

Manufacturing
Of **Road Equipments** 







- Asphalt Drum Mix Plant
- Batch Mix Plant
- Wet Mix Plant
- Concrete Batch Mix Plant &
- All Heavy Fabrication

- Bitumen Sprayer
- Bitumen Tank
- Paver Finisher
- Hydraulic Broomer
- Bitumen Pressure Distributor





## FOUR BIN FEEDER

- Build on rugged structure
- Feeder are usually synchronized with variable frequency drive
- Anti Bridging bin design to ensure smooth and easy material flow
- Wide opening bin width for easy feeding Through loader OPTION:-
- More than four bin Enclosed Design
- Emergency Stop System



## DRYING DRUM

- Available with skid base structure
- Flights design for optimum heating of all type of aggregate
- Drive through Friction drive or Chain Drive OPTIONAL:-
- Isolation with Rockwool



## HOT ELEVETOR

- Totally Enclosed
- Centrifugal discharge type bucket elevator
- Provided with Back stop drive



## **VIBRATOR**

- Drive with maintenance free six pole
   Two Vibrating motors
- Easy and top notch performance
- With bypass system





#### HOT BIN

- Four Compartment hot aggregate Bins with
- 13 m3 Storage Capacity
- Over flow and over size rejection chute
- Each compartment is equipped with pneumatic
- High level indicator provided in all bin
- actuated gates
- Temperature measuring prob in bin No.1



## MIXTURE

- Linear plate and Tips are made from wear resistance material
- Pneumatic opeated gate
- Twin Shaft mixture for homogenous mixing in short time of asphalt agregate and filler
- Jacketed pug mill with welded steel shell
- Soft start and inverter drive system
- Highly reliable and Low maintenance



## POLLUTION CONTROL UNIT

- This Unit helps asphalt plant to become environment
- friendly Filling system separate dust & gas which is generated during asphalt production.

## PRIMARY DUST COLLETING UNIT(CYCLON SYSTEM) :-

- Dust collected from Drying drum, vibrating Sceen and hot bins before they enter mixing drum
- Compliments the secondary dust collector

#### SECONDARY POLLUTION CONTROL UNIT (BAG HOUSE)

- Standardized multiple stage pollution control unit consisting of filter bag from Nomax Material
- Reverse airflow type cleaning operation
- With Screw conveyor for easy removal of dust partial



# ASPHALT TRANSFER PUMP

- 5.5KW, 450 LPM, Jacketed, gear type transfer pump
- Jacketed with Hot oil for smooth running
- Easy to operate





## BITUMENTANK

- The indirect Bitumen Tank are supplied with a high effciency thermic oil heater
- Fully insulated with Rockwool
- Totally hot oil coil fabricated with seamless pipe
- With level indicator with machinal Flout gauge

#### OPTIONAL :-

- Aggitator assembly
- Direct Heating Bitumen ank
- Storage capacity with 20 MT, 30 MT, 50 MT

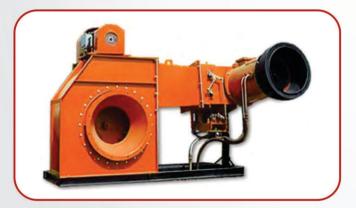


## THERMIC HEATER

- Come with machine-driven Temperature controls
- Integrated with automatic controllers considering low
- level switch, over temp. Cut off, pressure switch
- Pipe lines are insulated with Rockwool

#### OPTIONAL :-

Available with 2L Kcal/hr, 3L Kcal/hr, 5L cal/hr, 6L Kcal/hr



## BURNER

- S type modulating burner
- Multi Fuel Burner: LDO, Diesel, FO
- Low noise Burner
- Highly effcient



## CONTROL PANEL

- Modular design and simple use
- PLC type control panel
- Pre installed and factory tested
- Fully automatic via main PLC
- Special program for reports and graphics output
- Cold aggregate feeder speed flow adust automaatally according to requirement
- Easy to operate the plant
- Monitor shows all status on/off, current, temperature status
- SADA & HMI system connects asphalt plant to the world

