



NINGBO INTERGEAR HYDRAULIC DRIVE CO., LTD.

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INTERGEAR GEARBOX CATALOG 2019

intergear[®]
英特捷[®]



GEARBOX | Hydraulic Winches
Travel Drives
Planetary Drives
Catalog 2019'



Company Profile

Ningbo Intergear Hydraulic Drive Co., Ltd. is a Joint Venture founded by Ningbo Tech King Investment & Development Co., Ltd. and Italian investor specialized in designing and manufacturing hydraulic and transmission device.

Inheriting on the advanced technology and research level of Italian partner in hydraulic and mechanical transmission field, Intergear continuously introduces the latest international design and manufacturing process, combines market and actual user demand, and designs and manufactures all kinds of hydraulic transmission devices and systems. At present, we're producing a great range of travel gearboxes. Applying multi-grade planetary transmission mode, the product has compact structure and are applied in the vehicles of wheel type or driven by track whether on road or non-road, such as excavators, paver machines, drilling and exploring machines and heading machines, etc. With the quality and structure conforming to international specification, It is the ideal product for replacing imported products.

Intergear is in possession of complete technical devices and advanced processing technologies. The advanced processing equipments and detecting equipments such as imported slotting machines, grinding machines, numerical control machine tools, processing centers, three-coordinate measuring machines, gear testing instruments, etc., enable us to meet clients' diversified requirements. Moreover, our professional R&D and service team of experienced and qualified engineers guarantee strong technical support for our clients.

Since its establishment, Intergear has insisted on tenet of " Leading Technology; Quality and Efficiency; Prosperity with Integrity; Development with Creativity ", and valued the creation of company culture and the cultivation of staff skill and comprehensive quality greatly. Relying on the efficient management and efforts of our devoted staff, the name of Intergear is well recognized by the market and our customers. Intergear's priority is to, as we always do, prioritize and fulfill customers' needs by offering products and services of best quality.



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GENERAL

Today, planetary drives are the most compact and advanced gear drives mechanisms in the world. They are widely applied on all kinds of equipments with rotary motion, such as pavers, excavators and tunnel machines, etc. Ningbo Intermot planetary drives are in compliance with ISO in standard torque and since the torque range varies from 2000N.m to 36000N.m, its reduction ratio reaches quite high. Thus, it is an ideal driving mechanism for large-and-medium equipments. Since this series of reduction gears are designed to transmit the largest power with the smallest volume, they are suitable for the equipments that need to save space and simple maintenance. Since the inner gear ring of the gear wheel on the planetary drive adopts nitride and honing processing, it does not only have good carrying capacity, but can also run reliably with low noise. We guarantee that the hydraulic motor and gear ratio of the whole drive mechanism can reach the best working status and overall efficiency.

Construction Features

1. International standard modular design, higher interchangeability;
 2. Three-stage planetary gear structure, high efficiency, and low noise;
 3. Robust bearing system, absorbing axial or radial force;
 4. Spring-loaded and hydraulically released multiplate-disk park brake is available upon requirement;
 5. For economic consideration, different types of hydraulic motors are available according to different working situations;
 6. Simple mounting and maintenance, helps to save after-cost;
 7. Good lubricating and heat-radiating characteristics, easy oil change;
 8. The external data of product structure keeps on improving,
- Please contact us for the latest product information.

Guide of Selection

1. Before selection, Please have a look at the following data

※ Power-P

Planetary drives only has the function of transmitting power; Power and torque correlate with rotation speed, thus, user must know two of these three data, so as to choose a correct type;

※ Ratios-i

- ① input speed n_1 (rpm) ② output speed n_2 (rpm)
 ③ input torque T_1 (N.m) ④ output torque T_2 (N.m)

i: ratio of a gearbox includes valid ratio and nominal ratio, valid ratio is the rate of input speed and output speed, While the nominal ratio is the closest ratio to the valid ratio after rounding off.

$$i = n_1/n_2 = T_2/T_1$$

※ Output torque- T_2

The output power is obtained through the formula below

$$T_2 = \frac{9550XP'}{N_2} \eta$$

★ According to international practice, this type of reduction gear is distinguished into different series codes by its maximum torque- T_{max} ; T_{cont} means, the torque that gearbox is able to transmit while operating continuously.

★ T_{max} means the maximum torque that output shaft is able to transmit, when gearbox works at peak value in short time. Usually this value won't make permanent damage to the most fragile components.

$$T_{max} = 1.5 \times T_{cont}$$

★ In application, if the reduction gear is frequently started, making its speed fall at T_{max} for a long time, then it is strongly suggested to choose a proper safety coefficient, or change a larger reduction gear.

※ Efficiency- η

As hydraulic transmission has good adaptability, here the efficiency of reduction gears was not considered (usually the efficiency of one-stage planetary reduction gears is 0.97~0.98). It is due to many factors, such as speed, torque, ratio, work position, and lubrication effect, etc.




2. Application Conditions

This series of planetary drives are designed to work at ambient temperature between -20°C and $+40^{\circ}\text{C}$. Environmental influences such as salt water, salt fog, dust, shocks, temperature change, overpressure, unqualified oil and the like will impede the function of the products. To enable a safe and reliable design, such conditions must be reported to us.

3. Hydraulic Motors Selection

In order to suit different working conditions, customers could choose hydraulic motors of different displacements to pair with different reduction rate of gearboxes, but must avoid exceeding the maximum speed of the motors and maximum output torque of the gearwheels.

To make the whole system work more efficiently and economically, the following table is for your reference.

Pressure	≤ 17.5 (Mpa)	$\leq 17.5\sim 20$ (Mpa)	$\leq 20\sim 40$ (Mpa)
Type	Orbit motor 	Radial piston motor 	Axial piston motor 
Speed (rpm)	<700	<500	<4000
Mechanical Efficiency (η_m)	0.80	0.90	0.92
Volumetric Efficiency (η_v)	0.90	0.96	0.96
Radial Dimensions	Small	Big	Small
Price	Low	Middle	High

4. Parking Brake

Part of the planetary gearboxes with requirement on accurate orientation and parking brake may have parking brake of built-in type or screw bolt additional type or multi-plate type. There is a "C" port on the brake, by changing the pressure of the controlling pipe, this pipe is able to turn on or off the brake. Normally the pressure of the control oil shall not be more than 5Mpa. For this control oil, its power could be offered by the user or from the controlling valve supplied by our company. When there is back pressure in the hydraulic loop, the valid brake torque will reduce, and the equipments such as crane or excavator may have slippage. It is recommended to use Type Y or Type H shuttle valve, to avoid the back pressure in hydraulic loop.

Slew gear which have to position smartly or park with brake

TBr(minimum static brake torque) = 1.3 X T1(hydraulic motor input torque)

Note: Multiplate-disk parking brake is not allowed to work as a hynamic brake

5. Mounting Position

Various mounting positions are available, and horizontal, vertical upward, vertical downward are usually applied. According to the user's decision, before the design list shall take into consideration of many factors, such as the support of the internal running system, oil inlet and output port, oil level, oil plug, etc.

6. Lubrication

※ Correct lubrication ensures a good running situation of the reduction gear, thus a longer life. Our gearbox is supplied with hydraulic motors, brake, and gearbox, all without lubrication, therefore, the user are suggested to fill lubrication oil to certain level, as recommended. Be sure that when lubricating, keep the gas plug open, even more attention should be paid if lubricated by machine: lubricating pressure should not exceed 0.5Mpa, so as to avoid damaging the hydraulic motor or the brake seal. After starting the reduction gears for several minutes, recheck the oil level, ensuring all parts are fully lubricated. In addition, lubrication selection depends on the type of gearbox velocity (ratio and input speed), working condition, ambient temperature, etc. The industrial gear lubrication is commonly used, the viscosity of which is ISO VG, and EP additive is contained. Please refer to the table below for detailed information. (The great wall Brand lubrication is recommended)

Ambient Temperature	-20°C~+5°C	+5°C~40°C	+30°C~65°C	+40°C~90°C
Lubrication for Gearbox	ISO VG 100	ISO VG 150	ISO VG 220	ISO VG 320
normal temperature, ISO VG 46 for motor				

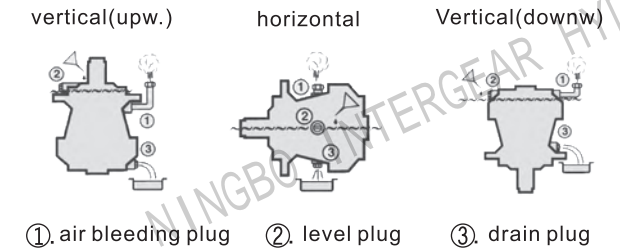
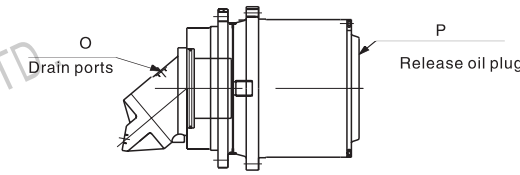
※ As the oil for hydraulic motor, brake, and gearbox are quite different, be sure not to mix up. Viscosity selection must conform to ambient and working temperature of gearbox. For those gearboxes which are vertically mounted and continuously running, normally the oil is quite full, and when temperature increases, oil is easy to expand, thus an outlaid tank or coolant pump is quite necessary.

When the output shaft running speed exceeds 5 r/min, high viscosity lubrication is suggested.

※ It is suggested to change the lubrication for the gearbox and brake after first 100~150 hours, running after that, change the oil every 12 months or 1500~2000 working hours. Before oil change, it is better to run the whole machine for some time, in order to let out the waste oil. After releasing all the waste oil, also clean the scrap iron on the magnet plug, and then refuel. Check the lubrication level regularly.

※ When mounting horizontally, fuel to the middle of its axis, and pay attention to the position of the oil-level plug;
 ※ when mounting vertically, fully fuel the reduction gears, and loosen one of the highest pulg to let air out.

7. Plug position



8. Service

We guarantee the product for one year, from the date it leaves our factory. If it is the reduction gear that causes the problem, We will offer three-guarantee service, but won't undertake any joint compensation liability. Please refer to General for type selection and user's guide.

Order Code

1	2	3	4	5	6	7	8
OIL	W	080	185	T	B	A	Z

1. OIL Intergear Hydraulic

2. series

P Planetary drives

W Travel drives

D High torque travel drives

3. Max Output torque(kN)

080 80000 N.M

4. Reduction Ratio

185 i=185 (Velocity ratio after round off)

5. Number of stages

single

D double

T triple

6. with or without brake

none

B with brake

7. Flange&Mounting styles

(only for OILP010 and OILP020 series)

Different letters represent different connection forms (please refer to the catalogue for the details)

8. It represent the form of output shaft of hydraulic valve (only for OILW series)

A It represents Type A2FE** motor

Z It represents Type A2FE** motor

Since there are many varieties of hydraulic motors and additional valve blocks, generally they are separately ordered with decelerator. The complete model subjects to the agreement in the contract of our company.

Example: OILW080185TB indicates that the maximum output torque is 80000N.m, drive ratio is 185, triple drive, and travel decelerator with brake.

All the above data is only for your reference, and matters that not mentioned please refer to our contract.

Planetary drives Exclusive Standard of this product :

JB/T6502-1993

Closed-type gear drives for industrial use.

GB/Z 19414-2003/ISO/TR 13593:1999

OILW TRAVEL DRIVES

Brief Introduction

The travel drive here is a hydrostatic driving mechanism of hydraulic motor and planetary drive. It is an ideal driving mechanism for wheel or track driving vehicles, and other moving equipments. Driven by fired or variable, or built-in short hydraulic motors, in multiplate-disk planetary driving method, the structure is quite compact, especially suitable for those space-critical equipment. In addition, the torque range covers from 2KN.m~360KN.m, thus mainly applicable in construction engineers, etc. Since the port is made in compliance with international regulation, this travel drive is an ideal replacement of those imported equipments.

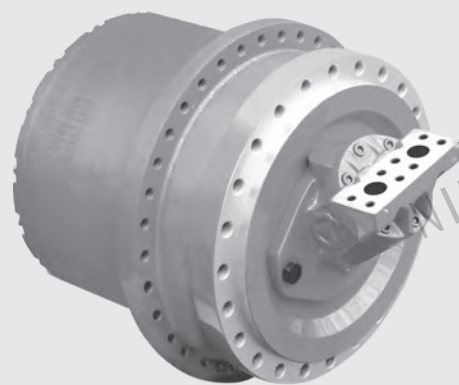
Product Features

1. Both high-speed and low-speed motors are available, applied in different working conditions;
2. Integrate spring-loaded and hydraulically released multiplate-disk parking brake;
3. Applicable in various construction equipments like drive tracks, wheels, winch drums, etc.
4. Anti-dust seal shoes of special design, keeps it away from moisture and other foreign matters.
5. Ease of maintenance, especially suitable for harsh environment like mine, sea, tunnel, etc.
6. Convenient oil change
7. Torque with international general design, especially for travel drives use, and the high-volume bearing enables to work under frequent shock;
8. Other varied types are also available, pay close attention to our renewed information.

Please refer to General for type selection and user's guide.

Gearbox input direction is on contrary to the output direction

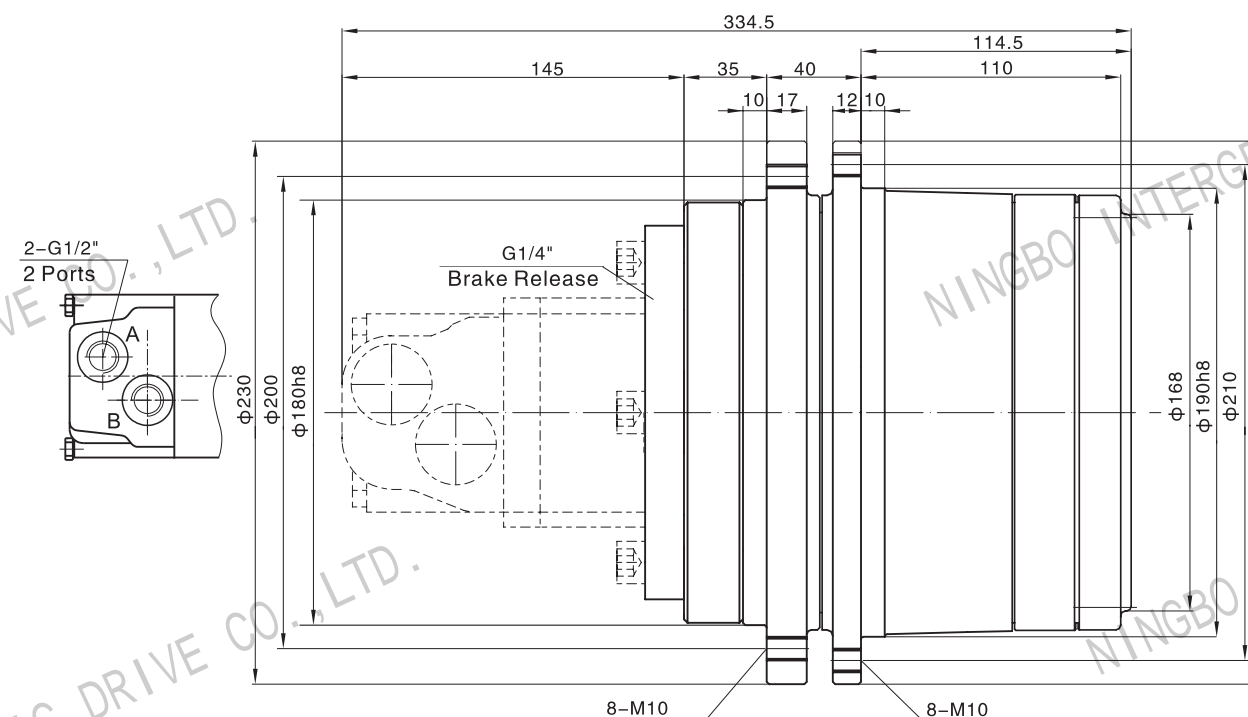
Please refer to PAGE24 for dimension of oil inlet and outlet of A2FE series of hydraulic motors.



