



GITA PUMPS

TYPE 'RMG' ROTARY MAGMA/MASSECUISTE PUMPS

MAGMA / MASSECUISTE
GLAND FITTED PUMP



MAGMA / MASSECUISTE PUMP WITH
MECHANICAL SEAL & BEARING FITTED



MAGMA / MASSECUISTE PUMP WITH
BOTH SIDE BEARING & EXTENDED SHAFT

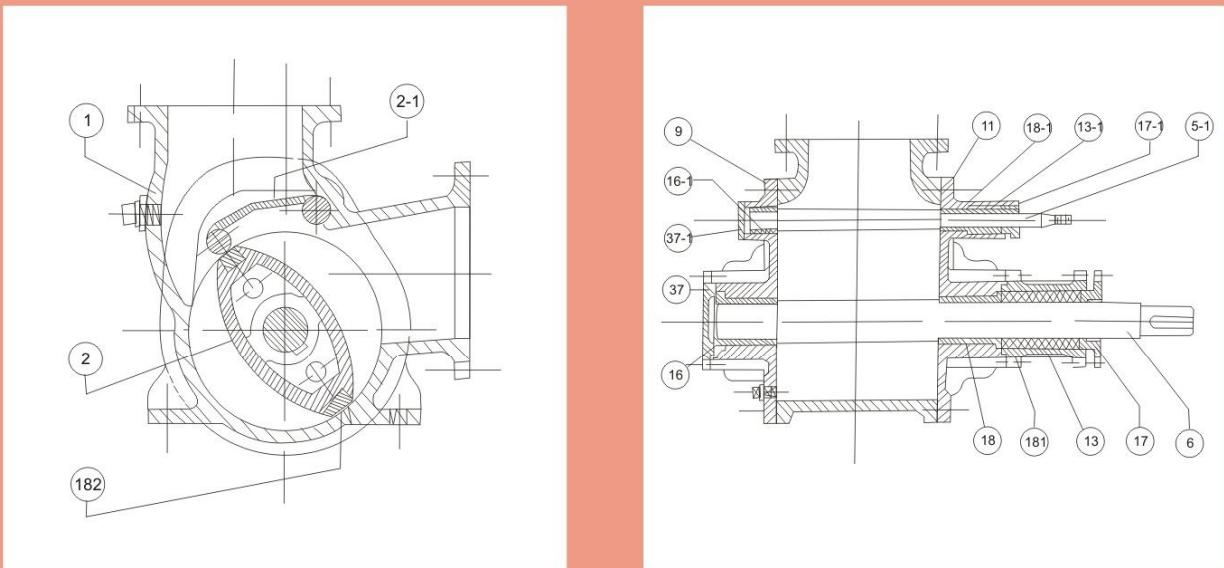


❖ Sturdy

❖ Reliable

❖ Efficient

TYPE 'RMG' PUMP SECTIONAL ASSEMBLY



PARTS LIST

Part No.:	Part Name	Qty. Reqd. Per Pump	Material
1	Casing	1	C.I.
2	Rotor	1	C.I./G.M.
2-1	Flap	1	M.S.
6	Shaft Rotor	1	EN-8
6-1	Shaft Flap	1	En-8
9	Side Cover	1	C.I.
11	Gland Side Cover	1	C.I.
13	Gland Packing Rotor		
13-1	Gland Packing Flap		
16	Bush Bearing Rotor	1	G.M.

Part No.:			
16-1	Bush Bearing Flap	1	G.M.
17	Gland Rotor Shaft	1	C.I.
17-1	Gland Flap Shaft	1	C.I.
16	Bush Bearing Rotor	1	G.M.
18	Bush Bearing Flap	1	G.M.
37	Bush Bearing Cover	1	C.I.
37-1	Bush Bearing COver	1	C.I.
83	Stuffing Box	1	C.I.
182	Rotor Tip	1	G.M.

APPLICATIONS

Gita RMG type Magma Pump is excellent for pumping all type of Magma and Massécuite in Sugar Industry and other highly viscous liquids.

DESIGN FEATURES

Gita Rotary Magma Pump employ an elliptical rotor rotating at slow speed in a circular casing and displacing thick, highly viscous liquid. Directly above the rotor is a swinging flap with one edge hinged and the other edge resting on the surface of rotor. The latter has a replaceable round tip which scrapes viscous liquid off the rotor as it rotates. Thus a positive displacement of the viscous liquid is achieved. The scraping edge of the flap always rests on the rotor surface due to its weight. As the pump starts working the weight of the liquid in delivery pipe brings the flap to bear more pressure on the rotor and hence the use of spring to load flap is not necessary. Flap and rotor shafts are mounted in bronze bushes. Casing and cover are designed extra heavy and rigid to withstand heavy torque of rotor shaft.

SPECIAL DESIGN FEATURES AVAILABLE IN GITA PUMPS ONLY :-

All Gita RMG type Pumps are universal in design. They can be changed from left Hand drive to right hand drive and vice versa at customer's site. To achieve this a specially designed gland box cartridge is provided. To change direction at site remove gland box from one site and fit it on the other and interchange the blind plate. Pull out rotor along with shaft and insert it in the casing from the other side. Rest of the assembly will remain as it is. This feature is exclusive to GITA PUMPS only.