# **TECHNICAL SPECIFICATION OF ASPHALT BATCH MIX PLANT**



Plant Model		Per	C 80	C 100	C 120	C 160	C 200
	Plant Capacity			400	100	400	000
	@3% moisture	tph	80	100	120	160	200
	Content						
	Bath Size	kg	1000	1200	1500	2000	2000
	Cycle Time	Sec	45	45	45	45	45
UNIT							
Cold Feed Bins	No.of Bins/Cap.	Nos/Ton	4/12	4/12	4/13	4/15	4/25
Charging Conveyor	Capacity	tph	100	120	140	180	240
Thermo Drum	Dryer (LxD)	Mtrs	6 x 1.54	6 x 1.60	7.5 x 1.85	8 x 2.10	9 x 2.40
	Driver Type			4w Friction Dri	ive / 4 W Chian I	Orive	
Burner	Type		High Pressure	, Fully / Automa	tic, Modulating E	Burner	
	Fuel			Diesel / F	urnace Oil / LD	)	
	Capacity	MW/hr	8	10	14.1	14.1	14.1
Hot Elevator	Capacity	tph	100	120	140	180	240
TOWER UNIT							
Filler Screw	Capacity	tph	12	15	20	25	30
Screening Unit	No. of Deck		2	2	4	4	4
	Screenin Method			Inclined	Linear Vibration		2"
	Screening Cap.	tpy	100	120	140	180	240
Hot Aggregate Bin Unit	No. of Bins		4	4	4	4	4
Weighing Unit	Agg.Hoper Cap.	Kg	1200	1400	1600	2200	3000
	Filler Hopper	Kg	200	200	300	300	500
	Bit.Hopper Cap.	Kg	200	200	225	225	400
Mixer Unit	Туре		٦	Γwin shaft Mixer	with hot oil jacke	eted on body	
	Mixture	Kg	1000	2000	1500	2000	2500
	Bitumen Pump	LPM	450	450	450	450	450
Pollution Con	trol Unit						
Primary	Туре	Centrifugal Twins cyclone Unit					
Secondary	Туре	Bag House Filter					
	Bag House Fillter	Reverse Air Flow System					
	Filtering Area	M3	400 Bag	400 Bag	432 Bag	480 Bag	504 Bag
Control Panel	Type	Siemens PLC base fully computerized (SCADA on request) Accessories					
ACCESSORIES							
	Cap. Range	M3	3	3	3/7	3/7	10/25/Dual
	Cap. Range	Ton	30	30	30 (2 Nos.)	30 (2 Nos.)	30 (2 Nos.)
	Heating System				ing / Indirect He		
	Hot Oil Heater Ca.	Kcal/hr	3,00,000	3,00,000	5,00,000	5,00,000	6,00,000
	Cap. Range (Optional)	TON	15	15	15/50/100	15/50/100	15/50/100/150





**PAVER FINISHER** 



**BITUMEN PRESSURE DISTRIBUTOR** 



**BITUMEN SPRAYER** 



**HYDRAULIC BROOMER** 



**BITUMEN TANK** 



**MOBILE DRUM MIX PLANT** 

# **ASPHALT DRUM MIX PLANT (CAP.25 To 300 TPH)**





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MODEL	DM-45	DM-50	DM-60
CAPACITY RANGE (TPH)*	40 to 60	60 to 90	90 to 12
DRYER			
Length (m)	6.0	6.7	7.3
Diameter (m)	1.2	1.5	1.8
Exhauster (CFM)	10500	12500	14500
Burner Rating (Ltrs/Hr.)	200	275	450
BIN FEEDER			
No. of Bins	4	4	4
Bin Capacity (M )	5.8	7.2	8.3
Belt Feeder Width (mm)	400	450	500
Gathering Conveyor Width (mm)	950	950	950
SLINGER CONVEYOR			
Conveyor Width (mm)	730	730	810
LOADOUT CONVEYOR			
Conveyor Width (mm)	810	810	950
Loadout Height (m)	4.12	4.12	4.25
Hopper Capacity (kg)	1000	1000	2000
POWER REQUIREMENTS			
Drum Driver (HP)	20	25	40
Exhauster (HP)	20	25	40
Bin Feeder Hopper (HP)	2	2	3
Gathering Conveyor (HP)	5	5	7.5
Slinger Conveyor (HP)	5	5	7.5
Vibratory Screen (HP)	1	1	2
Loadout Conveyor (HP)	5	5	7.5
Hydralic Powerpack (HP)	2	2	3
Bitumen (Asphalt) Pump (HP)	5	5	5
FILLER UNIT			
Rotary Valve (HP)	2	2	2
Blower (HP)	5	5	5
DRYER AUTOMATIC BURNER			
Fuel Pump (HP)	2	2	3
Blower (HP)	5	7.5	15
Hot Oil Pump (HP)	0.5	0.5	0.5
BITUMEN TANK			
Capacity (MT)	20	20	25
Insulation (Glasswool in mm)	50	50	50
FUEL TANK			
Capacity (Ltrs.)	2000	5000	5000
TOTAL CONNECTED LOAD			





