

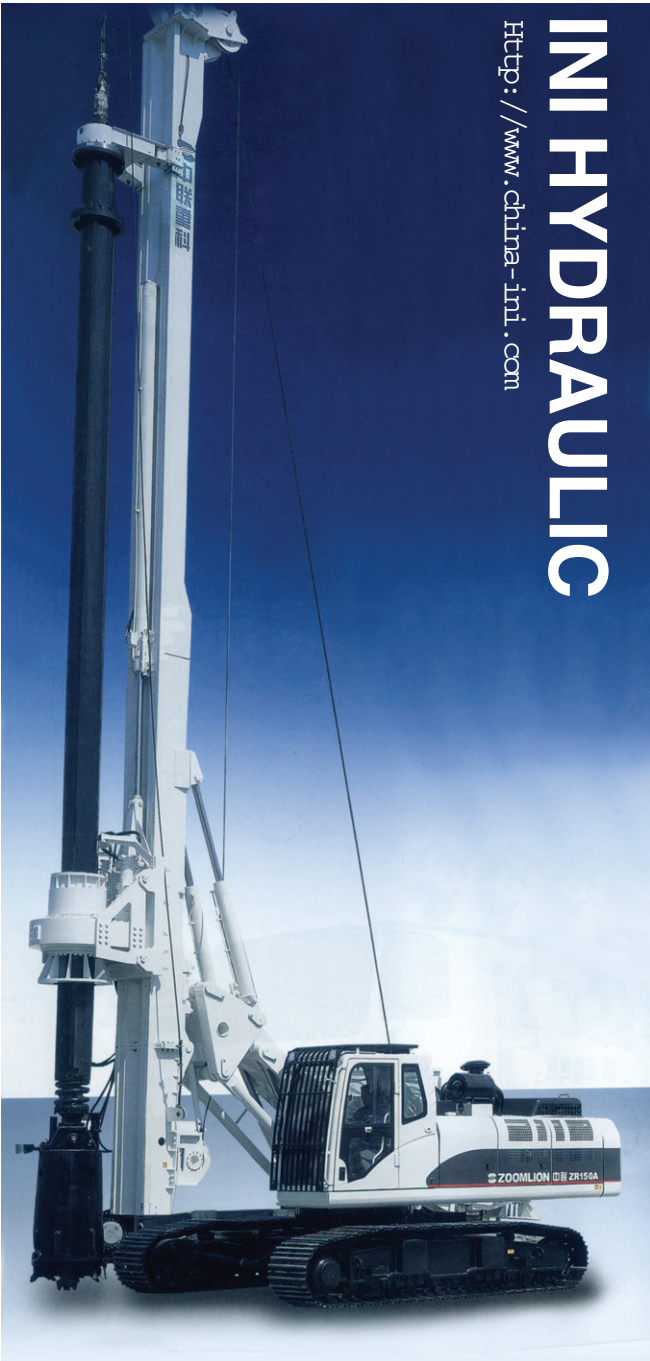
ini[®] NINGBO DAGANG INI
HYDRAULIC CO.,LTD.



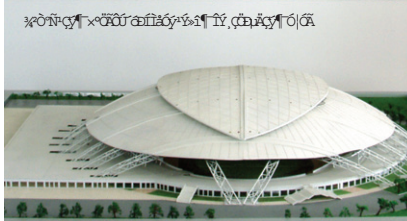
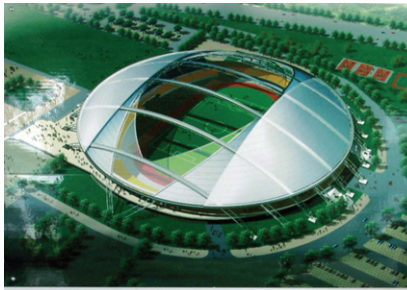
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2010 Catalogue

