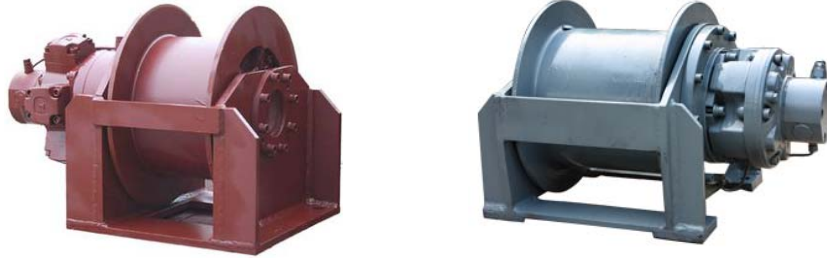




GMF series Free Fall Hydraulic Winch

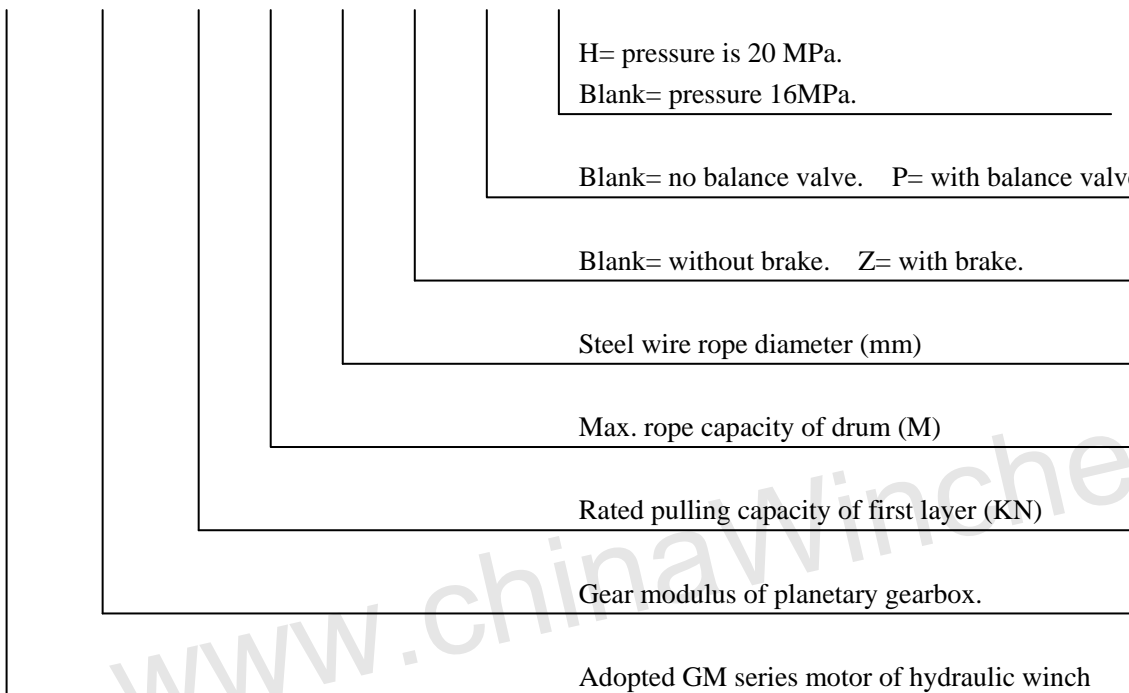


GMF series free-fall function hydraulic winch consist of many kinds of distributor with one-way valve, shuttle valve, hydraulic motor, brake, planetary gearbox, drum, support frame and clutch.

Users only needs be coupled by fitting with hydraulic power unit and directional valve. Due to the winch itself with valve sets, not only the hydraulic system can be simplified, but also enhances the working reliability of the transmission drives. Furthermore, the problem of shaking in unloading and secondary downslide in lifting or lowering also can be solved easily. So the free fall winch works quite stably during the hoisting and lowering. And the end grade of the transmission has clutch, its has free lowering function of empty hook.

Ordering code:

GMF * * * * Z P H



Description of parameters:

- 1- The oil supply is the theoretical flow of hydraulic unit, namely the calculated value of under conditions of considering the system efficiency of 90%.
- 2- The rope capacity of drum is the theoretical max. capacity to hold the rope. The actually allowable effective rope capacity should consider keeping 3 loops of steel wire rope un-used to prevent to rope end from disengagement.

