



Vishwakarma
ENGINEERING

About Us

Established : Company Vishvkarma Engineering started in 2015.

Network : Regd. Office & Works @ Rajkot, Gujarat, India

Infrastructure : Fully equipped manufacturing unit with State of the Art facilities located @ Rajkot

Our Products : 'Vishvkarma' Super 60, Supreme 70, Jumbo 90, Wood Chipper cum Grinder (Crusher), Briquette Loader, Dryer & its Allied Spares.

Vision

- Promoting Eco-friendliness by developing energy efficient solutions. Supporting the Green Globe Movement.
- Considered to be the most preferred organization to work with by all our business associates.
- Creating a work environment that fosters passion, creativity and optimism with fun, respect and pride for all individuals.

Mission

- Our mission is to work as a team and achieved productivity with continual improvement, customer satisfaction & employee growth with an emphasis on innovative design, engineering marvel and realization of quality of reliable and high performance briquetting presses.
- Systematic research into the best plant solutions for satisfying our customers' needs and requests.
- Technological innovation of products through new and advantageous technical and design solutions.
- Dedicated to the development of technology through scientific excellence and innovations.

Briquetting

'BRIQUETTING' is the physical transformation of loose bio-mass raw material into a compact & compressed unit. Technically, to convert low

bulk density bio-mass into high density and energy concentrated fuel 'BRIQUETTES' is known as BRIQUETTING.

Briquettes

After harvesting of each crop, abundant agricultural residues can be used to generate an alternative fuel BIO-MASS BRIQUETTES.

Being a great source to generate Income Tax Free income tax, briquettes are cost effective and environment friendly.

Raw Material

Areca nut Shells, Almond Shells, Banana, Barley, Baggase, Bamboo Dust, Billion dollar Grass, Black Gram, Black pepper, Bloned Psyllium, Cardamom, Carpet Legume, Cashew Nut, Castor Seed, Casurina, Chickling Vetch, Cluster Beans, Coconut Shells, Coffee, Coriander, Cotton, Cowpea, Cumin Seed, Deccamhamp, Dry Chilly, Egyptian Clover, Eucalyptus, Finger Millet, Fox Tail Millet, Garlic, Gingelly, Ginger, Gram, Green Gram, Green Peas, Ground Nut, Guar, Horse Gram, Jowar, Jute, Kidney Bean, Koto Millet, Korra, Lantana Camera, Lentil, Linseed, Maize, Makka Chara, Mango, Mustard Waste, Nigerseed, Oat, Onion, Paddy, Palm Oil, Peas, Pigeon Pea, Pine Needles, Potato, Prosopis Juliflora, Rapeseed & Mustard, Red Gram, Rubber, Sunflower, Saffron, Samai, Sannhemp, Saw Dust, Sesamum, Small Millet, Soyabean, Spiked Millet, Sugarcane Wood chips, Wood Waste, Municipal Dried Waste, forestry etc.



Technology (Briquetting)

The concept of briquetting is fairly old. Coal dust and other material have been briquetted for a number of years using binders. However the binder less technology has been found to be the most economical and suited to the various biomass materials available in the country. At present direct (binder less) technology is most popular & successful. This technology has been adapted to suit Indian conditions according to the characteristics of raw material available from various geographical region in different seasons. This binder less briquetting technology is based on ever high compact characteristics of combustibles cellulose agro waste such as biases & saw dust, groundnut shells, rice husk, cotton stalk, wheat straw, mustard shell etc. into cylindrical briquettes through high process heat.

Feasibility of the Project

- High profitability
- Excellent growth potentiality
- Ready market
- Short gestation and quick payback
- Employment potentiality
- Wide variety, easy availability, supply of agro waste of every crop
- Socio-Economic project with vast employment potential
- Short gestation and quick payback period
- Conversion of natural resources (wastage) in to hi-tech energy & maintenance of ecological balance
- Minimum working capital

INCENTIVES BY THE GOVERNMENT: The Government of India has announced series of incentives for promoting this project for putting up such Plants to the enter printers engaged in developing alternative energy source.

The major incentive are..

80% DEPRECIATION: The total value of plant and machinery is allowed to be depreciated in the first year.

INCOME TAX EXEMPTION: Govt. of India has offered 5 years Income Tax exemption to the Biomass Briquettes manufacturers.