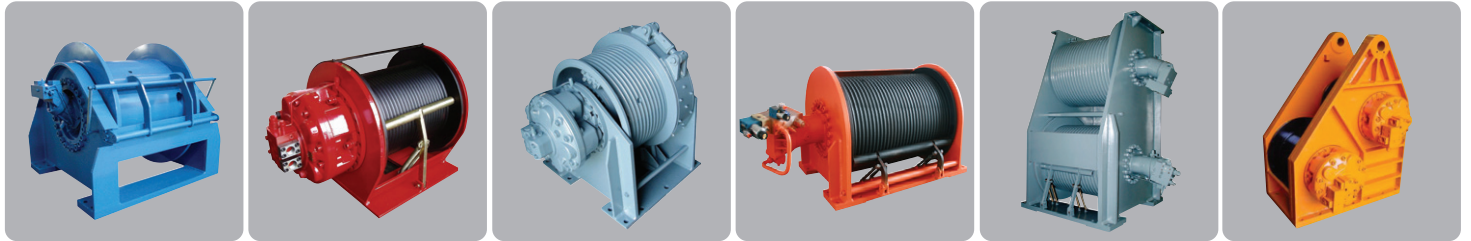
Product Shows & Applications



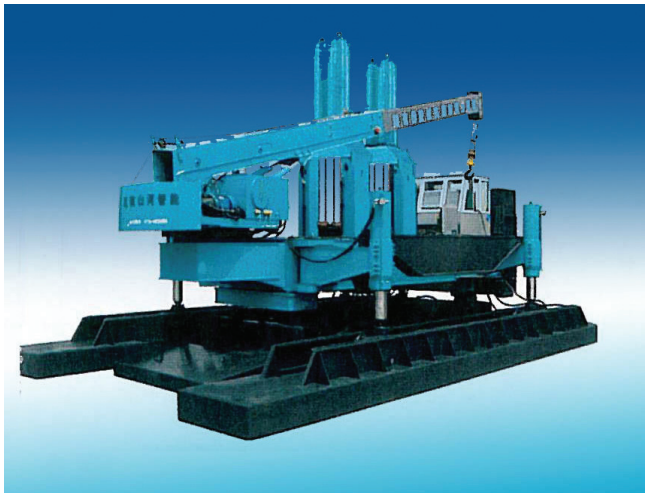
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Product Shows & Applications



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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 m², with 38,000 m² 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.

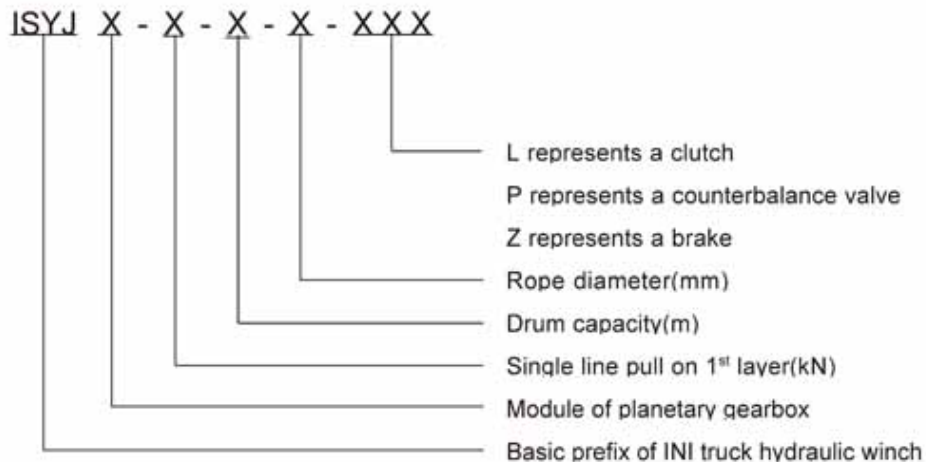
The company has more than 150 advanced manufacturing equipment, half of which were imported. 60% of all the machines are CNC, including three-dimension coordinate measuring machine, universal gear measuring machine, digital ultrasonic inspection machine, and universal tool microscope. A static hydrostatic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

ISYJ Hydraulic Winch Series

1. Brief Introduction

The ISYJ hydraulic winch series are patent products of our company and consist of a variety of distributors with shuttle valves controlling the brake and single or dual counterbalance valves, INM type hydraulic motor, Z type brake, C type planetary gearbox, drum, frame and so on(to see hydraulic diagram). 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 at start-up and operation, low noise and energy consumption, and have a compact figure and good economic value. Therefore, the series have been widely applied to hoisting salvage vehicles, cross country vehicle, military heavy truck, bulldozer. It can be used to rescue various vehicles damaged or involved in mud and also used to pull heavy objects and to save self. ISYJ series hydraulic winches have been well sold in China and also have been exported to Netherlands, the Middle-east, the south-east Asia, Korea and so on.

