

ORBIT HYDRAULIC SYSTEM

Mobile : 9998789116
Mobile : 8000000816

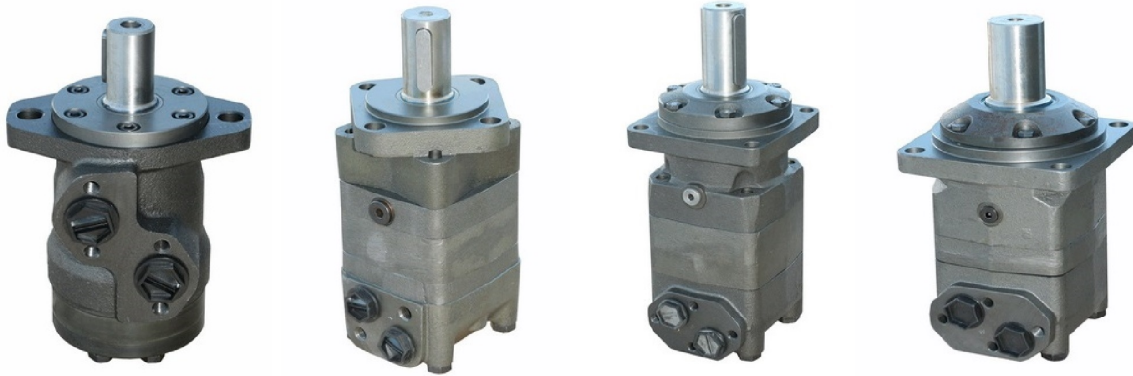
E-mail : hydraulicmotor@gmail.com
E-mail : orbithydraulic@gmail.com

Web : www.orbithydraulic.com

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

ORBIT

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



ORBIT HYDRAULIC MOTORS



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OHS SERIES

APPLICATION

- Conveyors
- Metal working machines
- Machines for agriculture
- Road building machines
- Mining machinery
- Food industries



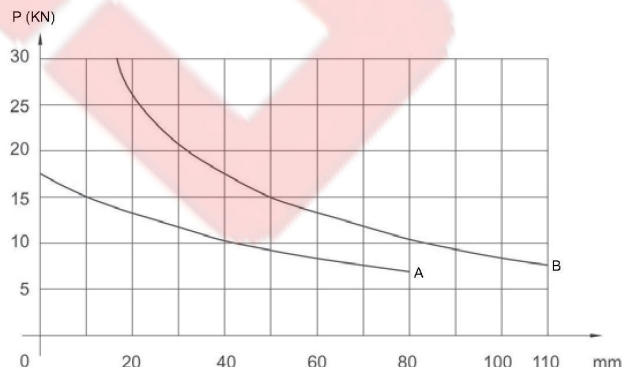
SPECIFICATION DATA

TYPE	OHS-80	OHS-100	OHS-125	OHS-160	OHS-200	OHS-250	OHS-315	OHS-400
Displacement (ml/r)	80.5	100.5	126.3	160.8	200.9	252.6	321.5	401.9
Max.Pressure.Drop (Mpa)	cont.	17.5	17.5	17.5	16	16	12.5	10
	int.	20	20	20	20	20	16	14
	peak.	22.5	22.5	22.5	22.5	22.5	20	17.5
Max torque (Nim)	cont.	194	242	303	358	438	440	560
	int.	218	283	345	429	540	580	687
	peak	271	318	373	459	576	700	865
Speed.Range(cont.)(r/min)	10-810	10-750	9-600	7-470	6-375	6-300	5-240	5-180
Max.Flow(cont.)(L/min)	65	75	75	75	75	75	75	75
Max.Output.Power(cont.)(Kw)	14	16	16	14	14	11	10	8
Weight (kg.)	9.8	10.0	10.3	10.7	11.1	11.6	12.3	13.1

