INI® NINGBO DAGANG INI HYDRAULIC CO.,LTD.

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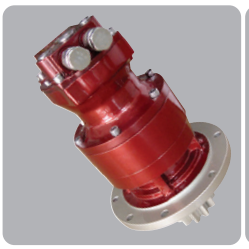
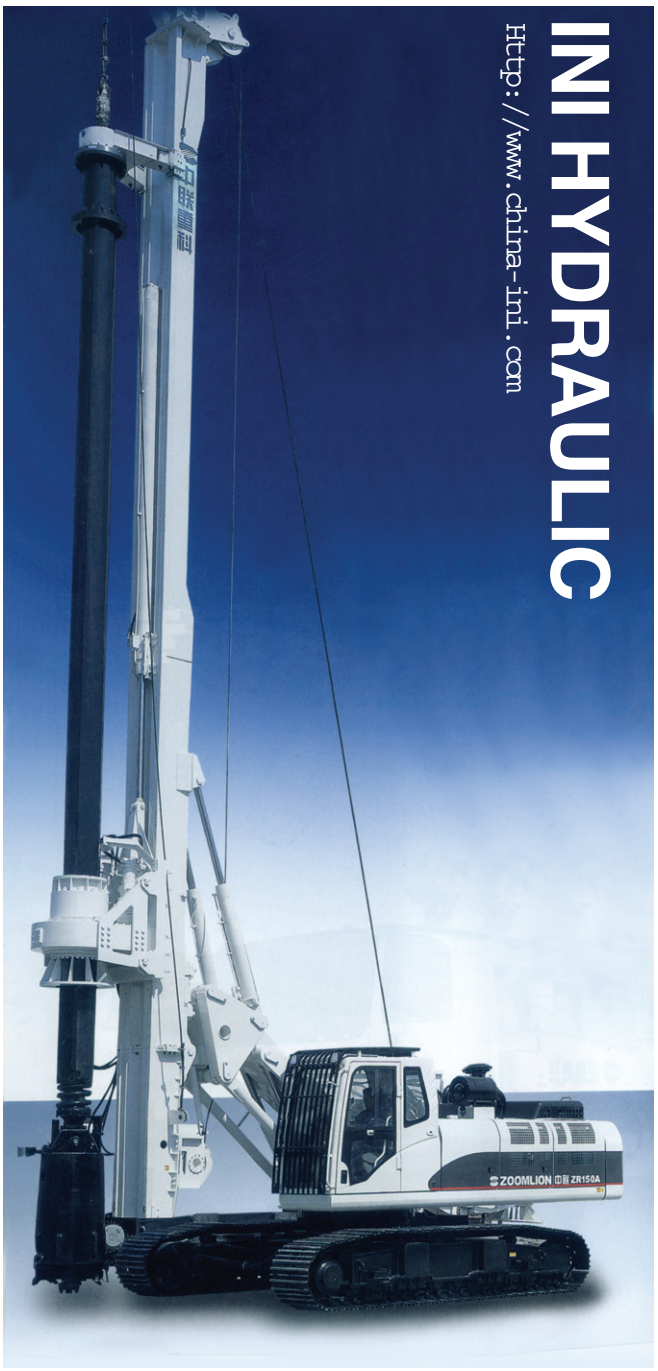
2010 Catalogue

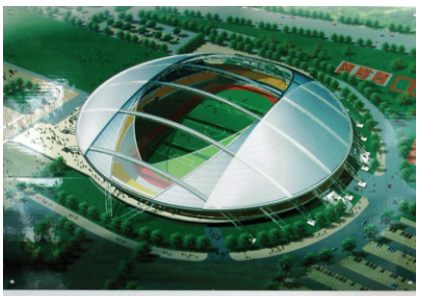
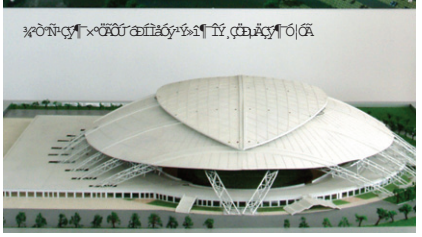
Product
Shows & Applications





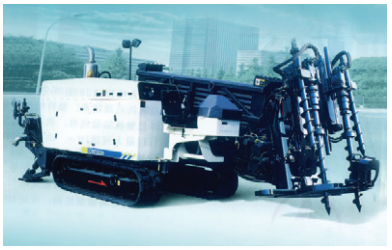








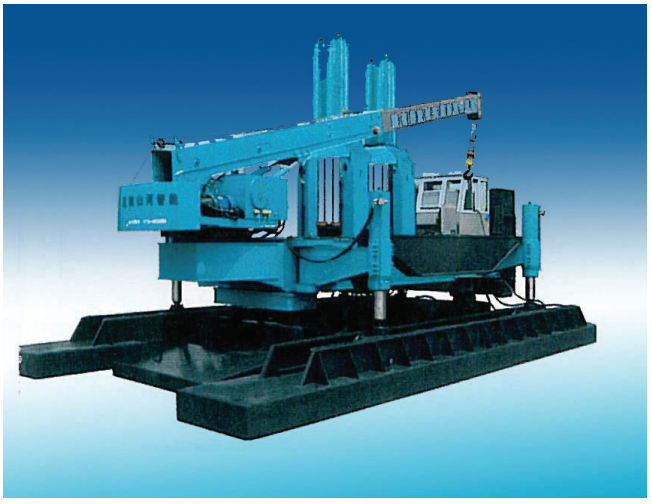
Product
Shows & Applications










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.

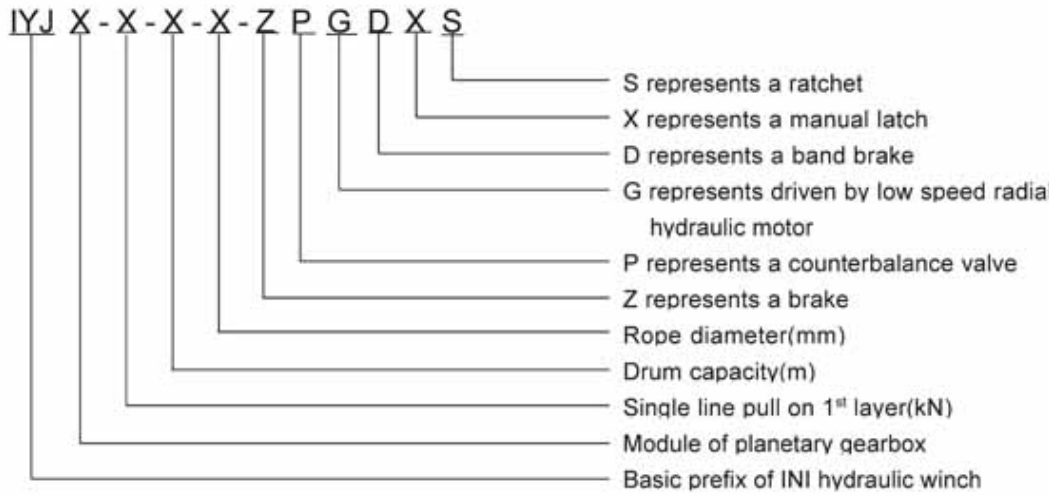
The company has more than 150 advanced manufacturing equipment, half of which were imported. 60% of all the machines are CNC, including three-dimension coordinate measuring machine, universal gear measuring machine, digital ultrasonic inspection machine, and universal tool microscope. A static hydrostatic 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 Hydraulic Winch Series

1. Brief Introduction

The IYJ hydraulic winch series use the patent technique of our company and consist of a variety of valve blocks with function of braking and single counterbalance valve, high speed hydraulic motor, Z type brake, KC type or GC type planetary gearbox, drum, frame and clutch. The user only needs to provide a hydraulic power pack and directional valve. Due to the winches fitted with diversified valve block, it not only simplified the hydraulic system, but also improved the reliability of the winches. In addition, the winches feature a high efficiency and power, low noise and energy consumption, and have a compact figure and good economic value. Therefore, the series have been widely applied to construction, petroleum, mining, geological drilling, ship and deck machinery. IYJ series hydraulic winches have been well sold in China, and also have been exported to the Middle-east, south-east Asia, India, Korea, Russia, Australia, US, Netherlands and so on.

2. Model Options



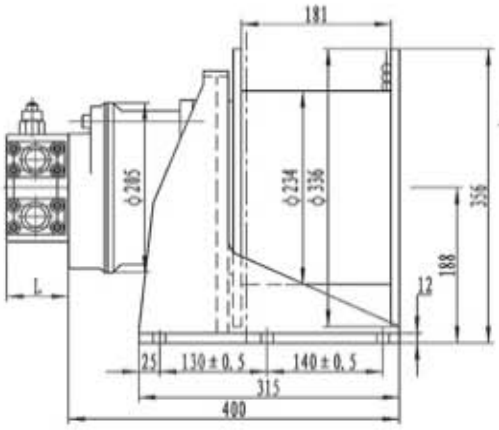
3. Options Example

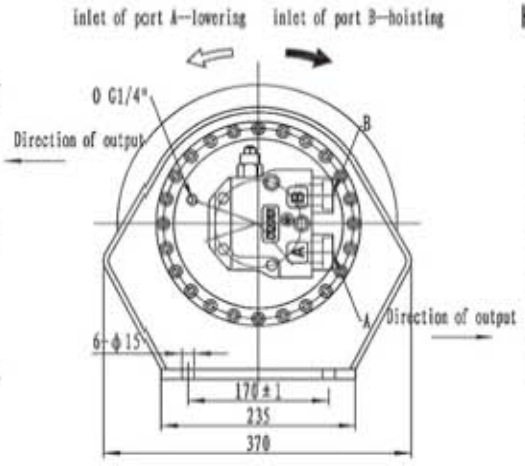
IYJ334-75-88-22-ZPG represents that the hydraulic winch adopts a three stage planetary gearbox, and that the modules of the gearbox are 3,3 and 4 respectively. The rated single pull on 1st layer is 75kN, drum capacity is 88, rope diameter is 22 mm. the winch is fitted with brake, counterbalance valve, and is driven by a high speed axial hydraulic motor.

4. Parameter Description

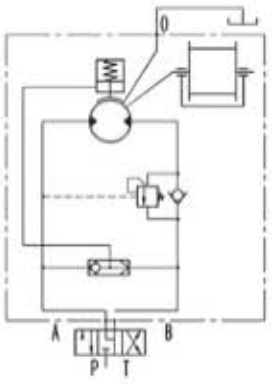
a. The total displacement represents the oil flow supply per revolution of the drum(mL/r).
b. The oil flow supply indicates the theoretical flow of the pump when the volumetric efficiency is considered to be 90-94%.
c. Maintain mandatory minimum of three wraps rope to be left on the drum at all times for safety.
d. The working pressure differential represents the pressure drop between port A and port B.
e. This winch series can be equipped with a rope roller, alarm system for the last three winding ropes, rope-guider, output shaft for rotation speed measurement, these items are optional. More options are available please contact the sales department.

5. There are other winch series available, such as IYJ-L free fall hydraulic winch series, IYJ-C hydraulic mooring winch series, ISYJ hydraulic winch series for truck, INYJ internal hydraulic winch series and so on, please refer to other catalogs of our company or contact the sales department.





Hydraulic principle diagram

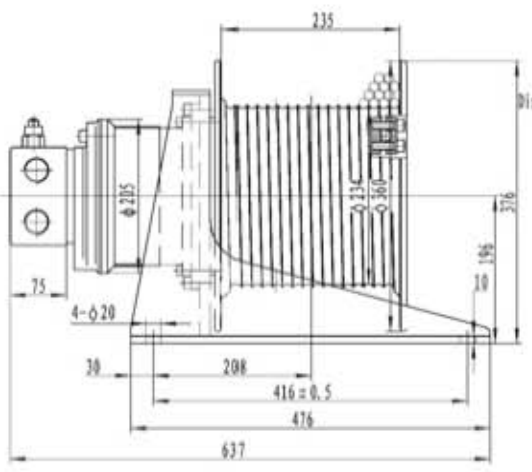


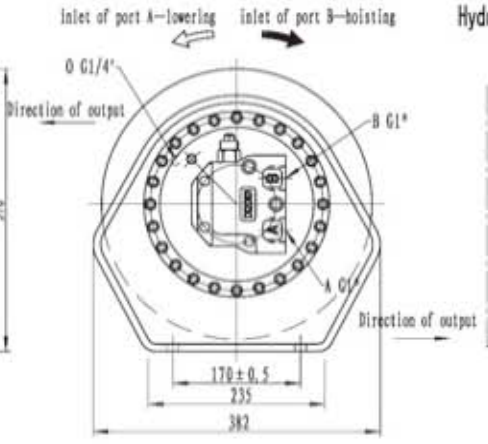
Model	The 1st layer		Total displacement	Working pressure diff.	Supply oil flow	Diameter of rope	Layer	Capacty of rope	Hydraulic motor	Gearbox model
	Pull (KN)	Rope speed (m/min)	(ml/rev)	(MPa)	(L/min)	(mm)		(m)		
IYJ2.5A-5-73-8-ZP	5	60	370	14	30	8	1 2 3 4	16 34 53 73	INM05-75D60101	C2.5 i=5
IYJ2.5A-10-61-10-ZP	10	30	755	15.5	30	10	1 2 3 4	13 28 44 61	INM05-150D60101	C2.5 i=5
IYJ2.5A-15-40-11-ZP	15	48	1057	13.5	70	11	1 2 3	12 25 40	INM05-150120101	C2.5 i=7
IYJ2.5A-17.5-40-11-ZP	17.5	38	1337	13	70	11	1 2 3	12 25 40	INM05-200D120101	C2.5 i=7
IYJ2.5A-20-40-11-ZP	20	38	1337	14.7	70	11	1 2 3	12 25 40	INM05-200D120101	C2.5 i=7
IYJ2.5A-25-37-12-ZP	25	38	1337	18	70	12	1 2 3	11 24 37	INM05-200D120101P	C2.5 i=7

Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.

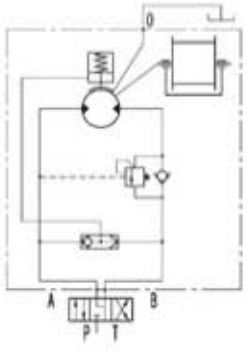
Distributors Model

Supply oil flow(L/min)	Model	A	B	L
0-40	D60101	M22x1.5	M22x1.5	65
40-90	D120101	φ35	φ35	75



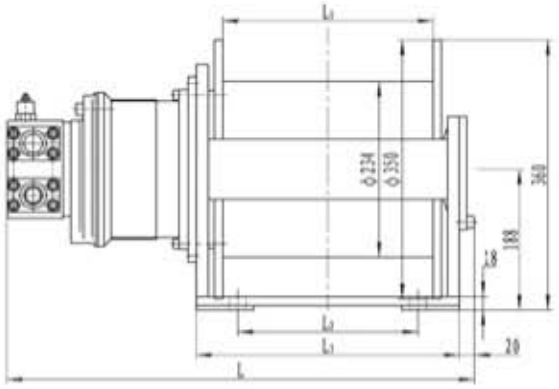


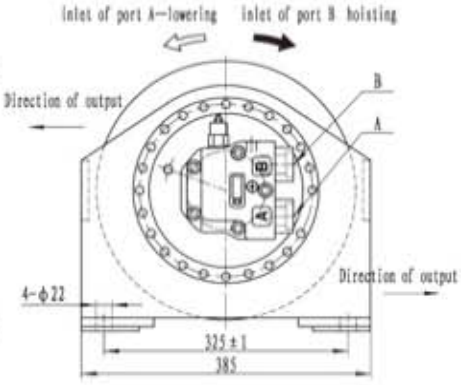
Hydraulic principle diagram



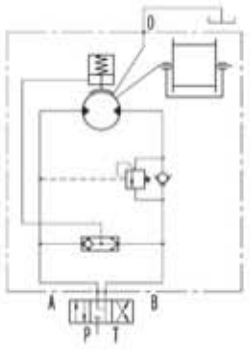
Model	The 1st layer		Tota displacement	Working pressure diff	Supply oil flow	Diameter of rope	Layer	Capacity of rope	Hydraulic motor	Gearbox model
	Pull (KN)	Rope speed (m/min)	(ml/rev)	(MPa)	(L/min)	(mm)		(m)		
IYJ2.5A-15-65-13-ZP	15	30	1337	10.5	55	13	1 2 3 4	14 29 46 65	INM05-200D120101	C2.5 i=7

Note:1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.