EXCISE EXEMPTION: The solid fuel Briquettes are completely exempted from Excise duty. The Government is also considering exemption in the case of plant & machinery.

SALES TAX EXEMPTION: The various state like M.P., Rajsthan, Tamilnadu, Delhi, Pondicherry and Andra Pradesh etc. have exempted solid fuels briquettes from sales tax. Other states are also considering the same and many state are offering sales tax exemption in backward area.

NO LICENSES: The whole industry of non conventional energy sources has been exempted for obtaining any license.

BENEFITS OF PRIORITY SECTORS: Energy being prime sector of development and considering the cost of project benefits of sis and priority sector are available.

Why 'Vishvkarma'?

Vishvkarma Engg. Has One Of Most Advanced And Well Equipped Infrastructure Allowing Us To Manufacture All The Components For Our Systems And Make A Virtue Of Being Produces Ourselves.

- State Of Art & Well Equipped Workshop.
- In House Production Facilities For All Critical Spares & Parts.
- Quality Checks At Every Stages To Avoid Mejour Faults At Custimer's Sites
- World Class Machinery. • Efficient Tool Room & Zig Fixture
- Spacious Machine Shop For Conducting Assembly
- Dedicated Team Of Expert Technicians Focused Tominimize Trouble Shooting
- Located On Natinal Highway 27 For Convinient Transportation
- In House Training Facility. • Well Equipped Office Setup.



Super-60



The SUPER - 60 series is developed for a micro business segment who want to produce 2000 to 4000 tons of briquettes on an annual scale. This machine offers a production capacity ranging b/w 600-750 kg/h.

Characteristics of 'VISHVKARMA' Briquetting Press SUPER - 60

Production Capacity	600 - 750 kg/hr
Finished Product Size	60 mm Diameter
Finished Product Shape	Cylindrical
Raw Material form	Powdery
Power Require for Machine, Hammer, Blower	37 H.P. + 30 H.P. for hammer mill

Superme-70



The SUPREME - 70 series is a popular machine that has been developed for customers who demand medium capacity model. The machine can produce bio-mass briquettes 750-850 kg/h and thus matches the demand of customers who have medium volumes of raw material.

Characteristics of 'VISHVKARMA' Briquetting Press SUPERME - 70

Production Capacity	600 - 750 kg/hr
Finished Product Size	60 mm Diameter
Finished Product Shape	Cylindrical
Raw Material form	Powdery
Power Require for Machine, Hammer, Blower	37 H.P. + 30 H.P. for hammer mill

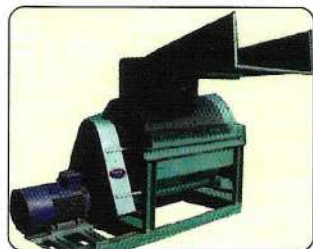
Jumbo-90



JUMBO - 90 is our flagship model amongst all the ram-piston type mechanical presses. It offers a production capacity ranging b/w. 1200- 1800 kg/h for industrial application and max.1400 kg/h for the domestic market. Jumbo - 90 is appropriate for the customers, who have large scale demand for briquette pressing. This machine is capable to be operated almost round the clock and is often installed with automatic control for fully automated operation as well as manual operation. The Jumbo - 90 is the most preferred and appreciated briquetting press for the domestic and international market.

Characteristics of 'VISHVKARMA' Briquetting Press SUPERME - 90

Production Capacity	1200 - 1800 kg/hr
Finished Product Size	90 mm Diameter
Finished Product Shape	Cylindrical
Raw Material form	Up to 25mm in length Max.
Power Require for Machine	91 H.P.
Key Features of JUMBO 90	• Maximum Production Capacity • Heavy structure with standard design • Acceptability upto 20 mm size of Raw Material (NO need of powder Form) • Easy Operating system High-density of finished product with 90 mm diameter • Lowest production cost per MT due to state of art technology • Low Electric consumption due to direct feeding without Hammer Mill • Low maintenance cost • No loss of production & Air pollution due to direct feeding system.



Crusher cum Shredder

Chipping is done by fixed blades mounted on a rotary disc. The blades cut up materials it is fed through a chute. Our chipper can be reversed to extend their life. Vishvkarma Wood Chipper models sit on the ground and shoot material off to the side, onto a laid out trap or well-placed wheel-barrow. Vishvkarma Wood Chippers are better for heavy stalks and large woody materials.