**Dryer Drum** 



**Bitumen Tank** 



**Four Bin Feeder** 



**Pollution Conrtol** 



**Control Cabin** 



Vibrating Screen & Mineral Filler

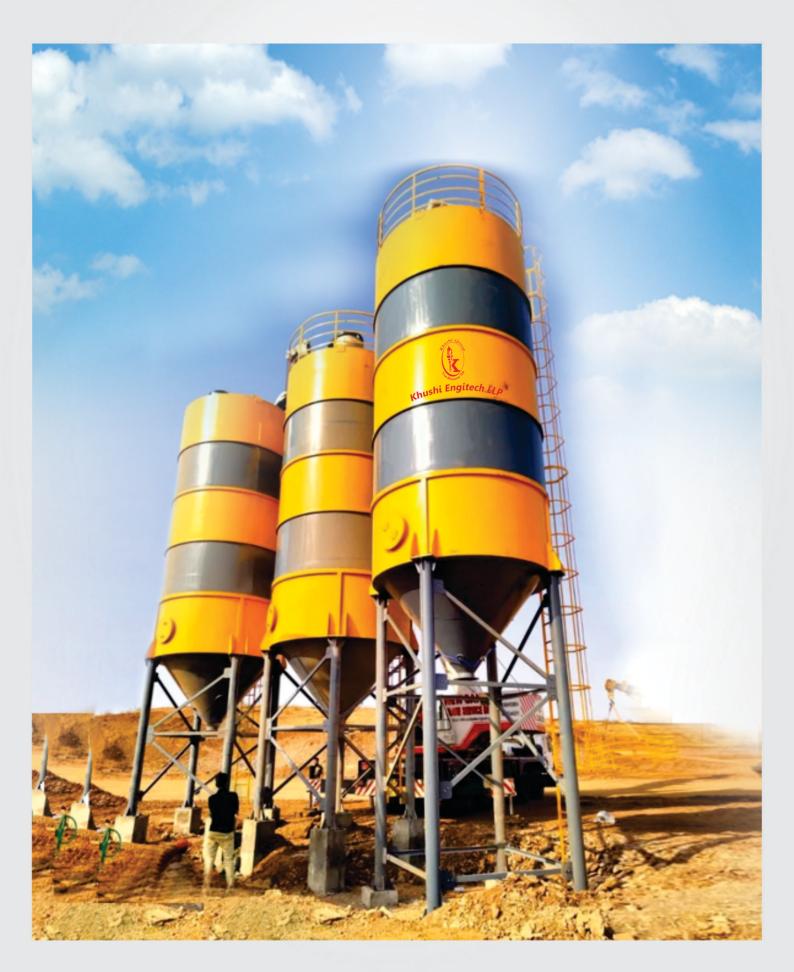


**Control Panel** 



**Inside Dryer Drum** 









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- Power with Kirloskar / Ashok Leyland Engine
- Chain Diamond / Renold
- Hydraulic Cylinder Tafe / Dental
- Screed Plate Hardox 400 / S.S.
- Stearing Unit Sauer Danfoss / Ognibene
- Auger Diameter 300 mm (Ni-Hard Material)
- Tyre Apollo / Ceat / J.K.
- Battery Amaron / Exide / SF Sonic
- Priority Valve Provision