Hydraulic principle diagram



Basic model	Model	The 1st layer		Total displacement	Working pressure diff.	Supply oil flow	Diameter of rope	Layer	Capacity of rope	Hydraulic motor	Gearbox mode	Weight
		Pull (KN)	Rope speed (m/min)	(ml/rev)	(MPa)	(L/min)	(mm)		(m)			(kg)
1	IYJ2.5-5-93-10-ZP	5	60	370	13	32	10	1 2 3 4	21 44 69 93	INM05-75D60101	C2.5A i=5	130
	IYJ2.5-10-93-10-ZP	10	60	645	15	56	10	1 2 3 4	21 44 69 93	INM05-130D120101	C2.5A i=5	130
2	IYJ2.5-12-85-12-ZP	12	56	830	14	67	12	1 2 3	25 54 85	INM05-170D120101	C2.5A i=5	160
	IYJ2.5-15-85-12-ZP	15	53	955	16	70	12	1 2 3	25 54 85	INM05-200D120101	C2.5A i=5	160
3	IYJ2.5-18-109-13-ZP	18	48	1057	16	70	13	1 2 3	32 69 109	INM05-150D120101	C2.5 i=7	200
	IYJ2.5-20-102-14-ZP	20	39	1337	14	70	14	1 2 3	30 64 102	INM05-200D120101	C2.5 i=7	200
4	IYJ2.5-22-130-14-ZP	22	39	1337	15.6	70	14	1 2 3	38 82 130	INM05-200D120101	C2.5 i=7	200
	IYJ2.5-24-130-14-ZP	25	39	1337	18	70	14	1 2 3	38 82 130	INM05-200D120101	C2.5 i=7	200

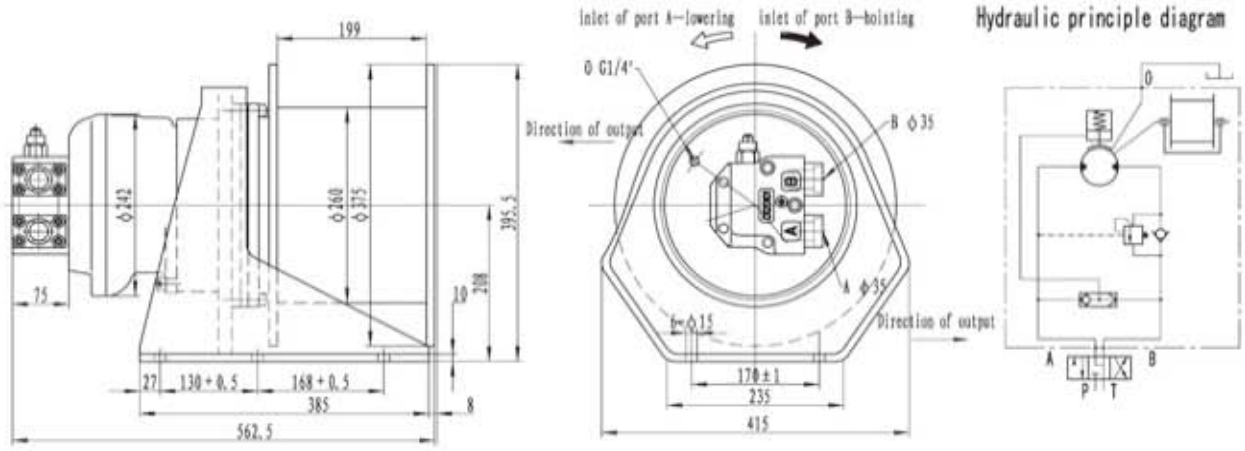
Note:1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.

Profile Dimension

	L1 (mm)	L2 (mm)	L3 (mm)	L (mm)
1	280	240	350	622
2	402	362	472	744
3	552	512	622	913
4	700	660	770	1100

Distributors Model

Supply oil flow(L/min)	Model	A	B
0-40	D60101	M22x1.5	M22x1.5
40-90	D120101	Φ35	Φ35



Model	The 1st layer		Total displacement	Working pressure diff	Supply oil flow	Diameter of rope	Layer	Capacity of rope	Hydraulic motor	Gearbox model
	Pull (KN)	Rope speed (m/min)	(ml/rev)	(MPa)	(L/min)	(mm)		(m)		
IYJ3A-20-62-12-ZP	20	45	1407	14.5	80	12	1 2 3 4	13 28 45 62	INM1-200D120101	C3 i=7
IYJ3A-25-58-13-ZP	25	38	1701	15	80	13	1 2 3 4	12 26 42 58	INM1-250D120101	C3 i=7
IYJ3A-30-58-13-ZP	30	32	2030	15.2	80	13	1 2 3 4	12 26 42 58	INM1-300D120101	C3 i=7
IYJ3A-35-55-14-ZP	35	30	2198	16.4	80	14	1 2 3 4	11 24 39 55	INM1-320D120101	C3 i=7

Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.
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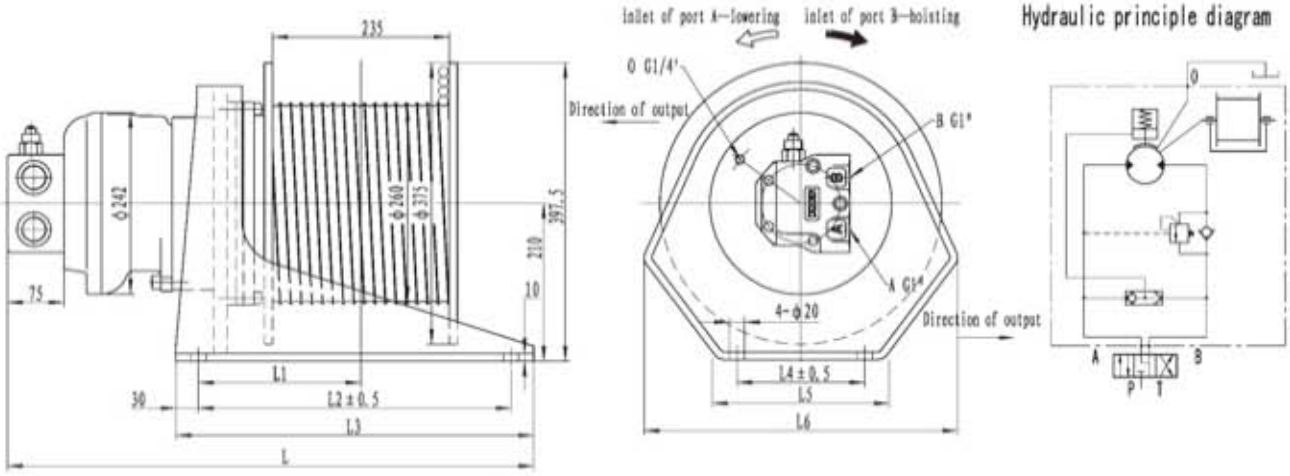

Model	The 1st layer		Total displacement	Working pressure diff	Supply oil flow	Diameter of rope	Layer	Capacity of rope	Hydraulic motor	Gearbox model
	Pull (KN)	Rope speed (m/min)	(ml/rev)	(MPa)	(L/min)	(mm)		(m)		
IYJ3A-25-70-13-ZP	25	45	1701	14.9	96	13	1 2 3 4	15 32 50 70	INM1-250D120101	C3 i=7
IYJ3A-35-70-13-ZP	35	45	2380	15	120	13	1 2 3 4	15 32 50 70	INM1-350D240101	C3 i=7

Model	L	L1	L2	L3	L4	L5	L6
IYJ3A-25-70-13-ZP	700	216	416	476	170	215	417
IYJ3A-35-70-13-ZP	745	245	490	550	285	368	398

Note:1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
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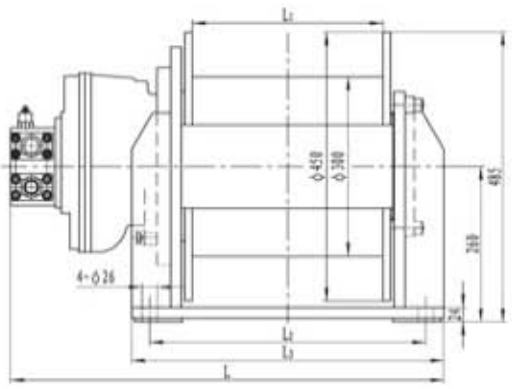
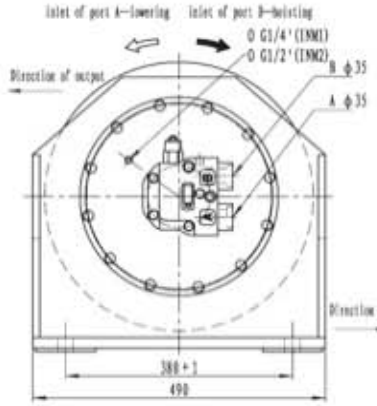
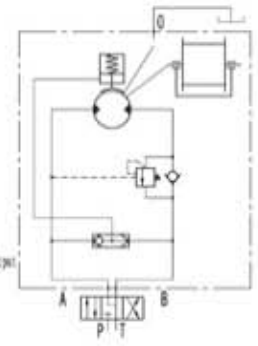




Hydraulic principle diagram

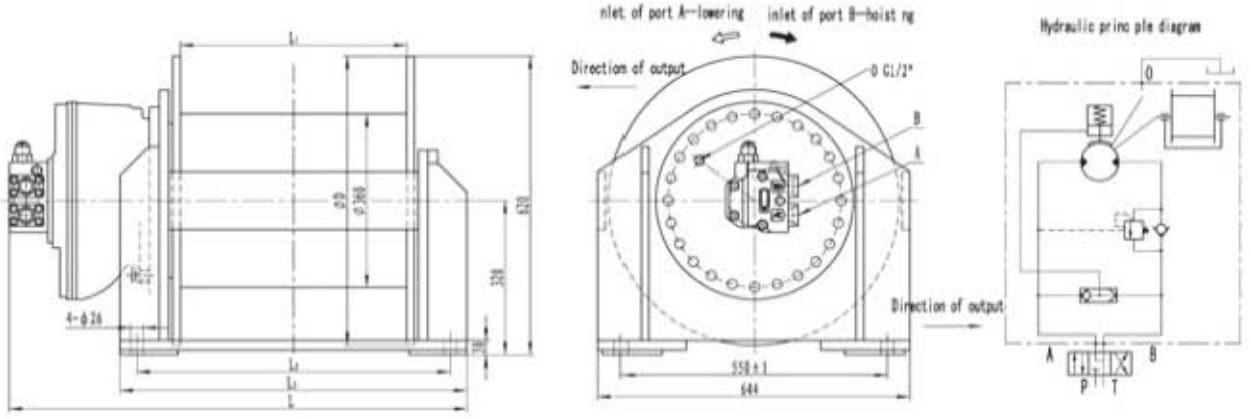


Basic model	Model	The 1st layer		Total displacement	Working pressure diff.	Supply oil flow	Diameter of rope	Layer	Capacity of rope	Hydraulic motor	Gearbox model	Weight
		Pull (KN)	Rope speed (m/min)	(ml/rev)	(MPa)	(L/min)	(mm)		(m)			(kg)
1	IYJ3-20-76-14-ZP	20	43	1701	13.7	80	14	1 2 3 4	17 36 57 76	INM1-250D120101	C3 i=7	170
	IYJ3-24-76-14-ZP	24	37	2030	13.8	80	14	1 2 3 4	17 36 57 76	INM1-300D120101	C3 i=7	170
2	IYJ3-25-99-14-ZP	25	37	2030	14.5	80	14	1 2 3 4	22 47 73 99	INM1-300D120101	C3 i=7	230
	IYJ3-30-99-14-ZP	30	34	2198	16.8	80	14	1 2 3 4	22 47 73 99	INM2-320D120101	C3 i=7	230
3	IYJ3-32-92-16-ZP	32	55	2711.5	14.0	160	16	1 2 3	27 58 92	INM2-500D240101	C3D i=5.5	300
	IYJ3-35-92-16-ZP	35	48	3107.5	13.2	160	16	1 2 3	27 58 92	INM2-600D240101	C3D i=5.5	300
4	IYJ3-40-120-16-ZP	40	48	3107.5	15.0	160	16	1 2 3	36 76 120	INM2-600D240101	C3D i=5.5	370
	IYJ3-42-108-18-ZP	42	44	3426.5	14.4	160	18	1 2 3	32 68 108	INM2-630D240101	C3D i=5.5	370

Note:1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.

Profile Dimension

	L1 (mm)	L2 (mm)	L3 (mm)	L (mm)
1	245	387	447	625
2	320	462	522	750
3	450	592	652	880
4	587	729	789	1017



Basic model	Model	The 1st layer		Total displacement	Working pressure diff.	Supply oil flow	Diameter of rope	Layer	Capacity of rope	Hydraulic motor	Gearbox model	
		Pull (KN)	Rope speed (m/min)	(ml/rev)	(MPa)	(L/min)	(mm)		(m)			
1	IYJ4-40-89-16-ZP	40	60	3450	16.1	195	16	1 2 3	27 57 89	INM3-700D480101	C4A i=5	250
	IYJ4-45-89-16-ZP	45	36	4361	14.4	148	16	1 2 3	27 57 89	INM2-630D240101	C4 i=7	210
2	IYJ4-50-92-18-ZP	50	36	4361	16	148	18	1 2 3	28 59 92	INM2-600D240101	C4 i=7	350
	IYJ4-54-92-20-ZP	54	36	5428.5	14.0	182	20	1 2 3	28 59 92	INM3-1000D480101	C4D i=5.5	390
3	IYJ4-60-111-20-ZP	60	32	6138	13.7	183	20	1 2 3	33 71 111	INM4-1100D480101	C4D i=5.5	480
	IYJ4-62-111-20-ZP	62	32	5580	15.6	167	20	1 2 3	33 71 111	INM4-1100D480101	C4A i=5	480
4	IYJ4-72-118-22-ZP	72	28	7238	14.1	188	22	1 2 3	35 74 118	INM4-1300D480101	C4D i=5.5	560
	IYJ4-80-106-24-ZP	80	28	7238	15.9	188	24	1 2 3	32 67 106	INM4-1300480101	C4D i=5.5	560

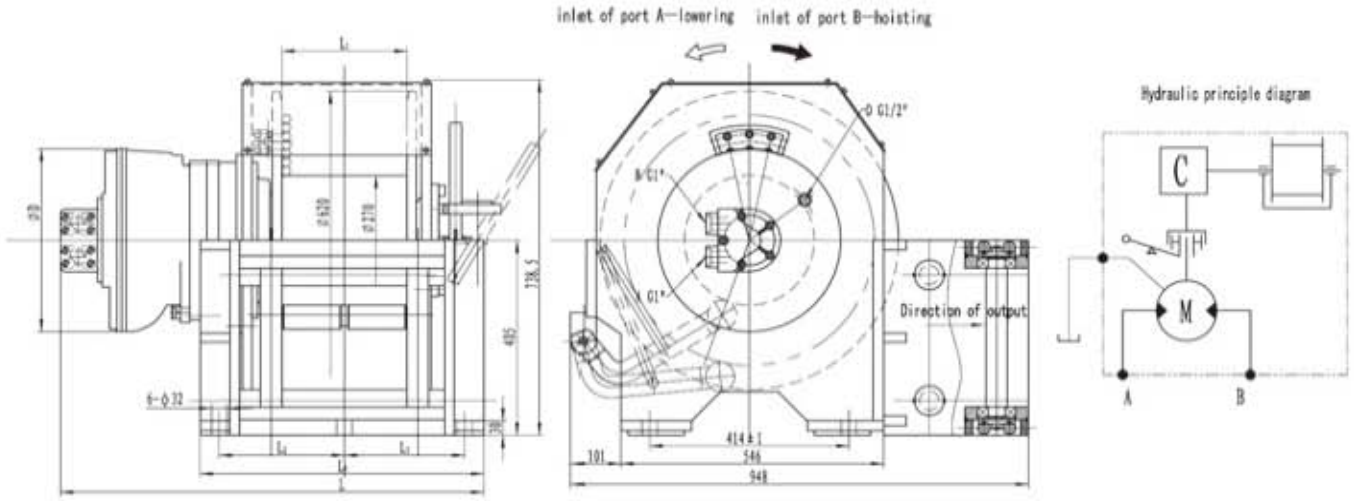
Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.

Profile Dimension

	L1 (mm)	L2 (mm)	L3 (mm)	L (mm)	D (mm)
1	372	552	622	833	520
2	470	650	720	931	540
3	566	746	816	1046	560
4	650	830	900	1130	600

Distributors Model

Supply oil flow(L/min)	Model	A	B
90-150	D240101	φ35	φ35
150-260	D480101	φ50	φ50



Basic model	Model	The 1st layer		Total displacement (ml/rev)	Working pressure diff. (MPa)	Supply oil flow (L/min)	Diameter of rope (mm)	Layer	Capacity of rope (m)	Hydraulic motor	Gearbox model	Weight (kg)
		Pull (KN)	Rope speed (m/min)									
1	IYJ4-40-134-16-L	40	13.9	2429	18.5	42	16	1 2 3 4 5 6 7	14 30 48 67 88 110 134	INM2-350D47	C4 i=7	650
2	IYJ4-70-122-18-L	70	14.8	3795	20.5	69	18	1 2 3 4 5 6 7	12 27 42 60 79 100 122	INM3-700D47	C4D i=5.5	670
1	IYJ4-100-126-20-L	100	14.8	6138	18.5	110	20	1 2 3 4 5 6 7	12 27 43 61 81 103 126	INM4-1100D47	C4D i=5.5	690

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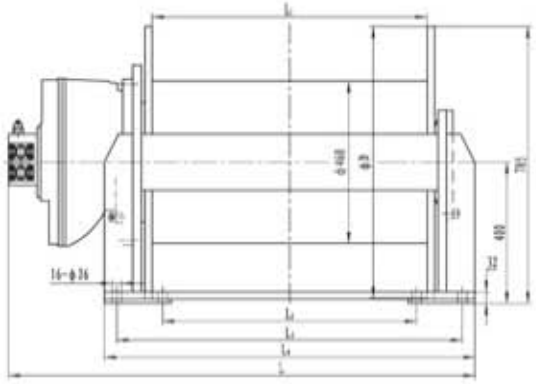
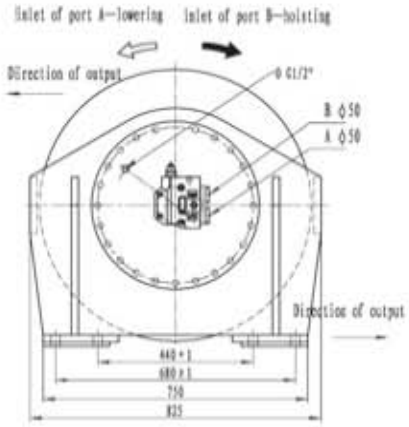
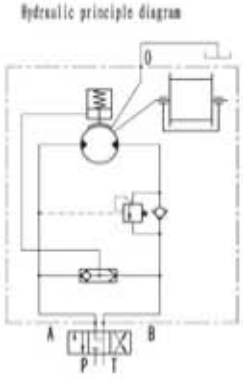
4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.

