

FRESH CONCRETE WITHOUT LIMITATIONS OF TIME & DISTANCE-HAULMIX





IME-HAULMIX Vision:

HAULMIX™ Automatic Mobile Concrete Mixers have been designed for complete mobility, flexibility of operation, minimising the material wastages, overheads, saving the power and fuel, and avoiding any permanent construction at site for its operation. The word "HAULMIX" is a combination of Hauling- Transportation & Mixing. The HAULMIX Mixers produce concrete in the same way like conventional RMC plants. The only difference being the HAULMIX mixers do not need any installation or commissioning time or a dedicated piece of land and they can also transport concrete which is impossible with traditional RMC plants.

DESCRIPTION	Present RMC Set UP	HAULMIX™	BENEFIT TO THE END USER
Fixed Location	Required	Not Required	It adds to flexibility
Dedicated Land for RMC plant	Required	Not Required	It saves the capital cost
RMC Plant	Required	Not Required	It saves capital cost as well as operation cost.
High Power Connection/ Generator Back Up	Required	Not Required	It saves capital cost as well as operation cost.
Material Re-handling near urban areas	Required	Not Required	Option of Material loading away from urban or residential areas
Transit Mixers for transporting wet concrete	Required	Not Required	Material is transported at Dumper's cost.
Diesel consumption during material transport	Required	Not required	Diesel is saved and pollution eliminated.
Mix Design adjustment to account for TIME and DISTANCE of Wet Concrete Transport	Required	Not Required	Concrete is mixed only when it is required and hence no mix adjustment required.
Wastage disposal/ Recycling plants	Required	Not Required	No wastages or hot or rejected concrete.
Distance Limitation of concrete supply	Required	Not Required	No TIME and DISTANCE Limitations.



HAULMIX™ MIXERS USE CASES:

1. Projects having no space for raw material stocking:

In such cases the **HAULMIX™** mixers can be loaded at a loading point and the concrete is transported to the project site.

2. Projects having space for raw materials:

In such cases a single **HAULMIX™** mixer can be used like a Batch-mix plant directly feeding concrete pump or any placing mechanism.

3. Projects having space and scattered volumes:

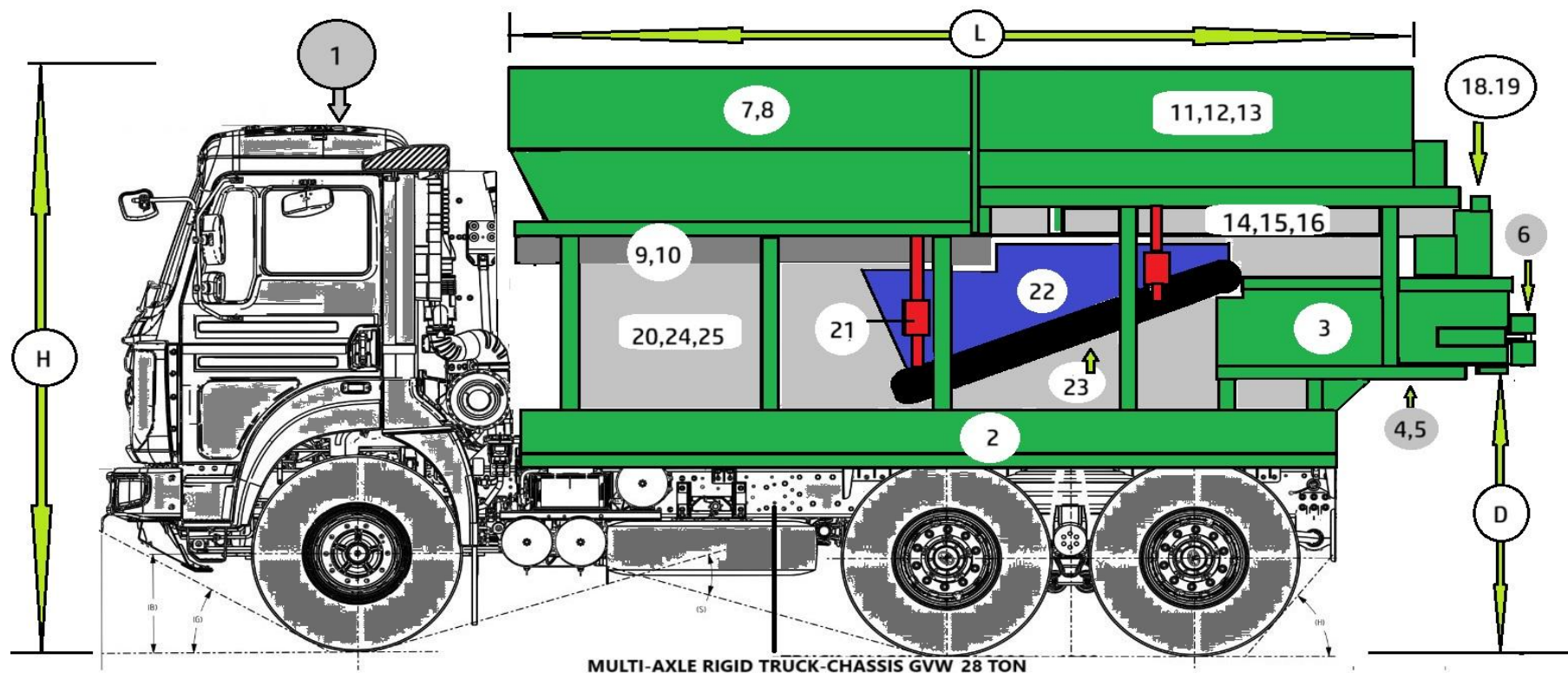
In such cases like townships, where concrete is needed at multiple places at the same time, **HAULMIX™** Mixers can be used like Mobile RMC plants with transit mixer feeding attachments, thereby feeding which can supply high volume of concrete.

