RobinSon



Compact Hydraulic Power System Solution

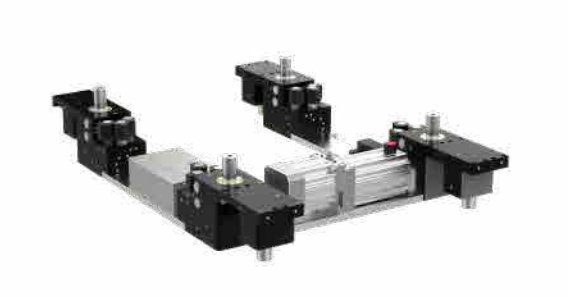




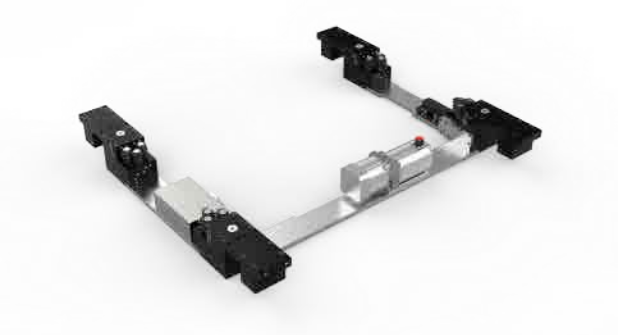




RGV Hydraulic System



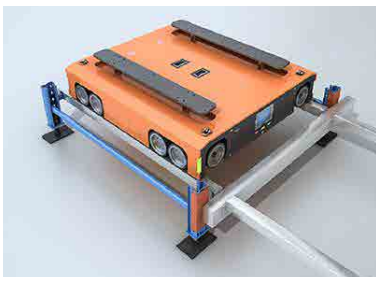
2Ton	
Rated load	2Ton
Voltage	48V
Lifting stroke	50MM
Reversing stroke	34MM
Synchronization accuracy	≤stroke*3%
Speed	≥15mm/s

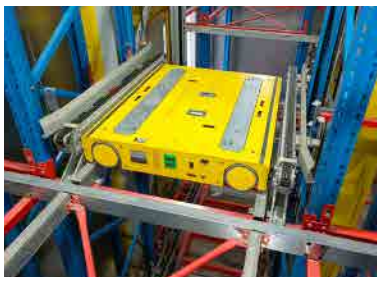


3Ton	
Rated load	3Ton
Voltage	48V
Lifting stroke	50MM
Reversing stroke	34MM
Synchronization accuracy	≤stroke*3%
Speed	≥10mm/s

The hydraulic system of the four-way shuttle car is designed specifically for the lifting and reversing mechanism of the intelligent logistics three-dimensional warehouse four-way car, mainly to solve the problems of oil leakage, complex assembly, and difficult maintenance in traditional pipeline oil circuits. After modularization of the system, assembly and maintenance are simpler and more convenient, and the equipment is neat and beautiful.







Electric Hydraulic Actuator

This Electric Hydraulic Actuator consists of a hydraulic station, an oil cylinder, a travel limit switch, and extension and retraction controllers. It has a simple structure, no external pipe oil, and can stop and maintain pressure at any position. It has passed CE certification.



EHY4030	
Voltage	24/48V
Thrust	0.5~2Ton
Pulling	thrust*30%
Stroke	12~80CM
Speed	11~45MM/S
IP grade	IP65

Standard Product Ordering Code

EHY4030 ☐ DC ☐ -H ☐ ☐ V ☐ - W ☐ - ☐ S ☐

Power (W)	Voltage (DC V)	Travel H (mm)	Mounting distance	No load speed	Max thrust (T)(Mpa)	Installation Mode	Mounting Hole Dia(mm)	Retract length (mm)
350	24(35A Max)	120	283.3	15 (0.32)	1.5 （14Mpa)	VF (Vertical)	13	313.8
		150	313.3	23 (0.50)	1.2 （11Mpa)			343.8
	48(25A Max)	200	363.3	35 (0.75)	0.8 （7Mpa)			393.8
		250	413.3	(The above shows the corresponding speed and maximum thrust for the 48V 350W motor. For voltages below 48V, the maximum thrust is only 75% of the value.)				443.8
		300	463.3					493.8
		350	513.3					543.8
		400	563.3					593.8
850	24(55A Max)	450	613.3	15 (0.32)	2.0 （18Mpa)	HF (Horizontal)	Other (customization)	643.8
		500	663.3	23 (0.50)	2.0 （18Mpa)			693.8
	48(40A Max)	550	713.3	35 (0.75)	1.6 （16Mpa)			743.8
		600	763.3	(The above shows the corresponding speed and maximum thrust for the 48V 850W motor. If voltages is 48V, the maximum thrust is only 75% of the value.)				793.8
		650	813.3					843.8
		700	863.3					893.8
		750	913.3					943.8
		800	963.3					993.8