Technical Specification

Type	Max.Torque (N.m)	Ratios i	Max.input speed (rpm)	Max. pressure (Mpa)	Max.Braking torque (N.m)	Starting pressure (Mpa)	Hydraulic motors	Weight (kg)
OILW002006B	2200	6.2	350	21	230	≥1.3	2K-200	38

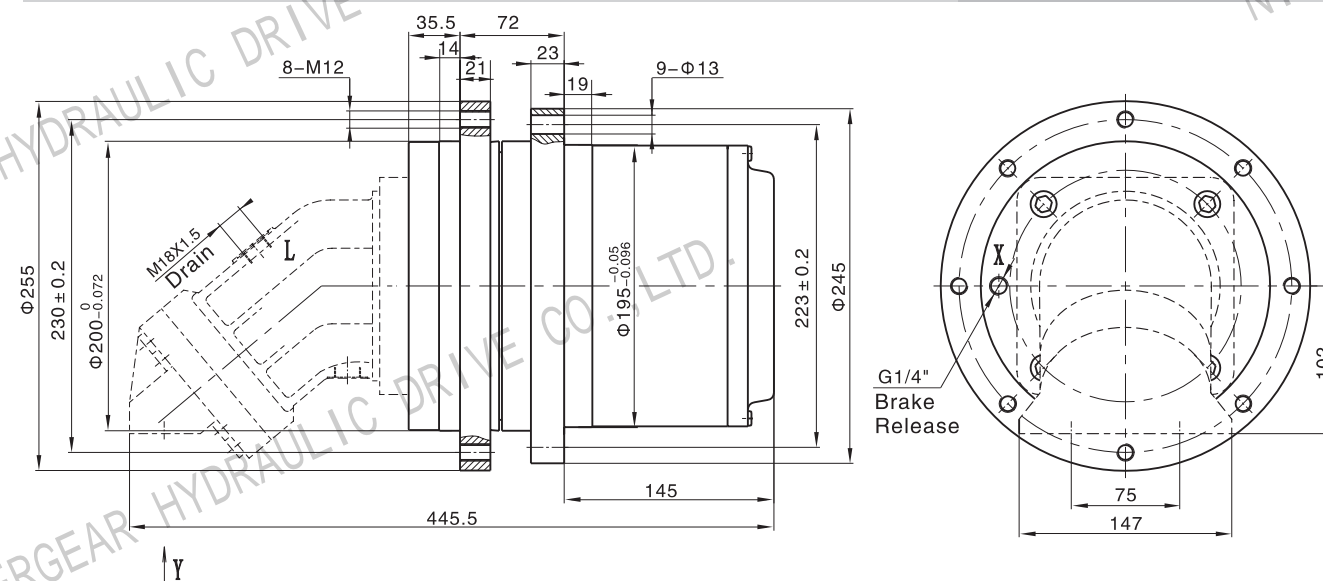
Mounting Data



Technical Specification

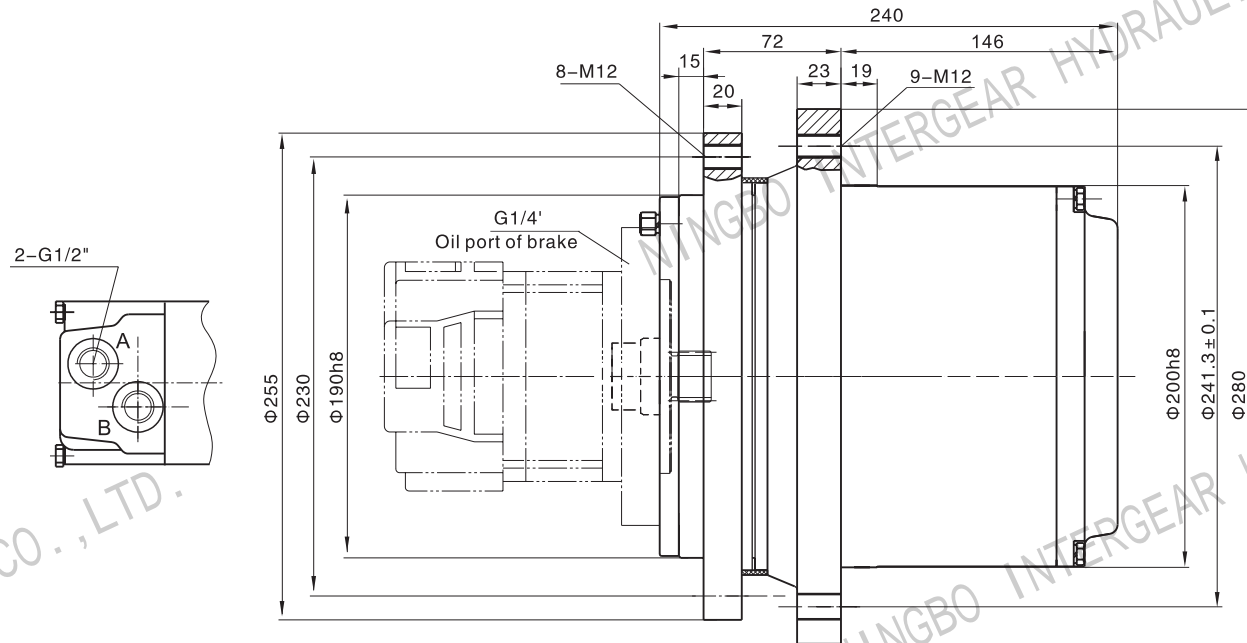
Type	Max.Torque (N.m)	Ratios i	Max.input speed (rpm)	Max. pressure (Mpa)	Max.Braking torque (N.m)	starting pressure (Mpa)	Hydraulic motors	Weight (kg)
OILW005020DB	5000	20.3	1500	25	295	≥1.6	A2FM45	—

Mounting Data

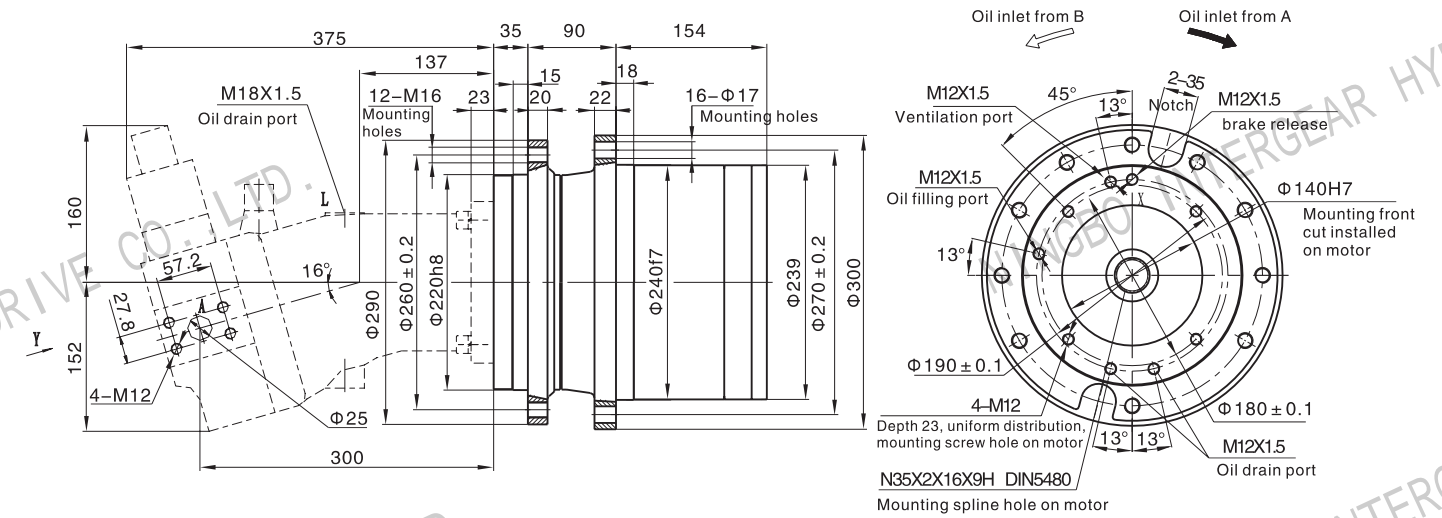


Technical Specification

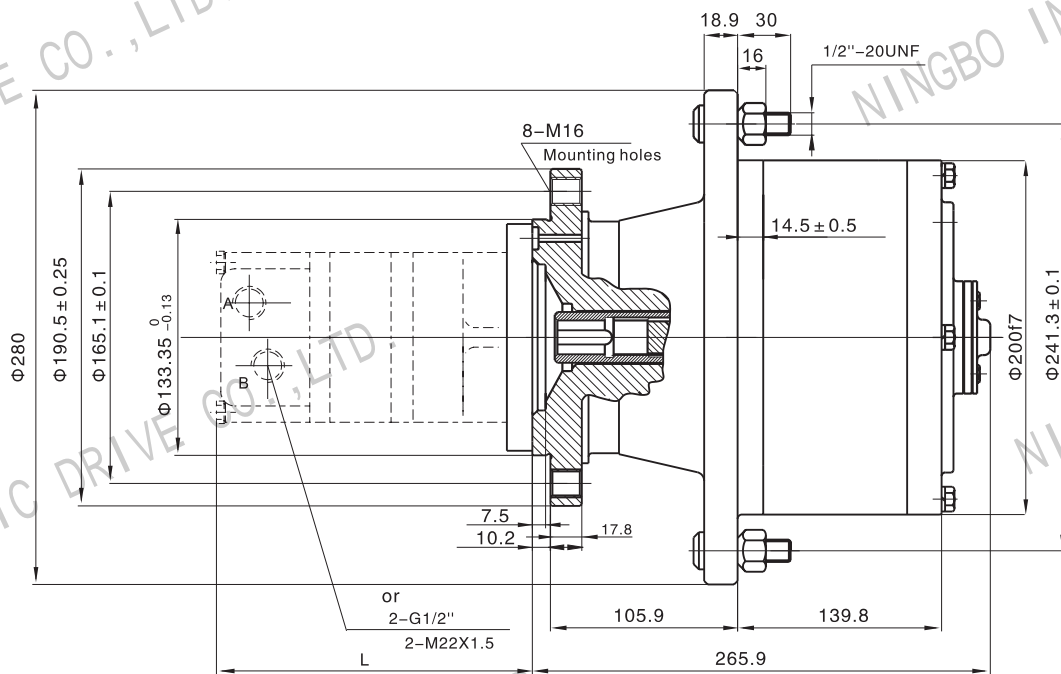
Type	Max.Torque (N.m)	Ratios i	Max.input speed (rpm)	Max. pressure (Mpa)	Max.Braking torque (N.m)	Starting pressure (Mpa)	Hydraulic motors	Weight (kg)
OILW007025DB	7000	24.71	500	21	420	≥1.8	2K	52
Mounting Data								


Technical Specification

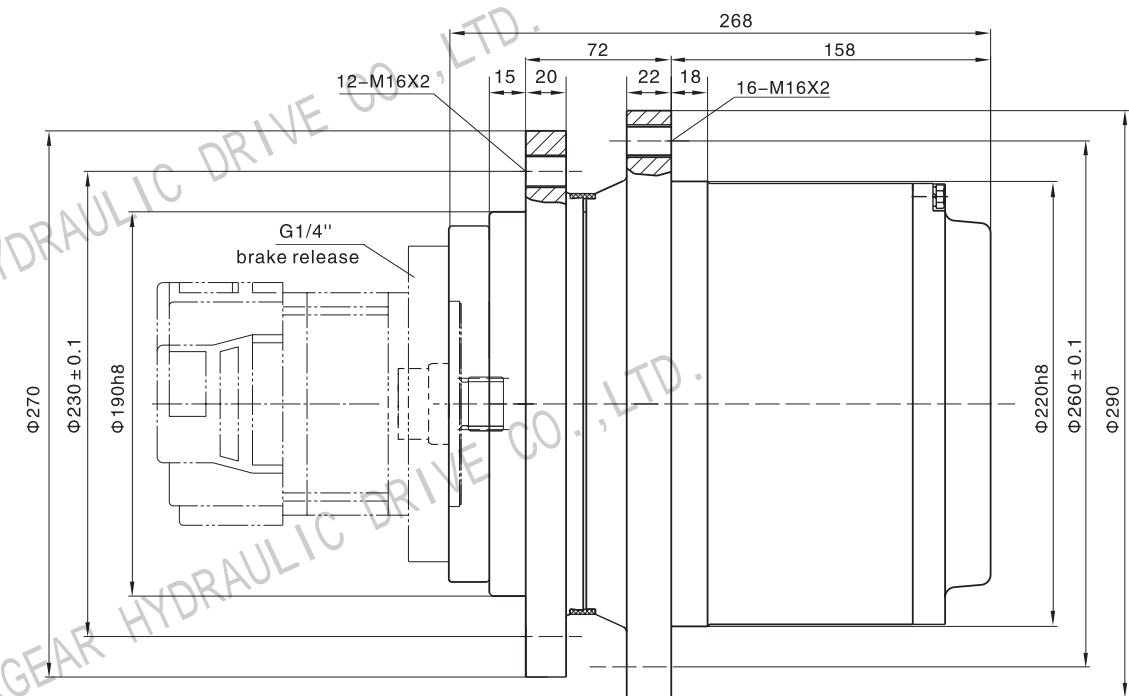
Type	Max.Torque (N.m)	Ratios i	Max.input speed (rpm)	Max. pressure (Mpa)	Max.Braking torque (N.m)	Starting pressure (Mpa)	Hydraulic motors	Weight (kg)
OILW010024DB-A6V	10000	24	1500	25	625	<2.6	A6V80E	77
Mounting Data								


