



ANFO MIXERS

MELANGEURS NITRATE

INFORMATION SHEET

DESCRIPTION

The mixer provides a cost effective method for Anfo manufacture at mines and quarries. The unit is mounted in a free standing frame. Ammonium nitrate prills and fuel oil (FO) are mixed at a preset ratio of 94:6

AN prills are loaded into a hopper through a stainless steel screen. The hopper discharges into an augering tube.

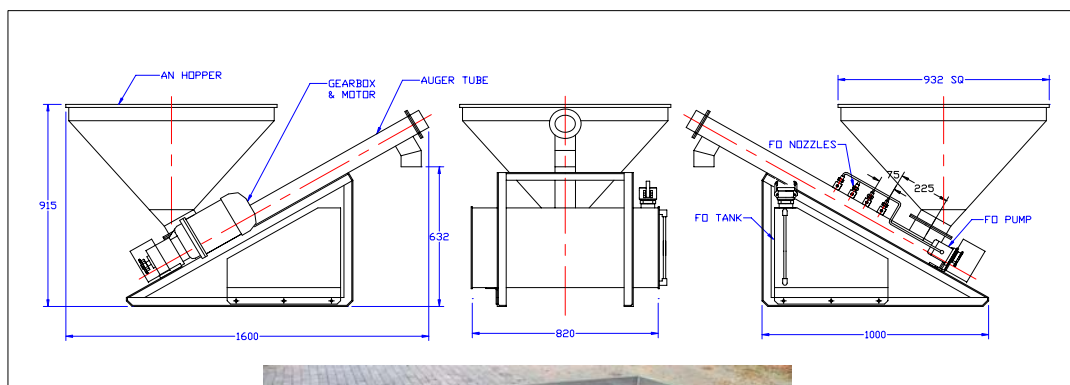
Fuel oil is pumped from a rear mounted tank by a gear pump and sprayed through two nozzles onto the prills in the auger tube. The mixture is conveyed along the auger tube and is discharged via a spout at the end of the tube.

A fuel oil flowmeter and control valve are provided for flow monitoring and adjustment.

SPECIFICATIONS

Mixing rate	:	30 kg/min
Hopper capacity	:	50 kg
FO tank capacity	:	100 litres
Drive power	:	Electric, motorised gearbox, 0.75 kW , 380V
Material of const.	:	Auger, auger tube, hopper, FO tank & frame: Stainless steel
Weight	:	ca 120 kg net

DIMENSIONS





ANFO MIXER MODEL 50FE

INFORMATION SHEET

DESCRIPTION

The mixer provides a cost effective method for Anfo manufacture at mines and quarries. The unit is mounted in a free standing frame. Ammonium nitrate prills and fuel oil (FO) are mixed at a preset ratio of 94:6

AN prills are loaded into a hopper through a stainless steel screen. The hopper discharges into an augering tube.

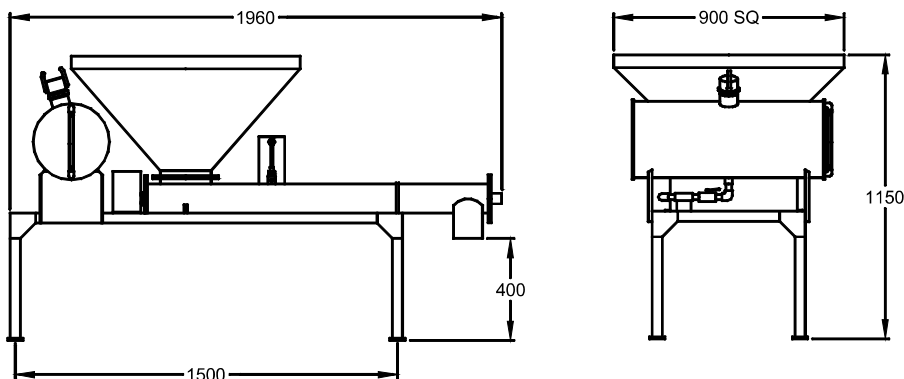
Fuel oil is pumped from a rear mounted tank by a gear pump and sprayed through two nozzles onto the prills in the auger tube. The mixture is conveyed along the auger tube and is discharged via a spout at the end of the tube.

A fuel oil flowmeter and control valve are provided for flow monitoring and adjustment.