Profile Dimension

	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L (mm)	D (mm)
1	260	255	255	590	975	300
2	260	255	255	590	997	380
3	282	266	266	612	1038	410





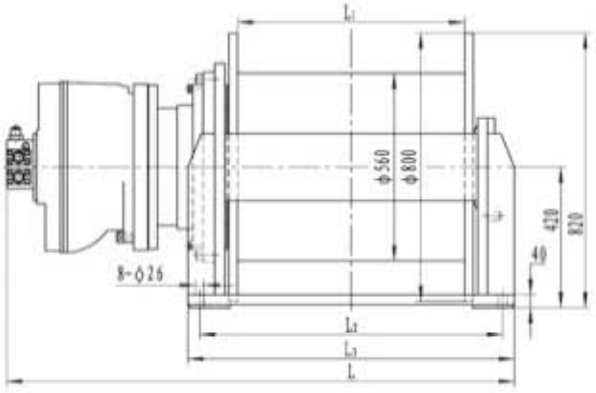


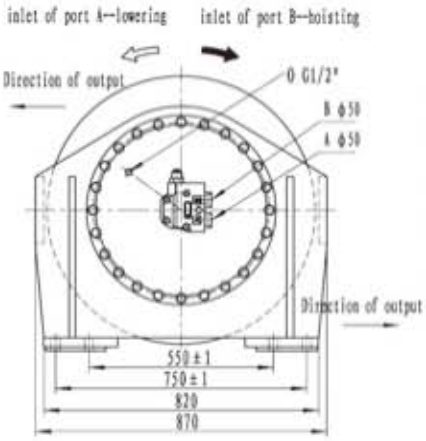
Basic model	Model	The 1st layer		Total displacement (ml/rev)	Working pressure diff. (MPa)	Supply oil flow (L/min)	Diameter of rope (mm)	Layer	Capacity of rope (m)	Hydraulic motor	Gearbox model	Weight (kg)
		Pull (KN)	Rope speed (m/min)									
1	IYJ5-70-136-22-ZP	70	32	9212	13.6	216	22	1 2 3	30 64 101	INM4-1300480101	C5 i=7	800
	IYJ5-80-110-24-ZP	80	32	9212	15.8	216	24	1 2 3	28 59 94	INM4-1300D480101	C5 i=7	800
2	IYJ5-90-158-24-ZP	90	33	11348	14.4	256	24	1 2 3	35 74 116	INM5-1600D480101	C5 i=7	1050
	IYJ5-95-148-26-ZP	95	34	11038.5	15.6	256	26	1 2 3	32 69 109	INM5-2000D480101	C5D i=5.5	1050
3	IYJ5-100-177-26-ZP	100	34	11038.5	16.4	260	26	1 2 3	39 82 130	INM5-2000D480101	C5D i=5.5	1100
	IYJ5-110-177-26-ZP	110	32	11698.5	17	260	26	1 2 3	39 82 130	INM6-2100D480101	C5D i=5.5	1100
4	IYJ5-120-142-28-ZP	120	27	13821.5	15.7	260	28	1 2 3	42 90 142	INM6-2500D480101	C5D i=5.5	1300
	IYJ5-130-142-28-ZP	130	27	13821.5	17.0	260	28	1 2 3	42 90 142	INM6-2500D480101	C5D i=5.5	1300

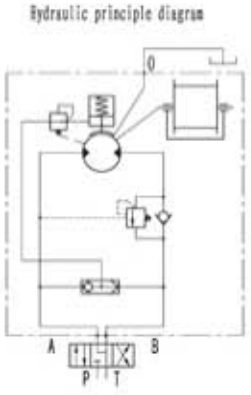
Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.

Profile Dimension

	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L (mm)	D (mm)
1	450	390	650	720	992	725
2	560	500	760	830	1193	750
3	670	610	870	940	1212	770
4	780	720	980	1050	1413	770





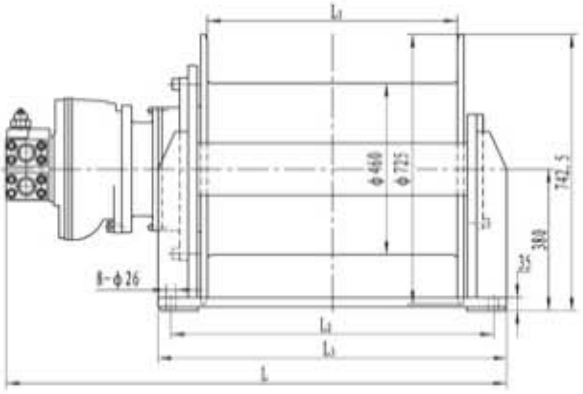


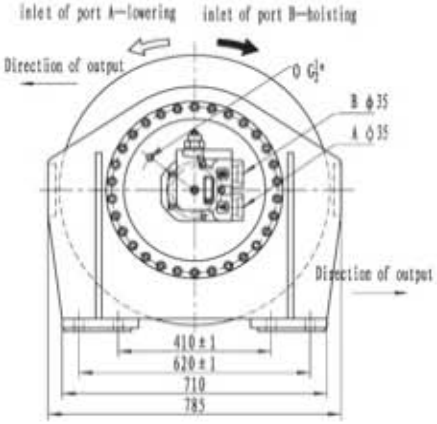
Basic model	Model	The 1st layer		Total displacement (ml/rev)	Working pressure diff. (MPa)	Supply oil flow (L/min)	Diameter of rope (mm)	Layer	Capacity of rope (m)	Hydraulic motor	Gearbox model	Weight (kg)
		Pull (KN)	Rope speed (m/min)									
1	IYJ6-100-127-26-ZP	100	34	14049	15.6	280	26	1	38	INM5-2000D480101	C6 i=7	1200
								2	81			
								3	127			
	IYJ6-110-115-28-ZP	110	34	14049	17	280	28	1	35	INM5-2000D480101	C6 i=7	1200
								2	74			
								3	115			
2	IYJ6-120-140-28-ZP	120	28	17591	15	280	28	1	44	INM6-2500D480101	C6 i=7	1450
								2	93			
								3	140			
	IYJ6-125-135-30-ZP	125	28	17591	15.7	280	30	1	41	INM6-2500D480101	C6 i=7	1450
								2	86			
								3	135			
3	IYJ6-130-163-30-ZP	130	28	17591	16.4	280	30	1	49	INM6-2500D480101	C6 i=7	1600
								2	103			
								3	163			
	IYJ6-140-163-30-ZP	140	28	17591	17.6	280	30	1	49	INM6-2500D480101	C6 i=7	1600
								2	103			
								3	163			
4	IYJ6-145-198-30-ZP	145	29	16725.5	18.9	280	30	1	61	INM6-3000D480101	C6D i=5.5	1780
								2	129			
								3	204			
	IYJ6-150-198-30-ZP	150	29	16725.5	19.6	280	30	1	61	INM6-3000D480101	C6D i=5.5	1780
								2	129			
								3	204			

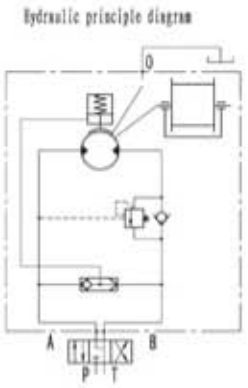
Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.

Profile Dimension

	L1 (mm)	L2 (mm)	L3 (mm)	L (mm)
1	550	776	846	1381
2	678	904	974	1509
3	800	1026	1096	1631
4	1000	1226	1296	1831







Basic model	Model	The 1st layer		Total displacement (ml/rev)	Working pressure diff. (MPa)	Supply oil flow (L/min)	Diameter of rope (mm)	Layer	Capacity of rope (m)	Hydraulic motor	Gearbox model	Weight (kg)
		Pull (KN)	Rope speed (m/min)									
1	IYJ45-100-111-26-ZP	100	19	13804	13.5	180	26	1 2 3	33 70 111	INM2-5000240101	C45 i=28	960
	IYJ45-110-111-26-ZP	110	19	13804	14.8	180	26	1 2 3	33 70 111	INM2-5000240101	C45 i=28	1050
2	IYJ45-120-122-28-ZP	120	19	13804	16.3	180	28	1 2 3	36 77 122	INM2-5000240101	C45 i=28	1150
	IYJ45-130-122-28-ZP	130	16	16660	14.6	180	28	1 2 3	36 77 122	INM3-6000240101	C45 i=28	1120
3	IYJ45-140-138-30-ZP	140	16	16660	15.8	180	30	1 2 3	41 87 138	INM3-6000240101	C45 i=28	1250
	IYJ45-145-138-30-ZP	145	16	16660	16.3	180	30	1 2 3	41 87 138	INM3-6000240101	C45 i=28	1250
4	IYJ45-150-163-32-ZP	150	14	19320	14.6	180	32	1 2 3	48 102 163	INM3-7000240101	C45 i=28	1480
	IYJ45-160-163-32-ZP	160	14	19320	15.6	180	32	1 2 3	48 102 163	INM3-7000240101	C45 i=28	1480

Note:1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.
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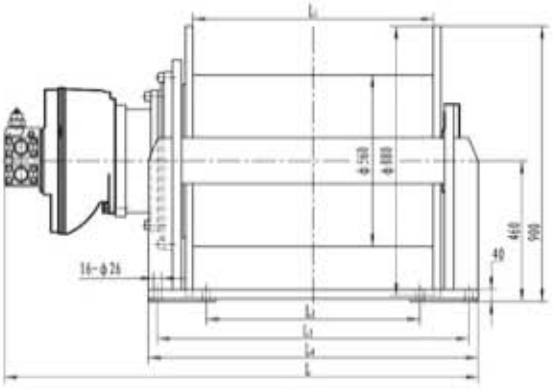
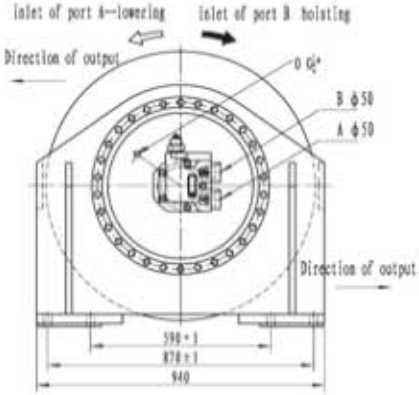
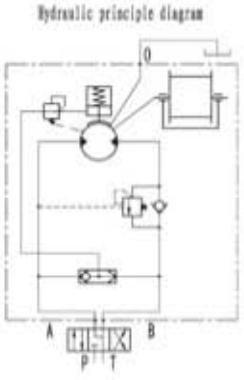
Profile Dimension

	L1 (mm)	L2 (mm)	L3 (mm)	L (mm)
1	570	766	836	1262
2	671	865	935	1342
3	800	994	1064	1471
4	1000	1194	1264	1671







Basic model	Model	The 1st layer		Total displacement	Working pressure diff.	Supply oil flow	Diameter of rope	Layer	Capacity of rope	Hydraulic motor	Gearbox model	Weight
		Pull (KN)	Rope speed (m/min)	(ml/rev)	(MPa)	(L/min)	(mm)		(m)			(kg)
1	IYJ56-120-160-30-ZP	120	27	18080	15	280	30	1 2 3	48 102 160	INM4-900D480101P	C56 i=20	1450
	IYJ56-130-160-30-ZP	130	27	18080	16.2	280	30	1 2 3	48 102 160	INM4-900D480101P	C56 i=20	1450
2	IYJ56-140-183-30-ZP	140	24	20440	15.5	280	30	1 2 3	55 116 183	INM4-1000D480101P	C56 i=20	1450
	IYJ56-150-183-30-ZP	150	24	20440	16.6	280	30	1 2 3	55 116 183	INM4-1000D480101P	C56 i=20	1450
3	IYJ56-160-188-32-ZP	160	21	23700	15.2	280	32	1 2 3	56 119 188	INM5-1200D480101P	C56 i=20	1650
	IYJ56-170-188-32-ZP	170	21	23700	16.1	280	32	1 2 3	56 119 188	INM5-1200D480101P	C56 i=20	1650
4	IYJ56-180-196-34-ZP	180	18	26800	15.3	280	34	1 2 3	59 124 196	INM5-1300D480101P	C56 i=20	1750
	IYJ56-200-187-36-ZP	200	18	26800	17	280	36	1 2 3	56 118 187	INM5-1300D480101P	C56 i=20	1750

Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.
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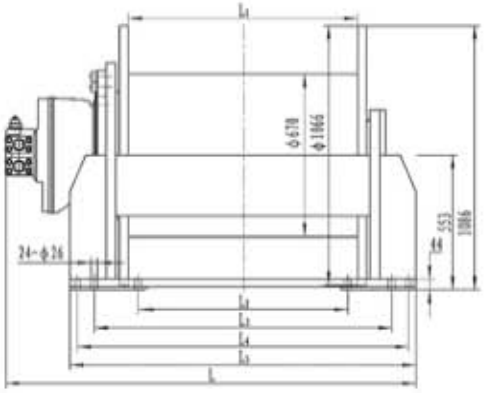
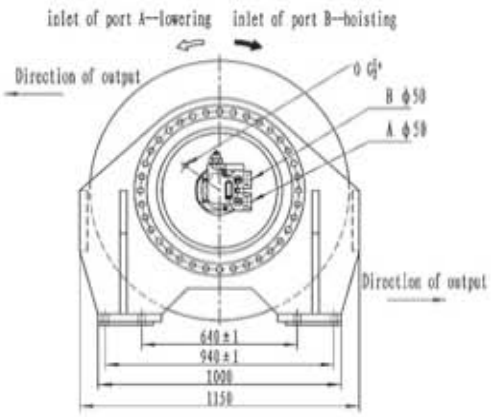
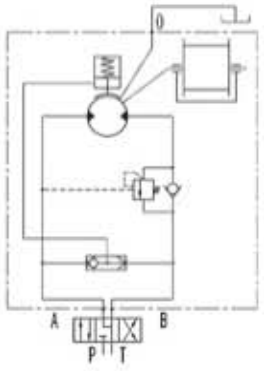
Profile Dimension

	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L (mm)
1	786	698	1018	1078	1547
2	900	812	1132	1192	1661
3	1000	912	1232	1292	1761
4	1100	1012	1332	1392	1805





Hydraulic principle diagram



Basic model	Model	The 1st layer Pull (KN)	The 1st layer Rope speed (m/min)	Total displacement (ml/rev)	Working pressure diff. (MPa)	Supply oil flow (L/min)	Diameter of rope (mm)	Layer	Capacity of rope (m)	Hydraulic motor	Gearbox model	Weight (kg)
1	IYJ67-150-211-32-ZP	150	20	29092	13.9	280	32	1	64	INM5-1000D480101	C67 i=28	2000
								2	134			
								3	211			
	IYJ67-160-211-32-ZP	160	20	29092	14.8	280	32	1	64	INM5-1000D480101	C67 i=28	2000
								2	134			
								3	211			
2	IYJ67-180-224-36-ZP	180	18	33180	14.7	280	36	1	67	INM5-1200D480101	C67 i=28	2220
								2	142			
								3	224			
	IYJ67-200-224-36-ZP	200	18	33180	16.3	280	36	1	67	INM5-1200D480101	C67 i=20	2220
								2	142			
								3	224			
3	IYJ67-250-232-40-ZP	250	13	45752	14.8	280	40	1	69	INM5-1600D480101	C67 i=28	2390
								2	147			
								3	232			
	IYJ67-280-232-40-ZP	280	13	45750	16.6	280	40	1	69	INM5-1600D480101	C67 i=28	2390
								2	147			
								3	232			
	IYJ67-300-214-44-ZP	300	12	50848	16.1	280	44	1	63	INM5-1800D480101	C67 i=28	2450
								2	135			
								3	214			
	IYJ67-320-214-44-ZP	320	12	50848	17.2	280	44	1	63	INM5-1800D480101	C67 i=28	2450
								2	135			
								3	214			

Note:1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
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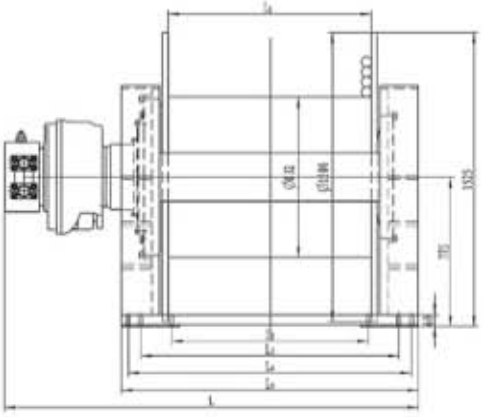
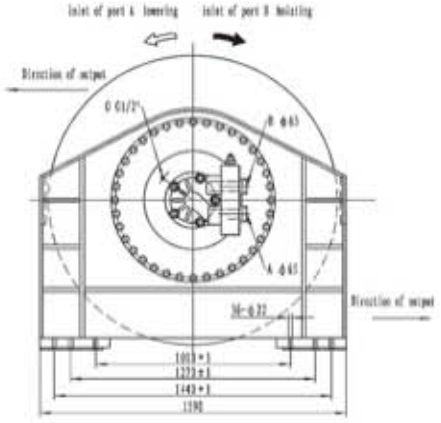
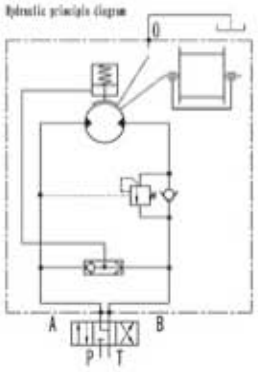
4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.