Technical Specification

Type	Max.Torque (N.m)	Ratios i	Max.input speed (rpm)	Max. pressure (Mpa)	Max.Braking torque (N.m)	starting pressure (Mpa)	Hydraulic motors	Weight (kg)
OILW007025D	7000	25	500	21	—	≥0.5	2K	44
Mounting Data								

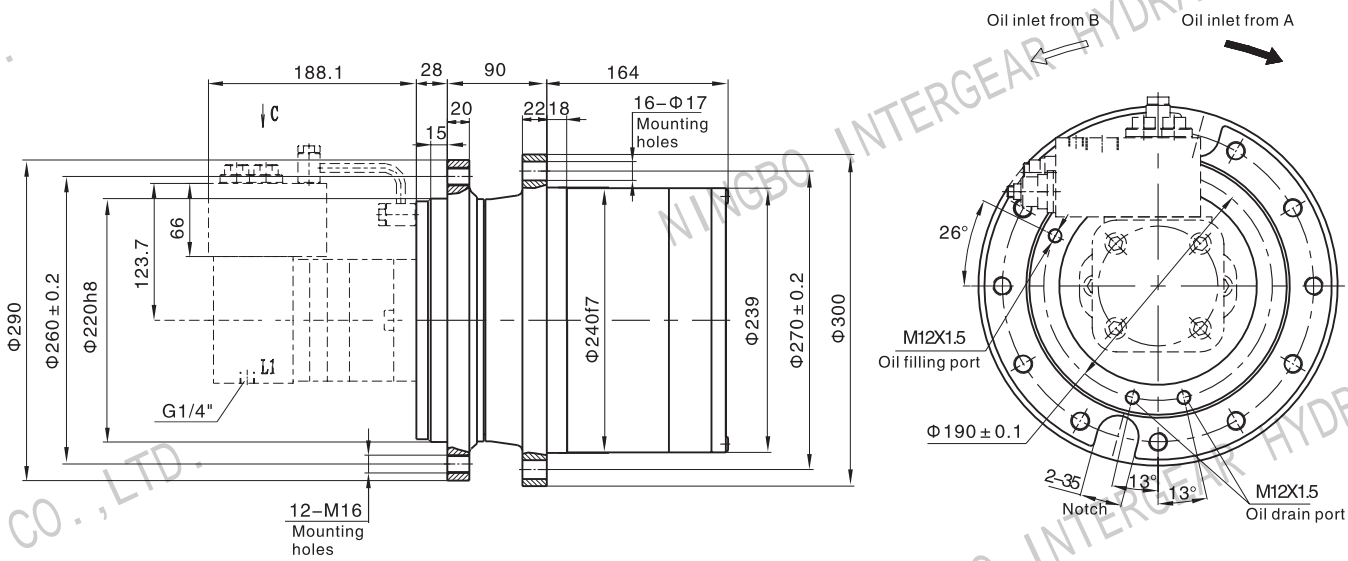

Technical Specification

Type	Max.Torque (N.m)	Ratios i	Max.input speed (rpm)	Max. pressure (Mpa)	Max.Braking torque (N.m)	starting pressure (Mpa)	Hydraulic motors	Weight (kg)
OILW010025DB	10000	25.15	500	21	450	≥1.8	2K	61
Mounting Data								



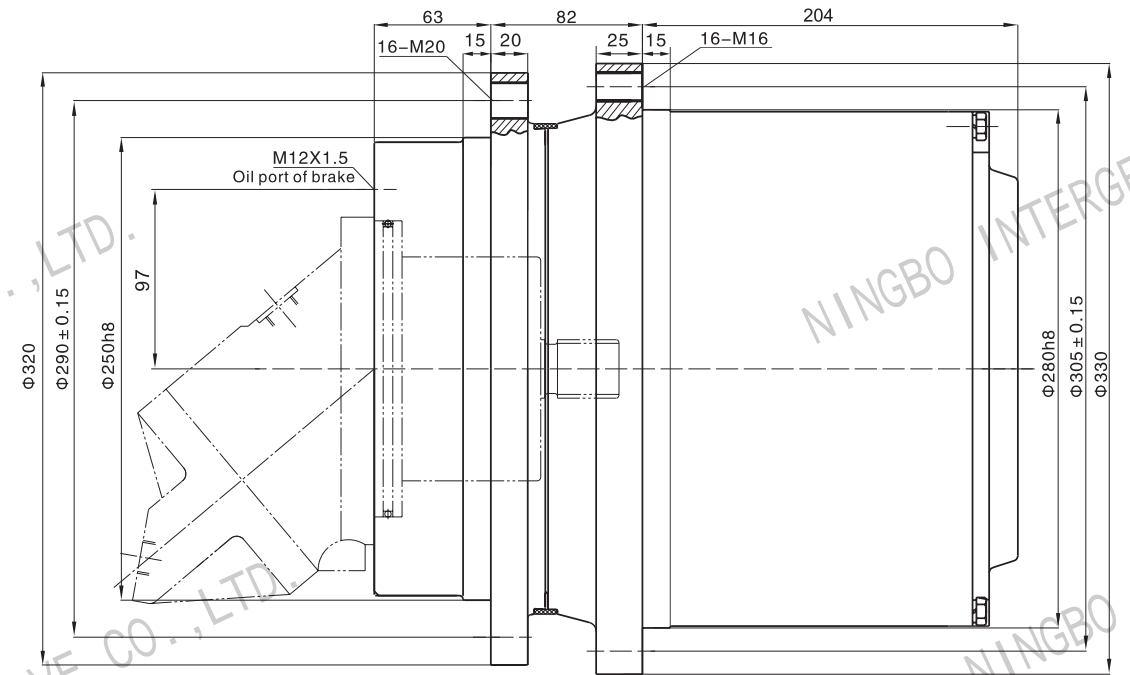
Technical Specification

Type	Max.Torque (N.m)	Ratios i	Max.input speed (rpm)	Max. pressure (Mpa)	Max.Braking torque (N.m)	Starting pressure (Mpa)	Hydraulic motors	Weight (kg)
OILW010037DB-M02	10000	37.4	≤500	21	400	≥1.8	2K-100	77
Mounting Data								



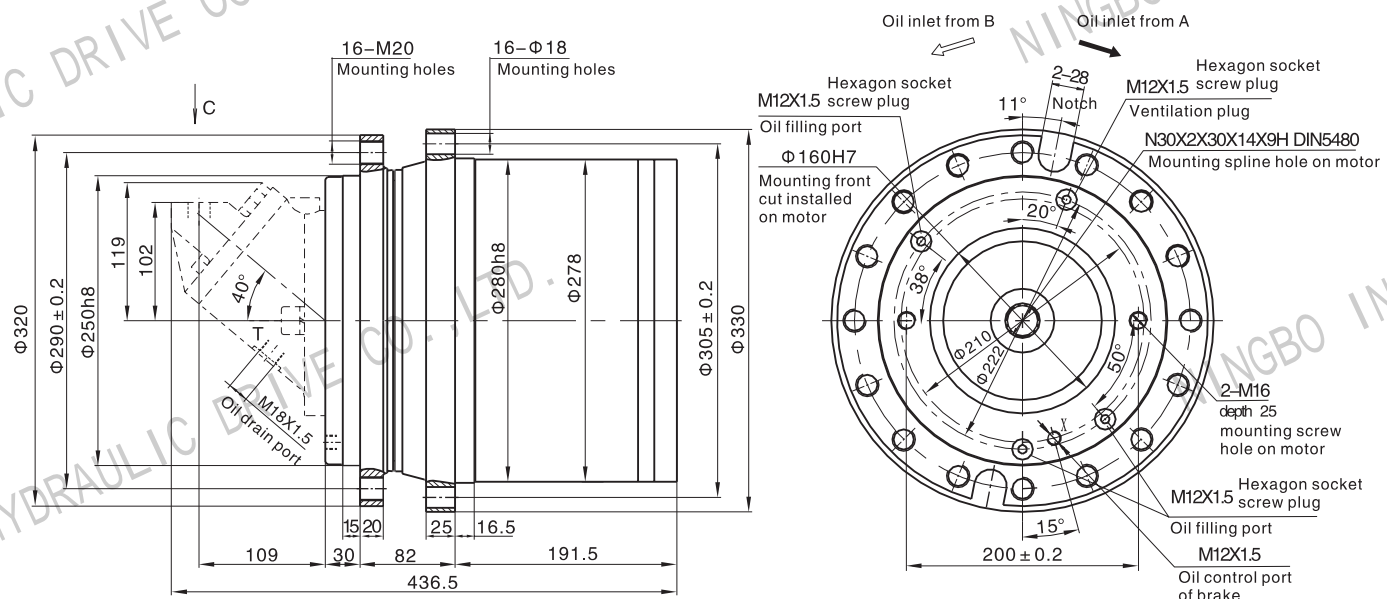
Technical Specification

Type	Max.Torque (N.m)	Ratios i	Max.input speed (rpm)	Max. pressure (Mpa)	Max.Braking torque (N.m)	Starting pressure (Mpa)	Hydraulic motors	Weight (kg)
OILW018*TB	18000	78 102 106.81	1500	25	450	≥1.8	A2FE56/63-Z	116
Mounting Data								



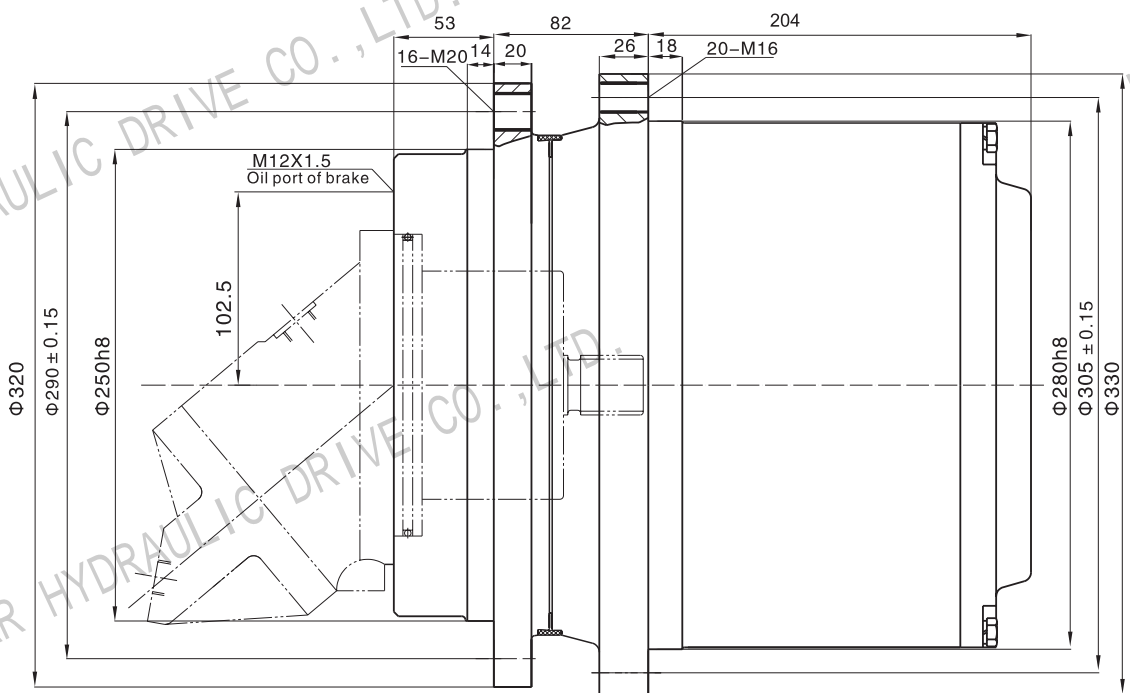
Technical Specification

Type	Max.Torque (N.m)	Ratios i	Max.input speed (rpm)	Max. pressure (Mpa)	Max.Braking torque (N.m)	starting pressure (Mpa)	Hydraulic motors	Weight (kg)
OILW018045DB	18000	45	≤1500	25	625	≥1.8	A2FE56/63-Z	125
Mounting Data								



Technical Specification

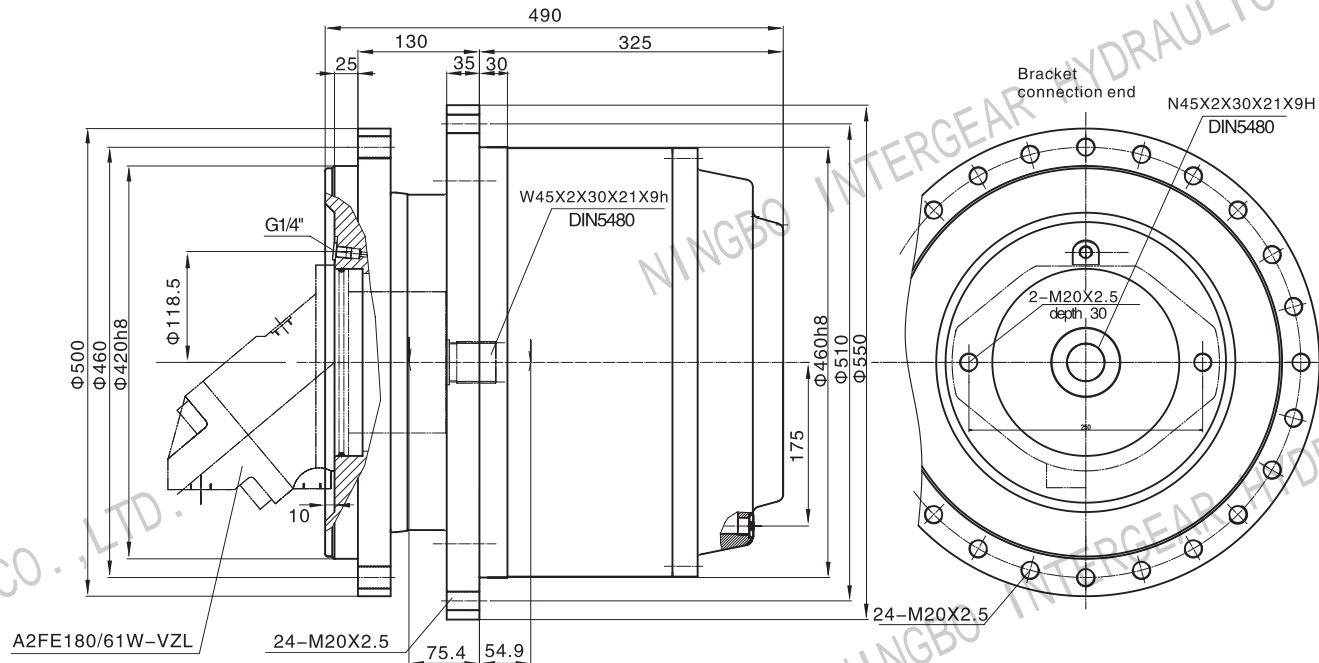
Type	Max.Torque (N.m)	Ratios i	Max.input speed (rpm)	Max. pressure (Mpa)	Max.Braking torque (N.m)	starting pressure (Mpa)	Hydraulic motors	Weight (kg)
OILW024130TB	24000	130.33	1500	25	450	≥1.8	A2FE56/63-Z	128
Mounting Data								