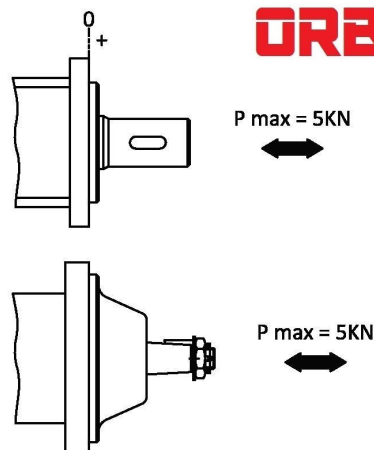
Intermittent operation the permissible values may occur for max. 10% of every minute
 Peak, load: the permissible values may occur for max. 1% of every minute.

PERMISSIBLE SHAFT LOADS

OHS Series Hydraulic Motors

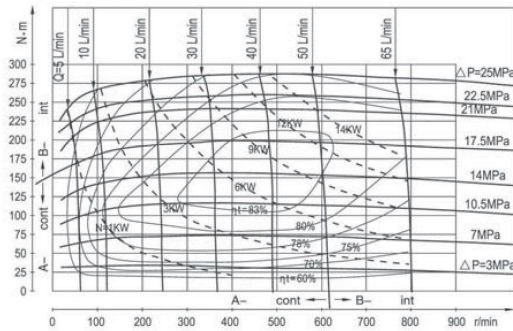


ORBIT
 A-- OHS
 B-- OHSW

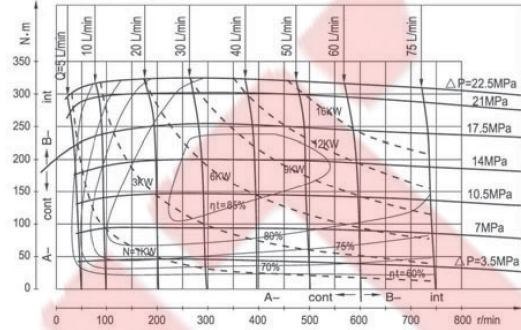


FUNCTION DIAGRAMS

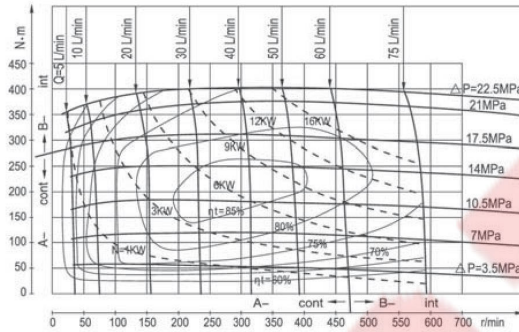
OHS 80



