

ORBIT HYDRAULIC SYSTEM

Mobile : 9998789116
Mobile : 8000000816

E-mail : hydraulicmotor@gmail.com
E-mail : orbithydraulic@gmail.com

Web : www.orbithydraulic.com

ORBIT Hydraulic Products Range Of Hydraulic Motors, Pumps, Valves, Power Packs, Mobile Control Valves



ORBIT make Hydraulic Motors of OHM OHP OHR OHH OHS OHT OHV Manufacturers & Suppliers in India



ORBIT HYDRAULIC MOTORS



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OHM SERIES

INTRODUCTION

WHM series motor are small volume, economical type, which is designed with shaft distribution flow, which adapt the Gerotor gear set design and provide compact volume, high power and low weight.



CHARACTERISTICS

1. Advanced manufacturing devices for the Gerotor gear set, which provide small volume, high efficiency and long life.
2. Shaft seal can bear high pressure of motor of which can be used in parallel or in series.
3. Advanced construction design, high power and low weight.



APPLICATION

- Conveyors
- Textile machines
- Mining machinery
- Machine tools
- Ventilators
- Construction plant equipment and access platforms etc.

SPECIFICATION DATA

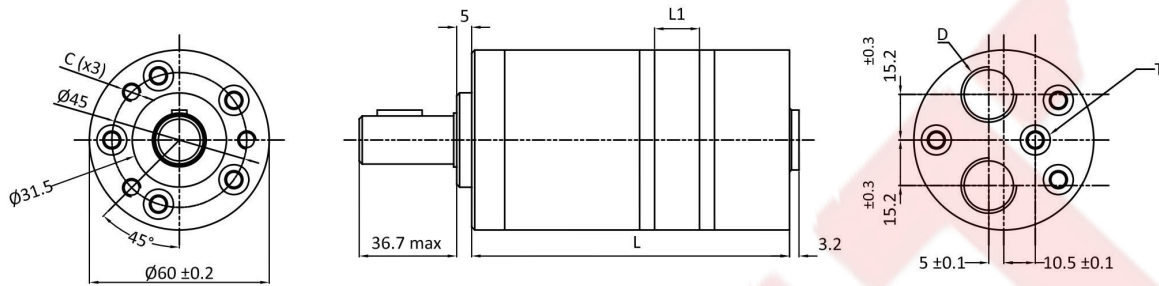
TYPE	OHM-8	OHM-12.5	OHM-20	OHM-32	OHM-40	OHM-50
Displacement (ml/r)	8.2	12.9	19.9	31.6	39.8	50.3
Max.Pressure.Drop (Mpa)	cont.	10	10	10	9	7
	int.	14	14	14	14	14
	peak.	20	20	20	16	16
Max torque (Nim)	cont.	11	16	25	40	46
	int.	15	23	35	57	88
	peak	21	33	51	64	82
Speed.Range(cont.)(r/min)	1950	1550	1000	630	500	400
Max.Flow(cont.)(L/min)	16	20	20	20	20	20
Max.Output.Power(cont.)(Kw)	1.8	2.4	2.4	2.4	2.2	1.8
Weight (kg.)	1.9	2.0	2.1	2.2	2.3	2.4

Type		Max.inlet pressure
OHM-50 (MPa)	cont.	17.5
	int.	22.5

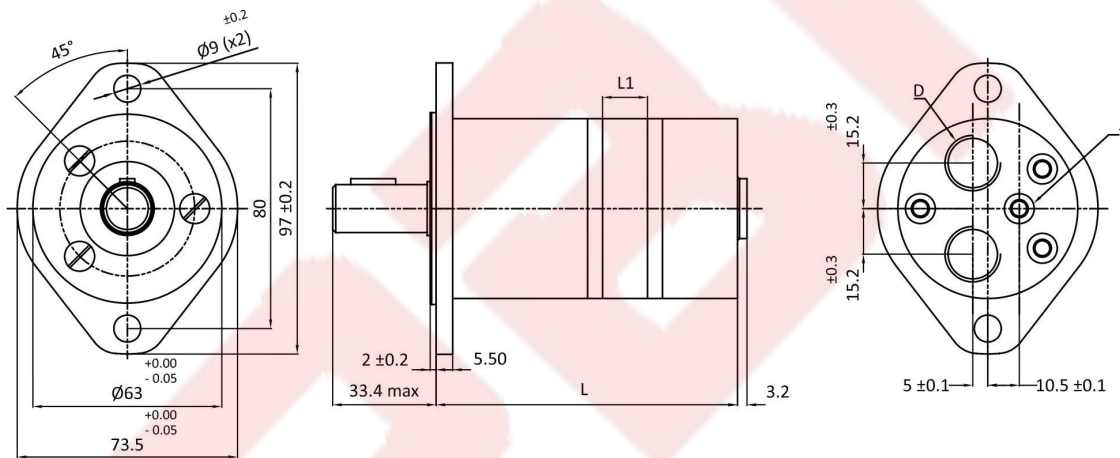
- Continuous pressure: Max. value of operating motor continuously.
- Intermittent pressure: Max. value of operating motor in 6 seconds per minute.
- Peak pressure: Max. value of operating motor in 0.6 second per minute.

