TECHNICAL OFFER

CONCRETE MIXER MODEL GCM 75 XL OF 7.5 CBM CAPACITY

The offered Concrete Mixers GCM 75 powered by a separate slave engine of Kirloskar Model HA 494**.** The drive to the mixer is through a torsion free drive via oil bath planetary gear system which connects it to the engine. The mixer drum shall be provided with two extra discharge chutes, feed hopper with water duct and ladder. These Concrete Mixers are fitted with a water pump of 400 Ltrs/min. capacity at 3.5 bar pressure. A water tank of capacity 450 Ltrs with a water level indicator is supplied along with the mixer. An oil cooler has been provided in the system for efficient and trouble-free working of the mixer.

These machines are known all over the world for their reliability, consistent performance and economy in operation.

TECHNICAL SPECIFICATIONS: CONCRETE MIXER GCM 75

S.NO	PART	UNIT	DESCRIPTION
A	**DRUM –**		
1	Model		GCM 75
2	Material		ST 52
3	Shell Thickness	Mm	3 to 6
4	Geometric Volume	m^3	13.06
5	Nominal Capacity	m^3	7.5
6	Filling Ratio	%	57
7	Discharge Opening Dia	Mm	1140
8	Rotation Speed	Rpm	0 – 14
9	Direction of rotation		Clockwise & Anticlokwise
10	Number of Manholes		2
B	**HYDRAULICS –**		
1	Pump / Motor		PMP/ Others
2	Oil Cooler Tank capacity	Lt	18
3	Reducer		PMP / Others
C	**WATER SYSTEM**		
1	Pump		Centrifugal
2	Water Tank Capacity	Lt	450
D	**DIMENSIONS –**		
1	Diameter	Mm	2200
2	Frame Length	Mm	5012
3	Max. Length	Mm	6095
4	Max. Height	Mm	2780
5	Max. Width	Mm	2300
6	Empty Weight	Kg	4130
E	**ENGINE –**		
1	Make		Kirloskar
2	Model		HA 494
3	Power	Kw	52
F	**ACCESSORIES –**		
1	Discharge Chute (in addition to fixed chute)		2 Nos

SALIENT FEATURES OF CONCRETE MIXER:

1. The Concrete Mixer Model GCM 75 has mixer drum made of **ST 52** having an average shell thickness of 5 mm compared. This higher drum shell thickness gives a **longer drum life**.

2. The Concrete Mixer has geometric volume of **13.06 cub meter**, which means that the mixers can carry more concrete without any spillover.

3. The Concrete Mixer has a drum opening at 1140 mm which results in **fast discharge and intake rate**.

4. The **double helical spiral** blades of the Concrete Mixer have an average height of 410 mm. The spiral also has a wear protection of 25 x 8 mm which goes a long way in giving a **very high life** for the mixer blades.

5. The low centre of gravity creates an ideal balanced loads distribution, to obtain very good **stability while by narrow bends**.

6. The Concrete mixer is provided with Box frame. Frame and supports, designed by Finite Element Analysis ensure proper design and **good road adherence**, superior maneuverability as well as improved safety.

7. The oil cooler designed as per the usage & convenience ensures that the hydraulic oil remains at optimum temperature so as to avoid damage to other systems.

8. The Concrete mixers are painted with **two coats of anti-rust paint** which is done after **Grit blasting** of the Mixer drum. The finish painting of Concrete mixer is being done with POLYURETHANE paint which is a **scratch proof paint**, UV resistant and is durable against cleaning with high pressure water jet.

9. A **multipurpose water pump** is supplied along with the mixer which can also be used for pumping water into the water tank besides cleaning the internal and external surfaces of the mixer.

10. The charging hopper and discharge hopper and discharge chute has **a bolted design** which helps in **easy maintenance** and can be easily replaced in case of any physical damage.

11. The charging hopper and discharge chute are given **additional wear plates for the longer life.**

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