Briquette Loader

Vishvkarma Briquette Systems offers State of art material transfer belt conveyor methods that is used primarily for feeding larger amounts of finish Product from our briquetting system to load any kind of transportation.

Briquette Loader

Sun dried materials containing approximately 10-15 % moisture is suitable for briquetting. However if material has higher moisture content it needs to be dried before use. Material is screened, chopped and ground to get the desired size and bulk density and is pneumatically transported into storage bins. This helps in separation of the heavier & match lock particles and also unifying the moisture content in the material. Air used is hot or wet as the case may be, for control moisture.

Material from bin is discharges to the machine through regulated conveyors where it is compressed in specially designed dies. The compression raises the temperature of the material, softening some of the inherent binders in it, which come to the surface and bind the material together. Cooled briquettes are cut and packed in bags or stored in build for shipment or use. No binder is required in the process.



Raw Materials



Grinding Process



Drying Process



Briquettes as a fuel



Finished Briquettes



Briquetting Process



Application

Any type of thermal application like Steam generation in boilers, heating purpose, drying process & gasification plant to replace existing conventional fuel like Coal, Fire Wood & Costly liquid fuel like FO, LDO, Diesel & Kerosene.

Market

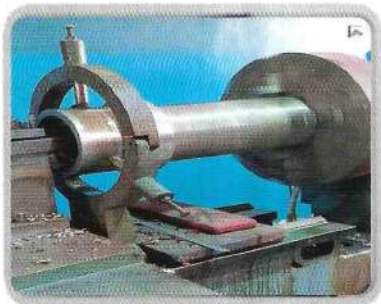
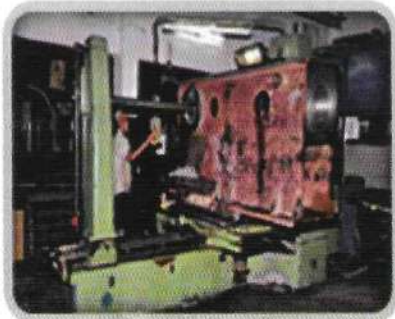
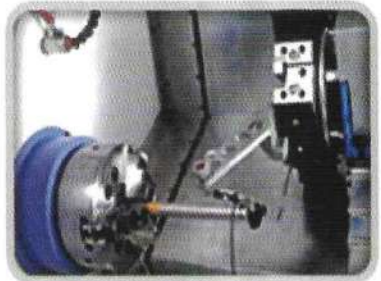
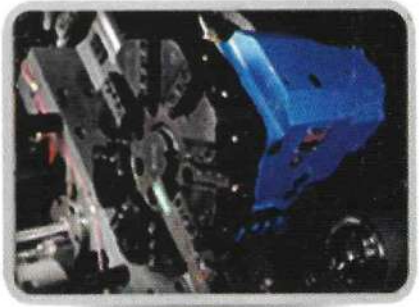
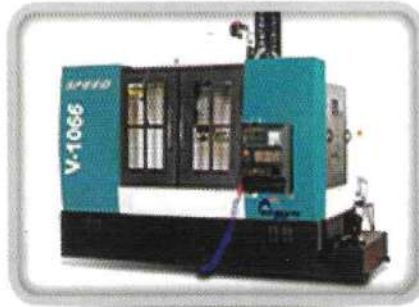
- Gasified System Applications, Refractory Industries, Chemical Industries.
- Milk Plant, Vegetable Plants, Spinning Mills, Leather Industries, Rubber Industries.
- Ceramic Industries, Solvent Extraction Plant, Dyeing Units, Food Processing Ind.
- Textile Unit, Lamination Industries, Brick Making Units, Industrial Thermal App.
- Bio-mass based power generation plants.

Advantage of Bio-mass Briquettes

- Gasified System Applications, Refractory Industries, Chemical Industries.
- Milk Plant, Vegetable Plants, Spinning Mills, Leather Industries, Rubber Industries.
- Ceramic Industries, Solvent Extraction Plant, Dyeing Units, Food Processing Ind.
- Textile Unit, Lamination Industries, Brick Making Units, Industrial Thermal App.
- Bio-mass based power generation plants.



Infrastructure & Strength





● Regd. Office & Works ●



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ENGINEERING

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