Installation

Flange M, U



Flange F

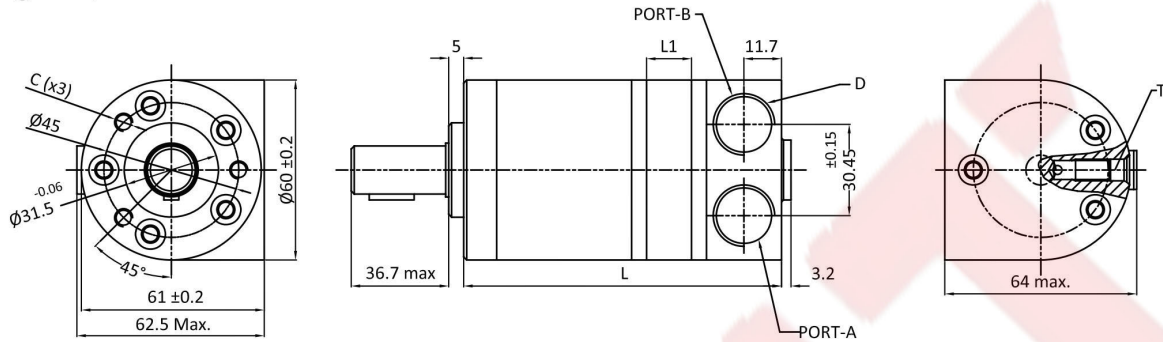


TYPE	FLANGE	OHM-8	OHM-12.5	OHM-20	OHM-32	OHM-40	OHM-50
L	M,U	104	106	109	114	117.5	122
L1	M,U	3.5	5.5	8.5	13.5	17	21.5
L	F	107.5	109.5	112.5	117.5	121	125.5
L1	F	3.5	5.5	8.5	13.5	17	21.5

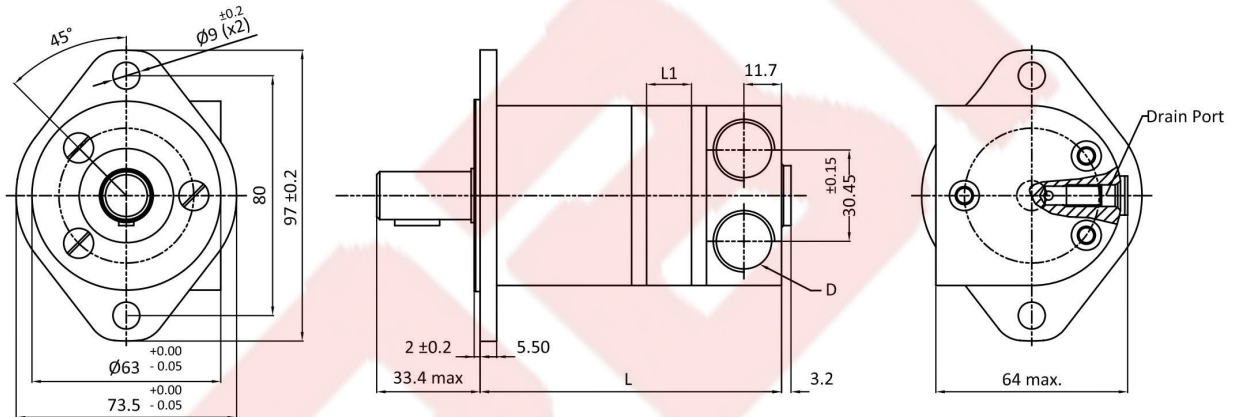
	M, U Flange		F Flange	
Mounting Code	1E (depth)	1U (depth)	1E (depth)	1U (depth)
C	3-M6 (10)	3-1/4-28UNF-2B(10)	--	--
D	G3/8 (12)	9/16-18UNF(12)	G3/8 (12)	9/16-18UNF(12)
T	G1/8 (8)	3/8-24UNF(8)	G1/8 (8)	3/8-24UNF(8)

