

Apollo

Quality Construction Equipment



DRUM MIX PLANT

DM Series 30 - 150 tph



TUV NORD

★ Star Export House

With years of experience in asphalt mixing, strategic technology tie-ups and an installed base of over 1800 plants, Apollo has mastered the continuous Asphalt Mixing Technology. The world over, Drum Mix Plants from Apollo have produced millions of tons of quality asphalt, in the bargain generating a high level of customer satisfaction. Apollo plants are renowned for quality of mix, lower operating costs, productivity, efficiency and high uptime.

THERMODRUM UNIT

The Drying and Mixing unit of the asphalt plant demands complex flight design and heat transfer technology. With its continuous R & D and incorporation of the latest design up-gradations, Apollo thermodrum is miles ahead of competition. The Apollo thermodrum unit follows a triple heat transfer system that ensures a total transfer of heat to the aggregates, translating into higher productivity and lower fuel consumption. The heat is transferred to the aggregates using the conductive, convective and radiation techniques. The unique flight design ensures total heat transfer, a thorough mixing & coating, lower emissions and prevention of bitumen oxidation.



DRUM MIX PLANT

DM Series 30 - 150 tph

DRUM MECHANICS

The 30 -90 tph plants are supplied with a low maintenance cradle type drum drive. The auto lubrication system ensures proper and adequate lubrication on the chain drive thereby ensuring long years of trouble free service. Optionally a four wheel friction drive, which is a standard on the 120 tph and higher models, can be supplied.

Specially treated sprockets, thrust wheels, trunion rings and trunion rollers, engineered precisely for flawless and trouble free dryer drum rotation, ensures unlimited productivity.

BURNER

The high pressure atomized, fully automatic remotely controlled burner unit has already gained an enviable reputation for its fuel efficiency, ease of operation and high uptime. Completely automatic process controls with system interlocks ensure conformance to high safety standards.

COLD AGGREGATES BIN FEEDERS

Over 40 + years of experience and an installed base of over 2500 units mean design expertise for top performance even under the toughest of operating conditions.

The bins are all-welded and modular in construction, permitting easy addition of bins to meet growing needs. Steep bin walls and valley angles allow free flow of aggregates from the feeders minimizing hold up of materials in the corners and bridging with sticky aggregates.

The bins supplied with adjustable calibrated gate openings and variable speed feeder drives, together offer total proportional control, greater flexibility and accuracy of operations.



CONTROLS

Fully computerized control cabin (AC optional) with on board electrical power control console, distribution switch board, fully automatic process & sequence controls are a standard on all Apollo DM series plants.

A user friendly software gives you total reliability and ensures top notch performance.

- Fail proof power interlocks and auto process controls
- Online fault detection
- Online printing facility
- Provisions to print, store and edit production details, mix proportions, etc.
- Display of all process control parameters
- Auto / manual operation

The control is equipped with function keys and numeric keys and does not require special skills for operation.



Integrated Control Panel (optional)



*Quality Construction
Equipment*

OVERSIZE REMOVAL VIBRATORY SCREEN

The APOLLO DM Series of asphalt plants are supplied with oversize aggregate removal vibratory screens. Any oversize material, detrimental for the heating and mixing thermodrum internals, are screened out ensuring better performance and safety of the plant.

POLLUTION CONTROL DEVICES (OPTIONAL)

CV Series - Wet dust collectors

CV Series is a venturi type high efficiency wet dust collector that maintains the required environmental standards in specified areas. The extreme turbulence type venturi design ensures a very good entrapping of the dust laden exhaust gas.

Large stainless steel spray nozzles provide a clog free operation and assure minimum water make up requirements. The adjustable venturi throat permits "fine tuning" to get optimum cleaning efficiency for the plant operating conditions.

"Freedom" Bag house Filter unit

Freedom is a state of the art free air flow type bag house filter unit with specially treated meta aramid filter elements designed specifically for asphalt application. This zero maintenance design keeps emissions at less than 50 mg/Nm³, which meets International pollution control norms.

CONTINUOUS ELECTRONIC BELT WEIGHING SYSTEM

Electronic load cell weighing systems are mounted on the gathering conveyor or on the slinger conveyor for continuously monitoring the aggregate feed. The feedback from the Load cell is processed by the PLC, which further automatically controls and meters the bitumen and filler proportioning.

FILLER STORAGE UNIT

Apollo offers a wide range (1.5-50 tons) of filler storage and feeding solutions for the customers to choose from, depending on the site requirements. A variable speed computerized synchronized metering system ensures the right proportioning in the mix.

HOT MIX SILO

Apollo offers a complete range of customized solutions for asphalt storage. The standard range includes MONOPAK and TWINPAK systems. MONOPAK silos are available with storage capacities from 10 to 80 cubic meters. The TWINPAK silos are available with storage capacities ranging from 50 to 80 cubic meters with an additional feature of storing different mix designs. Various storage combinations can be availed by opting for customized MULTIPAK designs. The silos are supplied with automated standard safety controls and process interlocks. The storage silos can be supplied with skip hoist arrangement, hot bucket elevators or swivelling loadout conveyors.