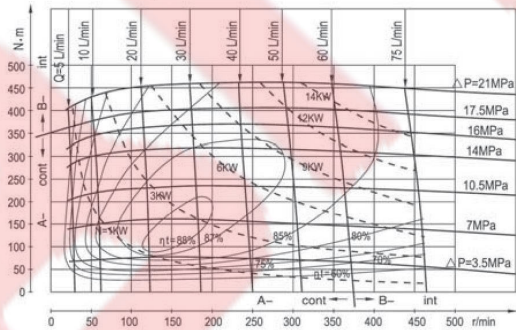
OHS 100



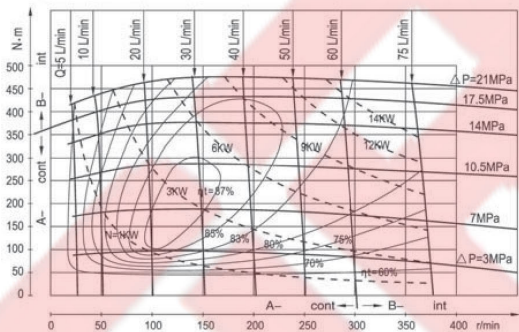
OHS 125



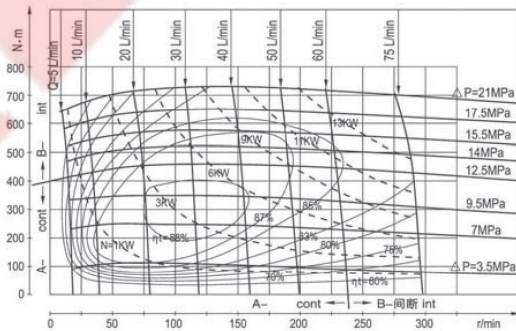
OHS 160



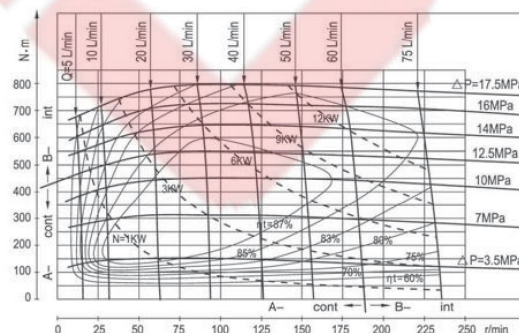
OHS 200



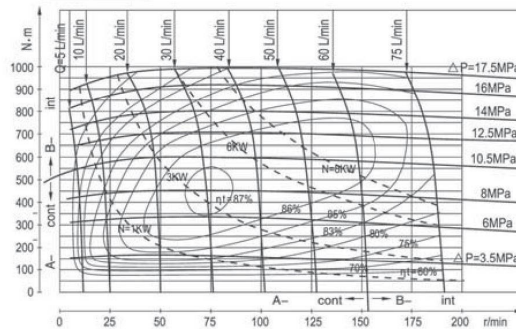
OHS 250



OHS 315

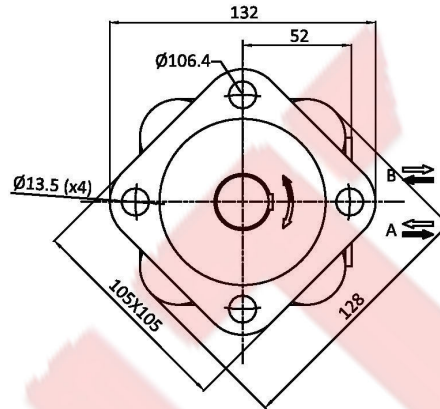
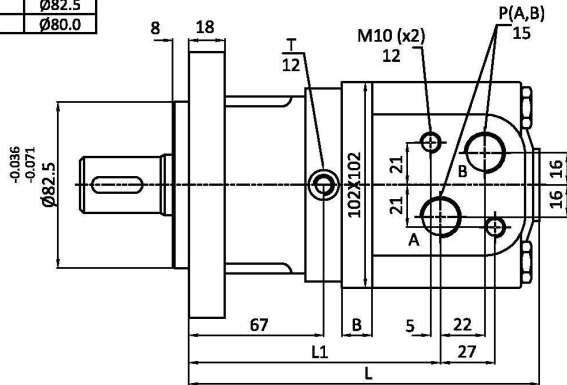


OHS 400



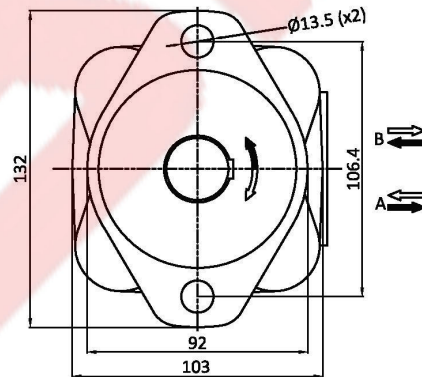
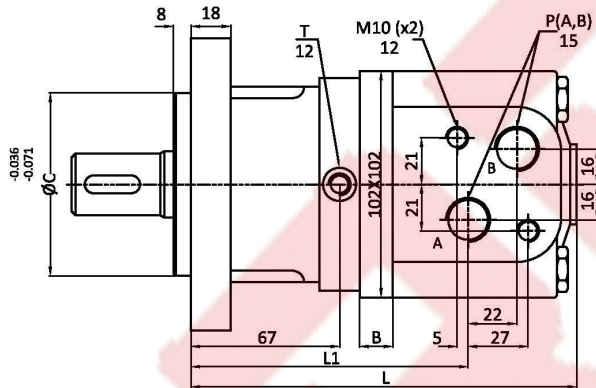
Version Square flange