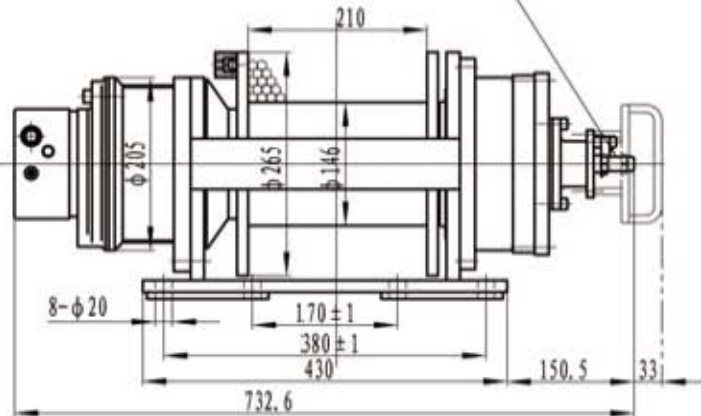
2. Model Options



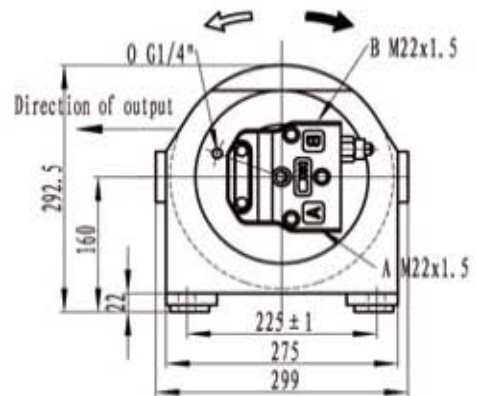
3. Options Example

ISYJ2.5-10-103-8-ZPL represents that the modules of the gearbox of the winch is 2.5. The rated single pull on 1st layer is 10kN, drum capacity is 103m, rope diameter is 8 mm. The winch is fitted with brake, counterbalance valve and clutch.

After pulling hand level out, drum can rotate freely.



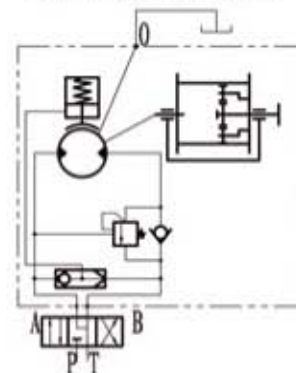
inlet of port A—lowering inlet of port B—hoist.



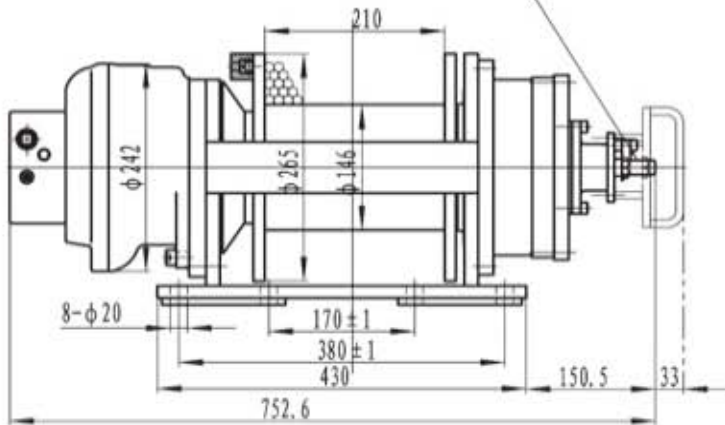
Model	The 1st layer		Total displacement (ml/r)	Working pressure diff. (MPa)	Supply oil flow (L)	Diameter of rope (mm)	Layer	Capacity of rope (m)	Hydraulic motor	Gearbox model	Weight (kg)
	Pull (KN)	Rope speed (m/min)									
ISYJ2.5-10-75-8-ZPL	10	0~12	407	15	12	8	1	12.5	INM05-75D60101	C2.5D(i=5.5)	90
							2	26			
							3	41.5			
							4	58			
							5	75			
ISYJ2.5-20-69-9-ZPL	20	0~12	830.5	17.5	23	9	1	11	INM05-150D60101	C2.5D(i=5.5)	90
							2	23.5			
							3	37.5			
							4	52.5			
							5	69			
ISYJ2.5-30-64-10-ZPL	30	0~10	1050.5	17.5	24	10	1	10	INM05-200D60101	C2.5D(i=5.5)	90
							2	21.5			
							3	34.5			
							4	49			
							5	64			

- 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. do not use clutch when a force exerts on drum of the winch.
 5. After pulling in clutch, please obtain the retained plate to block hand level of clutch to avoid pulling out clutch in working condition.
 6. When there is no winch type available which meets your requirements, we ask you to contact our sales department for a specific design.