Description：

1. The product with a DC brush motor, working system is S2, max load working time 1 minute, 15%ED (duty cycle).
2. The maximum load speed is 80% of the no-load speed.
3. At the corresponding speed, the thrust value can be selected to be less than the Max thrust value if needs.
4. The Max pulling is 30% of the Max thrust. By default, it is set about 50% of the Max value.

Electric Hydraulic Actuator



EHY5030	
Voltage	24/48V
Thrust	1.5~3Ton
Pulling	thrust*50%
Stroke	15~80CM
Speed	9~40MM/S
IP grade	IP65

Standard Product Ordering Code

EHY5030 ☐ DC ☐ – H ☐ ☐ V ☐ – W ☐ – ☐ S ☐

Power (W)	Voltage (DC V)	Travel H (mm)	Mounting distance	No load speed (mm/s)	Max thrust (T)(Mpa)	Installation Mode	Mounting Hole Dia(mm)	Retract length
		150	318.3					348.8
350	24(35A Max)	200	368.3	9 (0.32)	2.4 （13Mpa)			398.8
	48(25A Max)	250	418.3	15 (0.50)	2.0 （10Mpa)			448.8
		300	468.3	(The above shows the corresponding speed and maximum thrust for the 48V 350W motor. For voltages below 48V, the maximum thrust is only 75% of the value.)				498.8
		350	518.3			VF		548.8
		400	568.3			(Vertical)	16	598.8
		450	618.3					648.8
		500	668.3			HF	Other	698.8
850	24(55A Max)	550	718.3	15 (0.50)	3.0 （17Mpa)	(Horizontal)	(customization)	748.8
	48(40A Max)	600	768.3	22 (0.75)	2.8 （16Mpa)			798.8
		650	818.3	(The above shows the corresponding speed and maximum thrust for the 48V 850W motor. If voltages is 48V, the maximum thrust is only 75% of the value.)				848.8
		700	868.3					898.8
		750	918.3					948.8
		800	968.3					998.8

Description：

1. The product with a DC brush motor, working system is S2, max load working time 1 minute, 15%ED (duty cycle).
2. The maximum load speed is 80% of the no-load speed.
3. At the corresponding speed, the thrust value can be selected to be less than the Max thrust value if needs.
4. The Max pulling is 50% of the Max thrust. By default, it is set about 50% of the Max value.







Electric Hydraulic Actuator

This Electric Hydraulic Actuator adopts a plunger pump and integrated design, with a simple structure and no external pipe oil. Equipped with a one-way throttle valve, it can eliminate the shaking caused by gravity; Equipped with a bidirectional hydraulic lock, it can stop holding pressure at any position.



EHYM4020	
Voltage	24/48V
Thrust	0.5~1.2Ton
Pulling	thrust*50%
Stroke	8~20CM
Speed	10~15MM/S
IP grade	IP65