Technical Specification

Type	Max.Torque (N.m)	Ratios i	Max.input speed (rpm)	Max. pressure (Mpa)	Max.Braking torque (N.m)	Starting pressure (Mpa)	Hydraulic motors	Weight (kg)
OILW110156TB	110000	156.5	1600	25	800	>1.8	A2FE/180-Z	450

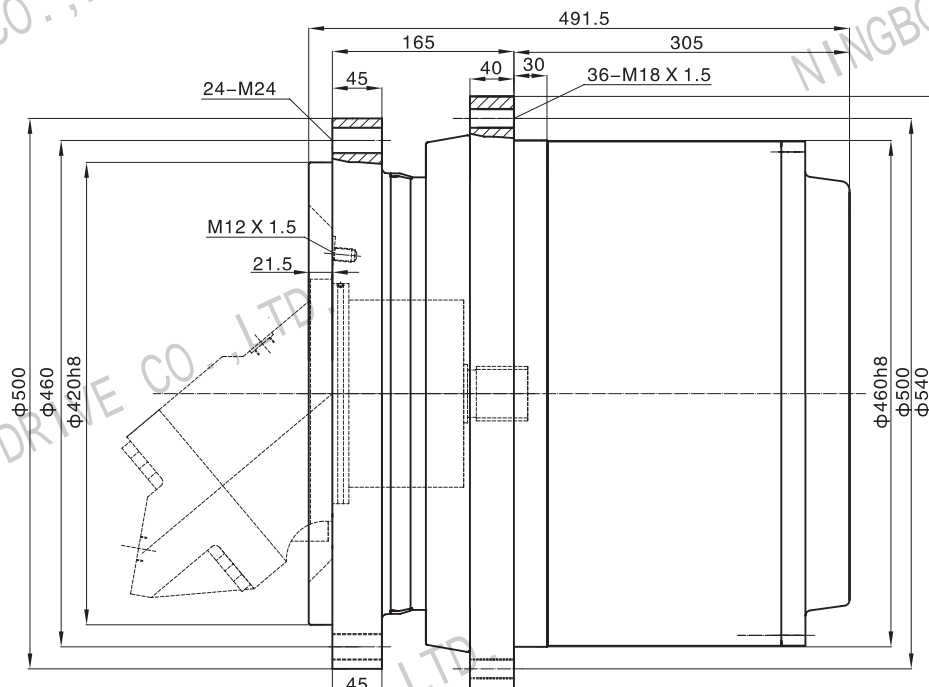
Mounting Data



Technical Specification

Type	Max.Torque (N.m)	Ratios i	Max.input speed (rpm)	Max. pressure (Mpa)	Max.Braking torque (N.m)	starting pressure (Mpa)	Hydraulic motors	Weight (kg)
OILW110*TB	110000	95.8 114.8 128.6 147.2 173.9 215	1450	20	800	≥1.8	A2FE160/180-Z	470

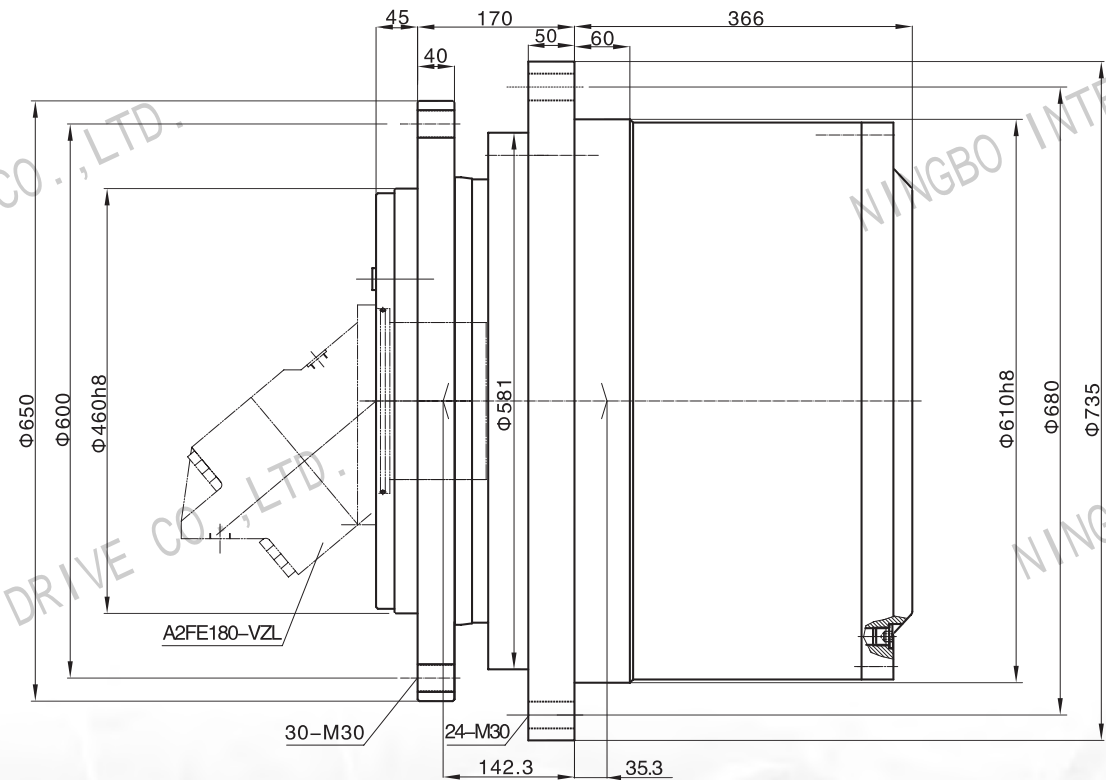
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Technical Specification

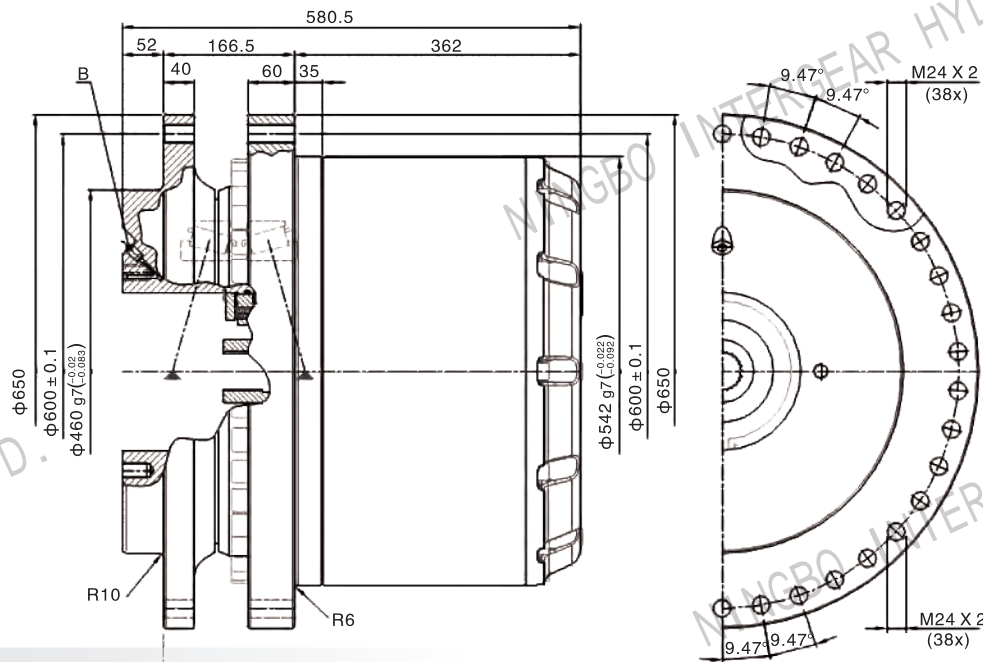
Type	Max.Torque (N.m)	Ratios i	Max.input speed (rpm)	Max. pressure (Mpa)	Max.Braking torque (N.m)	Starting pressure (Mpa)	Hydraulic motors	Weight (kg)
OILW220*TB	220000	188.9 246.1 293	2000	20	1100	≥1.8	A2FE160/180-Z	---

Mounting Data

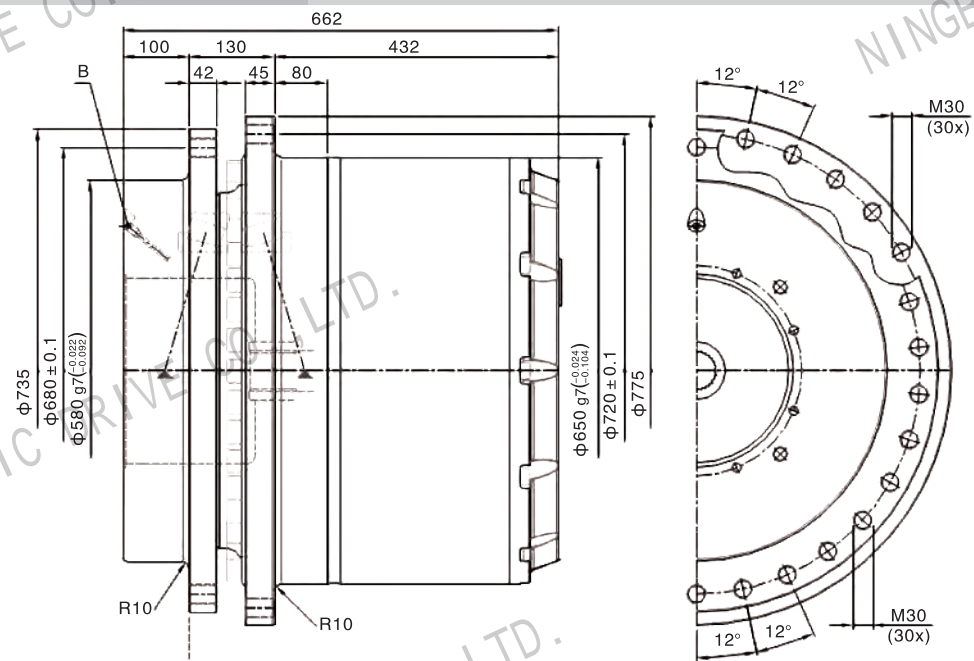


Technical Specification

Type	Ratios <i>i</i>	Nominal Torque (N.m)	Max.Torque (N.m)	Max.input speed (rpm)	Opening Brake Pressure (Mpa)		Hydraulic motors	Weight (kg)
					(Min)	(Max)		
OILD220 Series	97 119 148 182 207 255	195000	220000	3000	1.6 / 1.8	10	A2FE160/180	810

Mounting Data

Technical Specification

Type	Ratios <i>i</i>	Nominal Torque (N.m)	Max.Torque (N.m)	Max.input speed (rpm)	Opening Brake Pressure (Mpa)		Hydraulic motors	Weight (kg)
					(Min)	(Max)		
OILD360 Series	81 98 121 146 198 239	320000	360000	3000	1.6 / 1.8	10	A2FE355	1150

Mounting Data


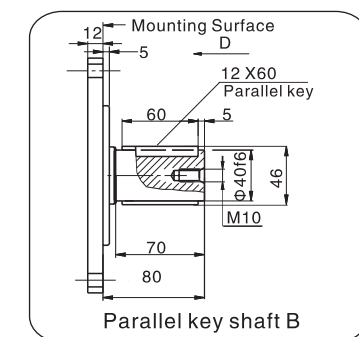
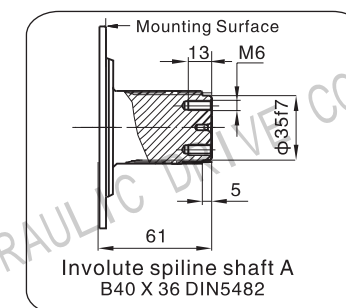
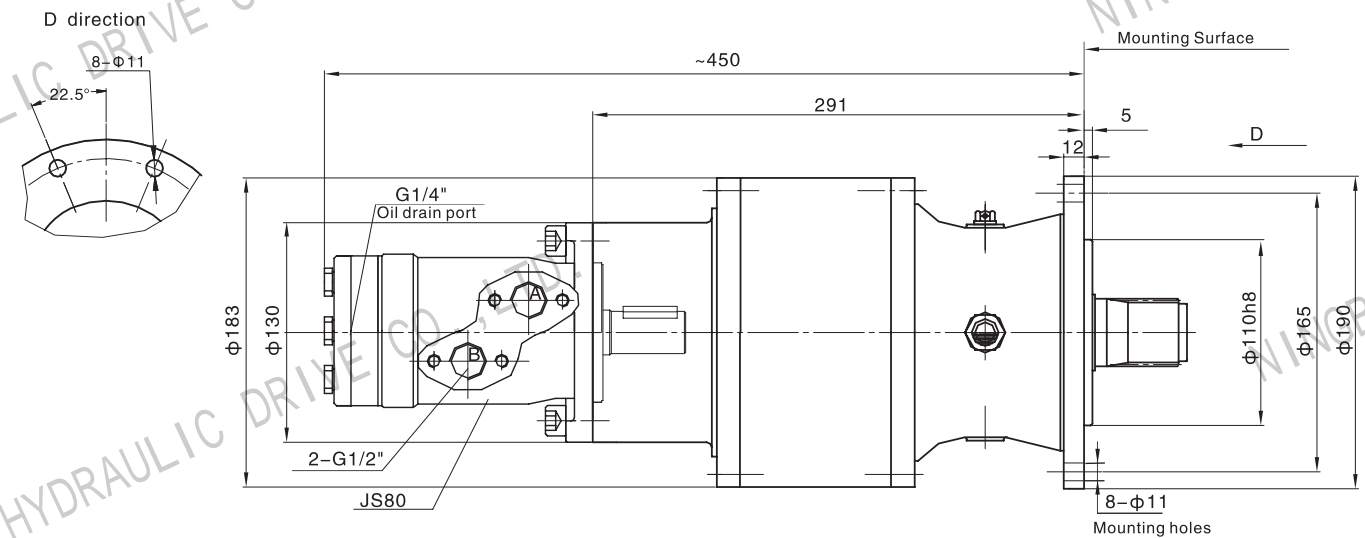
OILP PLANETARY DRIVES

OILP002 Series Planetary Drives

Our latest developed OILP002 series of two-stage planetary drive derives from EATON JS orbit motor. With the entire gear Wheel design, and a robust bearing system to support the output shaft, it well makes up the deficiency of EATON JS orbit motor, which is unable to endure too much axial or radial force. It is quite suitable for those space-critical construction engineering, but even more applicable for the driving system of light equipments, which require parking brake in that occasion, a multifunctional valve could be set on the reduction gears. In addition, since its mounting measurement is in accordance with ISO standard, and input socket conforms to SAE standard, it is quite interchangeable and able for hydraulic motors of different displacements, so as to adapt to different rotaly speeds and torques.

