MPa, setting 2/3 sequence valve to promise oil in brake cylinder directly conduct to tank in braking function.
5. The control pressure of hydraulic clutch is not higher than 8MPa.
6. Fitted with pressure roller and alarm device for ensuring 3 dead wraps of cable on the drum. (the item as option)