Flange	∅ C
A	∅82.5
A1	∅80.0



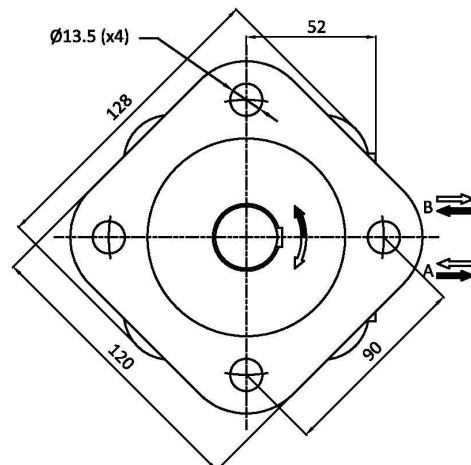
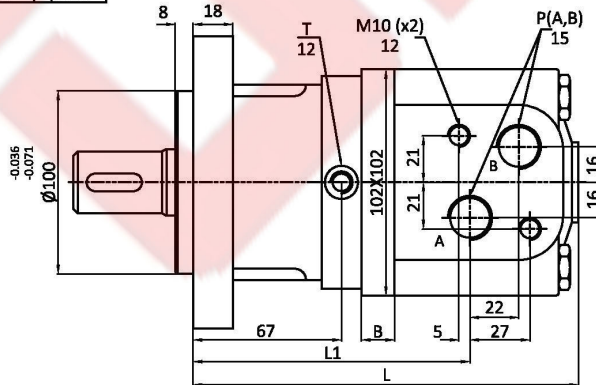
A II, A1 II Version 2-hole oval flange