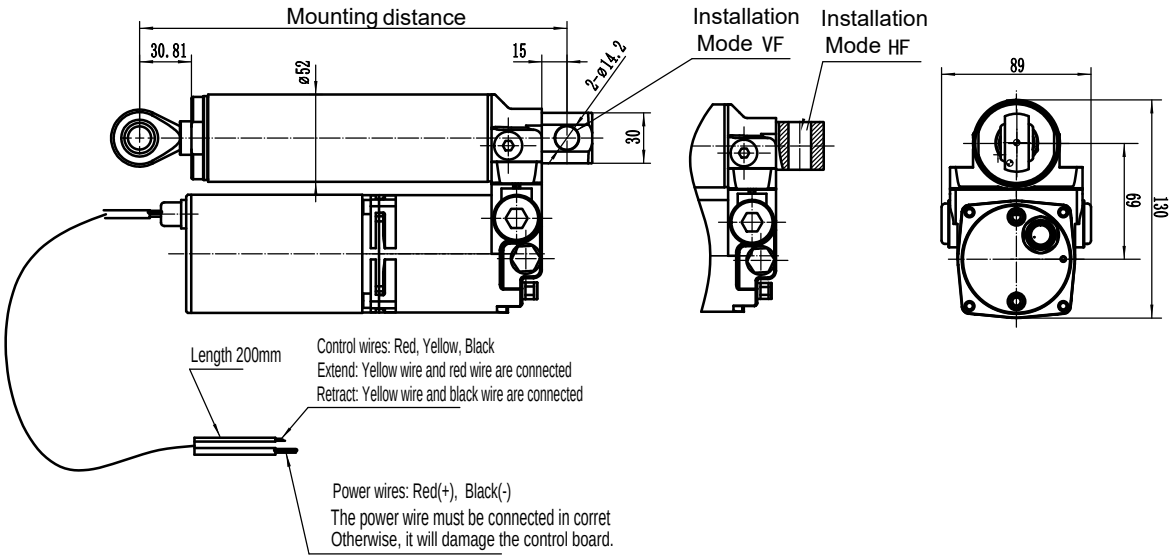
Standard Product Ordering Code

EHYM4020 ☐ DC ☐ -H ☐ ☐ V ☐ - W ☐ L ☐ - ☐ S ☐

Power (W)	Voltage (DC V)	Travel H (mm)	Mounting distance	No load speed	Max thrust (T)	Max pulling (T)	Installation Mode	Mounting Hole
500	24	100	254. 7	13	1. 0	0. 5	VF	14. 2
500	48	120	274. 7		1. 2	0. 6		
		150	304. 7				HF	
		200	354. 7					

Description：

1. The product with a DC brushless motor, working system is S2, max load working time 30s, 20%ED (duty cycle).
2. The maximum load speed is 80% of the no-load speed.
3.The pulling is set about 50% of the Max value by default.



Electric Hydraulic Actuator



EHYM5030	
Voltage	24/48V
Thrust	1~2.0Ton
Pulling	thrust*50%
Stroke	8~15CM
Speed	6~10MM/S
IP grade	IP65

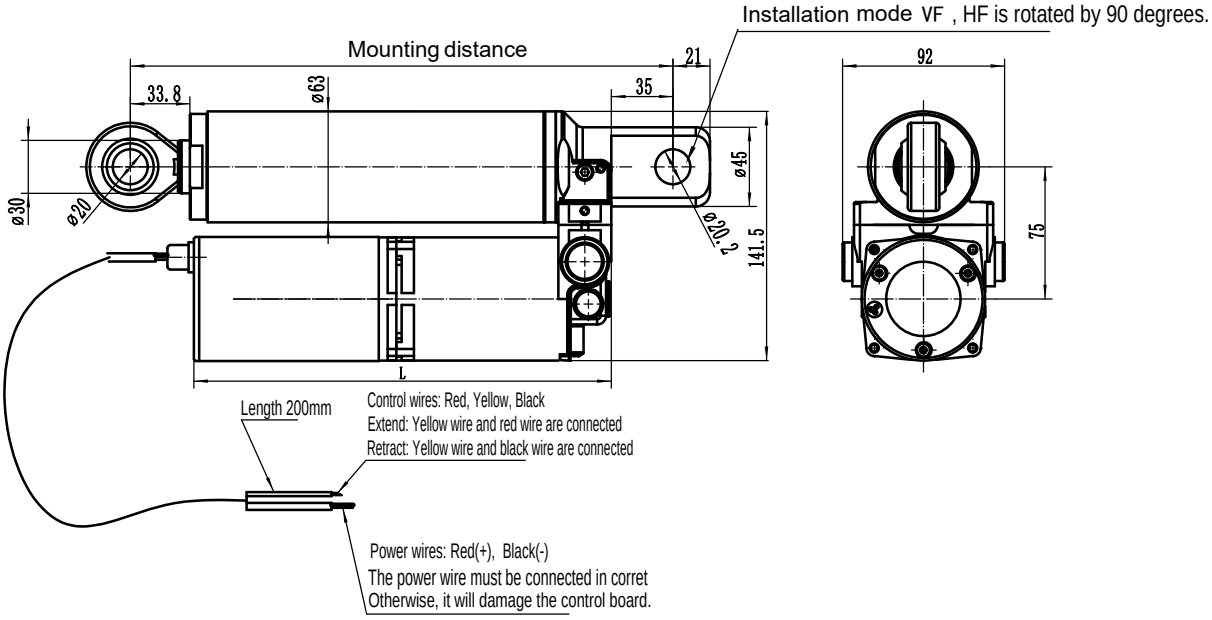
Standard Product Ordering Code

EHYM5030 ☐ DC ☐ -H ☐ ☐ V ☐ - W ☐ L ☐ - ☐ S ☐

Power (W)	Voltage (DC V)	Travel H (mm)	Mounting distance	No load speed	Max thrust (T)	Max pulling (T)	Installation Mode	Mounting Hole
500	24	50	238	8	1. 5	0. 7	VF	20. 2
500	48	100	288		2. 0	1. 0		
		120	308				HF	
		150	338					

Description：

1. The product with a DC brushless motor, working system is S2, max load working time 30s, 20%ED (duty cycle).
2. The maximum load speed is 80% of the no-load speed.
3.The pulling is set about 50% of the Max value by default.