Profile Dimension

	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L (mm)
1	936	855	1215	1355	1415	1679
2	1100	1019	1379	1519	1579	1843
3	1250	1169	1529	1669	1729	1993







Basic model	Model	The 1st layer		Total displacement	Working pressure diff.	Supply oil flow	Diameter of rope	Layer	Capacity of rope	Hydraulic motor	Gearbox model	Weight
		Pull (KN)	Rope speed (m/min)	(ml/rev)	(MPa)	(L/min)	(mm)		(m)			(kg)
1	IYJ79-300-253-46-ZP	300	16.8	70728	14	480	46	1 2 3 4	55 115 181 253	INM7-2500D720101	C79 i=28	3500
	IYJ79-400-253-46-ZP	400	16.8	83580	16	480	46	1 2 3 4	55 115 181 253	INM7-3000D720101	C79 i=28	3500
2	IYJ79-500-261-52-ZP	500	10	120344	14	480	52	1 2 3 4	55 117 186 261	INM7-4300D720101	C67 i=28	4000
	IYJ79-550-261-52-ZP	550	10	120344	15.5	480	52	1 2 3 4	55 117 186 261	INM7-4300D720101	C67 i=28	4000

Note:1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.
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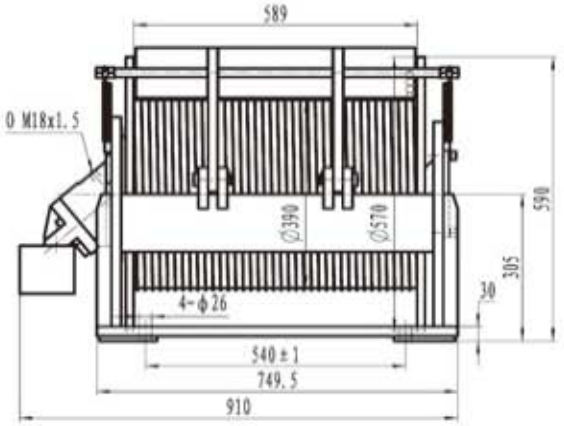
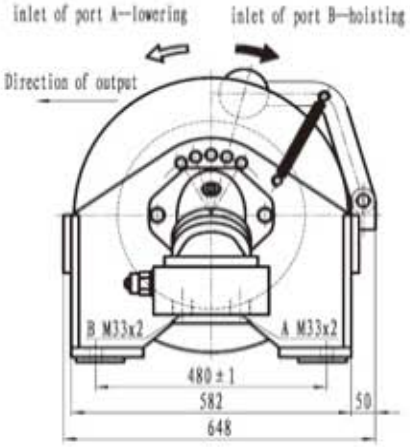
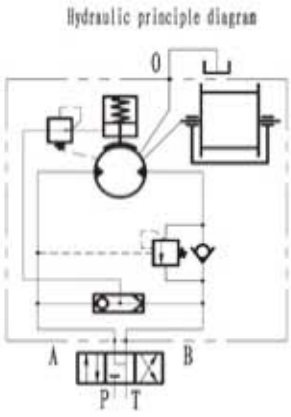
4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.

Profile Dimension

	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L (mm)
1	895	860	1190	1320	1390	1897
2	1055	1020	1350	1480	1550	2057

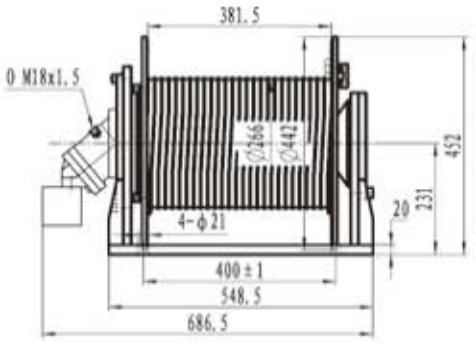


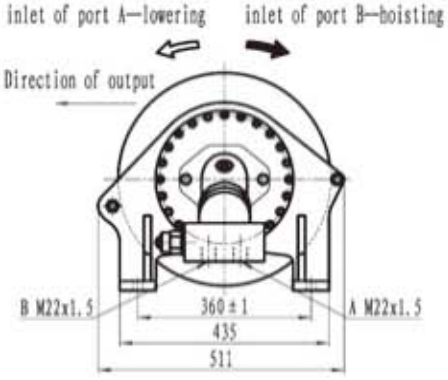


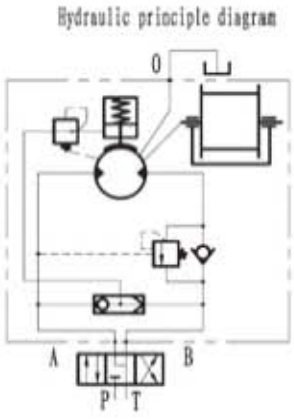


Model	The 1st layer Pull (KN)	The 1st layer Rope speed (m/min)	Total displacement (ml/rew)	Working pressure diff. (MPa)	Supply oil flow (L/min)	Diameter of rope (mm)	Layer	Capacity of rope (m)	Hydraulic motor	Gearbox model	Weight (kg)
IYJ33-20-164-14-ZPG	20	100	1486.7	20.8	130	14	1	46	A2FE56	IGC17W2 i=26.5	920
							2	103			
							3	164			
IYJ33-25-164-14-ZPG	25	100	1486.7	26.1	130	14	1	46	A2FE56	IGC17W2 i=26.5	920
							2	103			
							3	164			
IYJ33-30-144-16-ZPG	30	74	2103.8	22.2	130	16	1	39	A2FE56	IGC17W2 i=37.2	920
							2	90			
							3	144			
IYJ33-35-144-16-ZPG	35	74	2103.8	26.6	130	16	1	39	A2FE56	IGC17W2 i=37.5	920
							2	90			
							3	144			
IYJ33-40-144-16-ZPG	40	68	2362.5	27.0	140	16	1	39	A2FE63	IGC17W2 i=37.5	920
							2	90			
							3	144			

Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.
5. This hydraulic winch series can driven by A6V variable displacement motor.

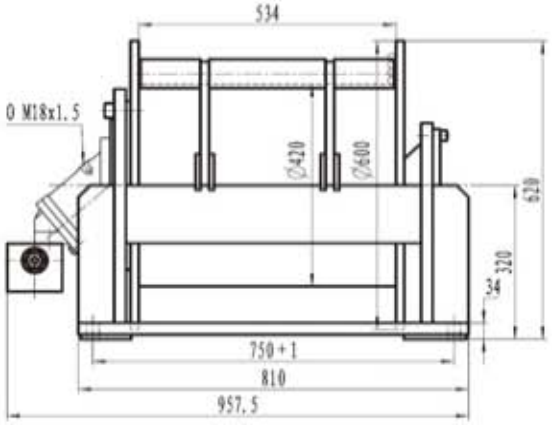


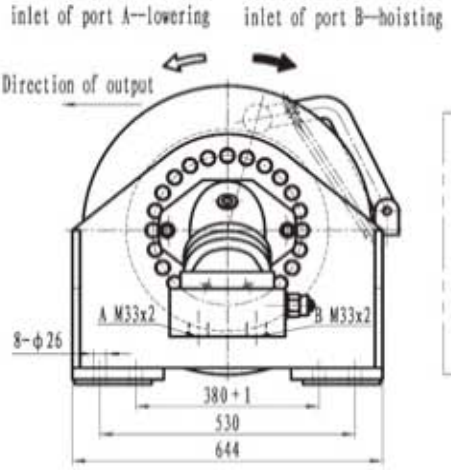


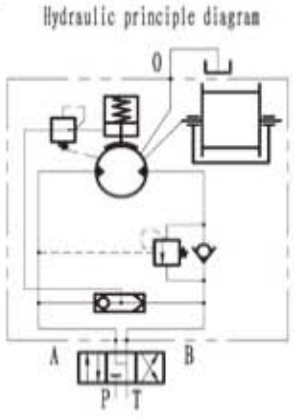


Model	The 1st layer Pull (KN)	The 1st layer Rope speed (m/min)	Total displacement (ml/rev)	Working pressure diff. (MPa)	Supply oil flow (L/min)	Diameter of rope (mm)	Layer	Capacity of rope (m)	Hydraulic motor	Gearbox model	Weight (kg)
IYJ333-35-65-16-ZPG	35	35	1618.2	22.9	73	16	1 2 3	17 40 65	A2FE32	IGC17W3 i=50.57	750
IYJ333-40-65-16-ZPG	40	35	1618.2	26.2	73	16	1 2 3	17 40 65	A2FE32	IGC17W3 i=50.57	750
IYJ333-45-65-16-ZPG	45	35	1618.2	29.4	73	16	1 2 3	17 40 65	A2FE32	IGC17W3 i=50.57	750
IYJ333-50-65-16-ZPG	50	35	2306.0	23.4	101	16	1 2 3	17 40 65	A2FE45	IGC17W3 i=50.57	750
IYJ333-55-65-16-ZPG	55	35	2306.0	25.8	101	16	1 2 3	17 40 65	A2FE45	IGC17W3 i=50.57	750

Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.
5. This hydraulic winch series can driven by A6V variable displacement motor.

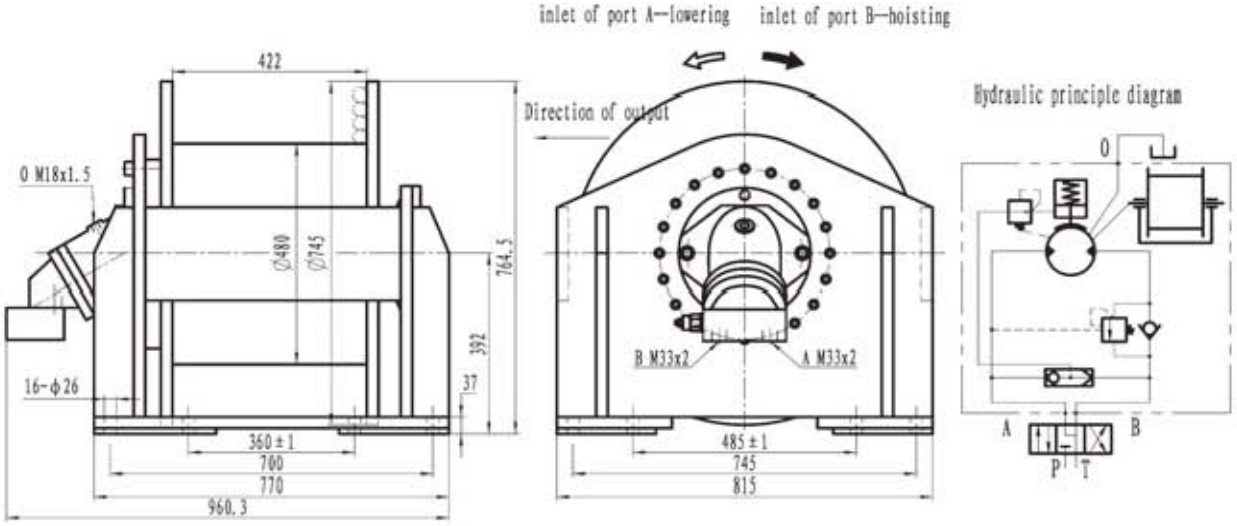






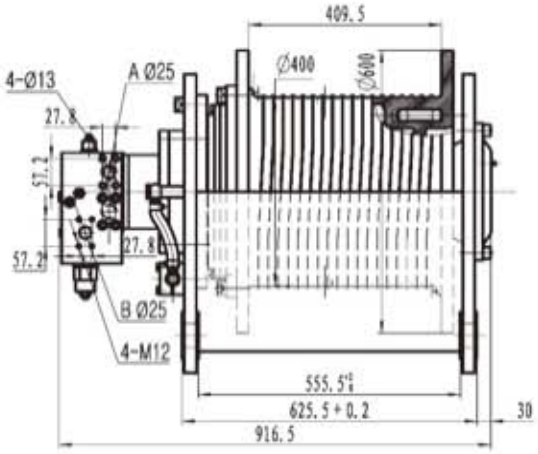
Model	The 1st layer Pull (KN)	The 1st layer Rope speed (m/min)	Total displacement (ml/rev)	Working pressure diff. (MPa)	Supply oil flow (L/min)	Diameter of rope (mm)	Layer	Capacity of rope (m)	Hydraulic motor	Gearbox model	Weight (kg)
IYJ344-60-178-18-ZPG	60	54	3807.5	27.1	160	18	1	37	A2FE56	IGC36W3 i=67.87	960
							2	81			
							3	129			
							4	178			
IYJ344-70-117-20-ZPG	70	47	4403.9	27.5	160	20	1	33	A2FE56	IGC36W3 i=78.50	960
							2	74			
							3	117			
IYJ344-80-117-20-ZPG	80	37	5559.5	25	160	20	1	33	A2FE56	IGC36W3 i=78.50	960
							2	74			
							3	117			
IYJ344-90-108-22-ZPG	90	38	5559.5	28.1	160	22	1	30	A2FE56	IGC36W3 i=99.10	960
							2	67			
							3	108			
IYJ344-100-100-24-ZPG	100	29	7281	24	160	24	1	28	A2FE56	IGC36W3 i=99.10	960
							2	62			
							3	100			
IYJ344-110-100-24-ZPG	110	29	7281	26.5	160	24	1	28	A2FE56	IGC36W3 i=99.10	960
							2	62			
							3	100			
IYJ344-120-100-24-ZPG	120	29	7281	28.6	160	24	1	28	A2FE56	IGC36w3 i=99.10	960
							2	62			
							3	100			

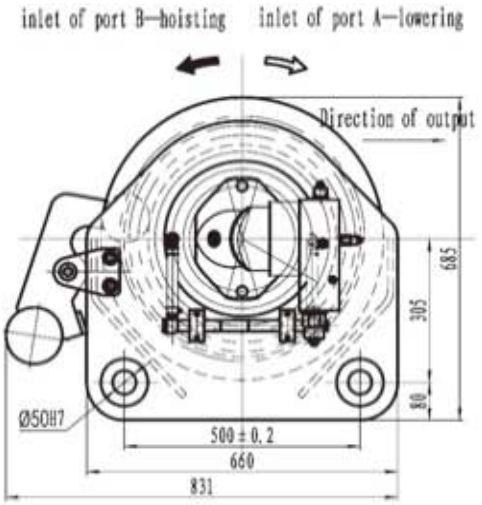
Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.
5. This hydraulic winch series can driven by A6V variable displacement motor.



Model	The 1st layer Pull (KN)	The 1st layer Rope speed (m/min)	Total displacement (ml/rev)	Working pressure diff. (MPa)	Supply oil flow (L/min)	Diameter of rope (mm)	Layer	Capacity of rope (m)	Hydraulic motor	Gearbox model	Weight (kg)
IYJ455-100-115-26-ZPG	100	41	7638	25.4	210	26	1	22	A2FE80	IGC60W3 i=95	1300
							2	51			
							3	82			
							4	115			
IYJ455-110-115-26-ZPG	110	41	7638	27.9	210	26	1	22	A2FE80	IGC60W3 i=95	1300
							2	51			
							3	82			
							4	115			
IYJ455-120-115-26-ZPG	120	34	9181.7	25.4	210	26	1	22	A2FE80	IGC60W3 i=114.2	1300
							2	51			
							3	82			
							4	115			
IYJ455-130-108-28-ZPG	130	34	9181.7	27.6	210	28	1	21	A2FE80	IGC60W3 i=114.2	1300
							2	47			
							3	77			
							4	108			
IYJ455-140-108-28-ZPG	140	30	10725.4	25.4	210	28	1	21	A2FE80	IGC455 i=133.4	1300
							2	47			
							3	77			
							4	108			
IYJ455-150-108-28-ZPG	150	30	10725.4	27.2	210	28	1	21	A2FE80	IGC455 i=133.4	1300
							2	47			
							3	77			
							4	108			

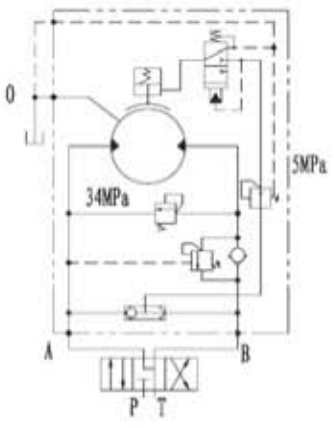
Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.
5. This hydraulic winch series can driven by A6V variable displacement motor.