Flange	∅ C
A I	∅82.5
A1 II	∅80.0

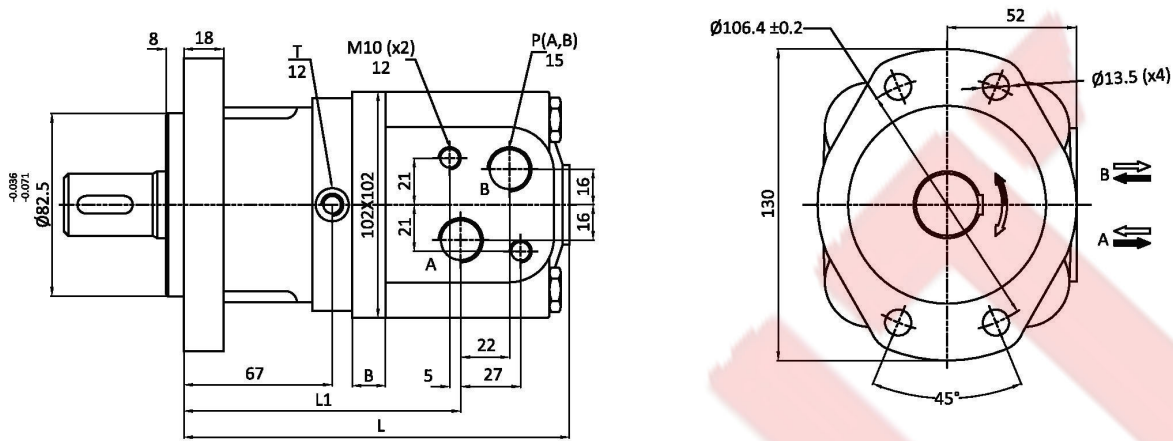


A2 III Version Square flange

Flange	∅ C
A	∅82.5
A1	∅80.0



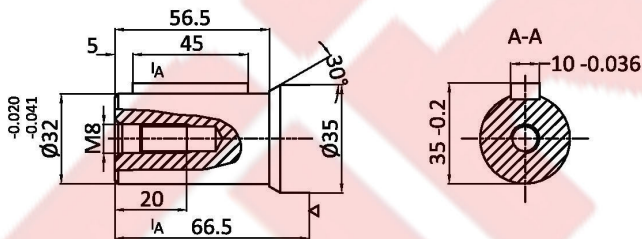
Version 4-hole oval flange



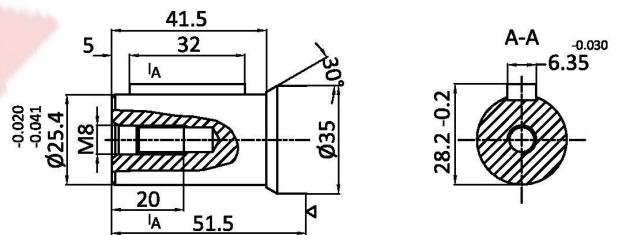
TYPE	OHS-80	OHS-100	OHS-125	OHS-160	OHS-200	OHS-250	OHS-315	OHS-400
L	167	170	175	181	188	197	208	222
L1	124	127	132	138	145	154	166	180
B	11	14.5	19	25	32	41	53	67

SHAFT VERSION

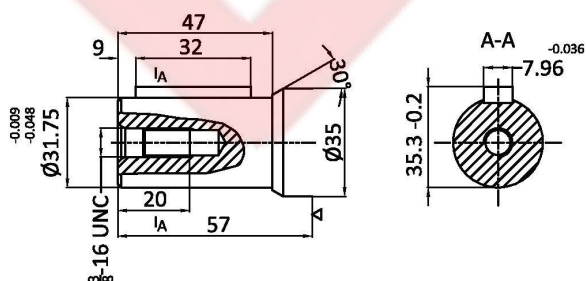
P: Ø32, 10X8X45
Ø32 Cylidrical shaft, parallel key 10X8X45



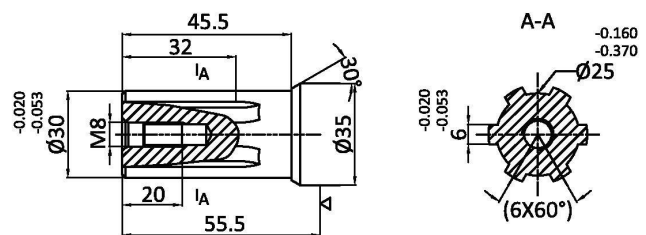
P3: Ø25.4, 6.35X6.35X32
Ø25.4 Cylidrical shaft, parallel key 6.35X6.35X32