Technical Specification

Type	Max.Torque (N.m)	Ratios <i>i</i>	Max.input speed (rpm)	Max. pressure (Mpa)	Braking torque (N.m)	Min.starting pressure (Mpa)	Hydraulic motors	Weight (kg)
OILP002024D	2000	24.54	≤500	12.5	--	--	JS Series	40

Mounting Data


OILP005/007 Series Planetary Drives

Our latest developed OILP005/007 series of two-stage planetary drive derives from EATON 2K orbit motor. With the entire gear wheel design, and a robust bearing system to support the output shaft, it well makes up the deficiency of EATON 2K orbit motor, which is unable to endure too much axial or radial force. It is quite suitable for those space-critical construction engineering, but even more applicable in the driving system of light equipments, which requires parking brake in that occasion, a multifunctional valve could be set on the reduction gears. In addition, since its mounting measurement is in accordance with ISO standard, and input socket conforms to SAE standard, it is quite interchangeable and able to fit hydraulic motors of different displacements, So as to adapt to different rotaly speeds and torques.

Technical Specification

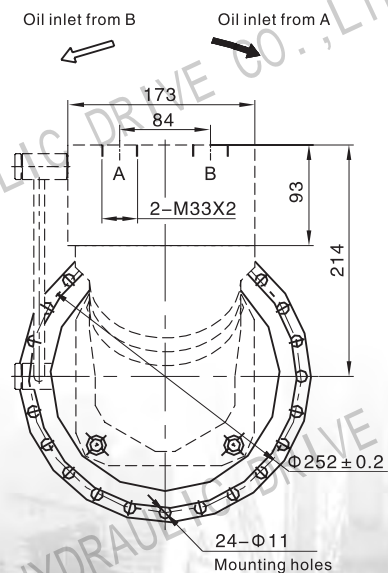
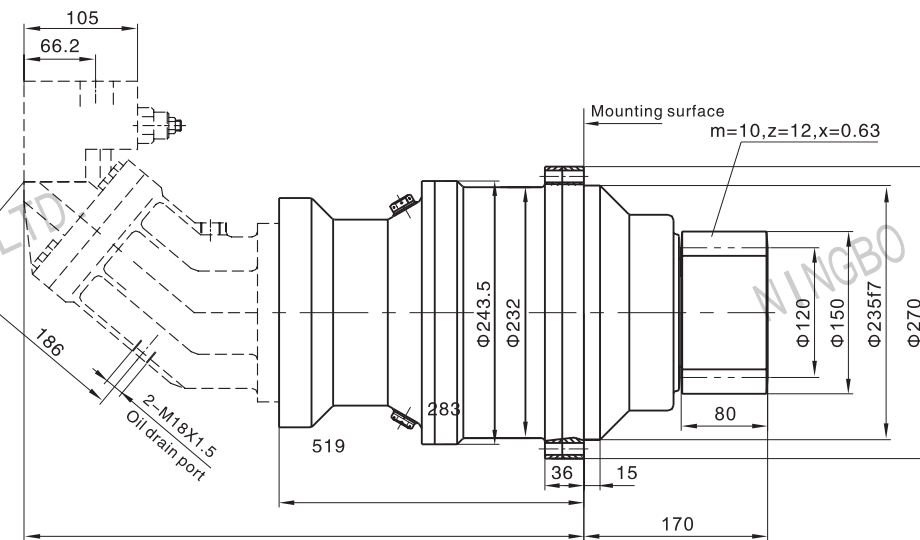
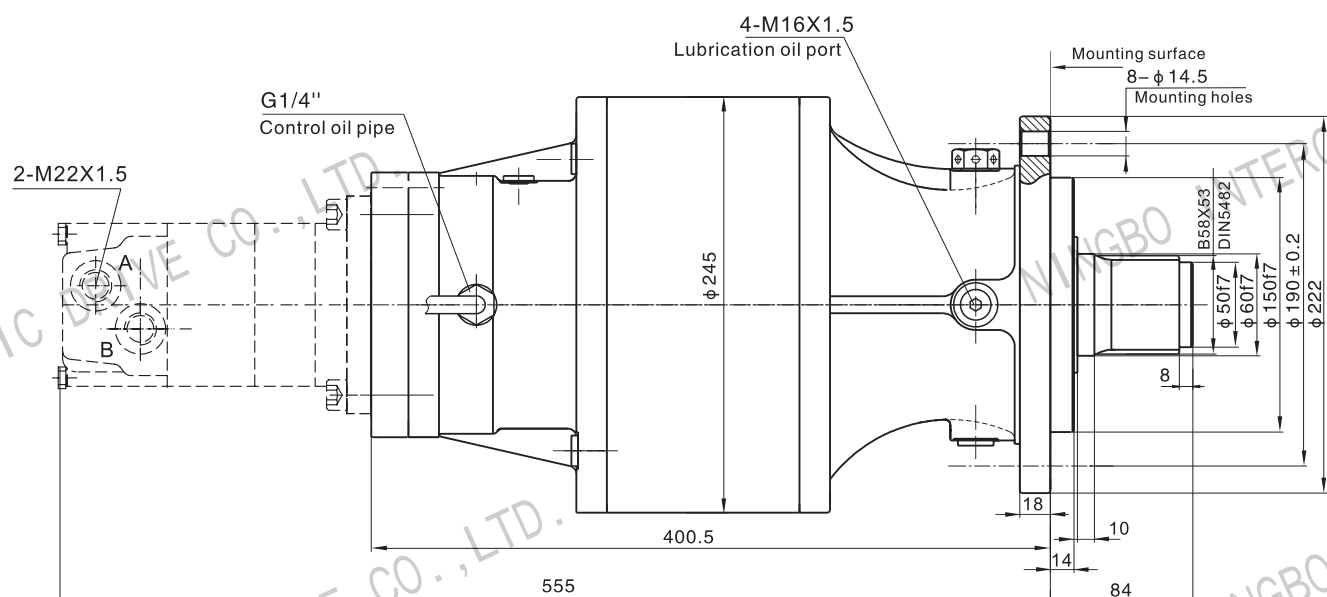
Type	Max.Torque (N.m)	Ratios i	Max.input speed (rpm)	Max. pressure (Mpa)	Max.Braking torque (N.m)	Starting pressure (Mpa)	Hydraulic motors	Weight (kg)
OILP007038DB	7000	38.21	≤ 1000	35	290	1.8	A2FM80/90	118

Mounting Data

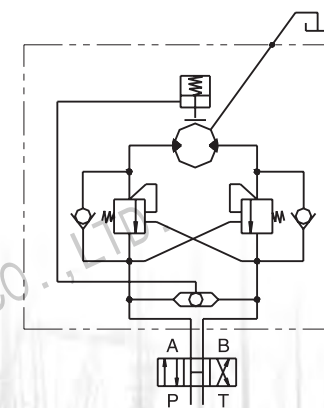
Technical Specification

Type	Max.Torque (N.m)	Ratios i	Max.input speed (rpm)	Max. pressure (Mpa)	Max.Braking torque (N.m)	Starting pressure (Mpa)	Hydraulic motors	Weight (kg)
OILP005025DB	5000	25	≤ 500	12.5	200	≤ 1.8	2K Series	80

Mounting Data



Principle drawing of hydraulic pressure



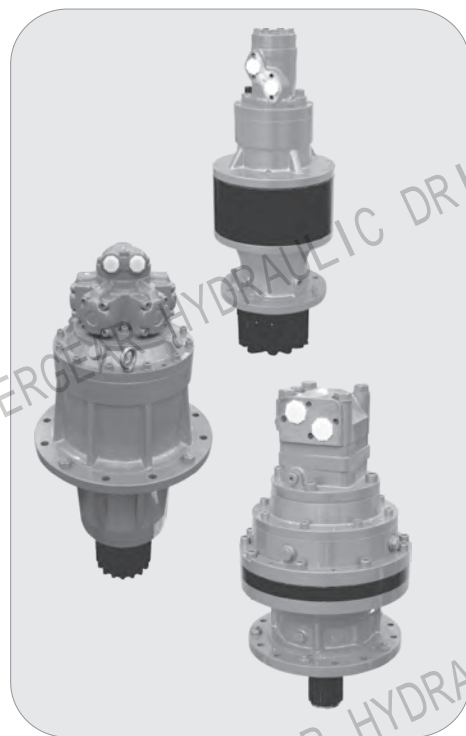
With valve block of double seated balance valve and double relief valve



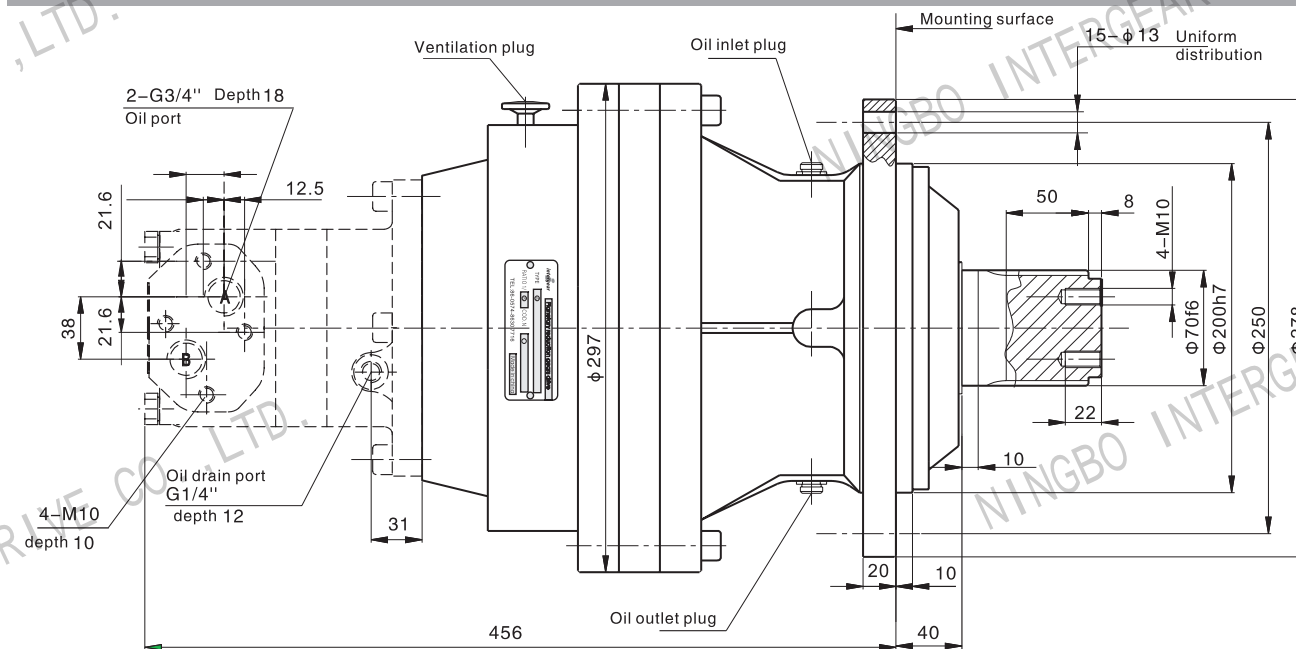
OILP 008 series planetary drives

With compact structure and strong power, our latest-developed oilp 008 series planetary drive is transmission system in construction engineering, such as conveyor and auger; also, it could be used in mine crushers and milling machines. With modular structure design and conforming to both Metric and SAE standard, you could choose different power input modes. Different flange connecting ways enable you to connect different types of motors, like radial piston motor, axial piston motor, orbit motor and electromotor. To meet different working conditions, you could also require different output shafts or gear types.

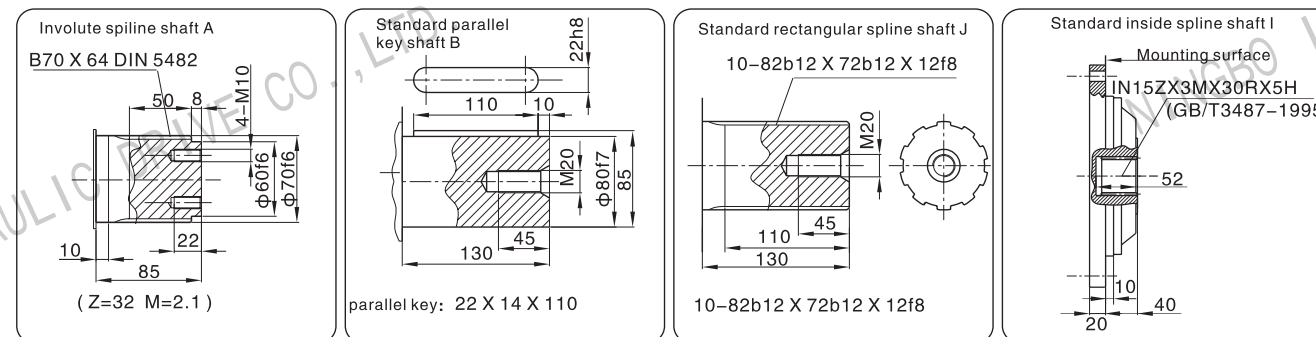
This reduction gear uses NGW planetary transmission way; separated design of planetary frame and output shaft; output shaft is supported by high-load bearing. Various types of technical treatment are applied, such as founding, forging, carburizing, heating, etc; all guarantee high stability and reliability of the machine.