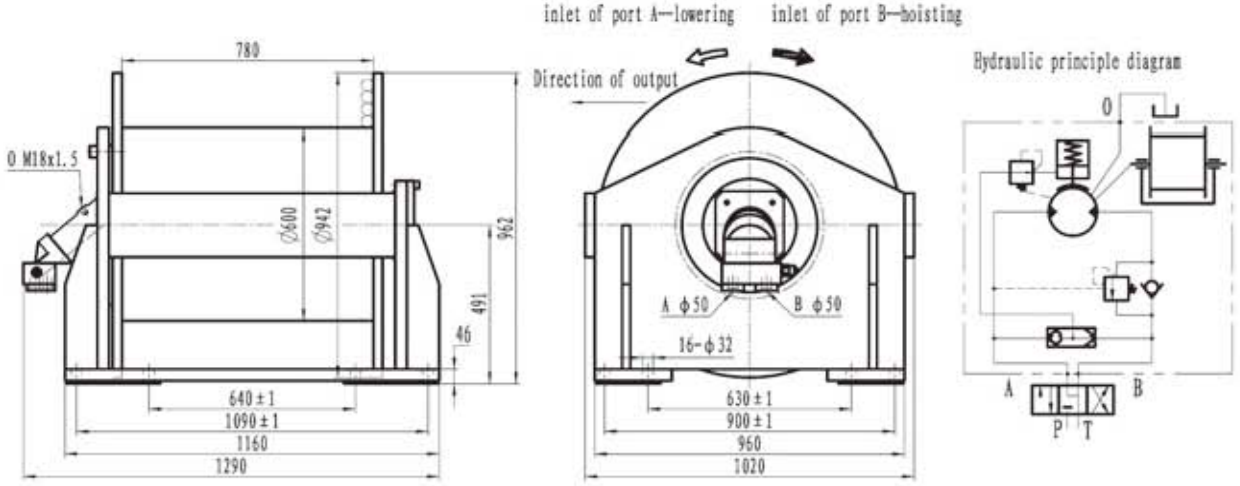


Model	IYJ455-102-82-20-ZPG		
Pull on the 3rd layer(kN)	102		
Speed on the 1st layer(m/min)	42		
Total displacement(ml/r)	6134.4		
Work pressure diff. (MPa)	32		
Supply oil flow(L/min)	220		
Diameter of rope(mm)	20		
layer	1	2	3
Capacity of rope(m)	25	52	82
Hydraulic motor	A2FE80/6.1WVZL10		
Gearbox model	IGC60W3 i=76.68		

Hydraulic principle diagram

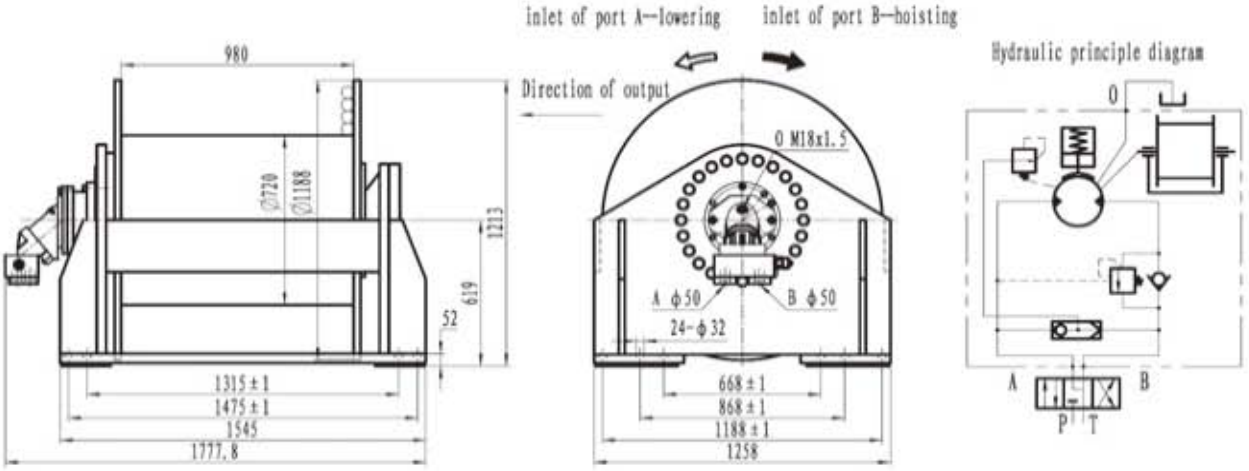


Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.
5. This hydraulic winch series can driven by A6V variable displacement motor.
6. If the winch requires pressing rope by gravity, the winch should be turned 90° when installation, otherwise the rope-roller is invalid.



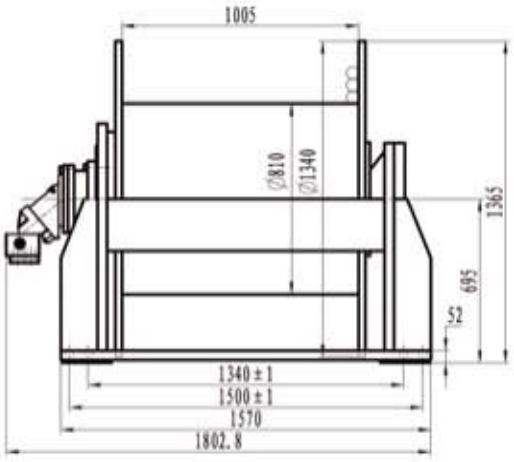
Model	The 1st layer Pull (KN)	The 1st layer Rope speed (m/min)	Total displacement (ml/rev)	Working pressure diff. (MPa)	Supply oil flow (L/min)	Diameter of rope (mm)	Layer	Capacity of rope (m)	Hydraulic motor	Gearbox model	Weight (kg)
IYJ466-150-256-26-ZPG	150	50	13425.5	26.9	363	26	1	55	A2FE160	IGC80W3 i=83.7	1700
							2	119			
							3	188			
							4	256			
IYJ466-160-241-28-ZPG	160	50	13425.5	28.7	363	28	1	51	A2FE160	IGC80W3 i=83.7	1700
							2	111			
							3	176			
							4	241			
IYJ466-170-228-30-ZPG	170	43	15799.4	26.0	363	30	1	48	A2FE160	IGC80W3 i=98.5	1700
							2	104			
							3	166			
							4	228			
IYJ466-180-216-32-ZPG	180	43	15799.4	27.6	363	32	1	45	A2FE160	IGC80W3 i=98.5	1700
							2	98			
							3	156			
							4	216			
IYJ466-200-200-34-ZPG	200	37	18205.4	26.7	363	34	1	42	A2FE160	IGC80W3 i=113.5	1700
							2	93			
							3	148			
							4	200			

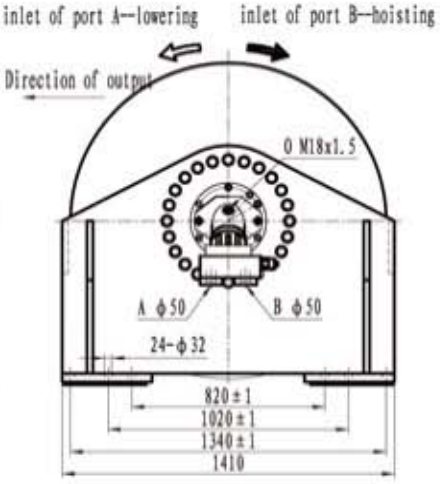
Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.
5. This hydraulic winch series can driven by A6V variable displacement motor.

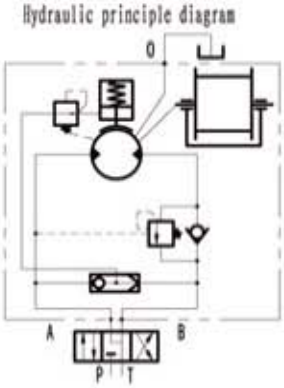


Model	The 1st layer Pull (KN)	The 1st layer Rope speed (m/min)	Total displacement (ml/rev)	Working pressure diff. (MPa)	Supply oil flow (L/min)	Diameter of rope (mm)	Layer	Capacity of rope (m)	Hydraulic motor	Gearbox model	Weight (kg)
IYJ477-200-300-34-ZPG	200	34	25952.7	22.7	400	34	1	65	A2FE125	IGC160W3 i=161.8	2600
							2	139			
							3	220			
							4	300			
IYJ477-250-280-36-ZPG	250	35	25952.7	28.4	400	36	1	61	A2FE125	IGC160W3 i=161.8	2600
							2	132			
							3	209			
							4	280			
IYJ477-300-270-38-ZPG	300	26	33812.3	26.3	400	38	1	58	A2FE125	IGC160W3 i=210.8	2600
							2	125			
							3	199			
							4	270			
IYJ477-320-260-40-ZPG	320	27	33812.3	27.6	400	40	1	55	A2FE160	IGC160W3 i=210.8	2600
							2	120			
							3	190			
							4	260			
IYJ477-350-250-42-ZPG	350	27	33812.3	30.8	400	42	1	52	A2FE160	IGC160W3 i=210.8	2600
							2	114			
							3	183			
							4	250			

Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.
5. This hydraulic winch series can driven by A6V variable displacement motor.



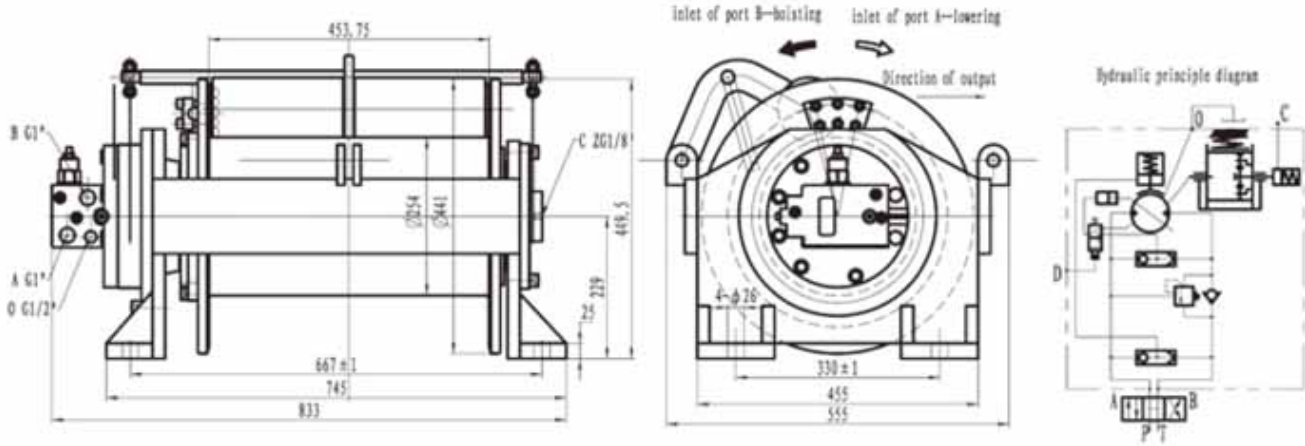




Model	The 1st layer		Total	Working	Supply	Diameter	Layer	Capacity	Hydraulic	Gearbox	Weight
	Pull	Rope speed	displacement	pressure diff.	oil flow	of rope		of rope	motor	model	
	(KN)	(m/min)	(ml/rev)	(MPa)	(L/min)	(mm)		(m)			(kg)
IYJ488-350-199-44-ZPG	350	21.5	46997.2	24.8	400	44	1 2 3	58 125 199	A2FE160	IGC220W3 i=245.9	3200
IYJ488-400-192-46-ZPG	400	22	46997.2	28.1	400	46	1 2 3	55 120 192	A2FE160	IGC220W3 i=293.0	3200
IYJ488-450-185-48-ZPG	450	22	52740.0	28.1	450	48	1 2 3	53 116 185	A2FE180	IGC220W3 i=293.0	3200
IYJ488-480-178-50-ZPG	480	20	56340.0	28.1	450	50	1 2 3	51 111 178	A2FE180	IGC220W3 i=313.0	3200
IYJ488-500-178-50-ZPG	500	20	56340.0	29.3	450	50	1 2 3	51 111 178	A2FE180	IGC220W3 i=313.0	3200

Note:1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.
5. This hydraulic winch series can driven by A6V variable displacement motor.

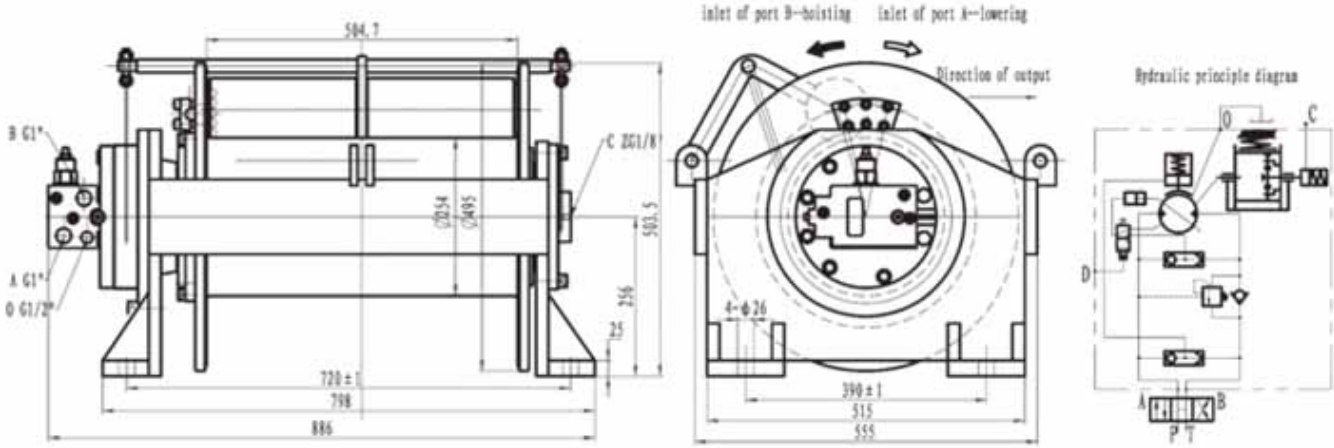
With Clutch



Model	The 1st layer		Total displacement	Working pressure diff.	Supply oil flow	Diameter of rope	Layer	Capacity of rope	Hydraulic motor	Gearbox model
	Pull (KN)	Rope speed (m/min)	(ml/rev)	(MPa)	(L/min)	(mm)		(m)		
IYJ33-25/12.5-142-16-ZPGL	25/12.5	50/100	1909.2/954.6	16.7	119	16	1	23	IM86/43	IGC26W2 i=22.2
							2	48		
							3	76		
							4	108		
							5	142		
IYJ33-30/15-142-16-ZPGL	30/15	50/100	1909.2/954.6	20	119	16	1	23	IM86/43	IGC26W2 i=22.2
							2	48		
							3	76		
							4	108		
							5	142		
IYJ33-35/17.5-142-16-ZPGL	35/17.5	50/100	1909.2/954.6	23.3	119	16	1	23	IM86/43	IGC26W2 i=22.2
							2	48		
							3	76		
							4	108		
							5	142		
IYJ33-40/20-142-16-ZPGL	40/20	50/100	1909.2/954.6	26	119	16	1	23	IM86/43	IGC26W2 i=22.2
							2	48		
							3	76		
							4	108		
							5	142		

Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.
5. The operation of switch off clutch must be carried out under stop of the winch. The operation of switch on clutch should be done without load on drum and put the latch of clutch in proper position when working.
6. Clutch is switched on and off by pneumatic control. The gas pressure at port C is allowed to be 5-7bar. The control valve is provided by user self.