Installation

Flange M, U



Flange F

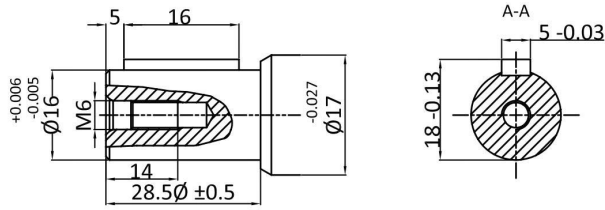


TYPE	FLANGE	OHM-8	OHM-12.5	OHM-20	OHM-32	OHM-40	OHM-50
L	M,U	105	107	110	115	118.5	123
L1	M,U	3.5	5.5	8.5	13.5	17	21.5
L	F	108.5	110.5	113.5	118.5	122	126.5
L1	F	3.5	5.5	8.5	13.5	17	21.5

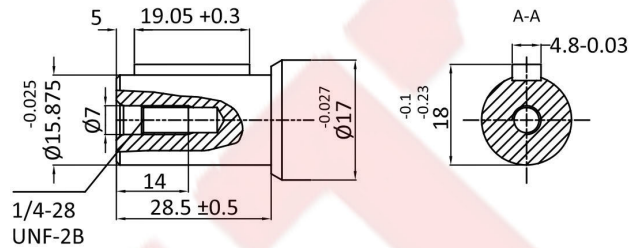
Mounting Code	M, U Flange		F Flange	
	E (depth)	U (depth)	E (depth)	U (depth)
C	3-M6 (10)	3-1/4-28UNF-2B(10)	--	--
D	G3/8 (12)	9/16-18UNF(12)	G3/8 (12)	9/16-18UNF(12)
T	G1/8 (8)	3/8-24UNF(8)	G1/8 (8)	3/8-24UNF(8)

SHAFT VERSION

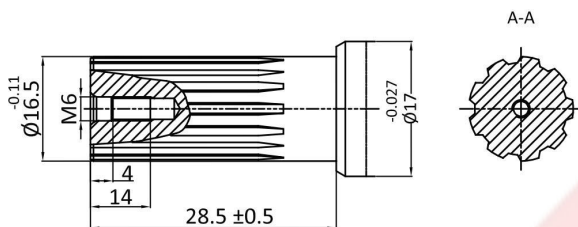
P: $\varnothing 16$, 5X5X16
 $\varnothing 16$ Cylindrical shaft, parallel key 5X5X16



P1: $\varnothing 15.875$, 4.8X4.8X19.05
 $\varnothing 15.875$ Cylindrical shaft, parallel key 4.8X4.8X19.05



H1: Involute splines shaft
 B17x14 DIN 5482



ORDERING CODE

		1	2	3	4
OHM	-				

1	Displacement
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8, 12.5, 16, 20, 32, 40, 50

2	Shaft
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P	$\varnothing 16$, 5X5X16
P1	$\varnothing 15.875$, 4.8X4.8X19.05
H1	$\varnothing 16.5$, involute B17x14, DIN5482

3	Mounting Flange
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M	3-M6, $\varnothing 31.5 \times 5$
U	3-1/4-28UNF, $\varnothing 31.5 \times 5$
F	2- $\varnothing 9$ Rhomb-flange, $\varnothing 63 \times 2$

4	Ports
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	P (A,B)	T
E	G3/8,	G1/8
U	9/16-18UNF	3/8-24UNF
1E	G3/8	G1/8
1U	9/16-18UNF	3/8-24UNF

Calculation

$$\text{Flow lpm} = \frac{\text{Displ (cc/rev)} \times \text{speed (rpm)}}{1000}$$

$$\text{Torque [Nm]} = \frac{\text{Displ (cc/rev)} \times \text{Pr. (Bar or Kg/cm}^2\text{)}}{62.8}$$

Newton meter - Nm

1daNm = 10 Nm

$$\text{Power (kW)} = \frac{\text{Torque Nm} \times \text{rpm}}{9549}$$

(Fluid motor)

Flow versus - rpm
Pressure versus - torque



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Other : orbithydraulic@gmail.com

Call Us : 8000000816 OR 9998789116

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