SPECIFICATION

Mixing rate	:	50 kg/min
Hopper capacity	:	50 kg
FO tank capacity	:	50 litres
Drive power	:	Electric, motorised gearbox, 1.1kW , 220V or 380V
Material of const.	:	Auger, auger tube, hopper & FO tank: Stainless steel Frame: Carbon steel
Weight	:	ca 170 kg net

DIMENSIONS



DESCRIPTION

The mixer provides a cost effective method for Anfo manufacture at mines and quarries. The unit is mounted in a free standing skid frame. Ammonium nitrate prills and fuel oil are mixed at a preset ratio of 94:6

AN prills are loaded into a hopper through a stainless steel screen. The hopper discharges into an augering tube.

Fuel oil is pumped from a rear mounted tank by a gear pump and sprayed through two nozzles onto the prills in the auger tube. The mixture is conveyed along the auger tube and exits via a discharge spout at the end of the tube.

The mixer is hydraulically powered driven by a hydraulic motor, a manual lever hydraulic valve is provided to stop & start the mixer.

A fuel oil flow meter and flow control valve are provided for flow monitoring and adjustment.

SPECIFICATIONS

Mixing rate	:	50 kg/min
Hopper capacity	:	50 kg
FO tank capacity	:	50 litres
Matl. of construction	:	Auger, hopper & FO tank – stainless steel Frame – carbon steel
Drive power	:	Hydraulic, 15 l/min @ 8 MPa
Painting	:	Etch primer, dark grey enamel topcoat
Dimensions (mm)	:	L – 2150, W – 900, H - 1000
Weight (kg)	:	ca 170



INFORMATION SHEET

DESCRIPTION

The mixer provides a cost effective method for Anfo manufacture at mines and quarries. The unit is mounted in a wheeled frame. Ammonium nitrate prills and fuel oil are mixed at a preset ratio of 94:6. Typically used at surface mines for charging blastholes of 50 mm diameter x 3m deep & larger.

AN prills are loaded into a hopper through a 6mm aperture stainless steel screen. The hopper discharges into an augering tube.

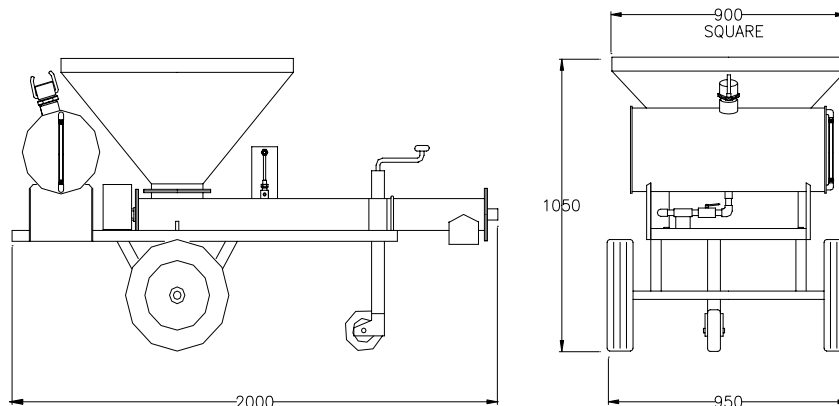
Fuel oil is pumped from a rear mounted tank by a gear pump and sprayed through two nozzles onto the prills in the auger tube. The mixture is conveyed along the auger tube and is discharged via a spout at the end of the tube.

A fuel oil flowmeter and control valve are provided for flow monitoring and adjustment.

SPECIFICATION

Mixing rate	:	50 kg/min
Hopper capacity	:	50 kg
FO tank capacity	:	50 litres
Drive power	:	Air motor, required compressed air supply - 35 l/s @ 700 kPa
Material of const.	:	Auger, auger tube, hopper & FO tank – SS Gr 304L Frame: carbon steel, primed & painted
Weight	:	ca 170 kg net

DIMENSIONS



DESCRIPTION

The mixer provides a cost effective method for Anfo manufacture at mines and quarries. The unit is mounted in a wheeled frame. Ammonium nitrate prills and fuel oil are mixed at a preset ratio of 94:6

AN prills are loaded into a hopper through a stainless steel screen. The hopper discharges into an augering tube.