With Clutch



Model	The 1st layer		Total displacement	Working pressure diff.	Supply oil flow	Diameter of rope	Layer	Capacity of rope	Hydraulic motor	Gearbox model
	Pull (KN)	Rope speed (m/min)	(ml/rev)	(MPa)	(L/min)	(mm)		(m)		
IYJ33-50/25-133-20-ZPGL	50/25	30/60	3182/1591	16.7	119	20	1	20	IM86/43	IGC26W2 i=37
							2	44		
							3	71		
							4	100		
							5	133		
IYJ33-60/30-133-20-ZPGL	60/30	30/60	3182/1591	20	119	20	1	20	IM86/43	IGC26W2 i=37
							2	44		
							3	71		
							4	100		
							5	133		
IYJ33-70/35-133-20-ZPGL	70/35	30/60	3182/1591	23.3	119	20	1	20	IM86/43	IGC26W2 i=37
							2	44		
							3	71		
							4	100		
							5	133		
IYJ33-80/40-133-20-ZPGL	80/40	30/60	3182/1591	26.7	119	20	1	20	IM86/43	IGC26W2 i=37
							2	44		
							3	71		
							4	100		
							5	133		

Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
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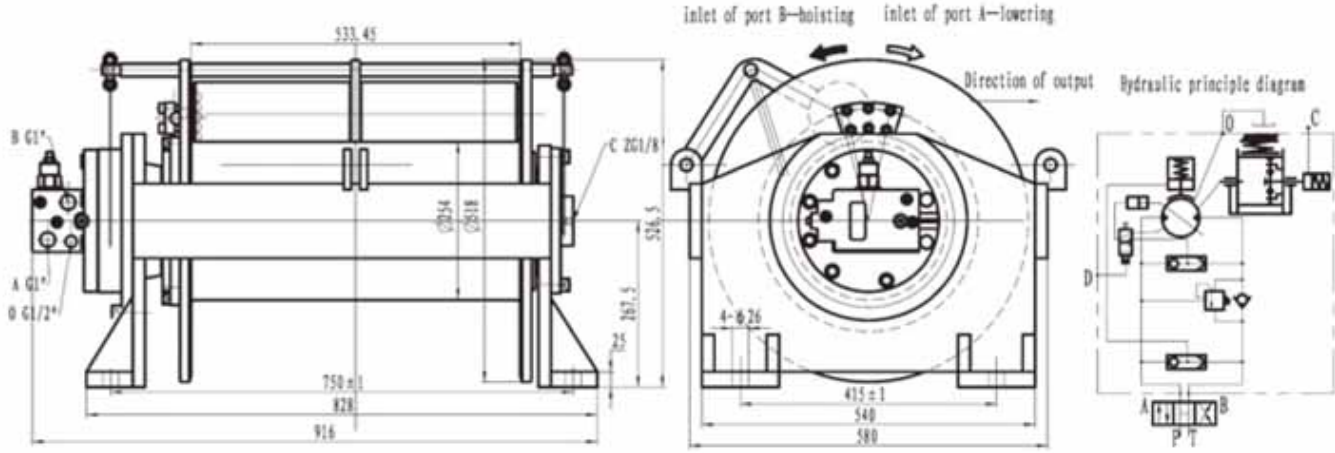
6. Clutch is switched on and off by pneumatic control. The gas pressure at port C is allowed to be 5-7bar. The control valve is provided by user self.

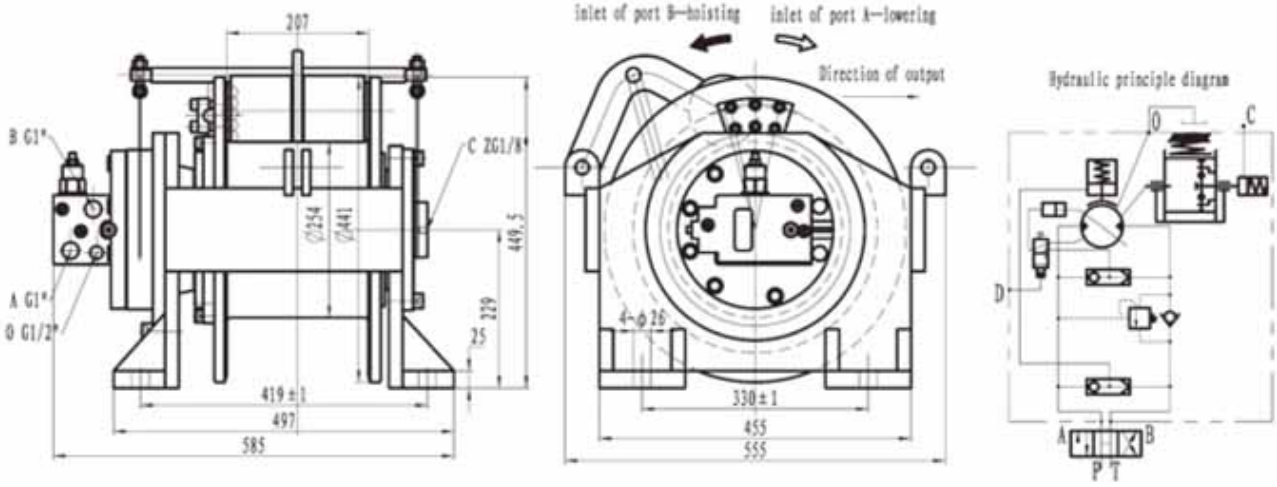
With Clutch



Model	The 1st layer Pull (KN)	The 1st layer Rope speed (m/min)	Total displacement (ml/rev)	Working pressure diff. (MPa)	Supply oil flow (L/min)	Diameter of rope (mm)	Layer	Capacity of rope (m)	Hydraulic motor	Gearbox model
IYJ333-80/40-131-22-ZPGL	80/40	20/40	4538.22/2269.11	17.8	119	22	1	20	IM86/43	IGC26W3 i=52.77
							2	43		
							3	69		
							4	99		
							5	131		
IYJ333-90/45-131-22-ZPGL	90/45	20/40	4538.22/2269.11	20	119	22	1	20	IM86/43	IGC26W3 i=52.77
							2	43		
							3	69		
							4	99		
							5	131		
IYJ333-100/50-131-22-ZPGL	100/50	20/40	4538.22/2269.11	22.2	119	22	1	20	IM86/43	IGC26W3 i=52.77
							2	43		
							3	69		
							4	99		
							5	131		

Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.
5. The operation of switch off clutch must be carried out under stop of the winch. The operation of switch on clutch should be done without load on drum and put the latch of clutch in proper position when working.
6. Clutch is switched on and off by pneumatic control. The gas pressure at port C is allowed to be 5-7bar. The control valve is provided by user self.

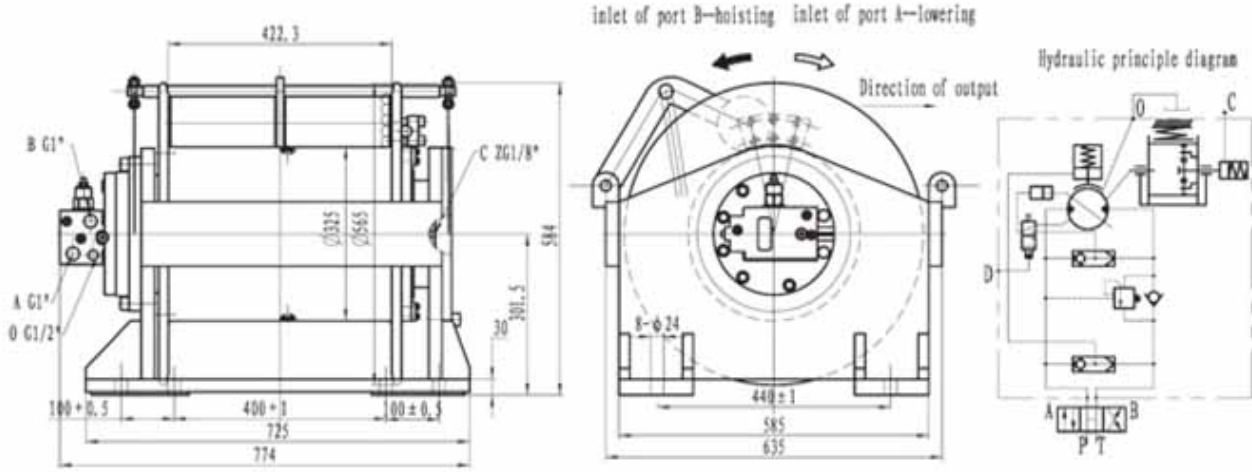
With Clutch



Model	IYJ333-90/45-63-16-ZPGL				
Pull on the 1st layer(kN)	90			45	
Speed on the 1st layer(m/min)	20			40	
Total displacement(ml/r)	4538.22			2269.11	
Work pressure diff.(MPa)	20				
Supply oil flow(L/min)	119				
Diameter of rope(mm)	16				
layer	1	2	3	4	5
Capacity of rope(m)	10	21	34	48	63
Hydraulic motor	IM86/43				
Gearbox model	IGC26 i=52.77				

Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.
5. The operation of switch off clutch must be carried out under stop of the winch. The operation of switch on clutch should be done without load on drum and put the latch of clutch in proper position when working.
6. Clutch is switched on and off by pneumatic control. The gas pressure at port C is allowed to be 5-7bar. The control valve is provided by user self.

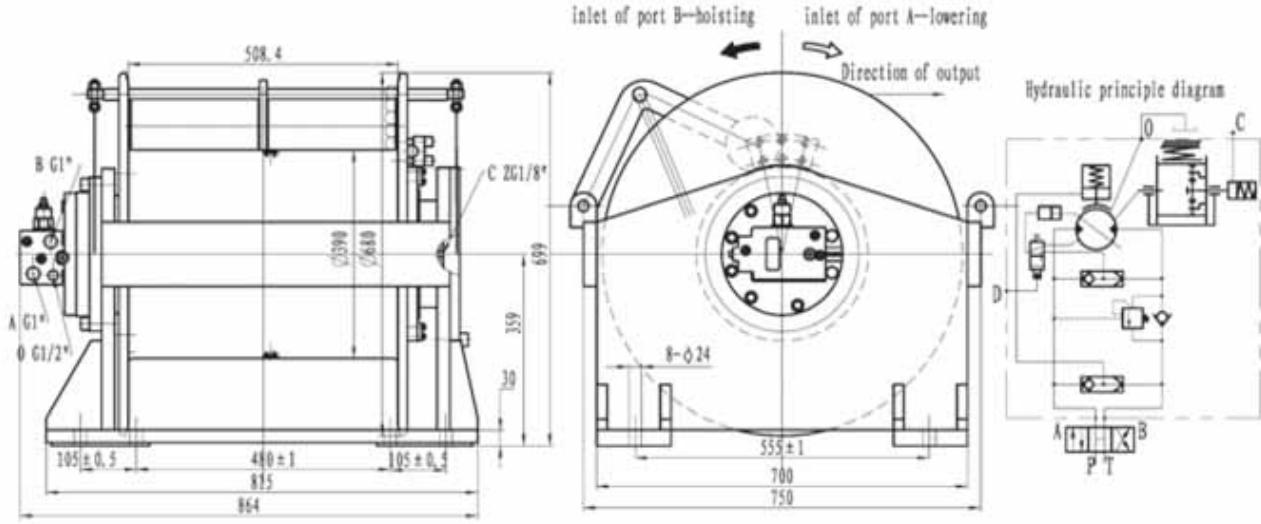
With Clutch



Model	The 1st layer		Total displacement	Working pressure diff.	Supply oil flow	Diameter of rope	Layer	Capacity of rope	Hydraulic motor	Gearbox model
	Pull (KN)	Rope speed (m/min)	(ml/rev)	(MPa)	(L/min)	(mm)		(m)		
IYJ444-60/30-133-20-ZPGL	60/30	29/58	4558/2279	18	130	20	1 2 3 4 5	21 45 72 102 133	IM86/43	IGC36M3 i=53
IYJ444-70/35-133-20-ZPGL	70/35	29/58	4558/2279	21.1	130	20	1 2 3 4 5	21 45 72 102 133	IM86/43	IGC36M3 i=53
IYJ444-80/40-133-20-ZPGL	60/30	29/58	4558/2279	24.1	130	20	1 2 3 4 5	21 45 72 102 133	IM86/43	IGC36M3 i=53
IYJ444-90/45-133-20-ZPGL	60/30	29/58	4558/2279	27.1	130	20	1 2 3 4 5	21 45 72 102 133	IM86/43	IGC36M3 i=53
IYJ444-100/50-133-20-ZPGL	60/30	29/58	4558/2279	30	130	20	1 2 3 4 5	21 45 72 102 133	IM86/43	IGC36M3 i=53

Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.
5. The operation of switch off clutch must be carried out under stop of the winch. The operation of switch on clutch should be done without load on drum and put the latch of clutch in proper position when working.
6. Clutch is switched on and off by pneumatic control. The gas pressure at port C is allowed to be 5-7bar. The control valve is provided by user self.

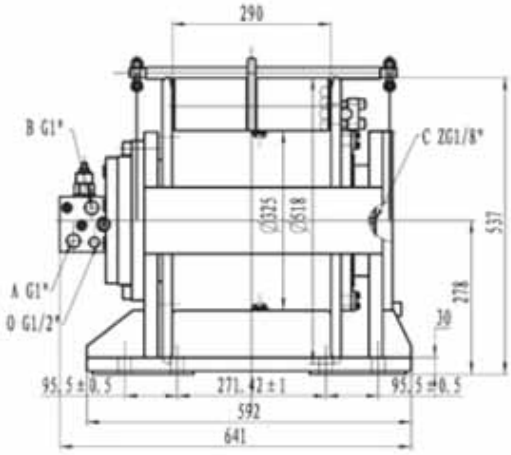
With Clutch

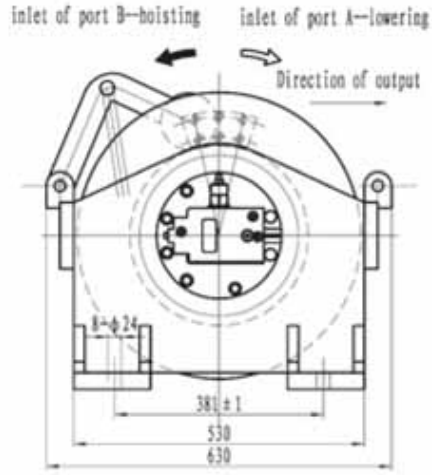


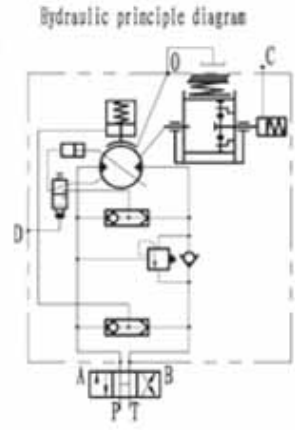
Model	The 1st layer Pull (KN)	The 1st layer Rope speed (m/min)	Total displacement (ml/rev)	Working pressure diff. (MPa)	Supply oil flow (L/min)	Diameter of rope (mm)	Layer	Capacity of rope (m)	Hydraulic motor	Gearbox model
IYJ444-110/55-160-24-ZPGL	110/55	19/38	8522.6/4261.3	21	130	24	1	26	IM86/43	IGC36W3 i=99.1
							2	55		
							3	87		
							4	122		
							5	160		
IYJ444-120/60-160-24-ZPGL	120/60	19/38	8522.6/4261.3	23	130	24	1	26	IM86/43	IGC36W3 i=99.1
							2	55		
							3	87		
							4	122		
							5	160		
IYJ444-130/65-160-24-ZPGL	130/65	19/38	8522.6/4261.3	24.7	130	24	1	26	IM86/43	IGC36W3 i=99.1
							2	55		
							3	87		
							4	122		
							5	160		
IYJ444-140/70-160-24-ZPGL	140/70	19/38	8522.6/4261.3	26.6	130	24	1	26	IM86/43	IGC36W3 i=99.1
							2	55		
							3	87		
							4	122		
							5	160		
IYJ444-150/75-160-24-ZPGL	150/75	19/38	8522.6/4261.3	28.5	130	24	1	26	IM86/43	IGC36W3 i=99.1
							2	55		
							3	87		
							4	122		
							5	160		

Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.
5. The operation of switch off clutch must be carried out under stop of the winch. The operation of switch on clutch should be done without load on drum and put the latch of clutch in proper position when working.
6. Clutch is switched on and off by pneumatic control. The gas pressure at port C is allowed to be 5-7bar. The control valve is provided by user self.