MODEL	HAP - 6 HES	HWM - 6 HES	
Material Suitability	Bituminous Material	Bituminous, Wet Mix	
Operating Height	3010 mm	3010 mm	
Shipping Height	2200 mm	2200 mm	
Length	5600 mm	5600 mm	
Operating Width	3050 mm	3050 mm	
Weight Approx.	9500 Kgs.	10000 Kgs.	
Truck Dumping Clearance	600 mm	600 mm	
Wheel Base	2500 mm	2500 mm	
Engine Make	Kirloskar BS 6 Model 4R1040TC	Kirloskar BS III Model 4R1040TC	
	or Equivalent	or Ashok Leyland BS 6	
		ALHT4CTIC3	
Engine Output	76 HP@2200 rpm	105 HP@2200 rpm	
Battery	12 Volts Heavy Duty	12 Volts Heavy Duty	
Tyre Front	22"x16"x12" / 2 Nos.	22"x16"x12" / 2 Nos.	
Tyres Rear	11 x 20 - 18 ply	12 x 20 - 18 ply	
Paving Thickness	08-200 mm	08-200 mm	
Paving Speed	1.25 - 23 m	1.25 - 23 m	
Paving Width	2.5 to 4.5 m	2.5 to 4.5 m	
	(Hydraulically Extendable Screed)	(Hydraulically Extendable Screed)	
Travel Speed	0-16 KMPH	0-16 KMPH	
Steering	Power Steering	Power Steering	
Hopper Capacity	4 Cubic Meters	4 Cubic Meters	
Fuel Tank Capacity	100 Liters	100 Liters	
Hydraulic Oil Tank Capacity	80 Liters	80 Liters	
Augar Diameter	300 mm	300 mm	
Screed Vibration	0-30 Hz	0-30 Hz	
Crown	-1 to +3	-1 to +3	
Standard Accessories	Tool Box	Tool Box	

(Note: Specification / Description / Dimensions are indicative and subject to change without notice due to modification alteration or custom engineering.)

# SPECIAL PAVER KEY FEATURES

- Model HWM 6 HES 2
- Panel Box Switch Type Hydraulic Conveyor Drive
- Easy Operating System
- Cooling System 6.5L





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#### **FEATURES:**

- Modern Wet Mix Macadam Technology
- Produces High Quality Mix
- Portable or Stationary
- High Production Rate
- Highly Accurate Aggregate & Additives Feeder
- Easy to Operate

#### 4 BIN FEEDER:

It is of single chassis construction. At each Bin a radial gate is provided which can be opened in any position to regulate the aggregate flow. Individual endless belts are provided, below the gates to discharge materia onto the gathering belt.

#### **VIBRATING SCREEN:**

A single-deck vibrating screen is provided on the slinger conveyor to remove oversize aggregates received from the 4 bin feeder.

# **SLINGER CONVEYOR:**

An inclined conveyor with 500 to 600 mm wide belt mounted on idlers receives aggregate from the gathering conveyor and feeds it to the pug mill.

Madal	WINDS 400	WMM 200
Model	WMM 100	WIVIIVI 200
Output Capacity (TPH)	100	200
Four Bin Feeder		
No. of Bin Total Capacity	25 <sup>8</sup> /m	30/m <sup>3</sup>
Loading Width (mm)	2750	3050
Auxiliary Conveyor (MM/HP)	w400/2	w550/3
Gathering Conveyor (MM/HP)	w600/5	w600/7.5
Bin Vibrator (HP)	1	2
Slinger Conveyor (MM/HP)	w500/5	w600/7.5
Pugmill		
Capacity	1.62/m	2.4/m <sup>3</sup>
No. of Paddle Arms	28	32
Connected Load (HP)	25	50
Water Tank (Capacity)	15000 Lit.	20000 Lit.
Water Pump (HP)	2HP	3HP
Hyd. Power Pack (HP)	2 HP	3 HP
Loadout Conveyer (MM/HP)	w600/5	w600/7.5
Vibrating Screen (HP)	0.5	1
Total Connected Load (HP)	61	95

Due to continuous improvement, specifications are subject to change without notice.