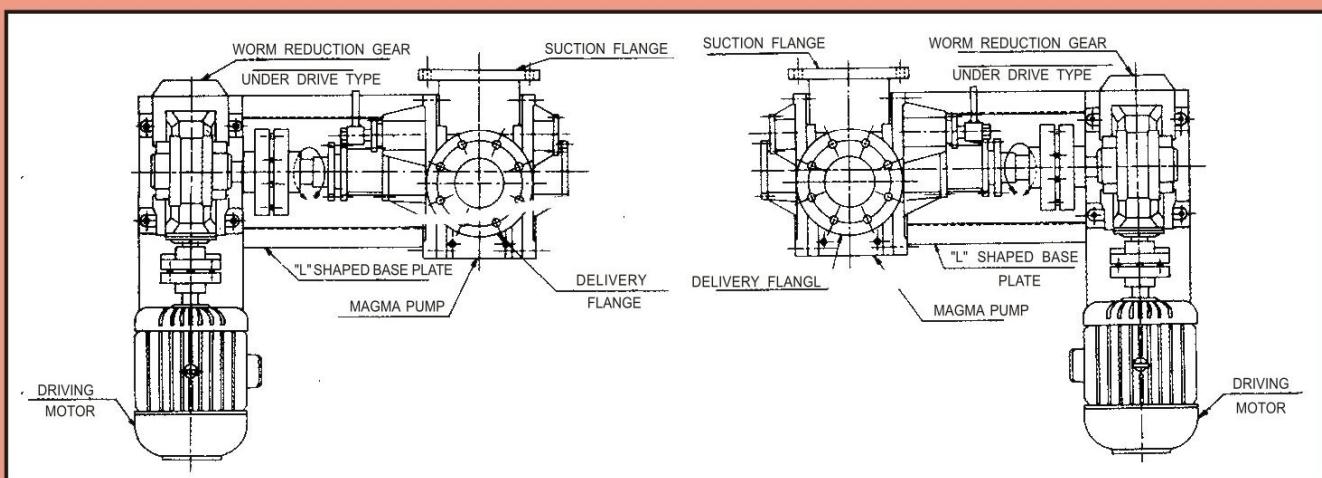
MATERIAL OF CONSTRUCTION :-

Casing and cover are made of high grade grey cast iron and shaft of carbon steel. Rotor is available in grey cast iron, cast steel or bronze and cast iron fitted with replaceable gun metal tips, while scraper tip is either of mild steel or replaceable tip of bronze.

RANGE OF SIZES :-

These pumps are available in 100 mm. delivery dia to 400 mm. delivery diameter. Capacity obtainable is up to 120 Tones of Massecuites/Magma per hour and head up to 60 meter at 36 RPM.

PUMP DRIVE ARRANGEMENT



**Fig. A
Left Hand Drive Pump**

**Fig. B
Right Hand Drive Pump**

Fig A :-

Pump rotation is anticlockwise (Left Hand) looking at drive end coupling.

Fig B :-

Pump rotation is clockwise (Right Hand) looking at drive end coupling.

IMPORTANT :-

Customer must indicate pump drive arrangement or direction of rotation by mentioning Fig. 'A' or Fig. 'B' to ensure pump of correct handing.

RATING CHART OF 'RMG' PUMPS

SL. No.	PUMP SIZE & TYPE	SIZE OF SUCTION RECTANG ULAR M.M.	SIZE OF DELIVERY ROUND MM. DIA	TYPE OF LIQUID	PUMP SPEED RPM	CAPACITY		RECOMMENDED MOTOR H.P. AT HEAD IN METER WATER COLUMN					
						M ³ /HR	T.P.H. OF MAGMA	15	20	25	30	40	50
1	100 RMG	142X90 RECT.	100	A,B,C-MAGMA	36	5.5	8.3	5	5	5	7.5	7.5	7.5
				A,B-MASSECUIITE	24	3.7	5.5	3	3	3	5	5	5
2	125 RMG	160X100 RECT.	125	A,B,C-MAGMA	36	9.3	14.0	7.5	7.5	7.5	10	10	10
				A,B-MASSECUIITE	24	6.2	9.3	5	5	5	7.5	7.5	7.5
3	150 RMG	150	150	A,B,C-MAGMA	36	13.5	20.3	7.5	7.5	10	15	15	20
				A,B-MASSECUIITE	24	9	13.5	5	5	7.5	10	10	15
4	200 RMG	200	200	A,B,C-MAGMA	36	21	31.5	10	10	15	20	25	30
				A,B-MASSECUIITE	24	14	21	7.5	7.5	10	15	20	25
5	225 RMG	225	225	A,B,C-MAGMA	36	27	40.5	12.5	15	15	20	25	30
				A,B-MASSECUIITE	24	18	27	10	10	10	15	20	25
6	250 RMG	250	250	A,B,C-MAGMA	36	35	52.5	15	15	20	25	30	40
				A,B-MASSECUIITE	24	23.3	35.0	10	10	15	20	25	30
7	300 RMG	300	300	A,B,C-MAGMA	36	42	83	20	20	25	30	30	40
				A,B-MASSECUIITE	24	28	42	15	15	20	25	25	30
8	350 RMG	350	350	A,B,C-MAGMA	36	58.9	88.4	25	30	40	40	40	50
				A,B-MASSECUIITE	24	39.3	58.9	20	25	30	30	30	40
9	400 RMG	400	400	A,B,C-MAGMA	36	70	105	30	40	50	50	50	60
				A,B-MASSECUIITE	24	47	70	25	30	40	40	40	50

SELECTION TABLE FOR WORM REDUCTION GEAR BOX

MOTOR HP 1440 RPM	6	7.5	10	15	20	25	30	40	50
GEAR BOX 40:1 RATIO (FOR 36 RPM OF PUMP)	U-500 "5	U-600 6"	U-600 6"	U-700 6"	U-800 7"	U-900 8"	U-1000 9"	U-1200 10"	U-1200 12"
GEAR BOX 60:1 RATIO (FOR 24 RPM OF PUMP)	12" U-500	U-600 5"	U-700 6"	U-800 7"	U-900 8"	U-1000 9"	U-1000 10"	U-1400 10"	U-1700 14"



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