With Clutch



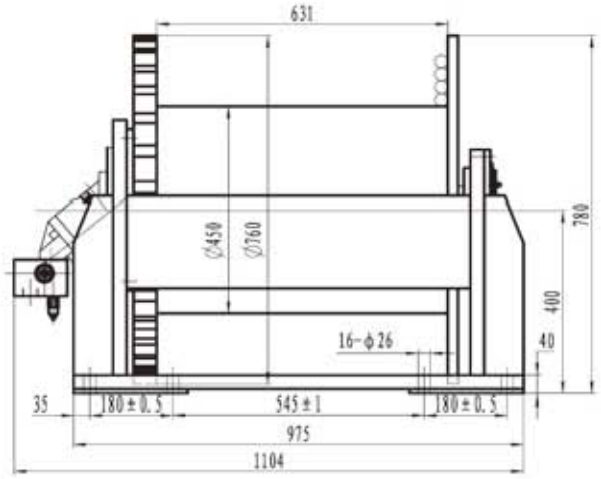


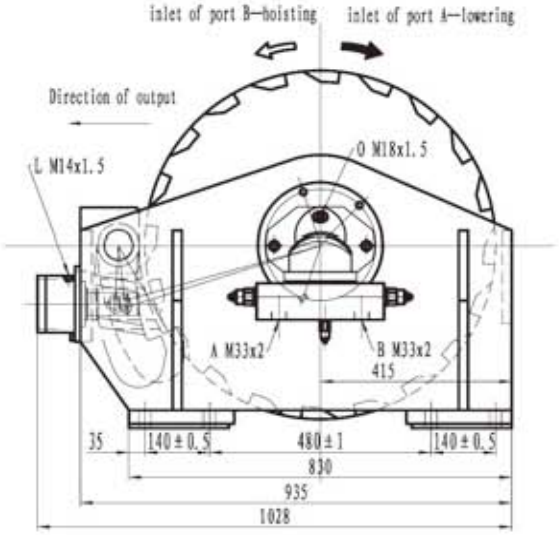


IYJ444-150/75-71-20-ZPGL				
Pull on the 1st layer(kN)	150		75	
Speed on the 1st layer(m/min)	12.2		24.4	
Total displacement(ml/r)	9560		4780	
Work pressure diff.(MPa)	21			
Supply oil flow(L/min)	120			
Diameter of rope(mm)	20			
layer	1	2	3	4
Capacity of rope(m)	15	32	50	71
Hydraulic motor	IM86/43			
Gearbox model	IGC36 i=111.2			

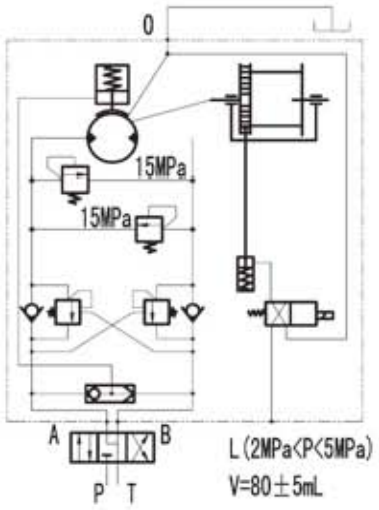
Note: 1. Total displacement represents the capacity of oil supply pre revolution.
2. Flow of oil supply indicates theoretical flow of pump when the volumetric efficiency considered as 90 percent.
3. Capacity of rope is theoretical capacity of rope. The practical available capacity of rope should subtract the retained 3m wire in case of rope head is out of hand.
4. Working pressure difference represents the pressure drop between Port A and Port B.
5. The winch is not designed for operations involving lifting or moving personnel.
6. The operation of switch off clutch must be carried out under stop of the winch. The operation of switch on clutch should be done without load on drum and put the latch of clutch in proper position when working.
7. Clutch is switched on and off by pneumatic control. The gas pressure at port C is allowed to be 5-7bar. The control valve is provided by user self.

IYJ344-50-167-26-ZPGS Hydraulic Winch





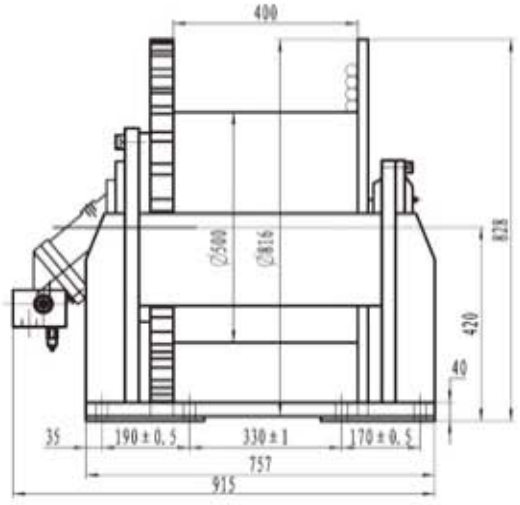
Hydraulic principle diagram

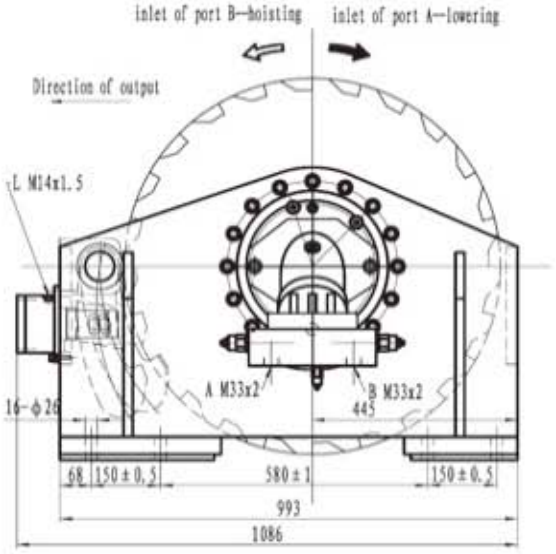


Model	IYJ344-50-167-26-ZPGS			
Pull on the 4th layer(kN)	50			
Support pull(kN)	170			
Speed(m/min)	7.4			
Total displacement(ml/r)	9949.15			
Work pressure diff.(MPa)	13			
Supply oil flow(L/min)	48			
Diameter of rope(mm)	26			
layer	1	2	3	4
Capacity of rope(m)	35	75	119	167
Hydraulic motor	A2FE56/6.1WVAL10			
Gearbox model	IGC36 i=177.35			

Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.
5. This hydraulic winch series can driven by A6V variable displacement motor.

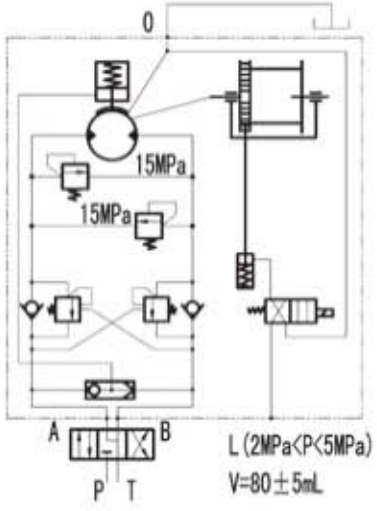
IYJ455-130-113-26-ZPGS Hydraulic Winch





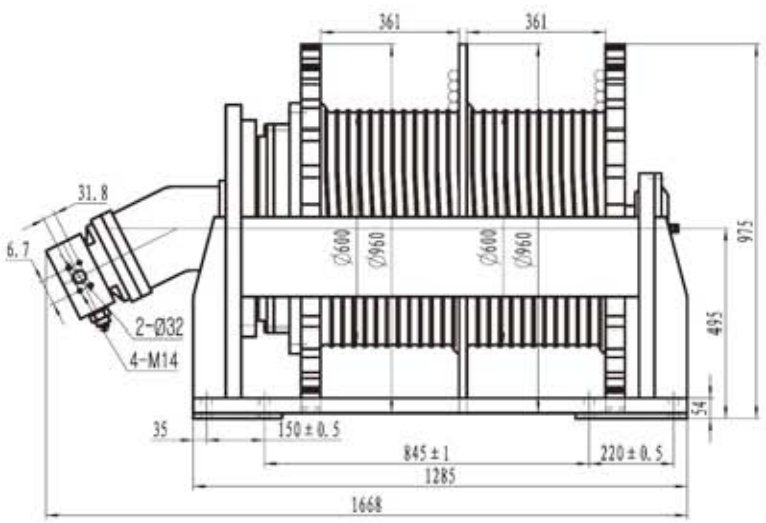
Model	IYJ455-130-113-26-ZPGS			
Pull on the 4th layer(kN)	130			
Speed(m/min)	6			
Total displacement(ml/r)	16602.5			
Work pressure diff.(MPa)	21			
Supply oil flow(L/min)	58			
Diameter of rope(mm)	26			
layer	1	2	3	4
Capacity of rope(m)	24	52	81	113
Hydraulic motor	A2FE107/6.1WVZL10			
Gearbox model	IGC60 i=155.6			

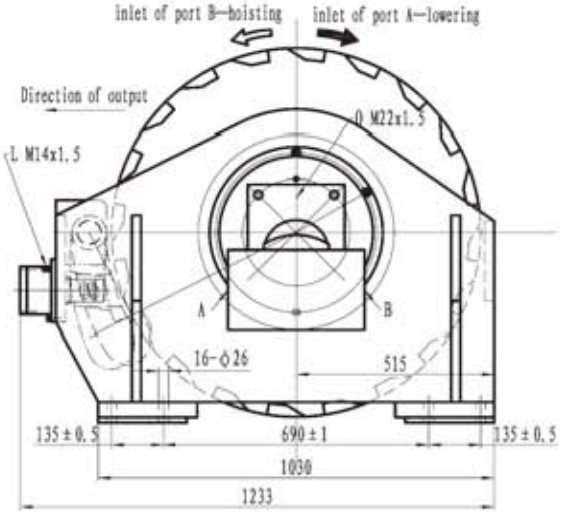
Hydraulic principle diagram



Note:1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.
5. This hydraulic winch series can driven by A6V variable displacement motor.

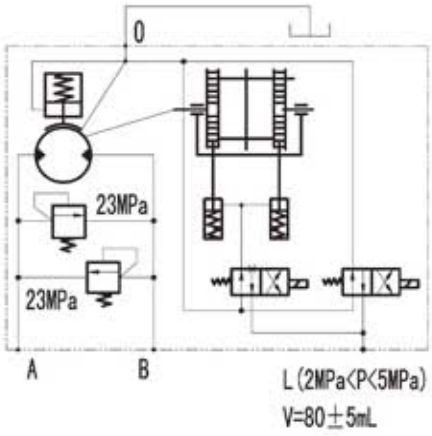
IYJ477-153x2-107x2-28-ZPGS Hydraulic Winch





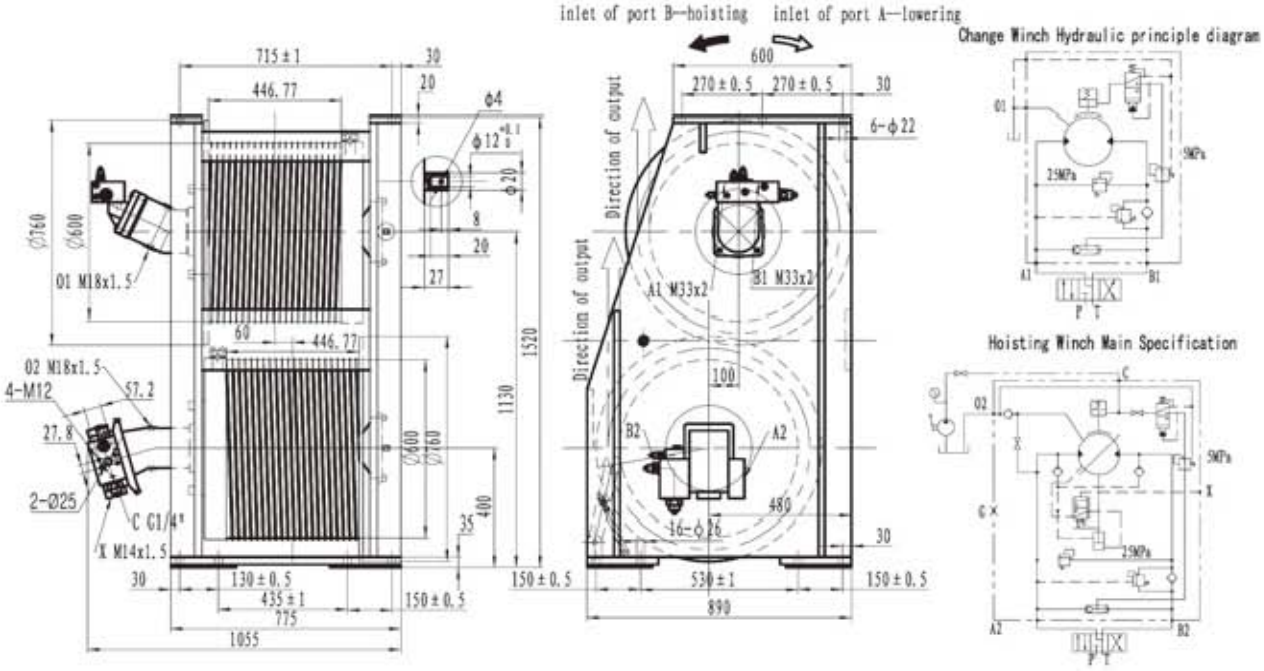
Model	IYJ477-153x2-107x2-28-ZPGS			
Pull on the 4th layer(kN)	153x2			
Speed(m/min)	10			
Total displacement(ml/r)	46250			
Work pressure diff.(MPa)	21			
Supply oil flow(L/min)	220			
Diameter of rope(mm)	28			
layer	1	2	3	4
Capacity of rope(m)	23	49	77	107
Hydraulic motor	A2F250W5Z1			
Gearbox model	IGC160 i=185			

Hydraulic principle diagram



Note:1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.
5. This hydraulic winch series can driven by A6V variable displacement motor.

10T Crane Hydraulic Dual Winch



Hoisting Winch Hydraulic principle diagram

Model	IYJ344-58-84-20-ZPG	
Pull on the 2nd layer(kN)	57.5	15
Speed on the 1st layer(m/min)	33	68
Work pressure diff. (MPa)	23	14
Supply oil flow(L/min)	121	
Diameter of rope(mm)	20	
layer	1	2
Capacity of rope(m)	40	84

Change Winch Main Specification

Model	IYJ344-58-84-20-ZPG	
Pull on the 2nd layer(kN)	57.5	
Speed on the 1st layer(m/min)	33	
Work pressure diff. (MPa)	23	
Supply oil flow(L/min)	121	
Diameter of rope(mm)	20	
layer	1	2
Capacity of rope(m)	40	84

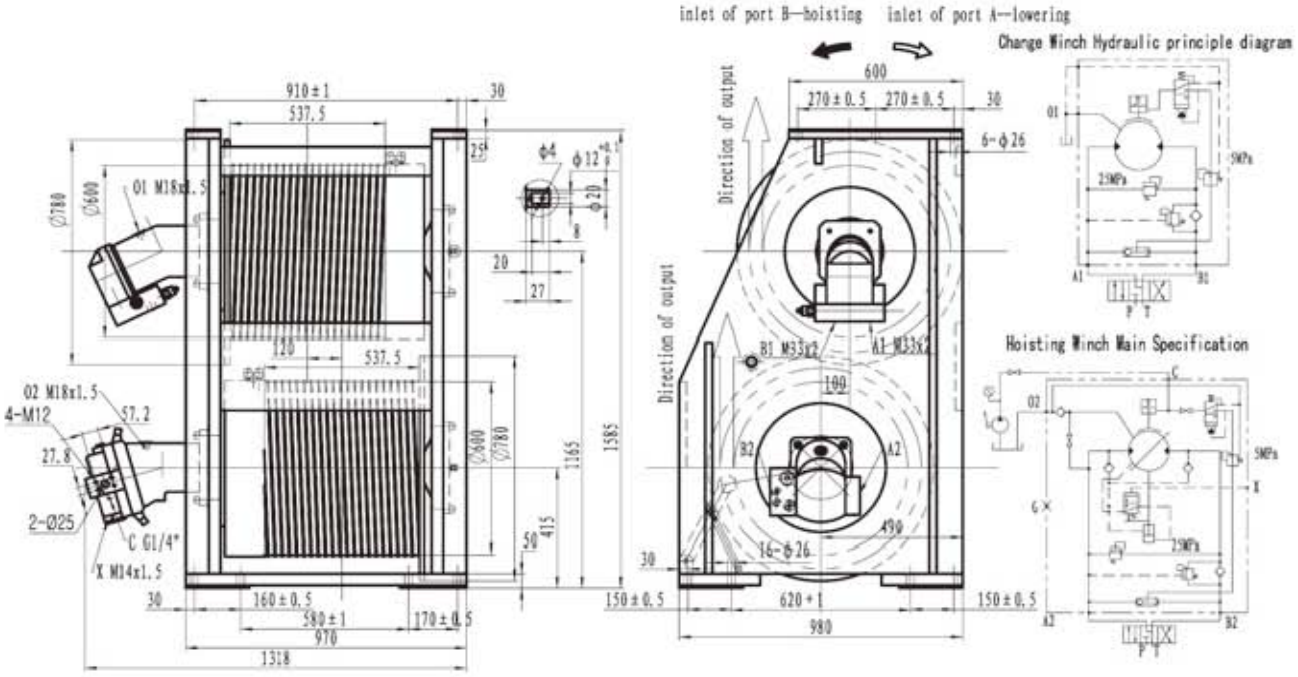
Note:1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.

2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.

3. The winch is not designed for operation involving lifting or moving personnel.

4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.