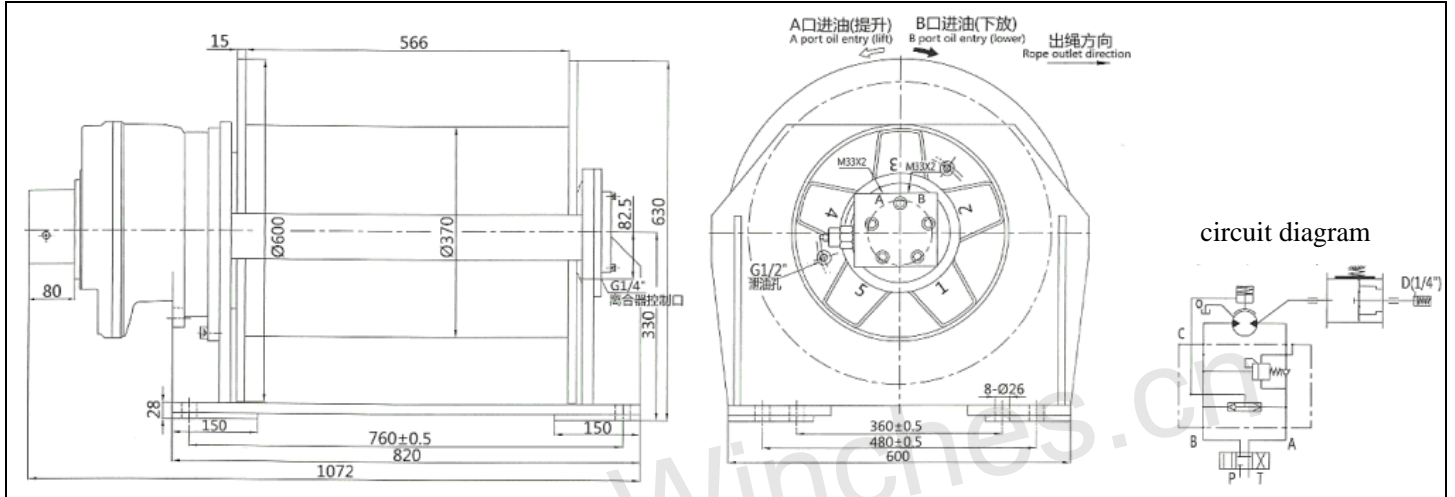
Example model:

GMF4-50-100-20-ZP indicates:

The hydraulic winch with clutch at the end of transmission and with planetary gearbox modulus of 4, the pulling force capacity of 50 kN at the first layer, drum rope capacity is 100 M, steel wire rope diameter is 20mm, it has brake and one-way balance valve and pressure 20MPa.

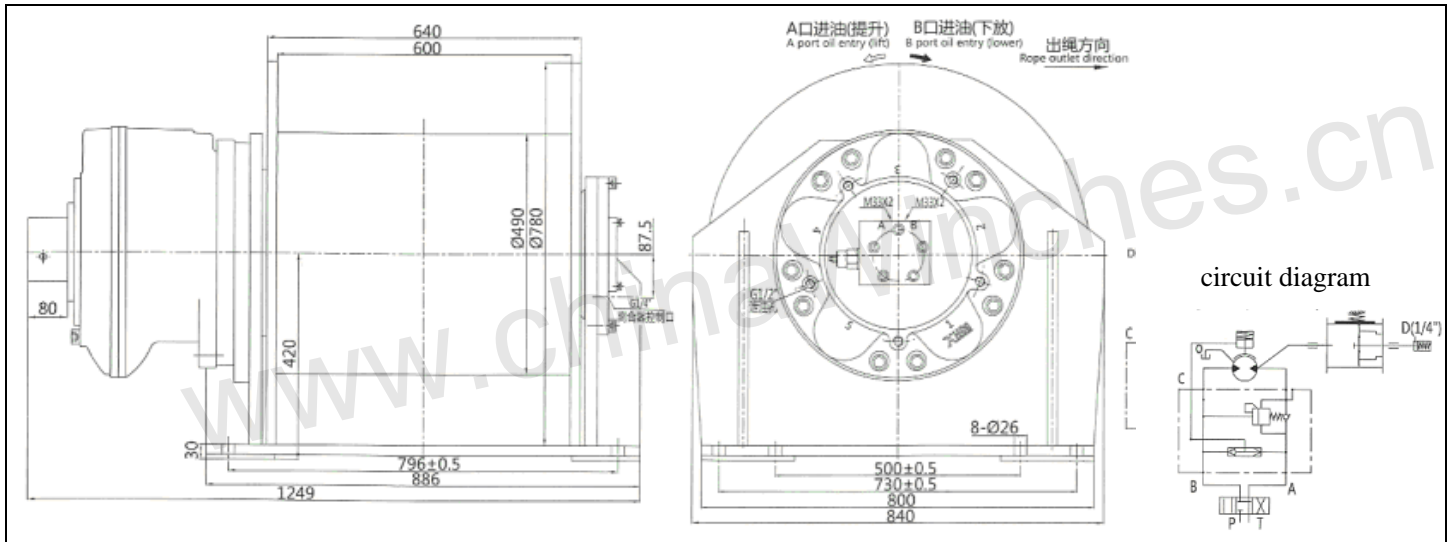


GMF 4 series hydraulic winch



Model	First layer		Motor power (KW)	Total disp. (ml/r)	Differential of working pressure (MPa)	Rope dia. (mm)	Rope capacity (M)	Model of hydraulic motor	Model of planetary gearbox
	Pulling force (KN)	Rope speed (M/min)							
GMF4-50-100-20-ZP	50	0-40	80	3960	17.5	20	100	GM3-800D240	C4A
GMF4-60-90-21.5-ZP	60	0-40	80	4802	17.5	21.5	90	GM3-800D240	C4D

GMF 5 series hydraulic winch



Model	First layer		Motor power (KW)	Total disp. (ml/r)	Differential of working pressure (MPa)	Rope dia. (mm)	Rope capacity (M)	Model of hydraulic motor	Model of planetary gearbox
	Pulling force (KN)	Rope speed (M/min)							
GMF5-80-100-24-ZP	80	0-40	120	9983	14.8	24	120	GM5-1800D240	C5D
GMF5-100-100-28-ZP	100	0-40	120	11040	16	28	100	GM5-1800D240	C5D