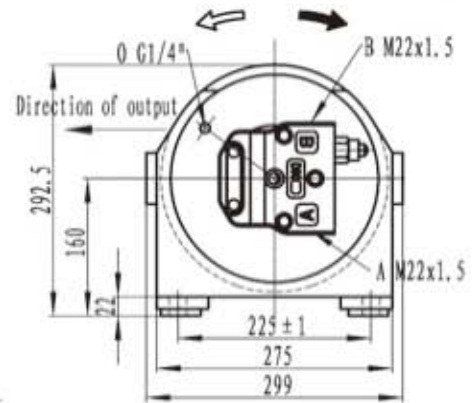
Hydraulic principle diagram



After pulling hand level out, drum can rotate freely.



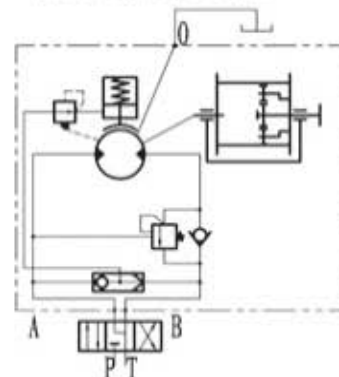
inlet of port A—lowering inlet of port B—hoisting

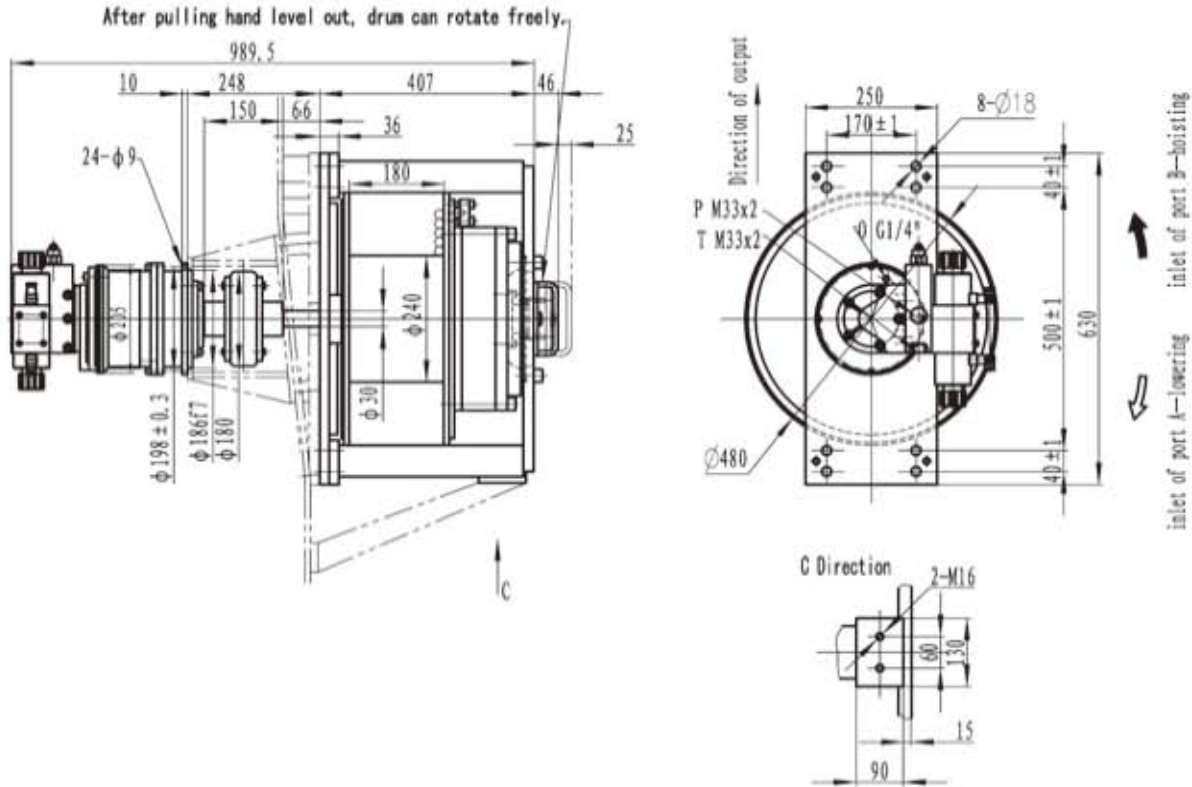


Model	The 1st layer		Total displacement (ml/r)	Working pressure diff. (MPa)	Supply oil flow (L)	Diameter of rope (mm)	Layer	Capacity of rope (m)	Hydraulic motor	Gearbox model	Weight (kg)
	Pull (KN)	Rope speed (m/min)									
ISYJ2.5-40-60-11-ZPL	40	0~10	1595	15.5	36	11	1	9	1NM1-300D60101	C2.5D(i=5.5)	105
							2	20			
							3	32			
							4	45			
							5	60			
ISYJ2.5-50-55-12-ZPL	50	0~10	1727	17.8	39	12	1	8	1NM1-320D60101	C2.5D(i=5.5)	105
							2	18			
							3	29			
							4	41			
							5	55			
ISYJ2.5-60-53-13-ZPL	60	0~8	1870	19.8	33	13	1	8	1NM1-350D60101	C2.5D(i=5.5)	105
							2	17			
							3	27.5			
							4	39			
							5	53			

- Note:1.The drain port of the hydraulic motor must be separately connected to the hydraulic reservoir.
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- 5.After pulling in clutch, please obtain the retained plate to block hand level of clutch to avoid pulling out clutch in working condition.
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Hydraulic principle diagram