Proven Design: The **HAULMIX™** Mixers are provided with '**High Torque PAN Mixers**' which are '**well proven, well known & widely used**' in the industry. The Batching system consists of a '**plurality of Electronic Load-cells & PLC Panel**' similar to conventional RMC plants thereby ensuring that the **concrete produced is in line with the concrete produced by conventional RMC plants**.

STARTING MODEL- HAULMIX-7-500 means HAULMIX Mixer designed to transport materials for 7 cum concrete. 500 means it is fitted with PAN Mixer of output capacity of 500 Lt per batch.



BASIC INTERNAL CONSTRUCTION & SCHEMATICS: MODEL HAULMIX-7-500



Items with * not shown in above schematics. Length (L) is suitable for loading by JCB/Tractor loader. Max. Loading height H= 3500 mm. D=1500 mm.

01	28 Ton GVW Truck	02	Fabricated Chassis	03	PAN Mixer	04	Planetary Gearbox for PAN Mixer
05	Radial Piston Hydraulic Motor	06	Hydraulic discharge gate	07	Aggregate Compartment 1	08	Aggregate Compartment 2
09	Belt Conveyor for Agg. 1	10	Belt Conveyor for Agg. 2	11	Aggregate Compartment 3	12	Cement Compartment
13	Fly-Ash/GGBS Compartment	14	Belt Conveyor for Agg. 3	15	Screw Conveyor for Cement	16	Screw Conveyor for FA/GGBS
17	Water Tanks *	18	Chemical Additive 1	19	Chemical Additive 2	20	Slave ENGINE
21	Electronic LOAD-CELLS	22	Material Weighing Hopper	23	Weigh Belt Conveyor	24	Main Hydraulic Pump
25	Hydraulic Oil Tank	26	Aggregate Belt gearboxes *	27	Hyd. Motor-sall conveyors *	28	Water Pump *
29	PLC Operation Panel *	30	Admix dosing Valves *	31	Water Pump Hyd. Motor *	32	Hydraulic DC valves & Manifold *



TECHNICAL SPECIFICATIONS:

		HAULMIX-7-500	HAULMIX-10-500	HAULMIX-12-500
01	Slave Engine	KOEL HA494 Four Cylinder Diesel engine	KOEL HA494 Four Cylinder Diesel engine	KOEL HA494 Four Cylinder Diesel engine
02	Concrete Transport Capacity	7 Cubic meter	10 Cubic Meter	12 Cubic Meter
02 A	Theoretical Production capacity Per Hour with Continuous material loading	30 Cubic meter	30 Cubic Meter	30 Cubic Meter
03	Aprox. Equipment Self Weight (Empty)	4700 Kg	5200 Kg	5700 Kg
	Mixing System			
04	Mixer	PAN Mixer output capacity 500 Lt of wet mixed concrete.	PAN Mixer output capacity 500 Lt of wet mixed concrete.	PAN Mixer output capacity 500 Lt of wet mixed concrete.
05	Discharge Gate	Hydraulic	Hydraulic	Hydraulic
	Material Storage			
11	Aggregate Compartments (Can be custom designed as per specific customer requirement only with prior intimation)	3 nos. 10 mm (approx. 3.1 ton, 20 mm approx. 5.25 Ton, sand (approx. 6.5Ton)	3 nos. (10 mm approx. 4.4 ton , 20 mm approx. 7.6 ton & sand approx. 9,2 Ton)	3 nos. (10 mm approx. 5.3 ton, 20 mm approx. 9 ton & sand approx. 11.1 ton)
12	Binder Compartments	2 nos (Cement approx.3 Ton & FA/GGBS min 1 Ton)	2 nos (Cement & FA/GGBS)	2 nos (Cement & FA/GGBS)
13	Water Tanks- Two swivellable interconnected water tanks	1800 Lts	2600 Lts	3120 Lts
14	Chemical additive Tank 1	40 Lts	55 Lts	70 Lts
15	Chemical Additive Tank 2	40 Lts	55 Lts	70 Lts



	Batching System			
16	Electronic Load cells for all solid ingredients	1.5 Ton Each- 4 nos.	1.5 Ton Each 4 nos.	1.5 Ton each 4 Nos.
17	Liquid ingredients	Flow rate basis through PLC as per calibration	Flow rate basis through PLC as per calibration	Flow rate basis through PLC as per calibration
18	PLC operated Control system	Auto Control 500 with USB port and optional mobile access through router.	Auto Control 500 with USB port and optional mobile access through router.	Auto Control 500 with USB port and optional mobile access through router.
19	Drive System	Hydraulic	Hydraulic	Hydraulic



The HAULMIXTM Automatic Mobile Concrete Mixers are provided with a **pollution control Mechanism** automatically operated by PLC during each batch. (Patent Pending).

Manufactured By:

INDIAN MOBILE EQUIPMENT

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The Equipment has been duly patented in India and the designs, drawings have been protected under Design & Copyright Act. The Hydraulic system & the water storage system have been protected under Independent granted Patents.