

LEC-E-8477/08/20
August 29, 2020



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

M/s Sahil Traders
Mairwa
Siwan
Bihar
Mob. No: +91-9955280438
E-mail:

An ISO 9001:2008 Certified Company
I.T.I., Sasoli Road, Jagadhri Workshop
Yamuna Nagar-135002 (Haryana) INDIA
Tel. +91-1732-254685, 328084
Telefax +91-1732-259685
Email: feedplants@larkenggco.com
www.larkenggco.com

Subject : Your requirement of Feed Machines

Kind Attn: Mr. Dilip Kumar Singh

Dear Sir,

Please refer to your telephonic discussion you had 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 our Full Screen Hammer Mill, model **QGA – 1015 with our latest patent technology.**

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-G+ap-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.

For more details, please visit our website www.larkenggco.com or contact us.

Looking very much forward to hear from you soon.

Best regards,

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

Kunal Sharma
Asst.Engg.
Mob: 9215359685

Technology to achieve Proper Grinding

Grinding different sizes of product (fine/ Medium/ coarse)

In poultry feed, we need different particle size of feed referred to as fine or coarse to feed a day old chicks to full age broiler/ chicken. For optimum grinding we need different parameters for fine grinding or coarse grinding.

To obtain coarse/fine grinding following step are to be taken:

- **Screen** of smaller hole for fine and bigger hole for coarse feed is used.
- **change the tip speed:** to change the tip speed of hammer, speed of motor can be changed by fitting a VFD (Variable frequency drive) or dual speed motor or D.C. motor .
- **Gap adjustment** between hammer tip to screen is varied by changing the position of hammers on different PCD on circular plates of rotor.

In simple hammer mills, the required particle size is obtained by changing the hole size of screens while the other parameter of hammer mill such as tip speed of hammer mill, gap between hammer tip to screen, remain same.

So an ideal gap is of utmost importance to achieve high quality grinding, combined with efficiency.

Because: -

If a hammer mill is set for smaller gap say 10 mm for fine grinding with 3 mm hole screen. It will not give required coarseness of feed, if 6 mm hole screen is employed until gap is increased to suit 6 mm hole. By increasing hole size of screen, uneven grinding is achieved.

Gap adjustment in FSHM series: - In FSHM series, the gap between hammer tip and screen is adjusted by altering the position of hammers on rotor. For this beater holding the circular plates have two set of holes at different PCD. If hammers are on outer PCD holes, the less gap for fine grinding is achieved. Similarly for coarse grinding, beaters are set in inner set of holes to produce more gap.

In this method of gap adjustment, as the no. of hammer on rotor goes on increasing with increase in size of hammer mill, particularly on bigger hammer mills it wastes so much time to remove all the hammers from one position and fitting in other position. Sometimes, requirements are there to shift from one setting to other many times a day. So practically it is not usually possible to always change the gap by altering the position of hammer for varying quality of feed because it causes huge production loss as well as trained persons are required for it. So, generally only changing of screen is done to achieve the target. It results compromises on quality of feed and production loss.

This problem of changing hammers from one position to other position to achieve proper gap is greatly solved in our QGA series.

Gap adjustment in QGA series: -

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.

➤ **FULL SCREEN HAMMER MILL (QGA-1015)**

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.

1) **Price, Power and Capacity:**

Model	Capacity/Hr. Maize Grinding in kgs.				Capacity/Hr. Mixed feed Grinding in kgs.				Capacity per Hr (Millet) bazra	Power In H.P
	Screen Hole Size				Screen Hole Size					
	3mm	4mm	4.75mm	5.5mm	3mm	4mm	4.75mm	5.5mm	3.17mm	
QGA-1015	600	1800	3200	4000	1000	2500	4000	6000	1800	10-15

Price without motor

Rs. 74, 000.00

Please note that the output of the Grinder given above is indicative, and depend on other factors also, such as:

- 1) Feed Formulation.
- 2) Material characteristics.
- 3) Moisture content in the Feed

Screening Area:

QGA 1015: Two screens each of 21"x 8.5" size

Accessories:

The above Quoted price **Includes:**

1. One Pair of Screen
2. Vibration Pads

Does not Includes:

1. Motor
2. V- Belt/Coupling
3. Pulley

(Note: No foundation is required for our Full Screen Hammer Mill)



➤ **OPTIONAL**

1. **MAIN MOTOR FOR GRINDER:**

Make: Crompton

It will be main driving motor of the grinder. We can install two types of motors- one of 2880rpm single speed motor and other of 2880/1440-rpm dual speed motor.

For optimum grinding, we need higher tip speed of blades for fine grinding and slower speed for coarse grinding. In dual speed motor we get two different speeds for all type of grinding.

Price for 2800 rpm **15 HP**

Client Scope

Motor mentioned here would be of ABB/Crompton or any other reputed Indian Make.

2. **COUPLING:**

Make: FENNER

For QGA 1015:

Rs. 2,640.00

Total for all the above	Rs. 76,640.00
Discounted Price for all the above	Rs. 67,857.00
Total for all the above with GST @ 12%	Rs. 76,000.00

Note:

- 1.) **Transportation is excluded.**
- 2.) **We can supply Between 30-35 days from the date of commercially & technically clear purchase order with advance. This schedule is under ideal conditions considering situation w.r.t. pandemic COVID - 19 will improve in coming 1 Month.**

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

Kunal Sharma

Asst.Engg.

Mob: 9215359685

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 and platform.
- 4) Electrical Wiring from mains to panel and panels to individual motor.
- 5) Power, water used for erection and feed ingredient for Trail will be provided by you
- 6) You will have to arrange for boarding and lodging for our Erection Team
- 7) Handling/Loading/forwarding/packing charges (**1% of the total value**)
- 8) All Taxes & Octroi.
- 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, flow ability etc.)
- 3) Performance of the machines may vary due to variation of standard supply voltage i.e. 440 V, 50 Hz.

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

Kunal Sharma
Asst.Engg.
Mob: 9215359685

BUSINESS TERMS & CONDITIONS

- 1 **PRICE BASIS:** Prices quoted in this offer are Ex-our works at Yamuna Nagar and with standard accessories only. **GST@ 12% will be charged extra.** 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:** It will be on to Pay Basis.
Handling/Loading/forwarding and packing (where required) charges **(1% of the total value) will be charged extra**
- 3 **PAYMENT:** 50% of total value of order towards advance and balance against delivery at our works **(before dispatch).**
- 4 **DELIVERY:** Between **30-35 days** from the date of commercially & technically clear purchase order.
- 5 **VALIDITY:** This offer is valid for a period of 7 days for Mechanical equipment and 7 days for electrical equipment (If any) from this date 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 and normal wear of parts. Warranty for Standard items/equipments such as motors, bearings, V-belts, electronics 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 We reserve all rights to change design or dimensions, as we deem appropriate at any time.
- 10 **JURISDICTION:** All disputes subject to Jagadhri jurisdiction only

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

Kunal Sharma
Asst.Engg.
Mob: 9215359685