



DISTILLATION MACHINE

Devoted to the field of the Pyrolysis Plant & Distillation Plant



Shangqiu Mingsen Environmental Protection Equipment Co., Ltd

Shangqiu Mingsen Environmental Protection Equipment Co., Ltd is modern factory combined R&D, Manufacturing and Selling, company focus in pyrolysis and distillation area, own professional 3 R&D personals, 24 engineers, 18 technicians, our company insist on the principal of 'Service First, Quality First', with high qualitative production, good reputation and Excellent Service, production has been sold to more than 20 provinces, exported to Malaysia, Thailand, Korea, Philippines, Russia, Middle East etc... more than 60 countries.

Company Competitive Production: Waste Plastic, waste tyre, waste rubber and other solid waste Pyrolysis machine, Used engine oil, crude oil and other waste oil Distillation machine. Since 2008, our production has been updated to 8th generation production, build with perfect after-sale service system, from pre-sale technical guidance to After-sale installation, training and commissioning on buyer site. Company insist on lifetime service to help customer solve the problem during machine running process.



Crude Oil



Oil Sludge



Heavy Oil



Bottom Residue



Waste Plastic Oil



Fuel Oil



Waste Tyre Oil



Waste Hydraulic Oil



Used Engine Oil



Bilge Oil



Residue Oil



Other Waste Oil

Note: If your planned processing material different with above, welcome contact us for discussing and testing.

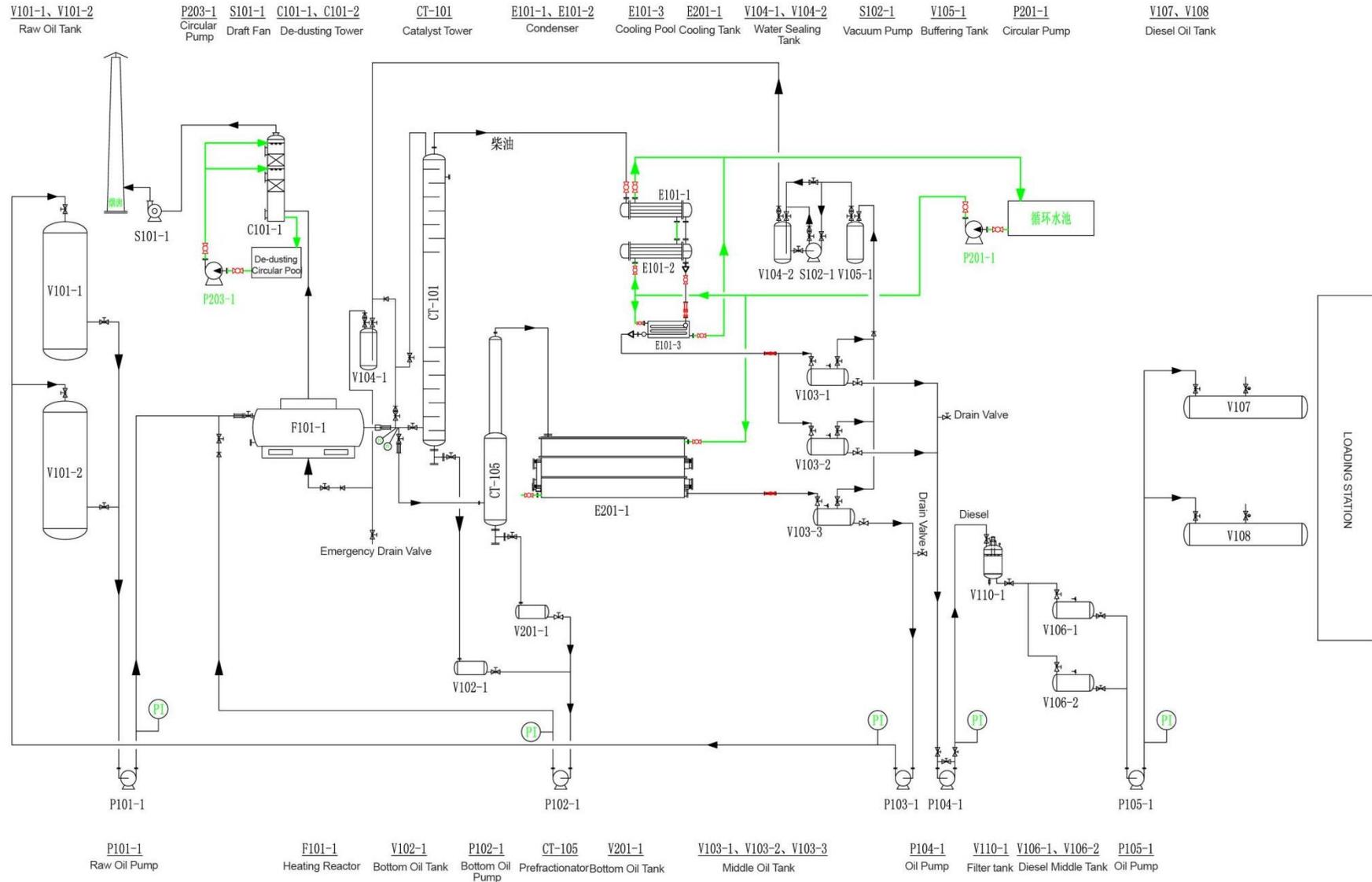
Different	NO.1 design	NO.2 design	NO.3 design
Design			
Automatic	No	Semi-Automatic	Fully Automatic
Continuous	No	Semi-continuous	Fully Continuous
PLC Control	No	No	Yes
End Production Color	Looks Similar as Diesel	Looks Similar as Diesel	Same as Diesel
End Production Smell	Not Like diesel	Similar as Diesel	Same as Diesel
Diesel Standard	Nothing index meet standard	Some index meet standard	All meet Euro standard
Appearance After storage for few time	Color and smell will be same as tire/plastic oil after storage for few hours/days.	Color and smell will be same as tire/plastic oil after storage for few hours/days.	Diesel fixed color and smell can be kept as long as 6 months
Handling Process	Physical Reaction	Physical and Simple Chemical(like acid, alkali washing, white clay filter) Reaction	Gas catalysis, liquid catalysis and refining filtration
Usage	Heating as Furnace Oil	Boat,tractors which can adopt crude diesel	Power oil for engines and electric generator