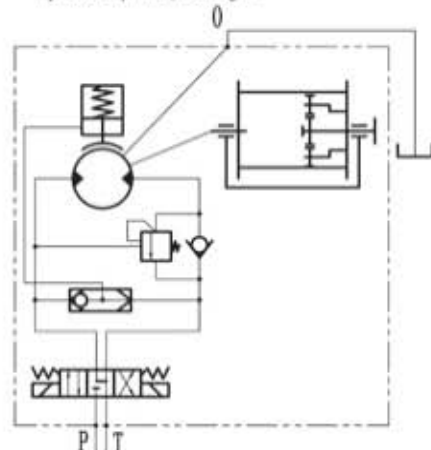


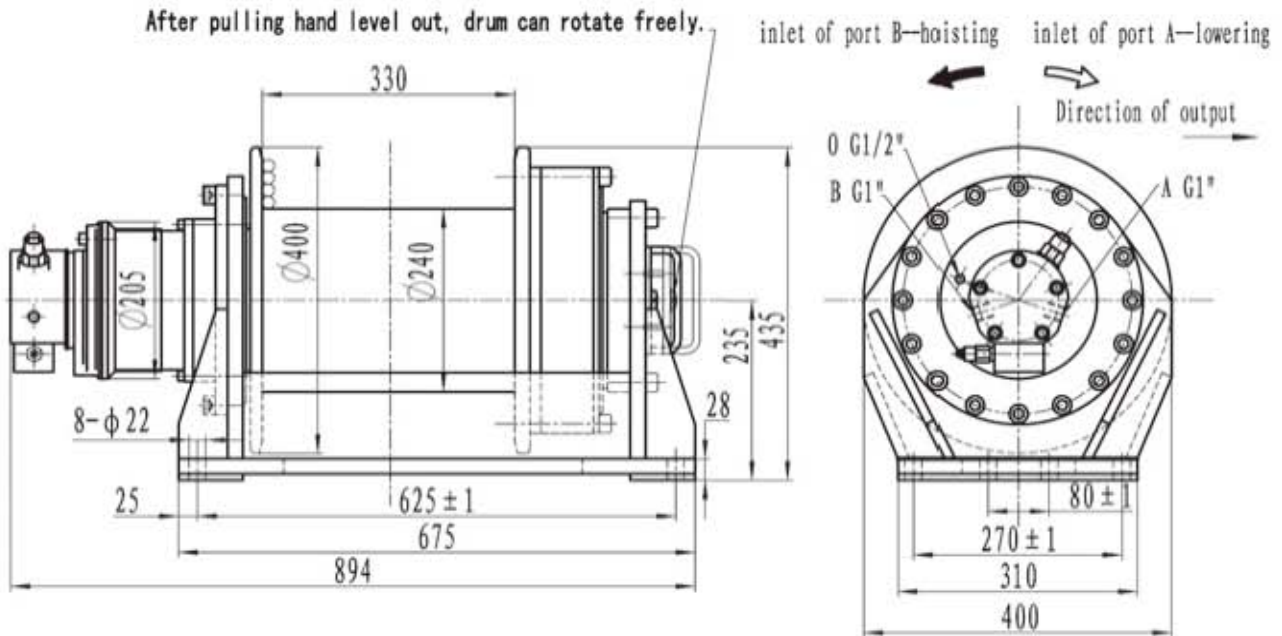


Model	The 1st layer		Total displacement (ml/r)	Working pressure diff. (MPa)	Supply oil flow (L)	Diameter of rope (mm)	Layer	Capacity of rope (m)	Hydraulic motor	Gearbox model	Weight (kg)
	Pull (KN)	Rope speed (m/min)									
ISYJ2.54-100-46-17.5-ZPL	100	0~7	7248	13.5	70	17.5	1	7	INN05-150047	KC2.54(i=48)	330
							2	15.5			
							3	24.5			
							4	35			
							5	46			

- 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.do not use clutch when a force exerts on drum of the winch.