P5: Ø31.75, 7.96X7.96X32
Ø31.75 Cylidrical shaft, parallel key 7.96X7.96X32

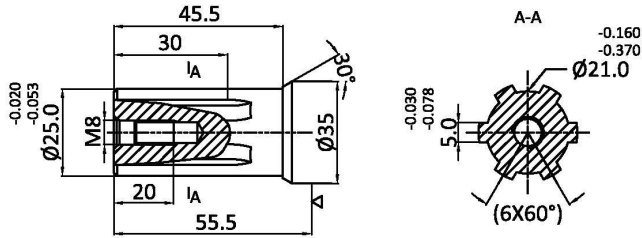


H1: Ø30, 6-30X25X6
Ø30 Splined shaft, 6-30X25X6

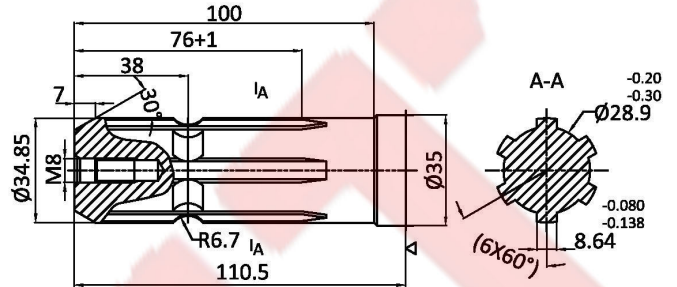


SHAFT VERSION

H2: $\varnothing 25$, 6-25X21X5
 $\varnothing 25$ Splined shaft, 6-25X21X5



H3: $\varnothing 34.85$, 6-34.85X28.9X8.64
 $\varnothing 34.85$ Splined shaft, 6-34.85X28.9X8.64



ORDERING CODE

	1	2	3	4
OHS	-			

1 Displacement

80, 100, 125, 160, 200, 250, 315, 400

2 Shaft

P	$\varnothing 32$, 10X8X45
P3	$\varnothing 25.4$, 6.35X6.35X32
P5	$\varnothing 31.75$, 7.96X7.96X32
H1	$\varnothing 30$, 6-30X25X6
H2	$\varnothing 25$, 6-25X21X5
H3	$\varnothing 34.85$, 6-34.85X28.9X8.64

4 Ports

	P (A,B)	T
Y	G1/2	G1/4
Y1	M18X1.5	M14X1.5
Y2	M22X1.5	M14X1.5
Y5	7/8-14 UNF	7/16-20 UNF
Y8	NPT 1/2	G1/4

3 Mounting Flange

A	4- $\varnothing 13.5$, $\varnothing 82.5$
A1	4- $\varnothing 13.5$, $\varnothing 80$
AII	2- $\varnothing 13.5$, $\varnothing 82.5$
A1II	2- $\varnothing 13.5$, $\varnothing 80$
A2III	4- $\varnothing 13.5$, $\varnothing 100$
A IV	4- $\varnothing 13.5$, $\varnothing 82.5$

Calculation

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

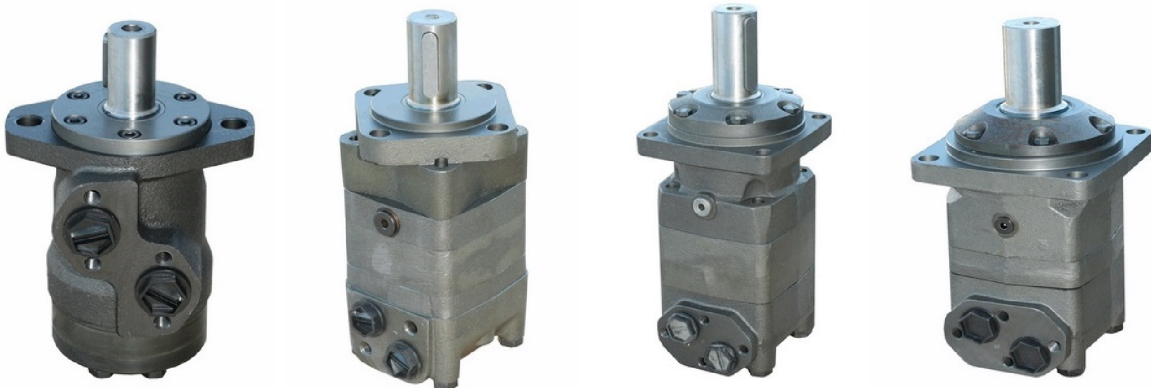
$$\text{Torque [Nm]} = \frac{\text{Displ (cc/rev)} \times \text{Pr. (Bar or Kg/cm}^2\text{)}}{62.8}$$

Newton meter - Nm

1daNm = 10 Nm

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

Flow versus - rpm
Pressure versus - torque



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