Note:1. If want to know more difference, contact with us freely;

2.The yield and quality of the products obtained depends on the characteristics of the starting material.

✘MINGSSEN Newst Distillation Technology is No.3 design, below all technical info based No.3 design.

Crude Oil/Waste Oil/Pyrolysis Oil Distillation Machine Working Flow Chart

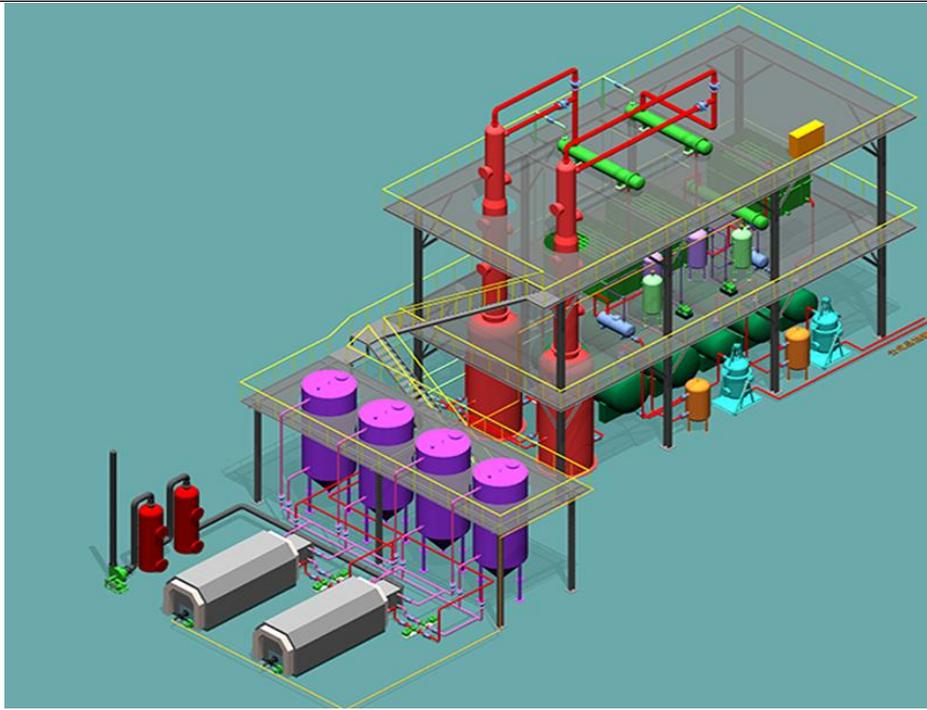


Step No.	Working Flow	Operating Action & Advantage
1	Feeding	Pump raw oil into Pretreatment System through Automatic oil pump;
2	Pretreatment System	Remove Water,glue and other impurities to ensure end production quality;
3	Heating Reactor	Heating for Fractionating, Coal, Fuel Oil, Natural gas all can be used as heating fuel;
4	Prefractionating System	Second-time separate water and light naphtha to ensure end production quality
5	Distillation/Catalyst (tower) system	Fractionating to get light diesel,diesel, heavy diesel and residue oil, Self-designed catalyst can be regenerated after , no second-time pollution.
6	Refining filter system	Quartz filter, Activated carbon filter and homemade adding filter, for fixing color and smell to be as long as 8 months.
7	Noncondensable gas recycle system	Not only save energy and economical, but also avoid pollution.
8	De-Dusting system	Treated by professional industry purification system before emission,ensure meet national standard emission requirement;
9	Slag/Residue Oil Discharging	Flexible operating can get 2 different production, get it according market demand.

Note:

1) Non-condensable gas is the gas which couldn't be liquefaction under normal pressure;

2)Oil-Water separating system included in whole machine set, 3 stage separation ensure end production oil meet standard.



Adopt atmospheric pressure prefractionating, and vacuum distillation, catalytic cracking distillation, solvent refining, solvent extraction and other new technologies;

Catalyst can be regenerated, no second time pollution to environment, increase end production yield;



Adopt self-designed professional catalyst, filtration composite materials and other innovative technologies to ensure product quality;

End Production quality meet Euro standard, based on processing used engine oil or plastic oil.

No.	Capacity	Model	Covering Area	Auxiliary Area
1	5TPD	ZM-5	720 m ² (L36m*W20m*H10m)	1000 m ² (Raw material and end product store)
2	10TPD	ZM-10	740 m ² (L37m*W20m*H10m)	1100 m ² (Raw material and end product store)
3	30TPD	ZM-30	1200 m ² (L40m*W30m*H12m)	1300 m ² (Raw material and end product store)
4	40TPD	ZM-40	1600 m ² (L50m*W32m*H12m)	1800 m ² (Raw material and end product store)
5	50TPD	ZM-50	1800 m ² (L50m*W36m*H16m)	2500 m ² (Raw material and end product store)
6	100TPD	ZM-100	10000 m ² (L200m*W50m*H32m)	13000 m ² (Raw material and end product store)
Note:Office,staff canteen and dormitory not included.				

Used engine oil as raw material:

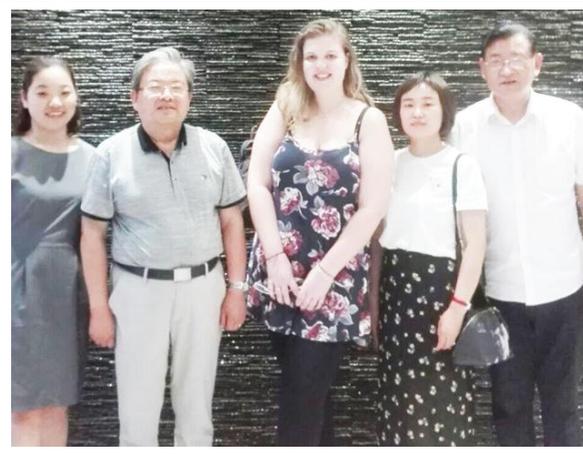
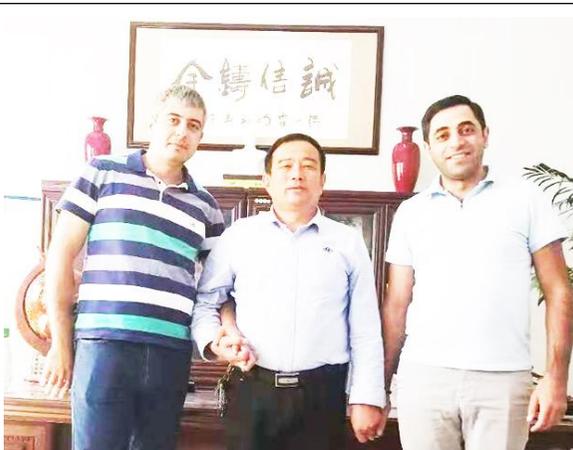
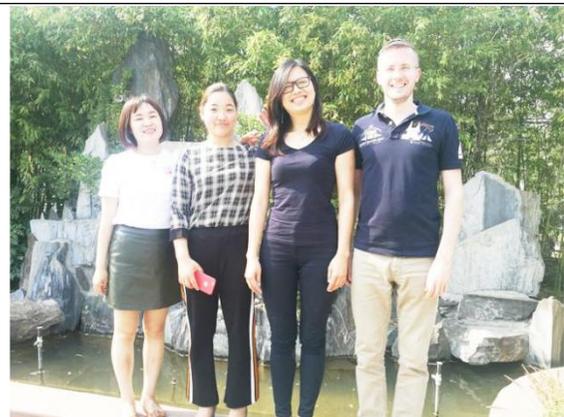
No.	Material Name	Yield	Usage	Photo
1	Light diesel	12%	* National quality can be used as power oil	
2	Diesel	73%	* National quality can be used as power oil	
3	Residue oil	9%	* If slag as end production, used for making bricks or building road; *If residue oil as end production, used for making asphalt or building road.	
4	Combustible gas	3%	*Used for heating fuel via gas burner(gas burner provide by free).	
5	other	3%	*Water or natural loss, water can be recycled to be used as cooling water.	

	Item	Item Content	Unit (tons/day)	Unit Price (\$/ton)	Amount/USD	Totally/USD
Daily Input	Raw material	Used engine oil	20	350	7,000.00	8,016.00
	Fuel	Fule oil	0.6	450	270	
	Electricity	35 kw/hour	24 hours	0.15	126	
	Catalyst	Catalyst Fomula		25	500	
	Workers Salary	2 workers/shift * 2 shifts	4 workers	\$30 / workers	120	
Daily Output	Diesel	75%	15	720	10,800	12,120.00
	Gasoline	5%	1	840	840	
	Residue oil	15%	3	160	480	
Daily Profit	\$12120 - \$5016 = \$ 4,104.00					

Note:

- 1) Above price based on Chinese local market, please calculate your local profit based on above calculation way.
- 2) Fuel kind can be natural gas, fuel oil, coal, wood, if you use other kind fuel, contact with us on its consumption.

No.	Service Type	Service Content Description
1	Before-Sale Service	24 hours Technician consultant, Prospect Feasibility Analysis,etc...
2	Warranty	Warranty 1 year for whole set machine, lifetime maintenance.
3	Drawing Provided	Foundation Drawing, Layout Drawing provided for your prepare before machine arrive to site
4	Installation,commissioning and Training	Send Technicians to buyer site once machine arrived. Engineer we provided to customer for installation guidance, commissioning and training, whole process for free .
5	Production Upgrading	Lifetime guiding customer upgrading production.
6	Spare Parts	Lifetime provide spare parts (with lower price than market)
7	Raw Material Sourcing	Share raw material supplier contact info
8	End Production selling Channel	Share end production buyer contact info
9	Equipment Relocation	If customer need change the machine place because of some reason, we will send technician for site service.







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