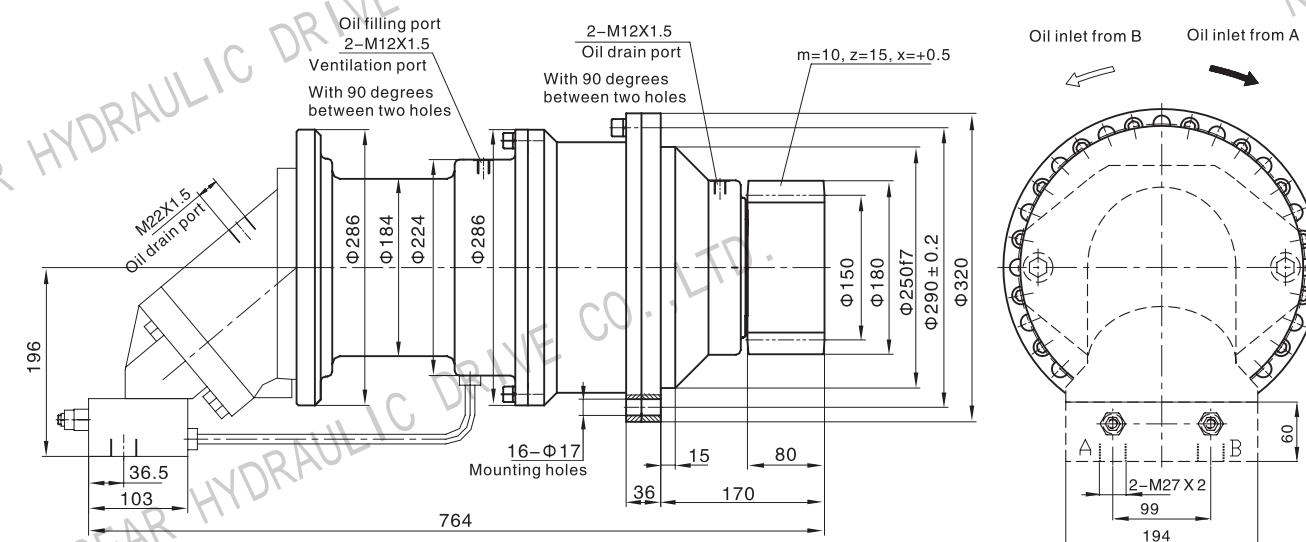
OILP0085.47 Mounting Data



Mounting Data



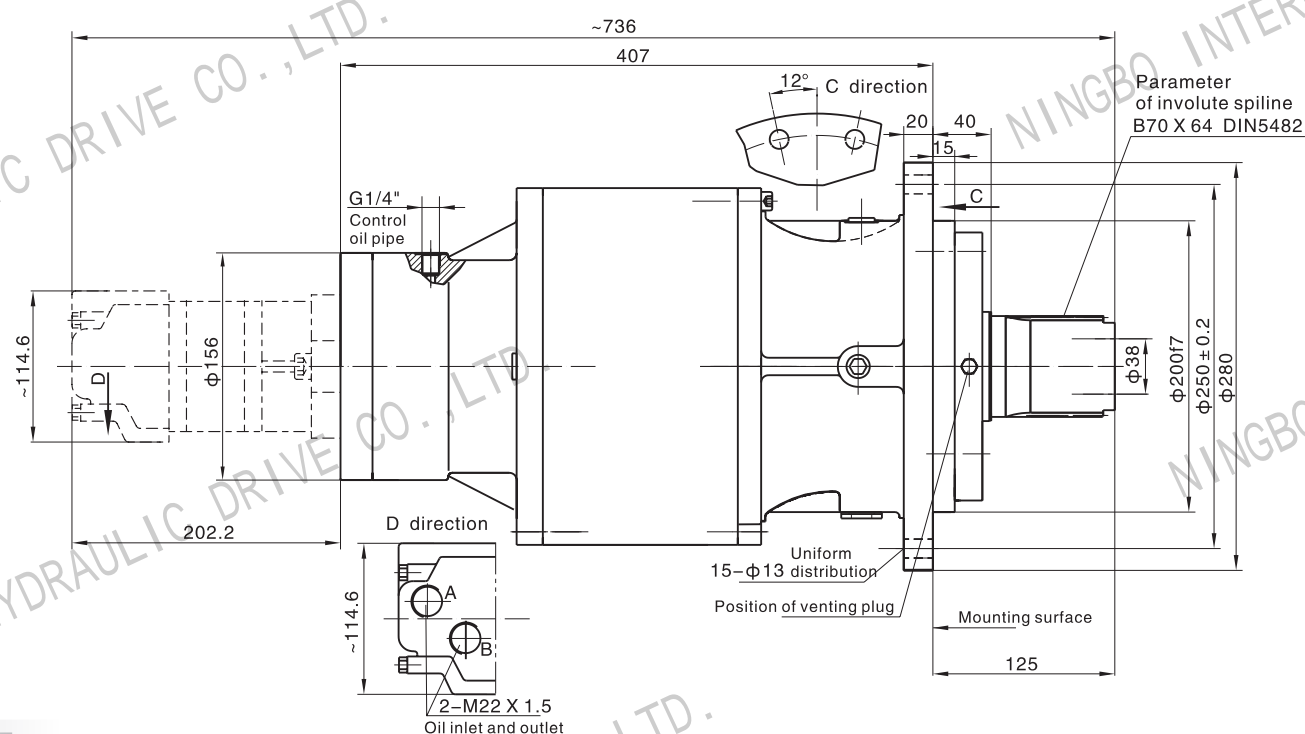
OILP009050DB Mounting Data



Technical Specification

Type	Max. Torque (N.m)	Ratios i	Max. input speed (rpm)	Max pressure (Mpa)	Braking torque (N.m)	Min. starting pressure (Mpa)	Hydraulic motors	Weight (kg)
OILP008025DB	8000	25	≤500	16	380	≥1.8	2K Series	100
OILP0085.47	8000	5.47	≤500	16	--	--	EPMZTS Series	74
OILP009050DB	9000	50.6	≤1450	25	237	≥1.8	A2FE107	

OILP008025DB Mounting Data



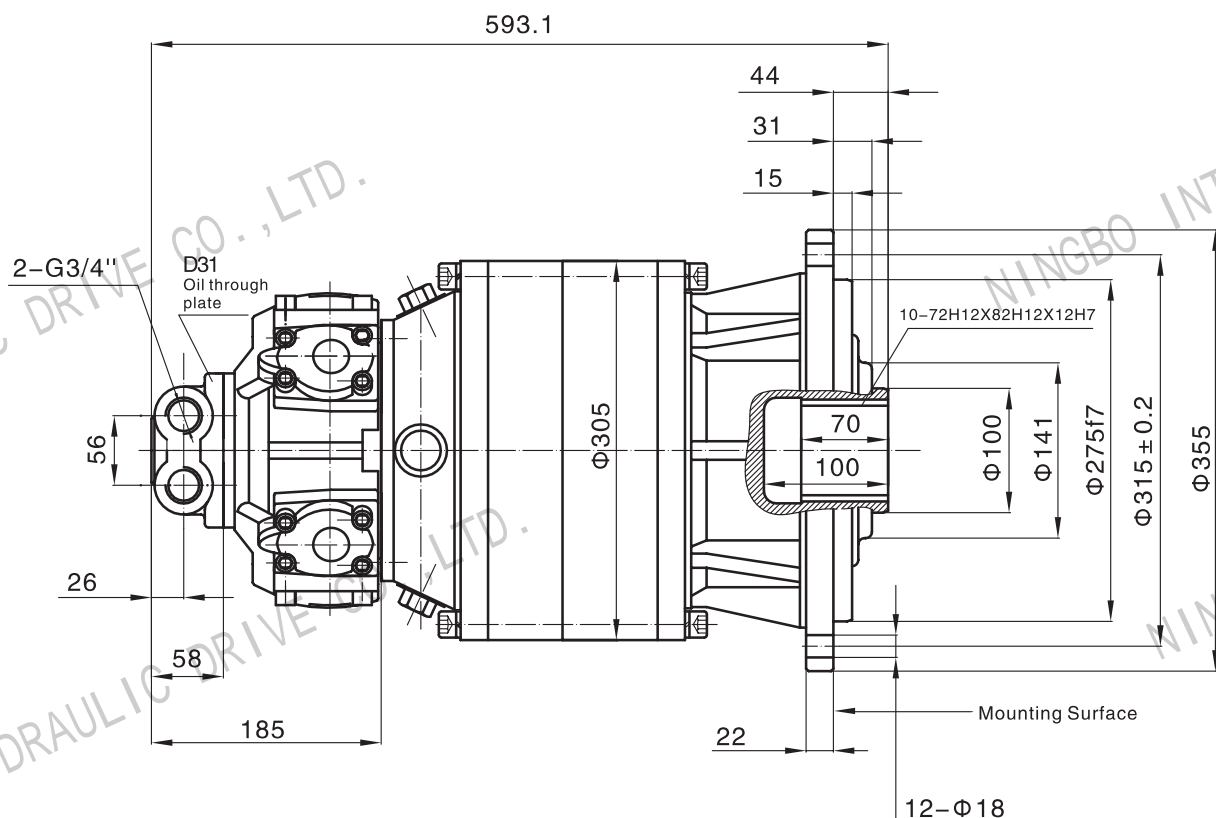
OILP High Torque-Series Planetary Drives

Our latest developed OILP010 and 015 series of planetary drives are designed to have large velocity ratio especially applicable in mining equipments, such as washing machines, extraction machines, etc. With large torque, low speed, it suits best in center and peripheral transmission extraction machine, and other machines like port cranes, and tower cranes. Compared with former solution of electromotor + cycloidal-pin wheel, this one is superior in its performance when starting with load. Moreover, it also features in long time of running without heating the gearbox, low noise and interchangeable with same type of foreign planetary drive. Recently we have already started batch production of this series, and two different types of output flange are available upon requirement.

Technical Specification

Type	Max. Torque (N.m)	Ratios i	Max. input speed (rpm)	Max. pressure (Mpa)	Max. Braking torque (N.m)	Starting pressure (Mpa)	Hydraulic motors	Weight (kg)
OILP010030D	10000	30	≤350	16	—	>0.5	NHM2	135

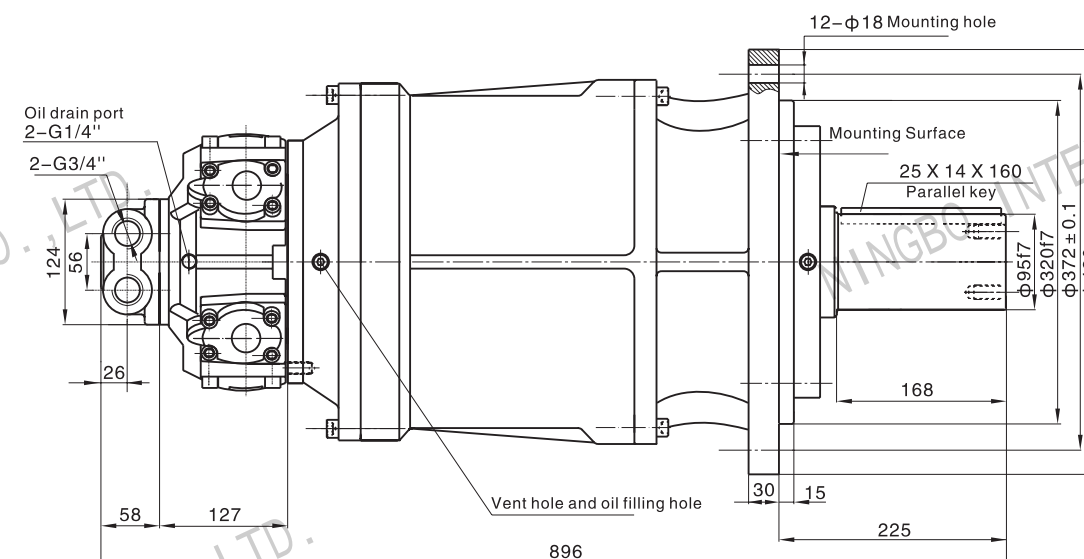
Mounting Data



Technical Specification

Type	Max. Torque (N.m)	Ratios i	Max. input speed (rpm)	Max. pressure (Mpa)	Max. Braking torque (N.m)	Starting pressure (Mpa)	Hydraulic motors	Weight (kg)
OILP010* A	10000	69 99 (96)	≤400	16	--	--	NHM2 Series	320

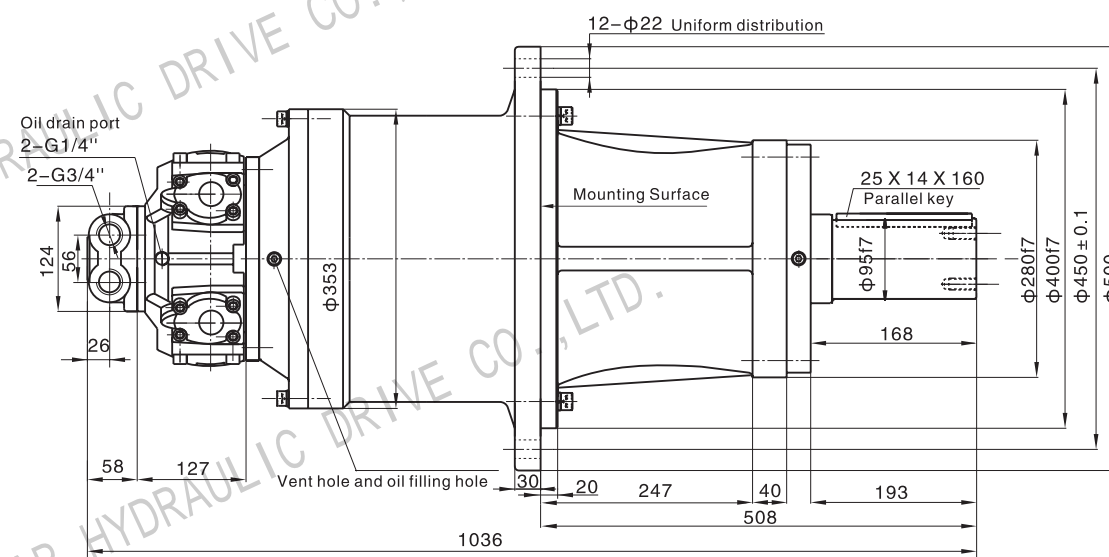
Mounting Data



Technical Specification

Type	Max. Torque (N.m)	Ratios i	Max. input speed (rpm)	Max. pressure (Mpa)	Max. Braking torque (N.m)	Starting pressure (Mpa)	Hydraulic motors	Weight (kg)
OILP010099B	10000	69 99 (96)	≤400	16	--	--	NHM2 Series	350

Mounting Data





Hydraulic crab test derrick

OILH HYDRAULIC WINCHES

Brief Introduction

OILH series of hydraulic winches adopt modular design, composing of the parts such as all kinds of distributors formed by single balance valve and shuttle valve controlling the brake, hydraulic motors, brakes, planetary speed reducers, winding drum and framework.

