

LEC/E-4398/12/19  
January 22, 2020



**LARK  
ENGINEERING  
COMPANY (INDIA) PVT. LTD.**

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**An ISO 9001:2008 Certified Company  
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[www.larkenggco.com](http://www.larkenggco.com)**

**Subject:** Your requirement of Feed Machines

**Kind Attn:** Sir

Dear Sir,

Please refer to your telephonic discussion you had with our undersigned regarding above cited subject; we thank you very much for your interest in our machines, which is highly appreciated. We are pleased to quote herewith price and brief details of the following.

We will always be pleased to be of service to you and we hope our offer will fall in line with your requirement.

For more details, please go through our site or contact us.

Looking very much forward to hear from you soon.

Best regards

For **LARK ENGINEERING COMPANY (INDIA) PVT LTD**

**Kunal Sharma  
Asst. Engineer ( Sales & Marketting )  
Mob : +91-9215359685**

Enclosures:

- 1) Quotation
- 2) Business Terms and Conditions

**SEMI-AUTOMATIC MASH FEED PLANT**

**with Full Screen Grinder and Double Ribbon Screw Mixer (500 Kg/batch)(Total Power = 27.5 HP)**

(See details on Page-9, of our catalogue

This plant will give you the **output of 1200-1500 kg/hr** (on average) for finisher/layer feed and some what lesser for starter/ chicks feed.

SR	ITEMS	LIST PRICE	POWER
1	<b>FOUNDATION ATTACHMENT</b> This is an optional attachment needed for Screw conveyor before Grinder only, Screw conveyor can work without it also, but it facilitates easy removal of screw conveyor from its foundation for maintenance.	5500.00	-
2	<b>SCREW CONVEYOR (FOR GRINDER)</b> Model: <b>SC-1010</b> Function: To carry ground ingredients from floor to Grinder. Power: 3 HP (1440 RPM) <b>Price without Motor and V-Belts</b>	36000.00	3
3	<b>FULL SCREEN HAMMER MILL (GRINDER)</b> Model: <b>QGA-1015</b> Power: 15 HP (2880 RPM) <b>Price (Without Motor and Coupling)</b>	74000.00	15
4	<b>CONNECTING PIPE</b> This is a detachable pipe to connect Grinder with Screw Conveyor. When only grinding is needed this pipe can be removed and direct bagging from grinder can be done.	2700.00	-
5	<b>SCREW CONVEYOR: (See details on Page-8, on catalogue)</b> Model: <b>SC-808</b> Function: To carry ground ingredients from grinder into mixer. Power: 2 HP (1440 RPM) <b>Price without Motor and V-Belts</b>	32000.00	2
6	<b>HORIZONTAL FEED MIXER: (Double Ribbon Screw Mixer)</b> <i>(See detail &amp; design feature on Page 6 of our catalogue)</i> Model : <b>LHMR-5</b> Power : 7.5 HP Capacity: 500 kg <i>Mixing Efficiency: It can mix the whole batch within 4 to 6 minutes with coefficient of variation less than 7%</i> <i>Gear Box: PBL make.</i> <i>Molasses Tank: including Molasses tank over Mixer.</i> Price without Motor but with oil immersed steel Geared box.	185000.00	7.5
	<b>Total for all the above</b>	<b>3,35,200.00</b>	<b>27.5</b>

<b>Optional Equipment's</b>				
SR	ITEMS		LIST PRICE	
<b>1</b>	<b><u>V-BELTS:</u></b>			
	For Screw Conveyor of grinder		440.00	
	For Grinder (Coupling)		2640.00	
	For Screw Conveyor of mixer		380.00	
	<b>(V-Belts are of FENNER Make)</b>			
<b>2</b>	<b><u>MOTORS:</u></b>			
	For Screw Conveyor	3 HP 1440 RPM	11716.00	3
	For Grinder	15 HP 2880 RPM	39413.00	15
	For Screw Conveyor	2 HP 1440 RPM	8931.00	2
	For Mixer (Flanged Mounted Motor)	7.5 HP 1440 RPM	20999.00	7.5
		<b>Total for Motors</b>	<b>81,059.00</b>	<b>27.5</b>
<b>3</b>	<b><u>MOTOR CONTROL CENTRE:</u></b> The MCC is consisting of followings:- a) An Incoming main switch. b) Switches for 20 HP, 15 HP and two 3 HP Motor. c) Star Delta Starter for 20 HP & D.O.L. starters for 15 HP & two 3 HP Motor. All internal wiring of MCC. MCC is cubical type, self-supporting and all starters and switches mentioned will be of L & T/ Schneider/ Tele-mecanique Make. <b>All Electrical Cable lying from mains to MCC and from MCC to individual Motor will be to client scope.</b>		72000.00	
<b>4</b>	<b><u>Magnet System</u></b> Self-Cleaning Magnet At Hopper Of Hammer Mill		16000.00	-
		<b>Total For all the above machines</b>	<b>5,07,719.00</b>	<b>-</b>

**Note: GST @ 12% and Transportation are excluded.**

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## Technical Specifications

### 1. Foundation attachment

This is an optional attachment needed for Screw Conveyor for Grinder only, Screw conveyor can work without it also, but it facilitates easy removal of screw conveyor from its foundation for maintenance.