Electric Hydraulic Actuator



EHYP4020	
Voltage	24V/48V
Thrust	0.5~1.5Ton
Pulling	thrust*50%
Stroke	8~20CM
Speed	10~15MM/S
Material	304/316 stainless steel
IP grade	IP68

This main material of the Electric Hydraulic Actuator is stainless steel, which has strong corrosion resistance. Protection level IP68, suitable for special working environments such as seaside and underwater.



Hydraulic Power Unit

Various hydraulic power units can be customized according to costomer requirements.



AGV Hydraulic Unit

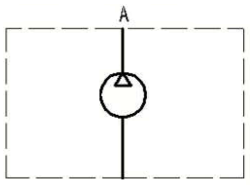


Micro Plug-in Plunger Pump

Micro plug-in plunger pump features three internal plungers, making it an efficient fixed displacement pump that can use hydraulic oil, brake oil, low viscosity liquids, and non-aqueous liquids as working media.

Suitable for many applications that require compact hydraulic power, including automotive brakes, trailer brakes, buoys, inkjet, marine, medical, and special purposes.



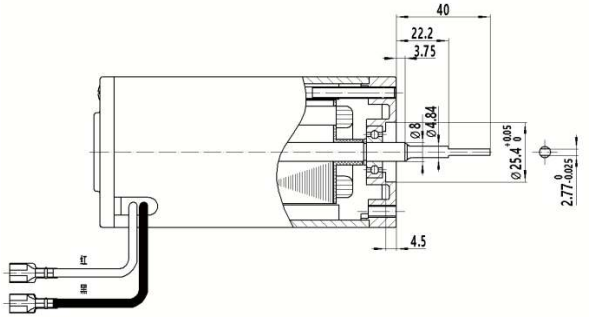


Schematic Diagram

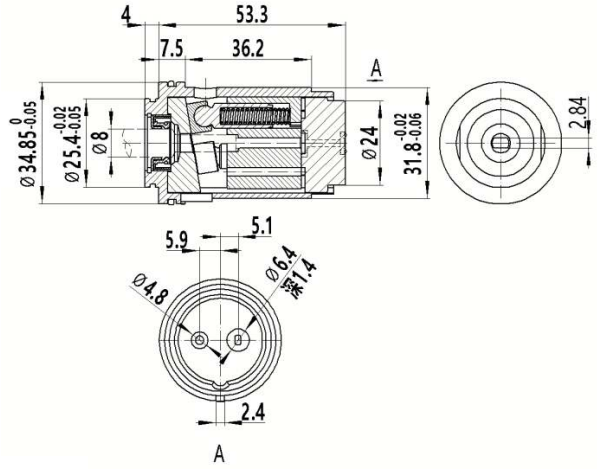
Standard Product Ordering Code

MPP	☐	☐
Max RPM :4500rpm	Displacement (cc/Rev)	Seal option
Example: MPP0.16N	0.10 20 Mpa 0.16 20 Mpa 0.25 18 Mpa 0.32 15 Mpa	N: NBR (Standard) V: FR E: EPDM

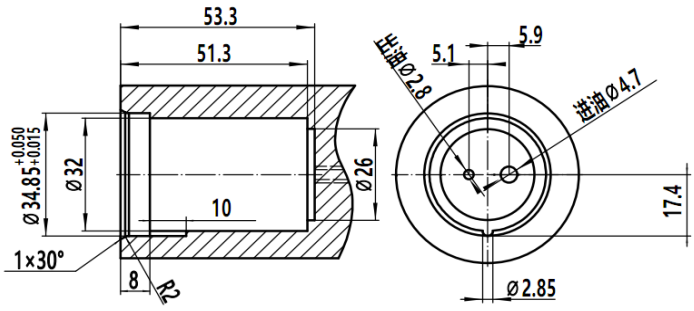
Matching shaft dimensions



Plunger Pump Dimensions



Matching manifold block dimensions



RobinSon

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