OILH series of hydraulic winches feature the following advantages;

The self-contained valve set helps to simplify the hydraulic system, thus the users only need to equip with pump stations and reverse valves;

The balance valve ensures the stability of the winches during uprising and down setting;

The surface hardening treatment of the gears and nitrogen treatment of the gear wheels ensure lower noise, better loading capacity and more reliability;

The design of setting reduction gears inside of the winching drum, helps to save space,

thus having a compact construction;

The modular design greatly facilitates maintenance;

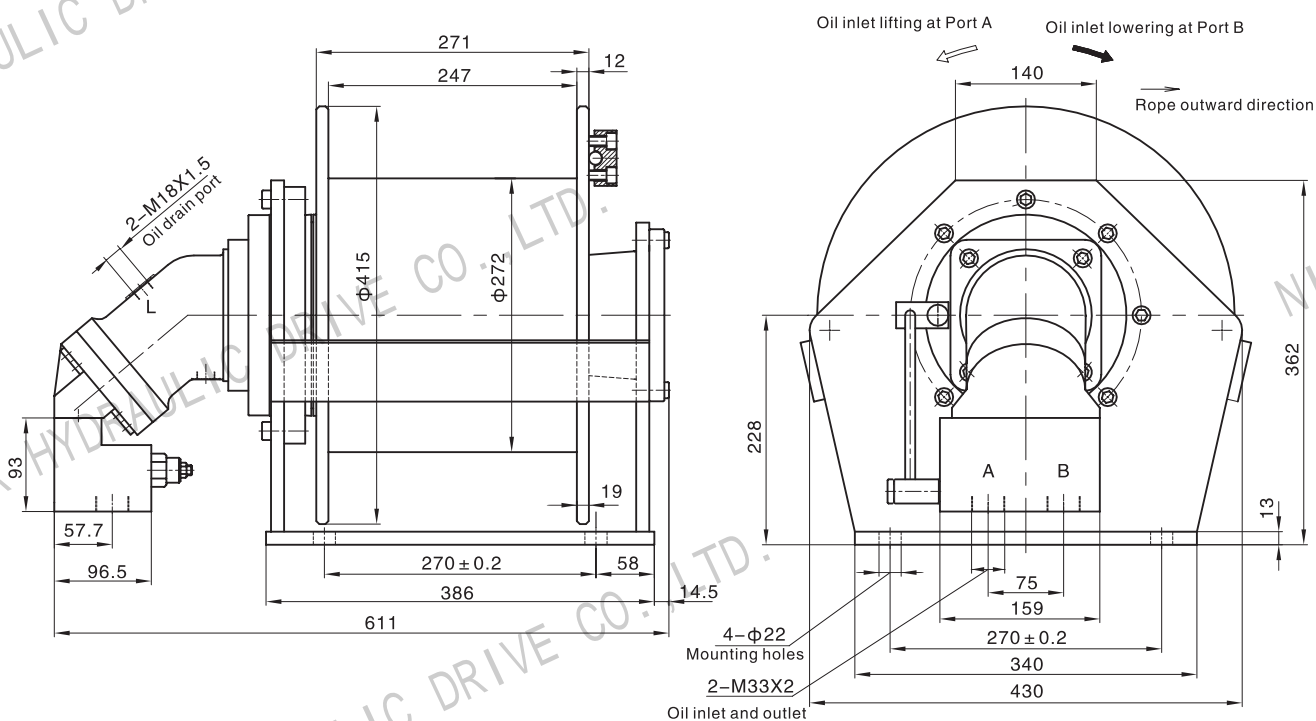
Higher efficiency and longer life

OILH series of hydraulic winches are applicable in various hoisting and drawing equipments in shipping, transporting and mining industries, such as container cranes, railway cranes, and crawler mounted cranes, etc.

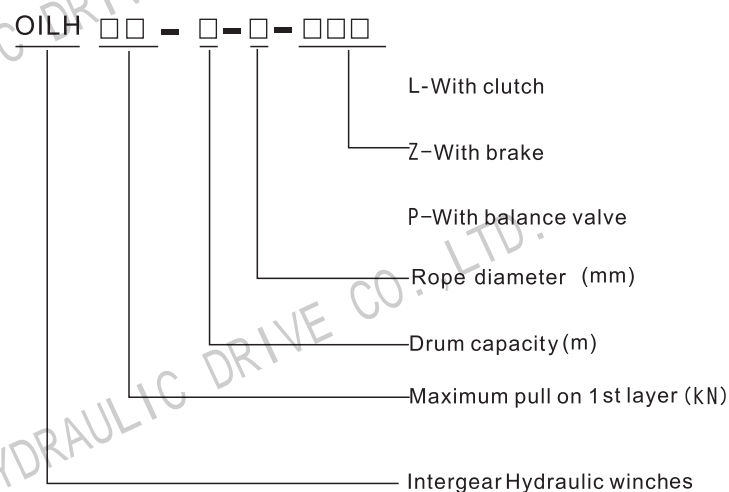
Technical Specification

Type	layer	pull force	rope speed	rope capacity	total displacement	lift pressure	flow	rope diameter	hydraulic motor	ratios
	(Layer)	(KN)	(m/min)	(m)	(ml/rev)	ΔP (Mpa)	(L/min)	(mm)		
OILH15-50-13-ZP	1	15	75	13.4	925.2	16.4	77.5	Φ13	A2FM45/61W-ZB100	20.3
	2	13.7	81.8	31						
	3	12.7	88.7	50						

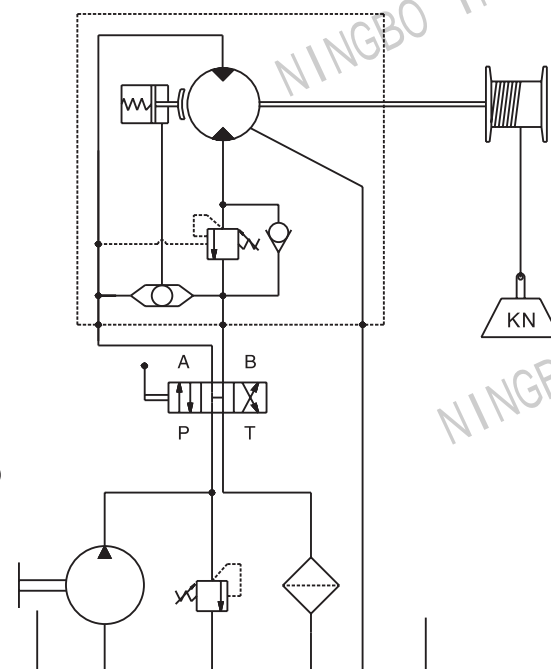
OILH15-50-13-ZP Mounting Data



Order Code

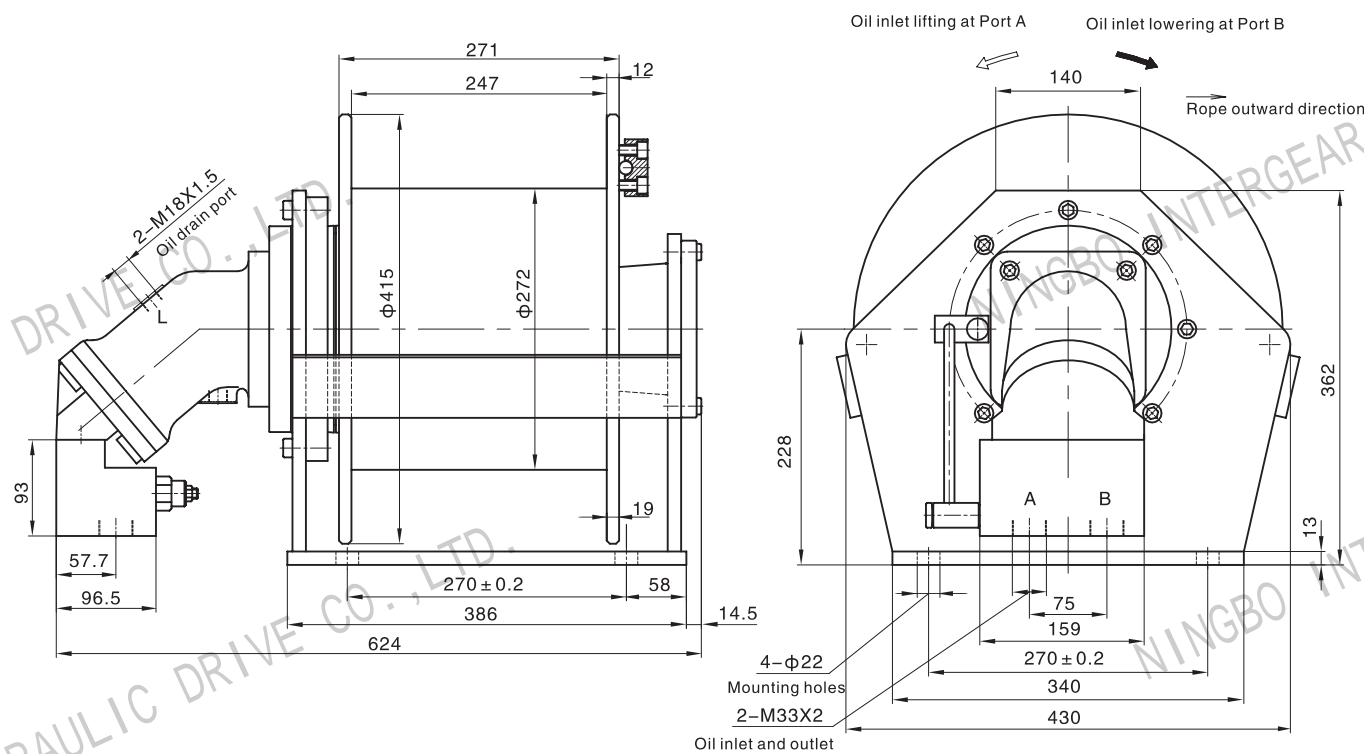


Hydraulic schematic diagram

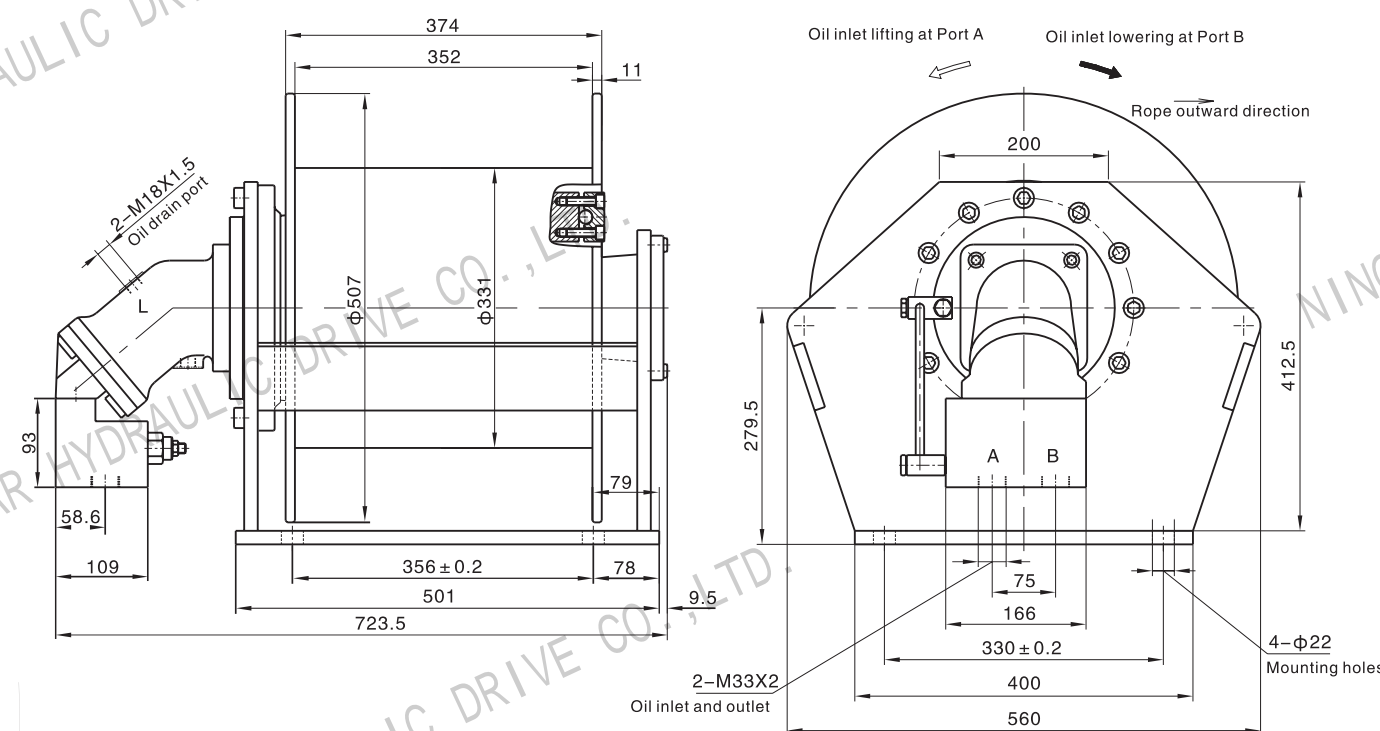



OILH20-50-13-ZP
Technical Specification

Type	layer	pull force	rope speed	rope capacity	total displacement	lift pressure	flow	rope diameter	hydraulic motor	ratios
	(Layer)	(KN)	(m/min)	(m)	(ml/rev)	(Mpa)	(L/min)	(mm)		
OILH20-50-13-ZP	1	20	61	13.4	1138.3	17.8	77.5	φ 13	A2FM56/61W-ZB100	20.3
	2	18.3	66.5	31						
	3	16.9	72.1	50						

OILH20-50-13-ZP Mounting Data

OILH30-71-16-ZP
Technical Specification

Type	layer	pull force	rope speed	rope capacity	total displacement	lift pressure	flow	rope diameter	hydraulic motor	ratios
	(Layer)	(KN)	(m/min)	(m)	(ml/rev)	(Mpa)	(L/min)	(mm)		
OILH30-71-16-ZP	1	30	55	19.6	2098	17.7	106	Φ16	A2FM56/61W-AB100	37.4
	2	27.5	60	44.6						
	3	25.3	65.2	71.7						

OILH30-71-16-ZP Mounting Data


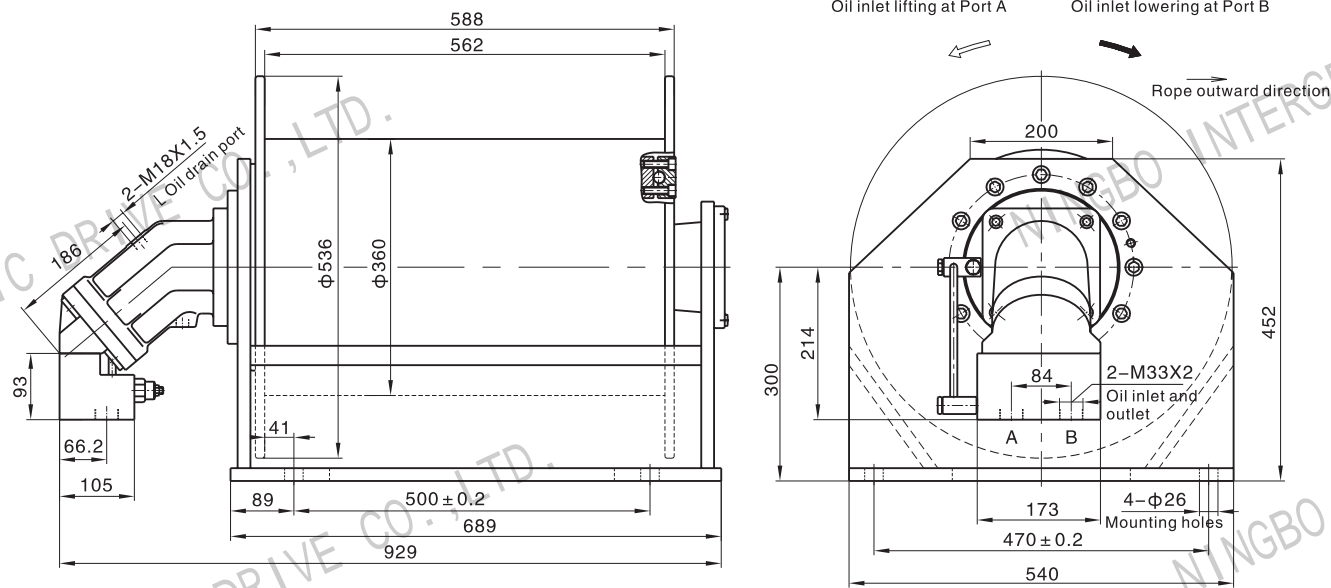


OILH35-131-16-ZP

Technical Specification

Type	layer	pull force	rope speed	rope capacity	total displacement	lift pressure	flow	rope diameter	hydraulic motor	ratios
	 (Layer)	 (KN)	 (m/min)	 (m)	 (ml/rev)	ΔP (Mpa)	 (L/min)	 (mm)		
OILH35-131-16-ZP	1	35.2	17.1	38	3007	15.7	43.6	Φ16	A2FM8061W-ZB100	37.4
	2	32.5	18.6	83						
	3	30.1	20	131						