When Screw Conveyor is used for Feeding the Mixer, Lark Engg. has made a big renovation and has attached the screw conveyor on feed mixer hence no foundation is needed. But while using to feed the Grinder, we have to make concrete foundation. For quick removal of screw from foundation for maintenance new foundation attachment has been designed. You can dismantle your from the foundation by unscrewing four bolts only. It reduces the down time for maintenance and your machine can be started quickly.



### 2. Screw Conveyor (for Grinder)

Model: **SC-1010**

Outside Diameter: 10" ( Inch)

Overall Length: 10' (Feet)

Function: To carry ground ingredients from floor to Grinder.

Power: 3 HP (1440 RPM)

It consists of a screwed shaft (Auger) rotating in a pipe for vertical lifting. The screw is mounted on dust protected anti-friction bearings. The screw body is provided with the dump hopper for intake of materials and outlet for discharging.



### 3. Full Screen Hammer Mill (Grinder)

Model: **QGA-1015**

Capacity:

Model	Capacity/Hr. Maize Grinding in kgs.				Capacity/Hr. Mixed feed Grinding in kgs.				Capacity per Hr (Millet) bazra
	Screen Hole Size				Screen Hole Size				
	3mm	4mm	4.75mm	5.5mm	3mm	4mm	4.75mm	5.5mm	
FSHM-1015	800	1800	3200	4000	1000	2500	4000	6000	1800

Power: 10-15 HP

#### OUR PATENTED QGA - TECHNOLOGY

Inventing this technology is one more feather to our cap and a total grinding solution for all types of grinding. "Quick-Gap-Adjustment" QGA, as its name implies this technology is a boon for grinding different sizes of products as fine/ Medium/ coarse by quick change of gap between hammer tip and screen, thus creating ideal parameters for optimum grinding of product.

#### Your Gains / Benefits

- a) Due to use of optimum screening area per kw, higher tip speed and direct coupled motor, these hammer mills are highly energy efficient and power consumption per ton of grinding is very low.
- b) The gap between tip of hammer mill and screen plays a very important role for efficiency as well as quality of grinding. Our hammer mills are having the provision to adjust the gap suitable for fine grinding and coarse grinding. This results in quality of grinding to be more

uniform, increases the efficiency, no jamming of screens and allows wide variety of products to grind.

c) The design is very much user friendly as the changing of screen is very easy and quick. Similarly removal of rotor for main bearing changing is also very easy and quick.

Lark introduces model QGA-1015, a hammer mill specially designed for small feed mills. It can run on 10-15 HP motor and has solved the problems of fine grinding. It has given outstanding results on millet grinding and can be used as separate unit. For normal grinding it has provision to shift to coarse grinding. It is supplied with Inlet hopper, outlet hopper, vibration dampers.



4. **Screw Conveyor:**

Model: **SC-808**

Outside Diameter: 8" (Inch)

Overall Length: 8 (Feet)

Power: 2 HP (1440 RPM)

Function: To carry ground ingredients from grinder to mixer.

It consists of a screwed shaft (Auger) rotating in a pipe for vertical lifting. The screw is mounted on dust protected anti-friction bearings. The screw body is provided with the dump hopper for intake of materials and outlet for discharging.

5. **Double Ribbon Screw Mixer (LHMR-5)**

Model: **LHMR-5**

Capacity: 500 kgs/Batch

Function: For homogeneous mixing of different ingredients.

Power : 7.5 HP

*Mixing Efficiency: It can mix the whole batch within 6 to 8 minutes with coefficient of variation less than 7 %*

*Molasses Tank: including Molasses tank over Mixer.*



Lark Engineering introduces smart double ribbon screw mixers with its patented (Appln. No. 1544/DEL/2007) world advanced ribbon design which can perform mixing at much faster rate using minimum of power.

### Our patented design

Double ribbon screw mixer is being manufactured in this world from the last many decades with common design features of inner and outer blades. One or more of following problems are generally faced in these designs :

1. Bending of ribbon and arms particularly near to side walls.
2. Excessive product heating.
3. Longer mixing time.
4. More power per ton of mixing.
5. Mixing not up to the mark.