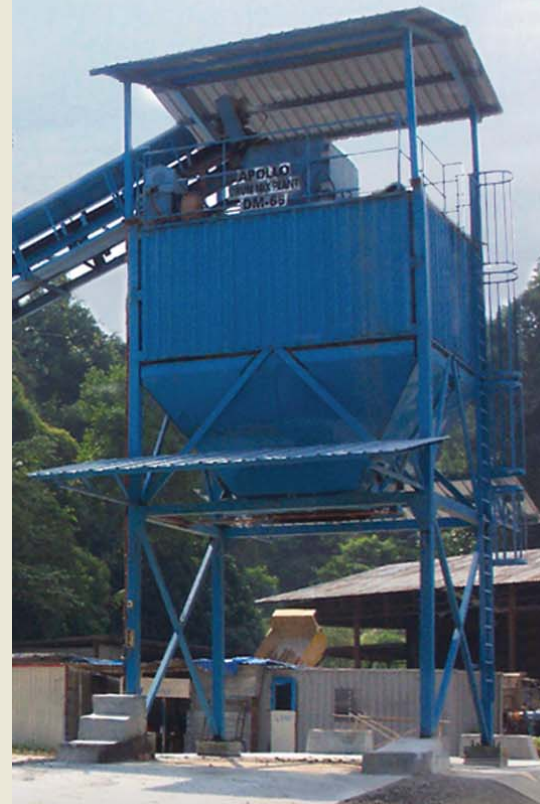
BITUMEN HEATING & STORAGE SOLUTIONS

With Apollo, customers can opt for a direct heating type or hot oil heated bitumen storage tanks. Storage capacities range from 15 - 50 cubic meters.

The indirect heating tanks are supplied with a Japanese design thermic oil heater.

The Direct heating tanks are supplied with automatic imported pressure jet burner.

As a standard, all Apollo tanks are supplied with auto thermostatic controls and level indicators.



TECHNICAL SPECIFICATIONS

Plant Model	Rated Output @3% Moisture Content	tph	DM-45 40 - 60	DM-50 60 - 90	DM-60 90 - 120	DM-65 120 - 150
Units						
Cold Feed Bins	No. of Bins* / Capacity	nos / m ³	4 / 20	4 / 25	4 / 32	4 / 32
	Charging Width	mtrs	2.55	3.05	3.6	3.6
	Auxiliary Conveyor Drive Motor	kW	4 x 1.1	4 x 1.5	4 x 2.2	4 x 2.2
	Gathering Conveyor Belt (W x L)	mm	500 x 22450	600 x 25600	600 x 29600	600 x 29600
	Gathering Conveyor Drive Motor	kW	2.2	3.7	5.5	5.5
	Bin Vibrator (1 No.)	kW	0.18	0.18	0.18	0.18
	Feeding Capacity	tph	80	110	140	180
Over Size Removal Screen	Wire Mesh Size	mm	45 x 45	45 x 45	45 x 45	45 x 45
	Drive Motor	kW	2.2	2.2	2.2	2.2
Slinger Conveyor	Conveyor Belt (W x L)	mm	500 x 15025	500 x 15025	500 x 15025	500 x 20400
	Conveyor Drive Motor	kW	3.7	3.7	3.7	5.5
Thermo Drum Unit	Dryer (L x D)	mtrs	6.0 x 1.2	6.7 x 1.5	7.3 x 1.8	7.9 x 1.8
	Drive Type		Cradle Type Chain Drive	Cradle Type Chain Drive	Cradle Type Chain Drive	4W Friction Drive
	Drive Motor	kW	15	18.5	30	4 x 7.5
	Burner Capacity	lph / MW	250 / 3	450 / 5.5	770 / 9.5	1140 / 14
	Blower Connected Load	kW	7.5	15	15	18.5
	Fuel*		Diesel	Diesel	Diesel	Diesel
	Exhauster	cfm / kW	10500 / 15	14500 / 18.5	16500 / 30	with CV unit
Load Out Conveyor with Gob Hopper	Belt (W x L)	mm	500 x 17900	600 x 17900	600 x 20300	600 x 20300
	Drive Motor	kW	3.7	5.5	5.5	5.5
	Gob Hopper Capacity	kg	1000	1500	2000	2000
	Hydraulic Power Pack	kW	3.7	3.7	3.7	3.7
Mineral Filler Unit	Capacity	m ³	1.5	1.5	1.5	1.5
	Drive Motor	kW	1.5	1.5	1.5	1.5
	Air Compressor Connected Load	kW	5.5	5.5	11	11
Bitumen Tank	Capacity	m ³	15	15	20	30
	Heating System*		Direct Heating	Direct Heating	Direct Heating	Indirect Heating
	Bitumen Pump Model		RT-2"	RT-2"	RT-2"	RDRB-250L
	Bitumen Motor	kW	3.7	3.7	3.7	5.5
	Hot Oil Pump		RT-3/4"	RT-3/4"	RT-3/4"	-
	Hot Oil Motor	kW	0.75	0.75	0.75	-
Fuel Tank	Capacity	m ³	2	3	3	3
	Fuel Feeding Pump (I / O)	mm	19.05 / 19.05	19.05 / 19.05	19.05 / 19.05	19.05 / 19.05
	Fuel Motor	kW	0.75	0.75	0.75	0.75
FO Kit (Optional)	Outflow Heater	kW	4.5	4.5	4.5	9
	In-line Heater	kW	14.5	18.5	18.5	18.5
Pollution Control Unit						
Primary Multicone	Nos. of Cone		20	15	21	21
Dry Dust Collector	Dust Screw Drive	kW	1.1	1.1	1.1	1.1
Secondary Units (Optional)						
Wet Dust Collector	Type		Ventury Type	Ventury Type	Ventury Type	Ventury Type
CV Series	Water Pump	kW	3.7	3.7	3.7	5.5
	Exhauster	cfm / kW	14500 / 18.5	15500 / 22	17500 / 37	21000 / 45
Bag House Filter	Type		-	-	-	Reverse Air flow*
	Dust Emission	mg / Nm ³	-	-	-	<150
	Filter Area	m ²	-	-	-	330
	Exhauster	cfm / kW	-	-	-	28250 / 90
	Total Connected Load	kW	73.7	89.8	126.2	156.6
	Recommended Genset Capacity	KVA	125	150	200	250
	Open Land Requirement	mtrs	35 x 30	35 x 35	40 x 35	50 x 40

