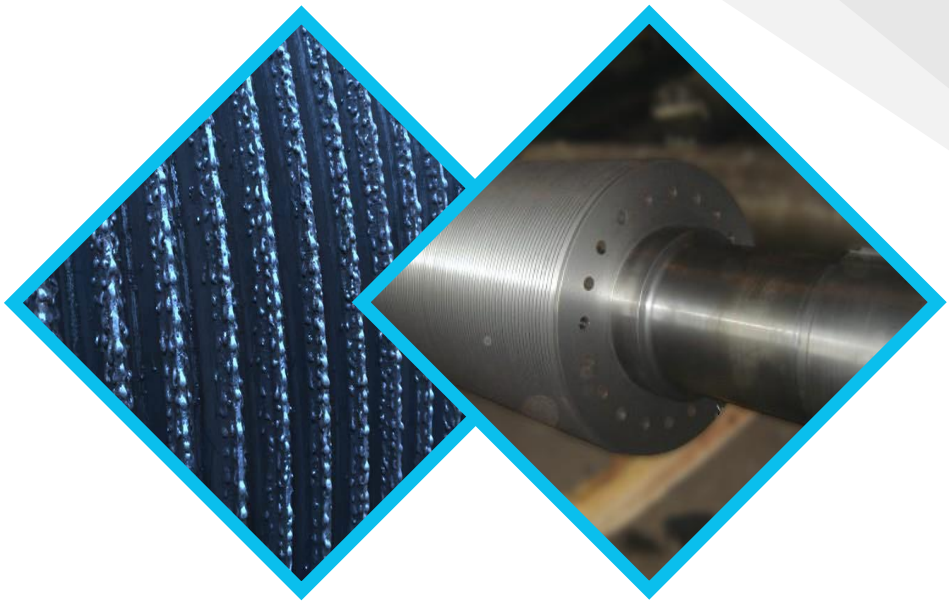
SUGAR N POWER
Projects Private Limited



SUGAR MILL ROLLERS

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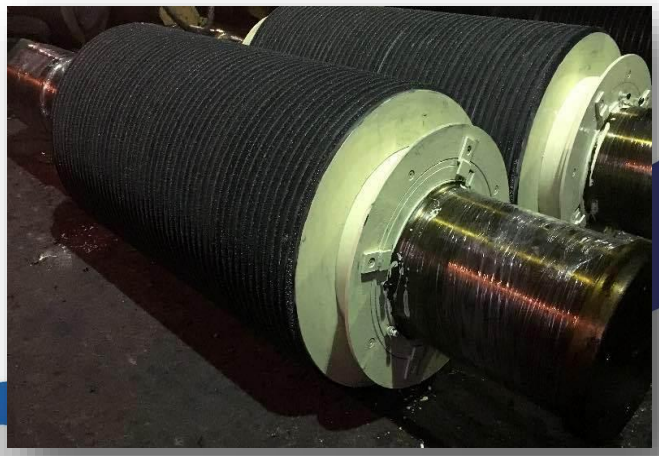
SUGAR MILL ROLLERS

OFFERED RANGE: Mill Size : 24” X 48” to 50” X 100”

Extracting juice from sugar cane to make sugar involves squeezing fiberized cane between large rotating rollers. Grooving of the cast iron roller surfaces and subsequent arcing of teeth profile with globules of hard and highly durable metal improves juice extraction and prevents slippage of fiberized cane during crushing.

The three rollers of a conventional mill are arranged in a triangle, so that the fiber is squeezed twice between the top roller and the feed roller and the top roller and the discharge roller. The rollers have cast iron, grooved shells mounted on steel shafts.

Chevron shaped grooves are cut lengthwise through the circumferential grooving as an aid to feeding. Such grooving decreases the effective pressure surface of the rollers and causes excessive bagasse in mixed juice. We offer rollers with arcing & Chevron grooving as per need of customer.



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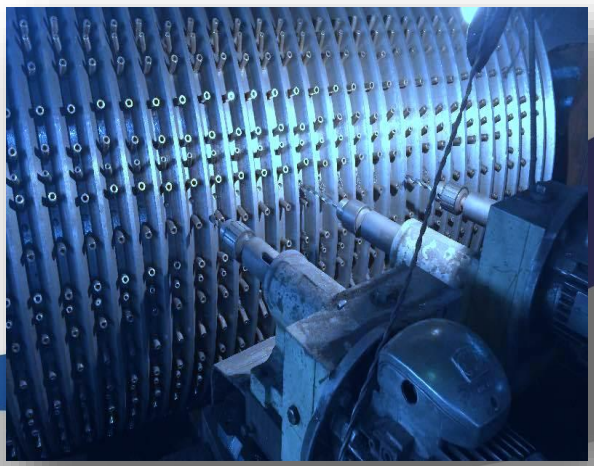
TYPES OF ROLLER

a) **Conventional Roller**
b) **Lotus Roller with Single Nozzle**
c) **Semi Couch Roller:** Lotus Roller with 2/3 Nozzles
d) **Couch Roller:** Lotus Roller with 5 Nozzles
e) **Underfeed Roller:** Plain
f) **Underfeed Roller:** Grooved
g) **Grooved Roller Pressure Feeder**
h) **Fabricated Toothed Roller Pressure Feeder**
i) **Fabricated Toothed Under Feed Roller**

Grooved Roller Pressure Feeder (GRPF) & Toothed Roller Pressure Feeder (TRPF) are installed in existing Mill to increase the Crushing Rate and better Juice Extraction. It also reduce the Bagasse Moisture and Bagasse Pol. It also helps in reduce the Mill load.



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MATERIAL DETAILS

A) ROLLER:

Roller having coarse grain cast iron shell confirming IS 11201

Hardness : 180 – 210 BHN

We also offers Special Grade Cast Iron sugar mill rollers as per IS 11201 (1985 – 2009), Approved by the Metallurgical Engineering Division Germany DIN 1693-2005 too.

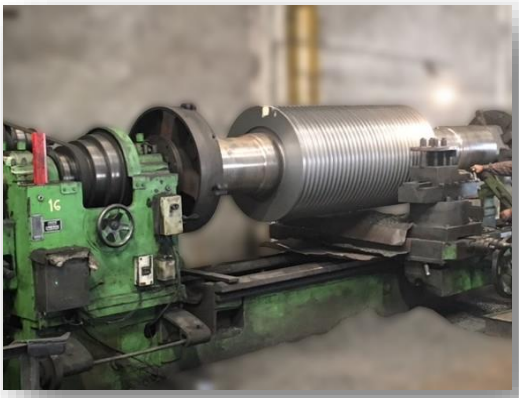
Special Grade Cast Iron Sugar Mill Rollers offer:

a) Improved Strength
b) Improved Wear Resistance
c) Improved dimensional stability and stress relief
d) Thus has life 35-50% more than standard roller depending on working conditions

B) FORGED STEEL SHAFT:

i) Material: 40C8 / 45C8
IS: 1570-1979RA-1998
Hardness: 170 – 210 BHN

ii) Material: Alloy Steel EN-19
Hardness: 201 – 255 BHN



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Our Global Presence

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