15T Crane Hydraulic Dual Winch



Hoisting Winch Hydraulic principle diagram

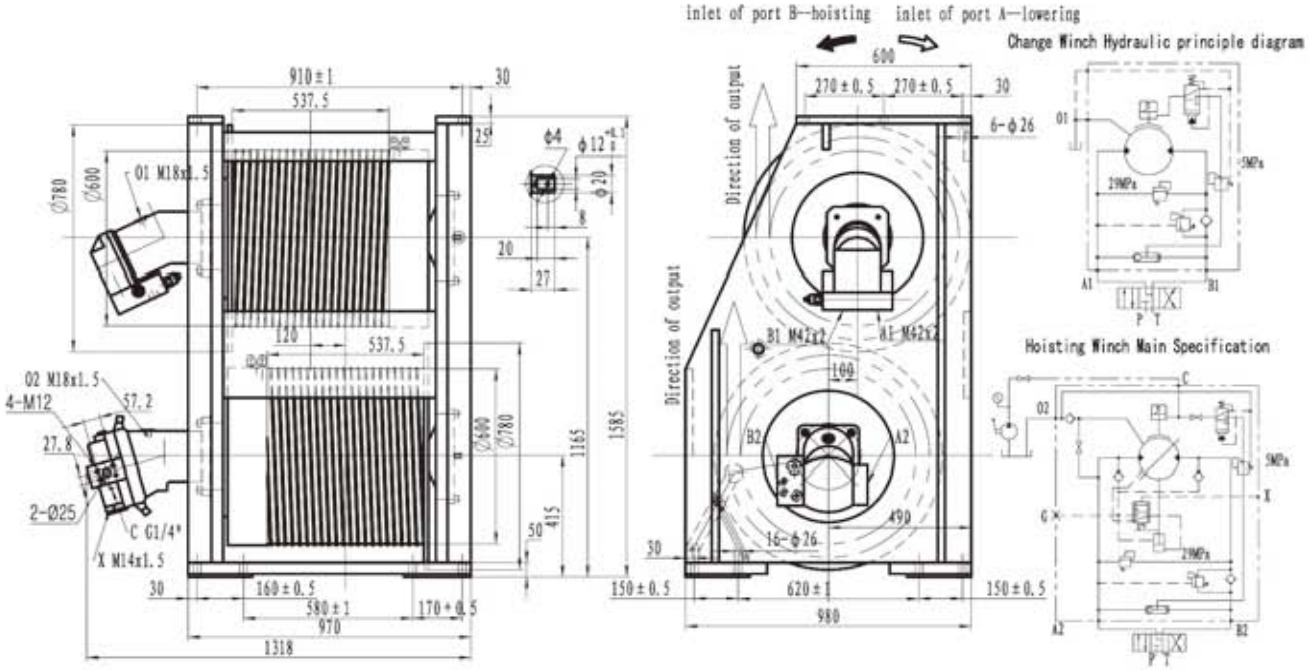
Model	IYJ344-86-84-24-ZPG	
Pull on the 2nd layer (kN)	86.3	30
Speed on the 1st layer (m/min)	33	68
Work pressure diff. (MPa)	24	17
Supply oil flow (L/min)	163	
Diameter of rope (mm)	24	
layer	1	2
Capacity of rope (m)	40	84

Change Winch Main Specification

Model	IYJ344-86-84-24-ZPG	
Pull on the 2nd layer (kN)	86.3	
Speed on the 1st layer (m/min)	33	
Work pressure diff. (MPa)	24	
Supply oil flow (L/min)	163	
Diameter of rope (mm)	24	
layer	1	2
Capacity of rope (m)	40	84

Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.

20T Crane Hydraulic Dual Winch



Hoisting Winch Hydraulic principle diagram

Model	IYJ455-115-84-24-ZPG	
Pull on the 2nd layer(kN)	115	40
Speed on the 1st layer(m/min)	39	72
Work pressure diff. (MPa)	27	19
Supply oil flow(L/min)	248	
Diameter of rope(mm)	24	
layer	1	2
Capacity of rope(m)	40	84

Change Winch Main Specification

Model	IYJ455-115-84-24-ZPG	
Pull on the 2nd layer(kN)	115	
Speed on the 1st layer(m/min)	39	
Work pressure diff. (MPa)	27	
Supply oil flow(L/min)	248	
Diameter of rope(mm)	24	
layer	1	2
Capacity of rope(m)	40	84

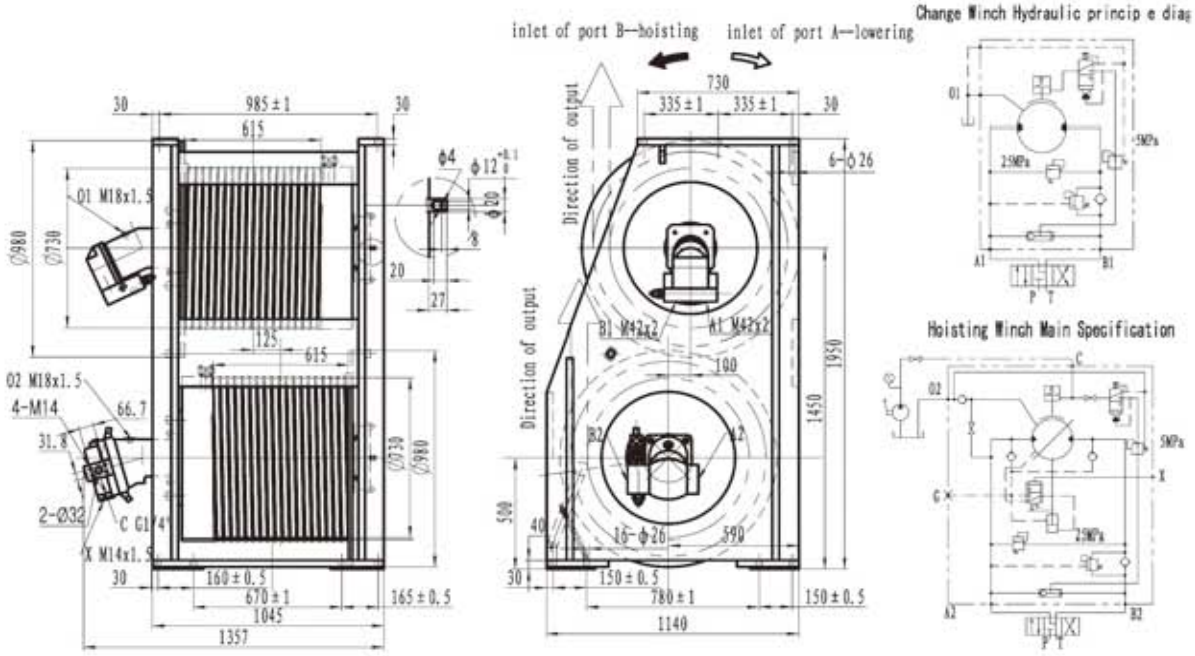
Note:1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.

2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.

3. The winch is not designed for operation involving lifting or moving personnel.

4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.

25T Crane Hydraulic Dual Winch



Hoisting Winch Hydraulic principle diagram

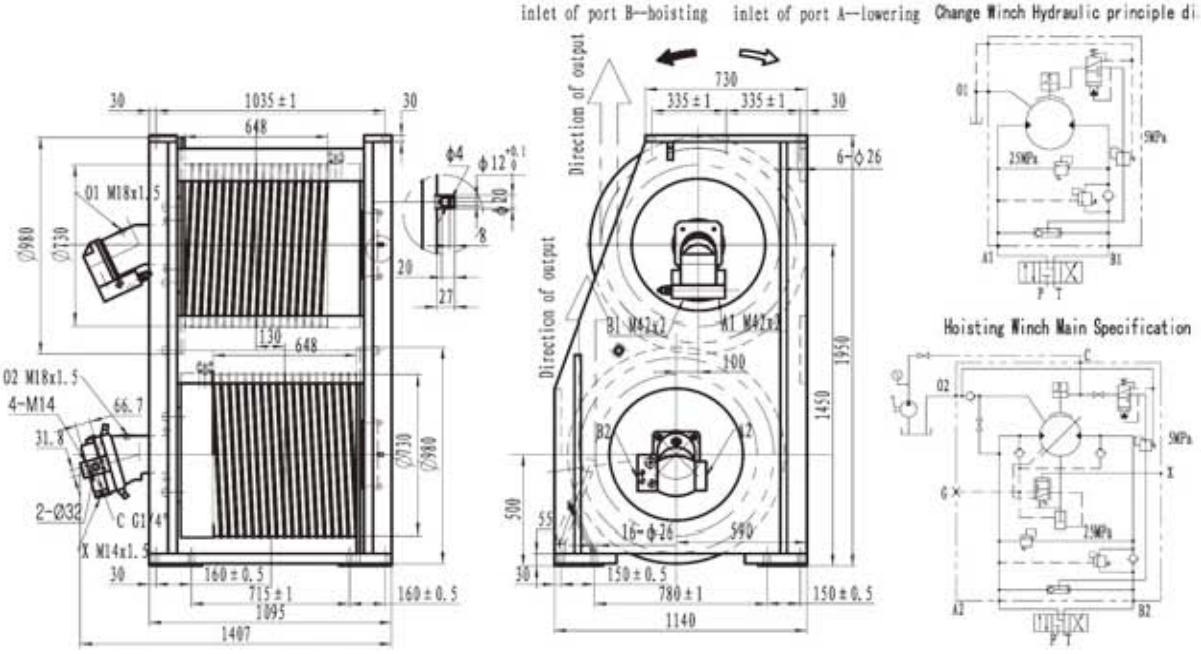
Model	IYJ466-138-90-32-ZPG	
Pull on the 2nd layer(kN)	138	27.6
Speed on the 1st layer(m/min)	30	60
Work pressure diff. (MPa)	23	23
Supply oil flow(L/min)	273	
Diameter of rope(mm)	32	
layer	1	2
Capacity of rope(m)	43	90

Change Winch Main Specification

Model	IYJ466-138-90-32-ZPG	
Pull on the 2nd layer(kN)	138	
Speed on the 1st layer(m/min)	26	
Work pressure diff. (MPa)	21	
Supply oil flow(L/min)	261	
Diameter of rope(mm)	32	
layer	1	2
Capacity of rope(m)	43	90

Note:1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.

30T Crane Hydraulic Dual Winch



Hoisting Winch Hydraulic principle diagram

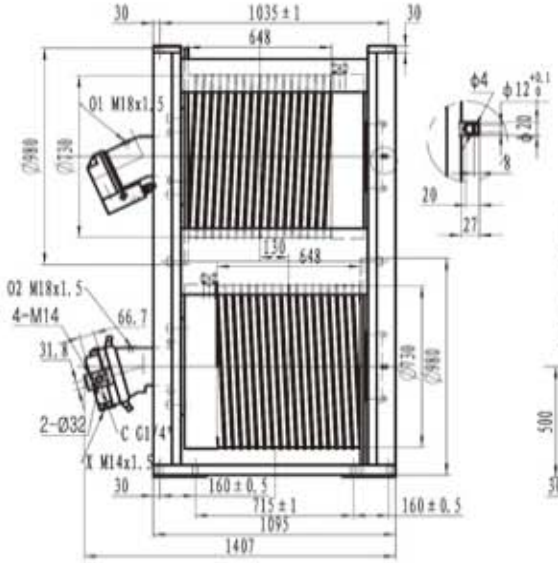
Model	IYJ466-170-90-34-ZPG	
Pull on the 2nd layer(kN)	170	45
Speed on the 1st layer(m/min)	32	66
Work pressure diff. (MPa)	29	17
Supply oil flow(L/min)	278	
Diameter of rope(mm)	34	
layer	1	2
Capacity of rope(m)	43	90

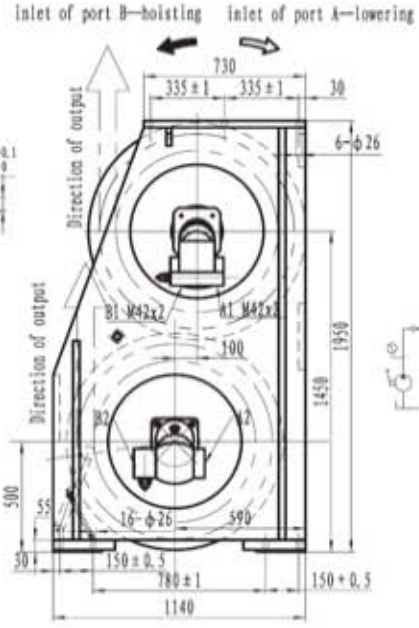
Change Winch Main Specification

Model	IYJ466-160-90-34-ZPG	
Pull on the 2nd layer(kN)	160	
Speed on the 1st layer(m/min)	32	
Work pressure diff. (MPa)	28	
Supply oil flow(L/min)	278	
Diameter of rope(mm)	34	
layer	1	2
Capacity of rope(m)	43	90

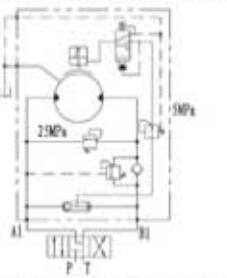
Note: 1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.
3. The winch is not designed for operation involving lifting or moving personnel.
4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.

35T Crane Hydraulic Dual Winch

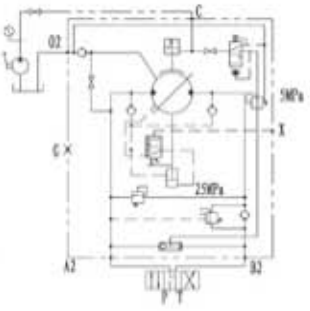




Change Winch Hydraulic principle di



Hoisting Winch Main Specification



Hoisting Winch Hydraulic principle diagram

Model	IYJ466-200-85-36-ZPG	
Pull on the 2nd layer(kN)	200	53
Speed on the 1st layer(m/min)	27	56
Work pressure diff. (MPa)	29	17
Supply oil flow(L/min)	278	
Diameter of rope(mm)	36	
layer	1	2
Capacity of rope(m)	40	85

Change Winch Main Specification

Model	IYJ466-175-90-34-ZPG	
Pull on the 2nd layer(kN)	175	
Speed on the 1st layer(m/min)	27	
Work pressure diff. (MPa)	28	
Supply oil flow(L/min)	261	
Diameter of rope(mm)	34	
layer	1	2
Capacity of rope(m)	43	90

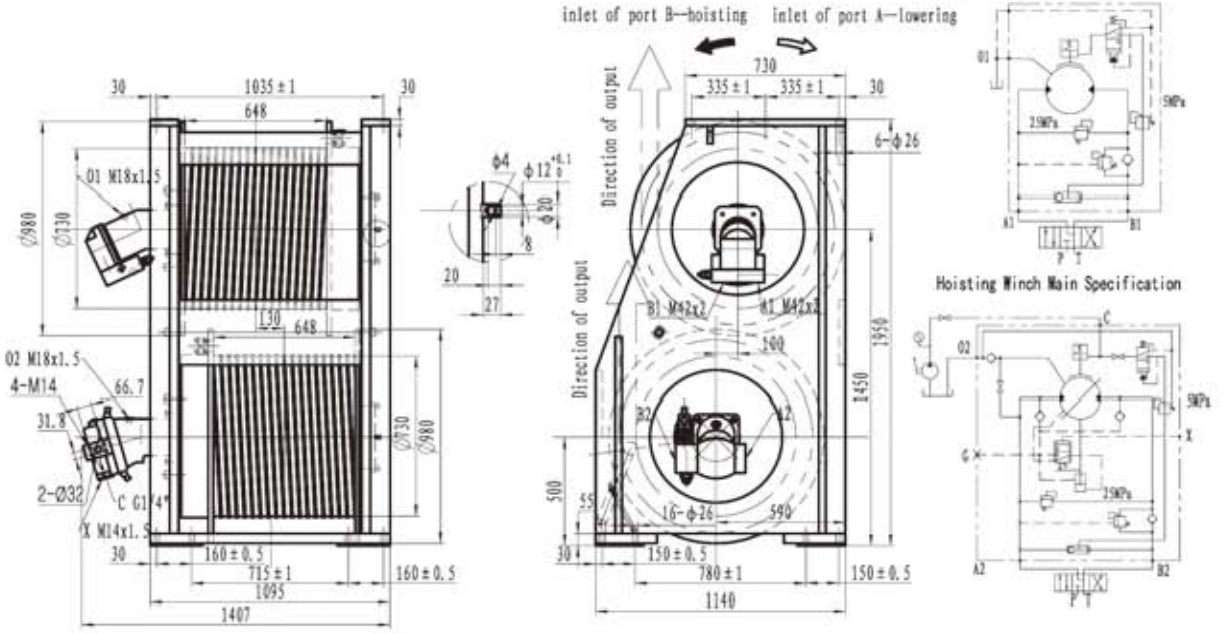
Note:1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.

2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.

3. The winch is not designed for operation involving lifting or moving personnel.

4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.

50T Crane Hydraulic Dual Winch



Hoisting Winch Hydraulic principle diagram

Model	IYJ466-140-130-34-ZPG	
Pull on the 2nd layer(kN)	140	40
Speed on the 1st layer(m/min)	38	77.7
Work pressure diff. (MPa)	29	17
Supply oil flow(L/min)	278	
Diameter of rope(mm)	34	
layer	1	2
Capacity of rope(m)	43	90

Change Winch Main Specification

Model	IYJ466-130-90-34-ZPG	
Pull on the 2nd layer(kN)	130	
Speed on the 1st layer(m/min)	38	
Work pressure diff. (MPa)	28	
Supply oil flow(L/min)	278	
Diameter of rope(mm)	34	
layer	1	2
Capacity of rope(m)	43	90

Note:1. The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.

2. The directional control valve should be of a "Y" or "H" type in neutral position to assure the brake and activated.

3. The winch is not designed for operation involving lifting or moving personnel.

4. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.