* Options available

ACCESSORIES						
Filler Silo	Capacity Range	m ³	3 / 7 / 11 / 18 / 28			
Bitumen Tanks	Capacity Range	m ³	15 / 20 / 25 / 30 / 50			
	Heating System		Direct heating / Thermic oil heating			
Thermic Oil Heater	Hot Oil Heater Capacity	kcal / hr	300000 / 500000			
Hot Mix Storage Silo	Capacity Range	m ³	15 / 30 / 15 x 2 / 50 / 80			

With Apollo's policy of constant upgradation of products, specifications are subject to change without prior notice. Accessories shown are optional and not a part of standard supply.



GUJARAT APOLLO INDUSTRIES LIMITED

Corporate Office : "Apollo House" Near Mithakhali Circle,
Navrangpura, Ahmedabad - 380 009, INDIA.
Phone : +91-79-2656 3730 / 6618 8888 • Fax : +91-79-2656 4705
Email : info@apollo.co.in • Website : www.apollo.co.in

Registered Office & Works :

Ditasan, Post Jagudan,
State Highway, Mehsana - 382 710 (Gujarat) INDIA.
Phone : +91-2762-285 344 - 45 / 662 200
Fax : +91-2762-285 359

Bengaluru :
No. 116 / 3, First Floor, 11th Cross
(Above Union Bank of India)
Malleswaram, Bengaluru - 560 003.
Phone : +91-80-2346 2865
Fax : +91-80-2346 2864
Email : gael.blr@apollo.co.in

Chennai :
Plot No. 110, Defence Officers Colony,
Ekkattuthangal,
Chennai - 600 032.
Phone : +91-44-2232 5963 / 2231 7634
Fax : +91-44-2233 0954 / 2232 5963
Email : gael.chn@apollo.co.in

Guwahati :
20, K C Sen Road,
Paltan Bazaar,
Guwahati - 781 008.
Phone : +91-361-213 0294
Fax : +91-361-237 5353
Email : ga_ghy@gapallo.net

Kolkata :
17/36, Dakshindari Road,
Near VIP Bridge, PO : Shree Bhumi,
Dist.: 24 Paragnas (North),
Kolkata - 700 048.
Telefax : +91-33-25216263
Email : ga_kol@gapallo.net

Patna :
House of Dr. Anil Kr. Singh,
Parmanand Path, Nageswar Colony,
Boring Road, Next to Hotel Holiday Resort,
Patna - 800 001.
Telefax : +91-612-2530299
Email : ga_patna@gapallo.net

Bhubaneswar :
B-20, BDA Duplex Colony,
Baramunda,
Bhubaneswar - 751 003.
Phone : +91-674-235 4860
Fax : +91-674-235 4246
Email : gael.bbsr@apollo.co.in

Delhi :
C-479, Vikaspuri,
2nd Floor,
New Delhi - 110 018.
Phone : +91-11-2554 8603 / 3298 3253
Fax : +91-11-2554 8606
Email : gael.del@apollo.co.in

Hyderabad :
H.No : 2-3-531/19/2 (Part) Ground Floor,
D. V. Colony, Minister Road,
Secunderabad - 500 003.
Phone : +91-40-4020 7558 / 7559
Fax : +91-40-4020 7560
Email : gael.hyd@apollo.co.in

Mumbai :
112-113, Shrikant Chambers,
Near R. K. Studio, Sion-Trombay Road,
Chembur, Mumbai - 400 071.
Phone : +91-22-2520 4897 / 6922
Fax : +91-22-2520 5386
Email : gael.bom@apollo.co.in

Raipur :
House No. 1A, H. B. Colony,
Near Bharatmata School,
Tatibandh, Raipur - 492 099.
Telefax : +91-771-257 3268
Mobile : +91-93025 38707
Email : anil_belorkar@gapallo.net

One Source, Unlimited Possibilities...