 5.After pulling in clutch, please obtain the retained plate to block hand level of clutch to avoid pulling out clutch in working condition.
 6.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

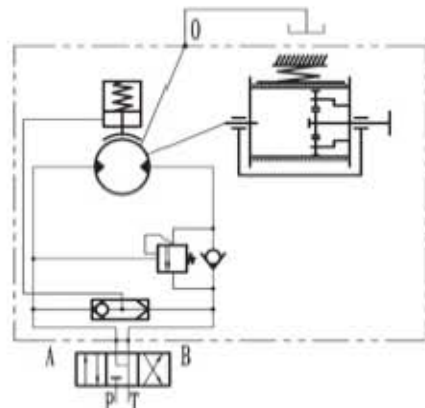


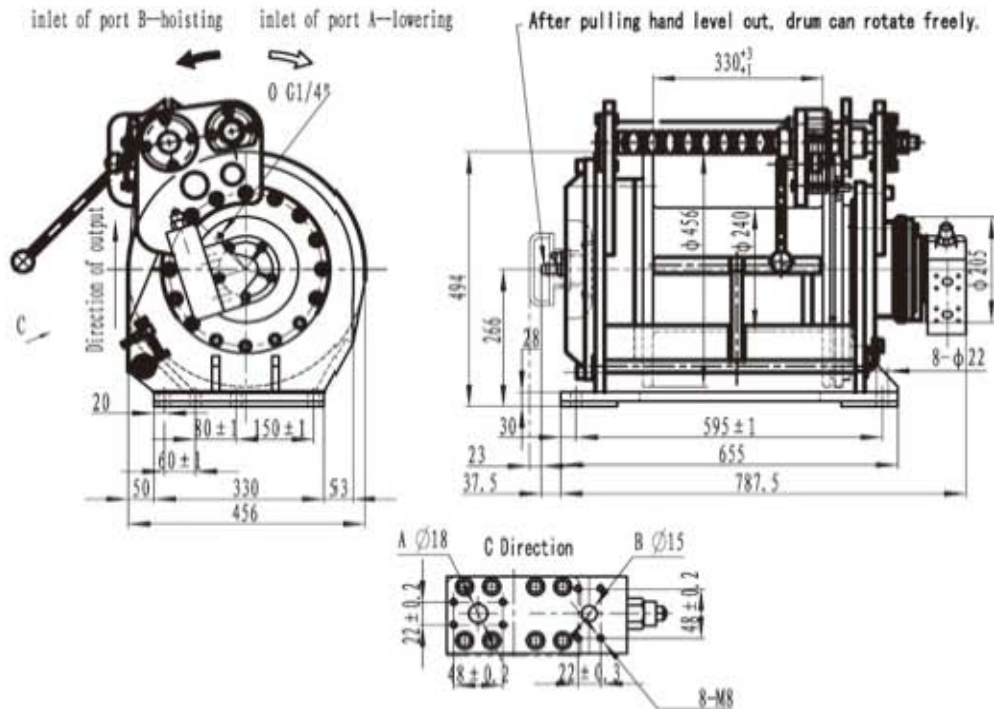


Model	The 1st layer		Total displacement (ml/r)	Working pressure diff. (MPa)	Supply oil flow (L)	Diameter of rope (mm)	Layer	Capacity of rope (m)	Hydraulic motor	Gearbox model	Weight (kg)
	Pull (KN)	Rope speed (m/min)									
ISYJ2.54-100-73-16-ZPL	100	0~8.8	6192	17	75	16	1	16	INM05-130D51	KC2.54(i=48)	300
							2	34			
							3	54			
							4	76			