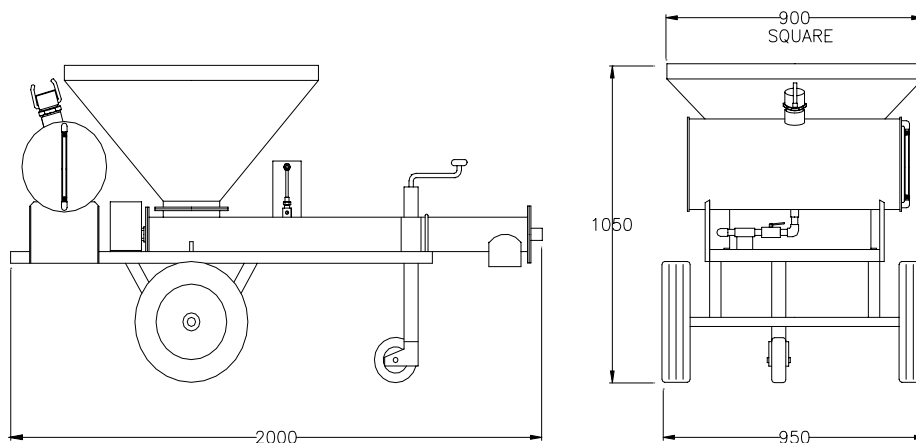
Fuel oil is pumped from a rear mounted tank by a gear pump and sprayed through a nozzle onto the prills in the auger tube. The mixture is conveyed along the auger tube and is discharged via a spout at the end of the tube.

A fuel oil flowmeter and control valve are provided for flow monitoring and adjustment.

SPECIFICATION

Mixing rate	:	50 kg/min
Hopper capacity	:	50 kg
FO tank capacity	:	50 litres
Drive power	:	Electric motorised gearbox, 1.1 kW, 380V
Material of const.	:	Stainless steel: auger , auger tube, hopper, hopper screen & fuel oil tank. Carbon steel: frame
Weight	:	ca 170 kg net

DIMENSIONS





ANFO MIXER & BAGGING HOPPER MODEL MB120

INFORMATION SHEET

APPLICATION

This combination of Mixer & Bagging Hopper is for the mixing of Anfo & dispensing into bags.
Design production capacity is up to 20 tonnes of Anfo per day.

FEATURES

- Modular construction, quick installation
- Simple operation
- Compact arrangement
- Manufactured in corrosion resistant steel

DESCRIPTION

Mixer

A 1500 kg capacity hopper is designed for holding AN discharged from 1200 kg cap. bulk bags.
A bag rupturing spike is fitted inside the hopper. Lumps & foreign matter are screened out on a woven wire screen inside the hopper.

The hopper connects to an inclined screw conveyor tube.

Fuel oil is supplied from a 200 litre tank mounted onto the mixer frame. Fuel oil is pumped by a positive displacement pump & sprayed onto the prills in the correct ratio via 3 spray nozzles.

A direct reading flowmeter is provided for F.O. flow rate measuring & monitoring.

The mixer is driven by an electric motorised gearbox with drive power transmitted from the gearbox to screw conveyor & pump via sprocket & chain drive.

The mixer discharges the mixed product into the bagging hopper.

Bagging hopper

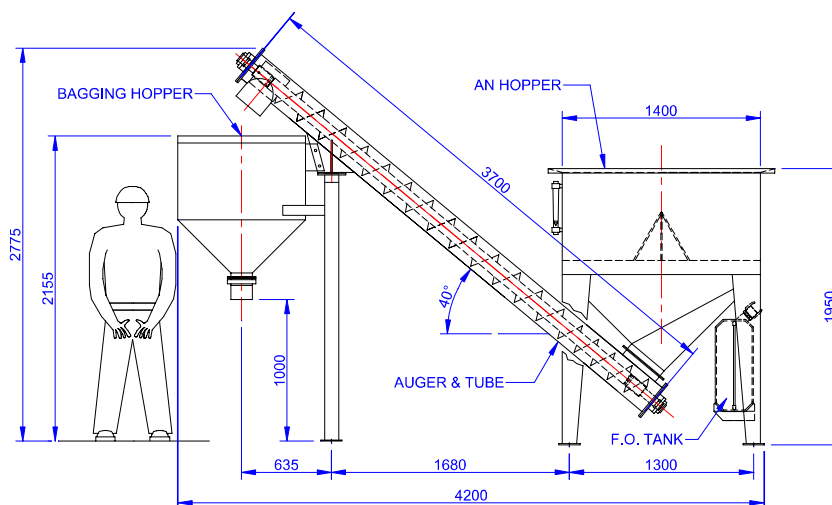
The bagging hopper is mounted from the mixer A-frame legs, holding capacity is 200 kg.