Higher Capacity Plants are available on specific enquiry

**Pug Mill**: A twin shaft pug mill mounted on antifriction bearing provides quick, continuous and homogeneous mix of aggregates and additives.

**Water Tank**: One / Two Water Tanks of 15 / 20 MT capacity each are provided, fabricated from steel plates with manhole, flow meter, pump etc.

**Control Cabin**: A fully automatic Control Panel is provided for controlling the quantity and quality of production with operator sitting in Air-condtioned comfort.

Optional: Variable Feeding Device can be provided for Belt Feeder. Wet Mix Storage Silo & Water Tank.





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# **DRUM MELTING UNIT**



The Drum Melting Unit has been specifically designed to guarantee a very efficient melting of bitumen drums prior to usage.

We have two models available: with a melting rate of about 5000 and 8000 kg/hr. This equipment is designed to continuously melt bitumen contained in standard drums of 200 kg/each, so to enable a constant supply of bitumen. If needed, a suitable hot oil heater can be installed on the same skid to provide the required hot oil for the melting process and make the unit independent from external hot oil sources.

Drum Decanters and Melters are primarily used with asphalt mixing plants in territories where bitumen in bulk is either not available or regular supplier are unreliable and bitumen stored in drums is used as an alternative. decanters are designed for ease of operation and provide the most efficient system for ensuring a high out put of drummed bitumen.

Designed for use in association wiht bulk storage tanks the melted bitumen is automatically transferred from the decanter reservoir to the storage tank during the decanting process.

- Bitumen Decanting solutions for remote location.
- Hydraulically operated Drum loading System.
- Float switch operated transfer of bitumen via pump.
- Static or mobile decanters available.

- Hourly throughput upto 5 to 8 tonnes per hour.
- Thermostatically controlled temperature.
- Fully insulated and clad heating chamber.
- Easy to operate and simple to maintain.

MODEL				
Melting Rate	4 TPH			
Type of Heating System	Indirect Heating by hot Thermic Oil			
Max. Temperature for Bitumen	150 C			
Tank Capacity	25 TON			
Thermic Heater Capacity	3,00,000 K.cal/hr.			
Burner	Pressure jet 2 stage (make-reilo/benton			
Fuel	Diesel/LDO			
Thermic Oil Circulation Pump	16-20m3/hr (air cooled)			
Thermic Oil Pump Drive Motor	7.5 kw (430 volt x 50 Hz)			
Drum Lifting Electric Chain Hoist Cap.	2 Metric TON			
Bitumen Transfer Pump	24m3/hr.			
Pump Drive Motor (430 volt x 50 Hz)	7.5 KW			

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# BITUMEN PRESSURE DISTRIBUTOR HT 4000/6000/8000 LTR.





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MODEL	COMIX 4000	COMIX 6000	COMIX 8000
TANK DETAILS			
Width	2108 mm	2108 mm	2108 mm
Length	2400 mm	3000 mm	4000 mm
Height	1708 mm	1708 mm	1708 mm
Capacity	4000 Ltr.	6000 Ltr.	8000 Ltr.
Main Hole	600 mm	600 mm	600 mm x 2 nos.
Insulation	50 mm	50 mm	50 mm
Shape	Oval & Round	Oval & Round	Oval & Round
BURNER			
Type	Compressed Air Type	Compressed Air Type	Compressed Air Type
Burner Fuel Tank	50 Ltr.	50 Ltr.	50 Ltr.
Engine Fuel Tank	20 Ltr.	20 Ltr.	20 Ltr.
Service Tank	20 Ltr.	20 Ltr.	20 Ltr.
RECOMMENDED CHASSIS			
Wheel Base	148"	176"	176"
Clear Chassis Length	5000 mm	5600 mm	5600 mm

Due to Comix Policy of Continuous improvement / Development, the technical data Mentioned in this entire sheet is not binding and subject to change without notice.

# SPECIAL KEY FEATURES

- Fully insulated tank with high efficiency heating system.
- Air cooled diesel engine and positive displacement gear pump.
- Designed to suit standard truck chassis.
- Safe and Easy of operation. Hand spray system.