In our patented design, both outer and inner ribbons are having variable cross section area i.e., wider at the start of the ribbon and narrower at the end, both ribbons are having end relief. With these modifications, we have achieved following results:-

1. Breakage and bending of ribbons completely eliminated.
2. Very less heat is generated.
3. Mixing Efficiency: Due to the usage of much wider blades, more pitch of blades, higher rpm, the mixing efficiency of these mixers is the highest in its class world over.

### Note:

#### Power Requirement on Mixer :

- ❖ If you add up to 5% Molasses , then Motor for Mixer is of rating: 7.5 HP, 1440RPM
- ❖ If you add 5% to 15 % Molasses , then Motor for Mixer is of rating: 10 HP, 1440RPM

### Medicine Hopper:

Medicine or Premixes can be added directly into mixer by opening the lid of window provided at the top of mixer. However to prevent the wastage of micro ingredients by back pressure of air of elevator etc. a medicine hopper can be installed. Its material of construction is stainless steel of 304 grade and is specially designed for smooth discharging in to mixer without any residue in medicine hopper when bottom slide gate is opened. Sealed top cover is provided to prevent the dust leakage equipped with medicine hopper for addition of micro-ingredients directly into mixer.



### Access Platform to Mixer:

As the medicines, oil molasses are added directly to mixer from top and slide gate of Batch Bin is also at some height, for easy access to operate these, side stairs and platform can be installed.

The stairs are wide for comfortable walking and has railing all around and chequered plate is used for flooring and stairs to avoid any slippage.



**MISCELLANEOUS (Exclusion from offer):**

- 1) Transportation (on to pay basis) and transit insurance charges (at actual).
- 2) Unloading of machines at your site.
- 3) All Civil Works and labour/Cranes required for erection.
- 4) All Electrical wiring from mains to panel and panels to individual motors.
- 5) Power, water used for erection and feed ingredient for Trail will be provided by you
- 6) You will have to arrange for boarding, lodging and Local conveyance for our Erection Team
- 7) Handling/Loading/forwarding/packing charges **(1% of the total value)**
- 8) All Taxes & Octori.
- 9) Any way bill required and is to be arranged by you.
- 10) Alteration in the motor's panel, machine due to low voltage will be borne by you.
- 11) We need 15 KW power connections along with welding set at erection site.
- 12) Any other not mentioned above.

**General Consideration:**

- 1) There is **no water seepage** for the machines which are to be fitted below ground level.
- 2) Feed is of standard/ Normal quality (i.e. density, flowability etc)
- 3) Performance of the machines may vary due to variation of standard supply voltage i.e. 440 V, 50 Hz.

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**BUSINESS TERMS & CONDITIONS**

- 1 **PRICE BASIS:**  
Prices quoted in this offer are Ex-our works at Yamuna Nagar and with standard accessories only. **Taxes applicable @ 12% GST.** Any other levies, Octroi will be to your account.  
The present offer is based on prevailing prices of raw material, standard components, Government Policies/ taxes, etc. The prices shall be subject to revision in the event of variation of any of foregoing factors as well as those not mentioned.
- 2 **TRANSPORTATION:** On to Pay Basis
- 3 **PAYMENT:**For Machines: 50% of total value of order towards advance and balance against delivery at our works (before dispatch). All payment to be made at Yamuna Nagar.
- 4 **DELIVERY:** Between 30-35 days from the date of receipt of commercially & technically clear purchase order
- 5 **VALIDITY:** This offer is valid for a period of 10 days for Mechanical equipment and 7 days for electrical equipment (If any) **and** subject to confirmation thereafter
- 6 **QUALITY WARRANTY:** Machines manufactured by us are guaranteed against any manufacturing defects for a period of one year. This does not in any case cover defects due to improper use and mishandling. Warranty for Standard items/ equipments such as motors, bearings, V-belts etc which are procured from outside, will be directly given by the supplier / manufacturer.
- 7 **FORCE MAJURE:** We shall not be liable for any loss or damage due to late delivery resulting from circumstances beyond our control and in particular, but without prejudice, to the generality of foregoing act of God, war, Government, inability to obtain raw material, equipment, power, fuel, transportation, lockouts, strikes etc.
- 8 **ERRORS:** Any typographical errors/omissions in this offer if any, are subject to corrections
9. **CANCELLATION:** In the event of cancellation of the order, amount of advance to us will be forfeited in total.
- 10 We reserve all rights to change design or dimensions, as we deem appropriate at any time for the betterment of machinery.
- 11 **JURISDICTION:** All disputes subject to Jagadhri jurisdiction only

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