The bagging hopper outlet is fitted with a diaphragm type valve for dispensing product into 25 kg capacity bags, a scale (customer supply) can be used for weighing off exact amounts.

SPECIFICATIONS

- Manufacturing rate: 120 kg/min
- Mixer hopper capacity: 1500 kg
- Fuel oil tank capacity: 200 litres
- Auger tube size: 200 nominal diameter
- Bagging hopper capacity: 200 kg
- Drive power requirement: 2.2 kW, 380V
- Materials of construction: Auger & tube – SS, Hoppers & F.O. tank – 3CR12, A frame – CS

DIMENSIONS



INFORMATION SHEET

DESCRIPTION

The mixer provides a cost effective method for Anfo manufacture at mines and quarries. The unit is mounted in a free standing frame suited for fixed plant operation. Ammonium nitrate prills and fuel oil are mixed at a preset ratio of 94:6. Mixing rate can be varied from 100 – 200 kg/min by means of a mechanical variable speed gearbox.

An electronic counter can be fitted as an optional extra to provide a totalising function.

AN prills are loaded into a hopper through a stainless steel screen. The hopper discharges into a screw augering and mixing section.

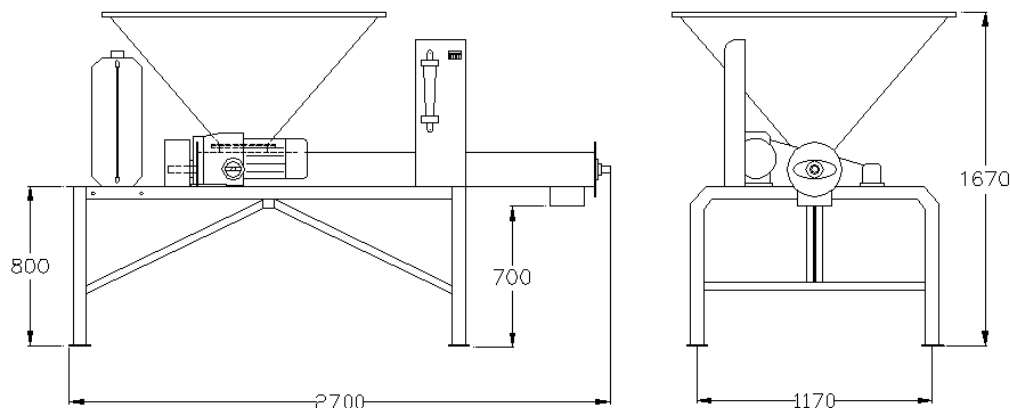
Fuel oil is pumped from a rear mounted tank by a gear pump and sprayed through two nozzles onto the prills in the auger tube. The mixture is conveyed along the auger tube and exits via a discharge spout at the end of the tube.

A fuel oil flowmeter and control valve are provided for flow monitoring and adjustment.

SPECIFICATIONS

- Mixing rate : 100 – 200 kg/min
- Hopper capacity : 200 kg
- Fuel oil tank capacity : 150 litres
- Drive power : Elect. motor 1.5 kW, 380V with variable speed gearbox
- Material of const. : Tank, auger & hopper – Stainless steel, grade 304L
Frame – carbon steel
- Weight : ca 350 kg net

DIMENSIONS



INFORMATION SHEET

DESCRIPTION

The mixer provides a cost effective method for Anfo manufacture at mines and quarries. The unit is mounted onto a chassis with suspension suitable for mine site towing behind a light delivery vehicle. Ammonium nitrate prills and fuel oil are mixed at a preset ratio of 94:6

Drive is by an air powered motorised gearbox.

AN prills are loaded into a hopper through a grid. The hopper discharges into a screw augering and mixing section.

Diesel is pumped from two side mounted tanks by a gear pump and sprayed through two nozzles onto the prills in the auger tube. The mixture is conveyed along the auger tube and exits via a discharge spout at the end of the tube.

A fuel oil flowmeter and control valve are provided for flow monitoring and adjustment.

SPECIFICATIONS

- Mixing rate : 100 kg/min
- Hopper capacity : 150 kg
- Diesel tank capacity : 50 litres x 2 off
- Drive power : Air motor, compressed air supply - 35 l/s @ 700 kPa
- Matl. of construction : Tanks, hopper & auger – SS Grade 304L
Frame – Carbon steel
- Weight : ca 250 kg net

DIMENS