- Unique pressure cleaning system.
- Suitable for bitumen emulsion.
- Totally factory tested, arrives ready to launch.
- Bitumen tank cladded with G.I. sheet.

Air Compressor: Twin Cylindered, 2.25 KW, 360 LPM capacity with working pressure of 9 KG/CM-2.

**Driving Unit**: Powered by 18.5 KW (25 HP) air cooled diesel engine.

**Bitumen Spraying Pressure** : 0 - 6 kg/cm<sup>2</sup>, pressurized bitumen spraying.

**Temperature Indicators** :  $\rightarrow 0 - 300^{\circ}$ C (Analog) scale located on the tank.

→ Digital temperature indicator on remote box.

Spray Bar :→ Standard width 2.4 mtr.

→ Adjustable extension bar for spraying width up to 4.2 mtr. (Optionally a twin folding spay bar extendable upto 4.5 mtr. can be supplied.)

→ Nozzle distance 225 mm c/c.

→ Pneumatically operated nozzle for spray bar controlling.





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	Model	2.5 TON		
	Capacity	2500 Liter		
	Shape	U Shape		
Bitumen Tank	Insulation	50 mm thick with glass wool		
	Temp. Meter	0-300 °C		
	Main Hole	600 x 600 mm in diameter		
	Mounting	Self chassis mounted on wheels		
	Spray Pipe L ength	3 meters / 5 meters		
Manual hand spraying	Type of Pipe	S.S.304 Corrugated pipe		
opro <b>j</b> ang	Bitumen Spraying Pressure	0-3 kg. / cm2		
Ditumor Dumor	1.5" x 1.5" Size positive displacement gear pump with output			
Bitumen Pump	of 200 - 300 liters / min.			
Air Compressor	Standard mak e Air Compressor			
Burner	Fuel consumption 7 - 8 liters / hour			
Wood fire Bhatthi	Consumption as per your Heating requirement			
Engine Fuel Tank	Capacity 5 Liters			
Burner Fuel Tank	Capacity 20 Liters			
Engine	Standard mak e air cooled diesel engine 6 HP			

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# BENEFITS:

- An attachment on tractor
- Chassis and link age holder are entirely made of steel.
- 2.5 TON Capacity.
- Both Heating System, Wood Fire Bhatthi & Burner System.
- Heavy Duty Chassis & Structure.
- Safe & easy Operation.
- Hand Spray System.
- Easy Drum lifting System.





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Mode of Operation	Can be Operated Conveniently by towing with Hydraulic drive of tractor.			
Sweeping Width	2.1 Meter Clear Sweeping.			
Dust Collection	IN bucket of Capacity 250 Kgs.			
Sweeping Adjustments	Adjustable on both sides as per the Slope of Road			
Wheel	Two Heavy Duty Wheels			
Material of Brush	Nylon Bristles or Iron Bristles or a combination of both.			
Suitable to use for	Metaling			
Overall Width	2100 mm	Running Speed	20 km/hr.	
Sweeping Width	2100 mm	Angling of Brush	45 Degree	
Brush outer diameter	525 mm	Diameter or Brush	525 mm	
Sweeping Speed	7 to 15 km/hr.	Wheels for Drive	2 Tyre, 6 x 16 Nylon	

With COMIX 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.

# BENEFITS:

- An attachment on tractor or behind the bitumen pressure distributor.
- Chassis and linkage holder are entirely made of steel.
- Dimension to suit for transportation on all type of vehicles.
- Sweeping job is done in the forward direction, same as the machine.
- Gives good visibility to the operator by use of Anti Dust Guards.
- Screws for adjustment of pressure on the brush.

# Manufacturing Of **Road Equipments**

- We are Manufacturing All equipments in proper manner like
   We have quality team for designing as per actual equipment requirement.
- We have qualified team for quality inspection, our welding joint efficiency is very good.
- We are dispatch all equipments in proper way and standard quality checking so we can avoid any type of operational problem to our customers.
- We never compromise with quality of work and quality of material.
- We are always committed with lifetime service of our product.
- We are giving Repairs and Maintenance service to our valuable customers.







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