OILH35-131-16-ZP Mounting Data

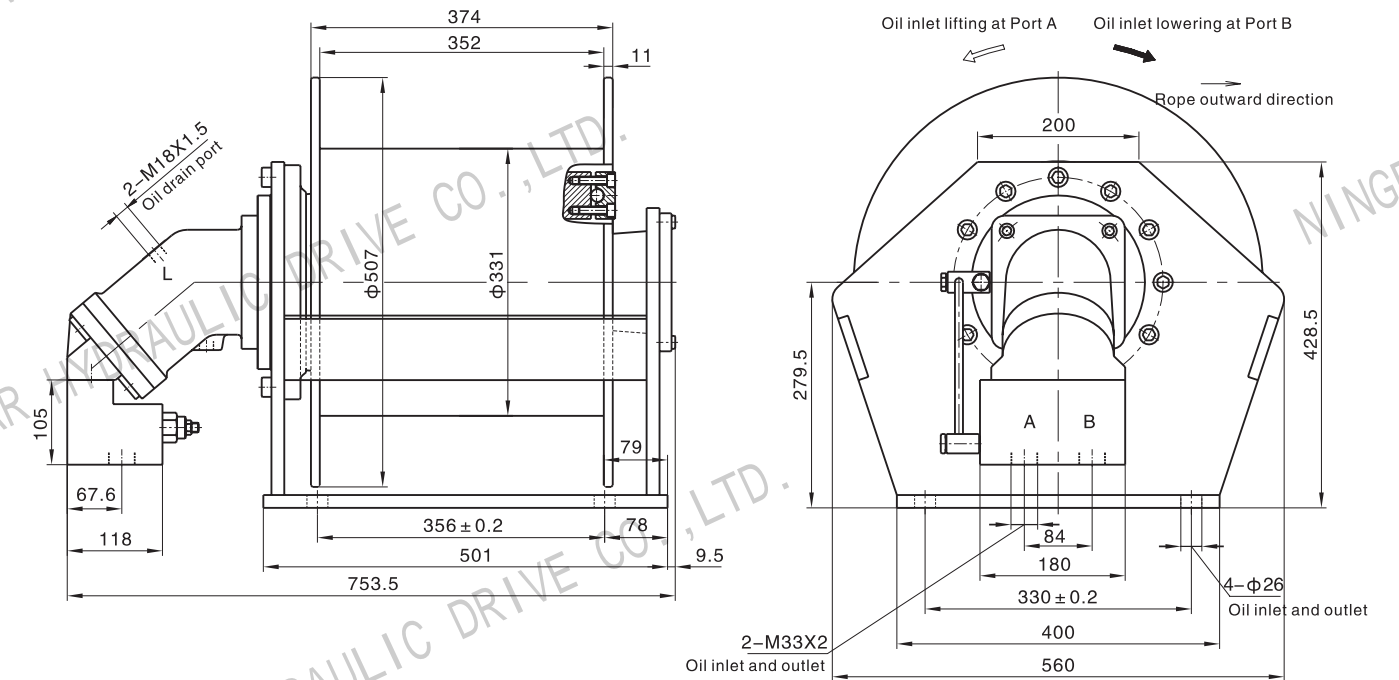


OILH40-71-16-ZP

Technical Specification

Type	layer	pull force	rope speed	rope capacity	total displacement	lift pressure	flow	rope diameter	hydraulic motor	ratios
	 (Layer)	 (KN)	 (m/min)	 (m)	 (ml/rev)	ΔP (Mpa)	 (L/min)	 (mm)		
OILH40-71-16-ZP	1	40	50	19.6	3007	16.4	138	Φ16	A2FM8061W-ZB100	37.4
	2	36.6	54.6	44.6						
	3	33.8	59.2	71.7						

OILH40-71-16-ZP Mounting Data

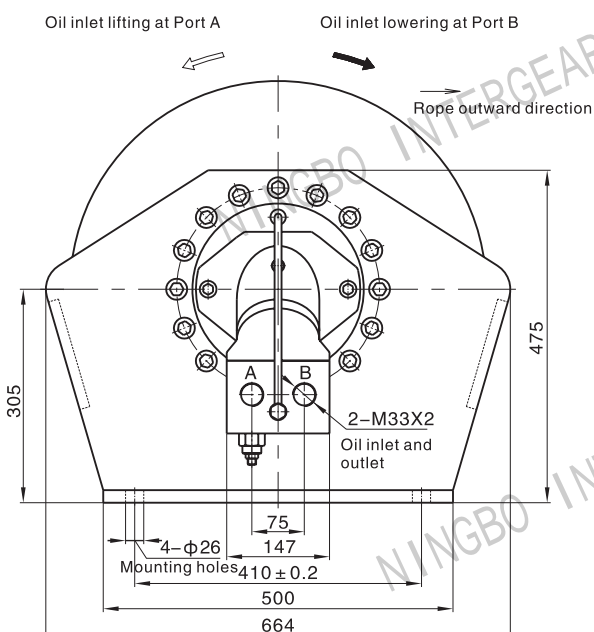
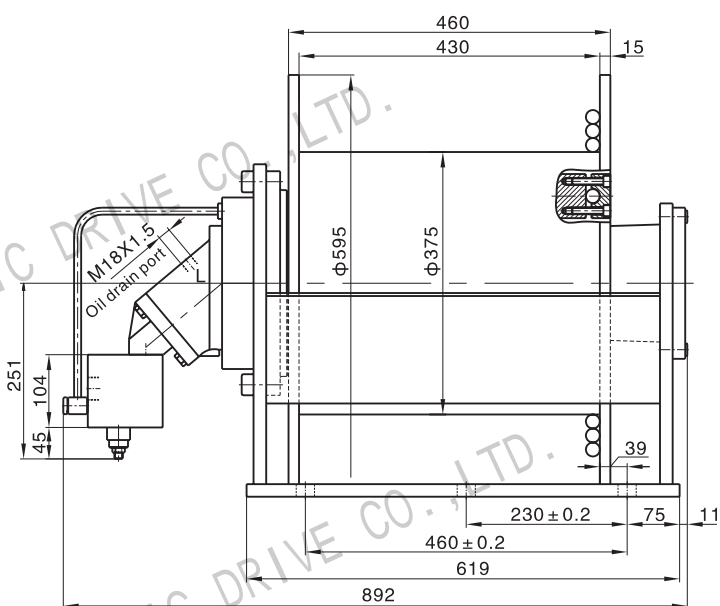



OILH50-80-20-ZP

Technical Specification

Type	layer	pull force	rope speed	rope capacity	total displacement	lift pressure	flow	rope diameter	hydraulic motor	ratios
	(Layer)	(KN)	(m/min)	(m)	(ml/rev)	(Mpa)	(L/min)	(mm)		
OILH50-80-20-ZP	1	50	30	25.4	4870	14.7	118	Φ20	A2FE45/61W-NZL100	106.8
	2	45.4	33	53.4						
	3	41.6	36	80.3						

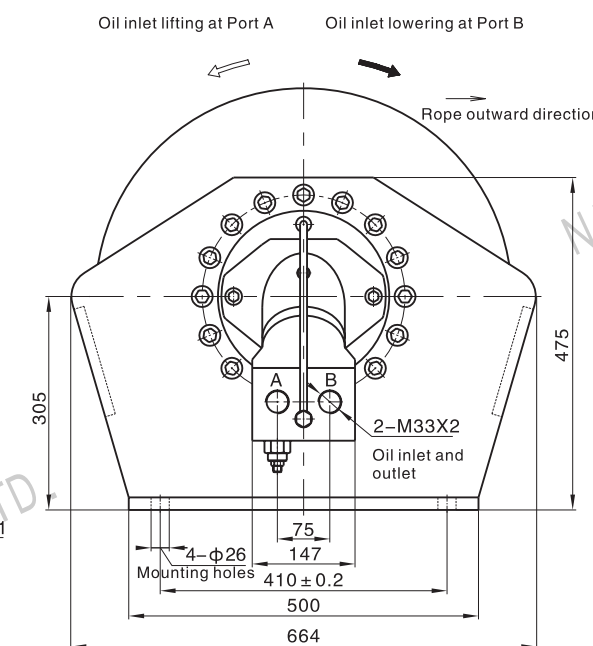
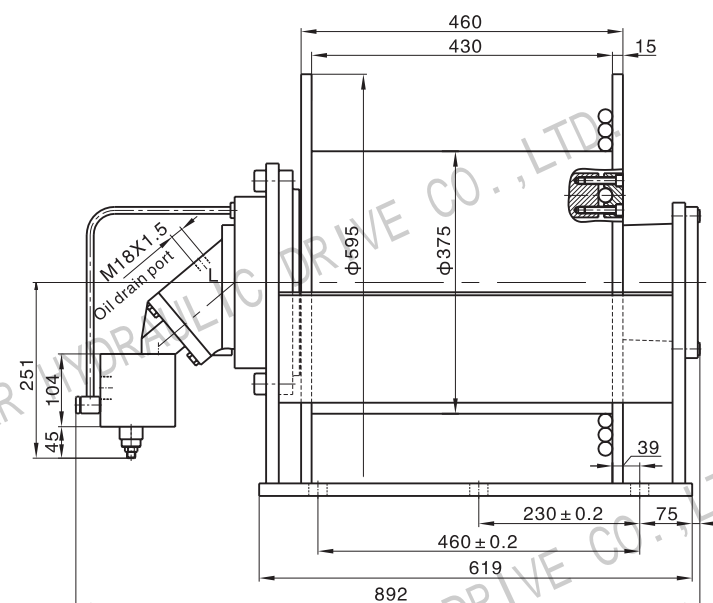
OILH50-80-20-ZP Mounting Data


OILH60-80-20-ZP

Technical Specification

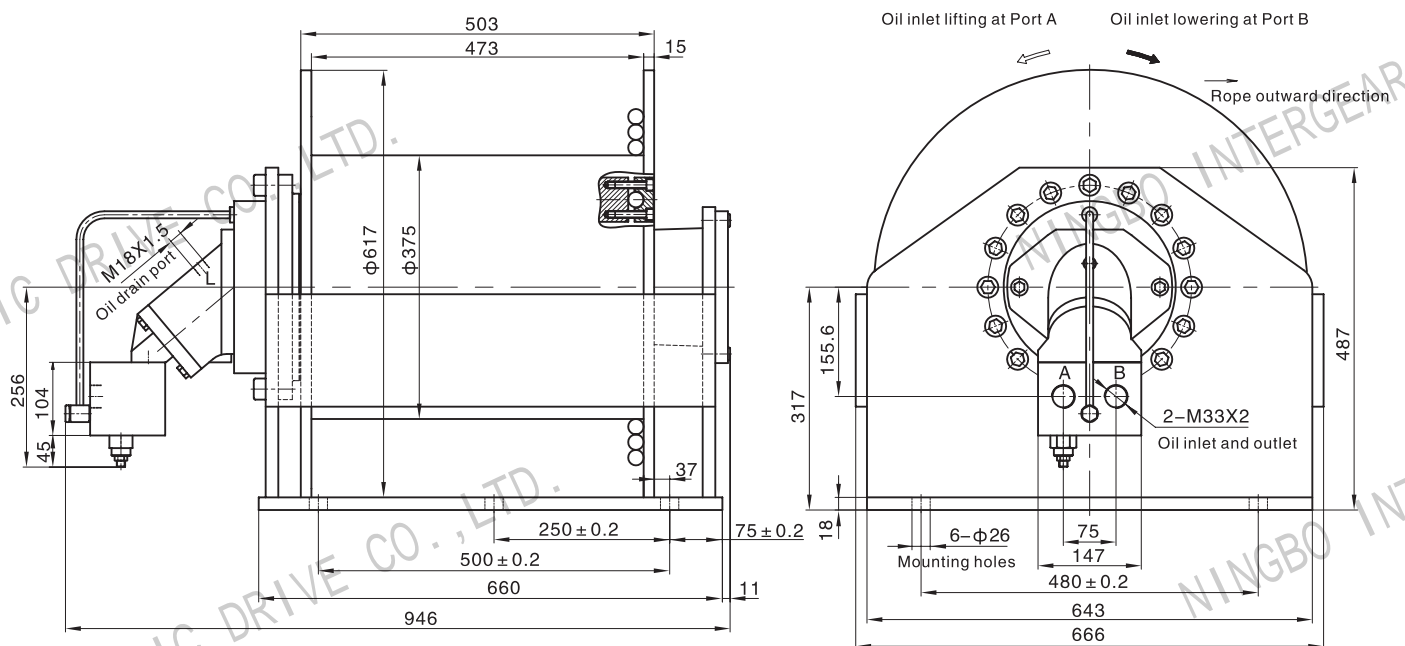
Type	layer	pull force	rope speed	rope capacity	total displacement	lift pressure	flow	rope diameter	hydraulic motor	ratios
	(Layer)	(KN)	(m/min)	(m)	(ml/rev)	(Mpa)	(L/min)	(mm)		
OILH60-80-20-ZP	1	60	30	25.4	4870	17.7	118	Φ20	A2FE45/61W-NZL100	106.8
	2	54.5	33	53.4						
	3	50	36	80.3						

OILH60-80-20-ZP Mounting Data




OILH70-81-22-ZP
Technical Specification

Type	layer	pull force	rope speed	rope capacity	total displacement	lift pressure	flow	rope diameter	hydraulic motor	ratios
	(Layer)	(KN)	(m/min)	(m)	(ml/rev)	(Mpa)	(L/min)	(mm)		
OILH70-81-22-ZP	1	70	30	25.6	5991.5	16.8	143.8	Φ22	A2FE56/61W-NZL100	106.8
	2	63	33.2	53.9						
	3	57.3	36.5	81.4						

OILH70-81-22-ZP Mounting Data

OILH70-44-24-ZP
Technical Specification

Type	layer	pull force	rope speed	rope capacity	total displacement	lift pressure	flow	rope diameter	hydraulic motor	ratios
	(Layer)	(KN)	(m/min)	(m)	(ml/rev)	(Mpa)	(L/min)	(mm)		
OILH70-44-24-ZP	1	77	33.6	23.3	7376.8	15.5	170.5	Φ24	A2FE80/61W-NZL100	92.21
	2	70	37	44						

OILH70-44-24-ZP Mounting Data