- 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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 5. After pulling in clutch, please obtain the retained plate to block hand level of clutch to avoid pulling out clutch in working condition.
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Hydraulic principle diagram

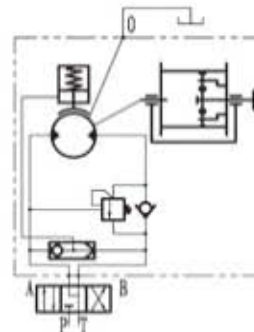




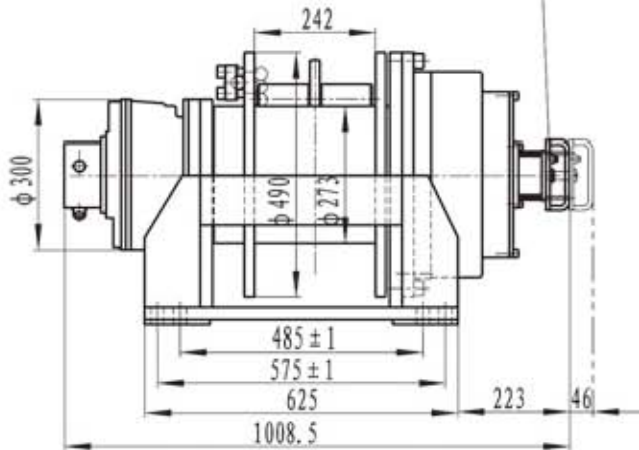
Model	The 1st layer		Total displacement (ml/r)	Working pressure diff. (MPa)	Supply oil flow (L)	Diameter of rope (mm)	Layer	Capacity of rope (m)	Hydraulic motor	Gearbox model	Weight (kg)
	Pull (KN)	Rope speed (m/min)									
ISYJ2.54-100-92-17.5-PL	100	0~7	7248	13.5	70	17.5	1	14.5	INM05-150047	KC2.54 (i=48)	340
							2	31			
							3	49.5			
							4	70			
							5	92			

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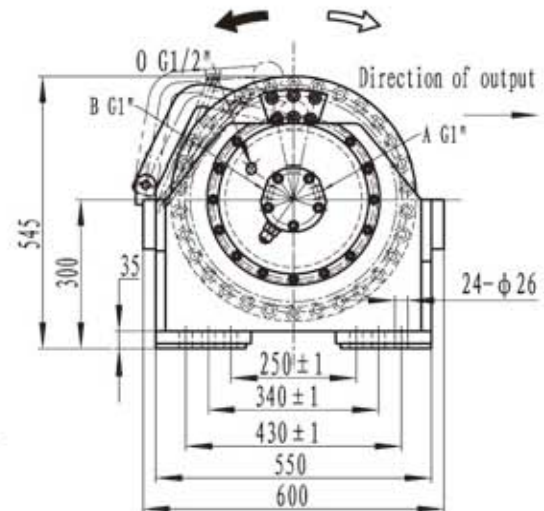
Hydraulic principle diagram



After pulling hand level out, drum can rotate freely.



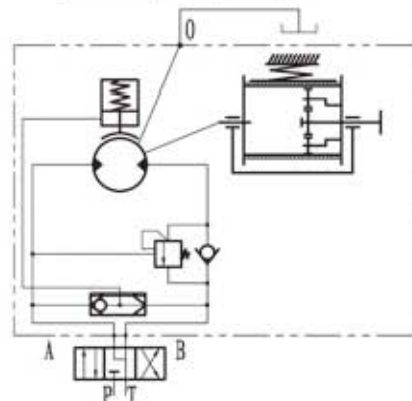
inlet of port B—hoisting inlet of port A—lowering

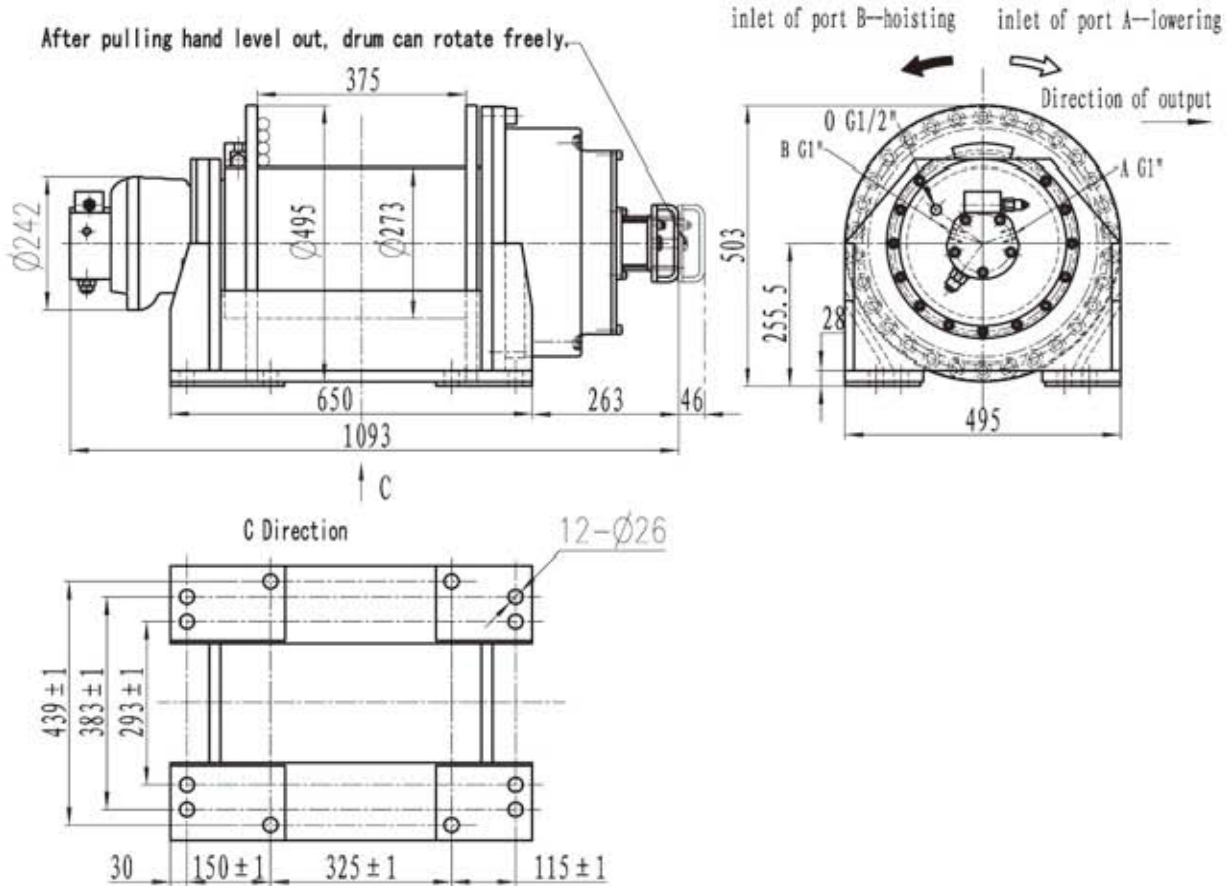


Model	The 1st layer		Total displacement (ml/r)	Working pressure diff. (MPa)	Supply oil flow (L)	Diameter of rope (mm)	Layer	Capacity of rope (m)	Hydraulic motor	Gearbox model	Weight (kg)
	Pull (KN)	Rope speed (m/min)									
ISYJ45-150-35-22-ZPL	150	0~6	11173.4	15.2	80	22	1	10	INM2-350D51	C45 (i=32.2)	450
							2	21.5			
							3	35			
ISYJ45-200-32-24-ZPL	200	0~6	13685	16.6	98	24	1	9	INM2-420D240101	C45 (i=32.2)	450
							2	20			
							3	32			
ISYJ45-250-29-26-ZPL	250	0~6	18193	15.5	124	26	1	8	INM2-600D240101	C45 (i=32.2)	450
							2	18			
							3	29			
ISYJ45-300-28-28-ZPL	300	0~6	20060.6	16.9	135	28	1	8	INM2-630D240101	C45 (i=32.2)	450
							2	17			
							3	28			

- 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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Hydraulic principle diagram





Model	The 1st layer		Total displacement (ml/r)	Working pressure diff. (MPa)	Supply oil flow (L)	Diameter of rope (mm)	Layer	Capacity of rope (m)	Hydraulic motor	Gearbox model	Weight (kg)
	Pull (KN)	Rope speed (m/min)									
ISYJ45-200-77-22-ZPL	200	0~6	10948	21	82	22	15	INM1-350051	C45 (i=32.2)	400	
							2				
							3				
							4				

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