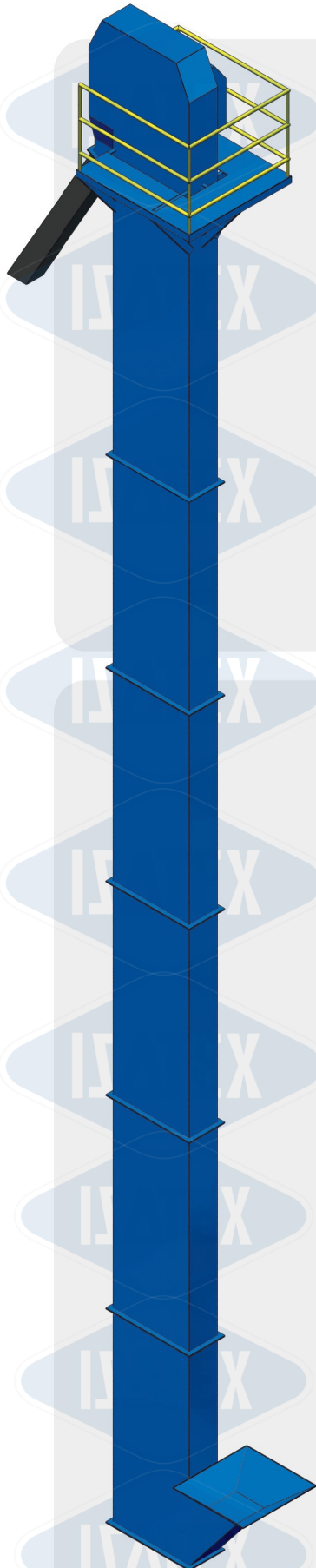






## Boiler Auxiliary







### Fuel Bucket elevator system

IsotexFuel BucketElevators are engineeredto ensuresmooth, continuous, and reliable vertical conveying of biomass and solid fuels for boiler and thermal energy systems. Designed with a focus on performance, durability, and low operating cost, our elevators support uninterrupted boiler operation even under demanding industrial conditions.

#### Key Features:

-  **High-efficiency discharge**  
Smooth, continuous fuel lifting with optimized discharge performance.
-  **Fully enclosed housing**  
Prevents dust leak, fuel spill, & contamination for safe, clean operation.
-  **Wide fuel density range**  
Handles biomass fuels from ~150 to ~785 kg/m<sup>3</sup> depending on fuel type.
-  **Precision Bucket Alignment**  
Ensures smooth material flow with minimal spillage and wear.

#### Benefits:

-  **High-Capacity Lifting**  
Reliable vertical fuel handling for continuous operation.
-  **Clean Conveying**  
Dust-free transport ensuring safe installations.
-  **Fuel Flexibility**  
Handles biomass and fossil fuels efficiently.
-  **Heavy-Duty Build**  
Rugged construction for long-term reliability.




### Fuel crushing system

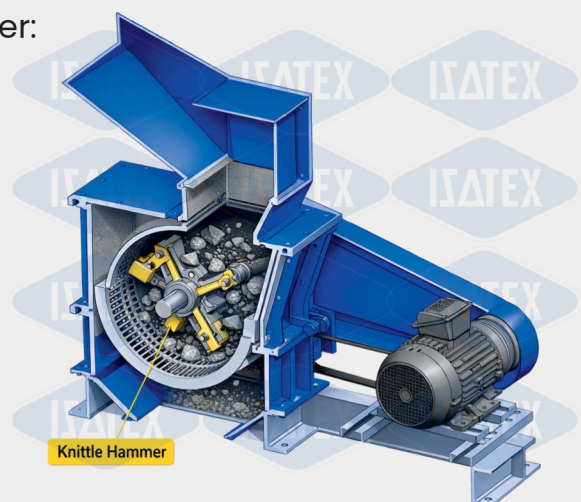
Isotex Fuel Crushing Systems are engineered for controlled size reduction of biomass and solid fuels, ensuring uniform combustion and consistent boiler performance in continuous industrial operations. Designed for high-throughput operation with stable output quality, the system ensures smooth material flow, reduced vibration, reliable performance under varying fuel characteristics & load conditions.

#### Key Features:

-  **High-Impact Crushing**  
Efficient size reduction for uniform fuel preparation.
-  **Balanced Hammer Assembly**  
Smooth operation with reduced vibration.
-  **Uniform Particle Output**  
Ensures stable combustion and improved boiler efficiency.
-  **Low Wear Operation**  
Minimizes stress on components and extends service life.

#### Benefits of Hard-Faced Hammer:

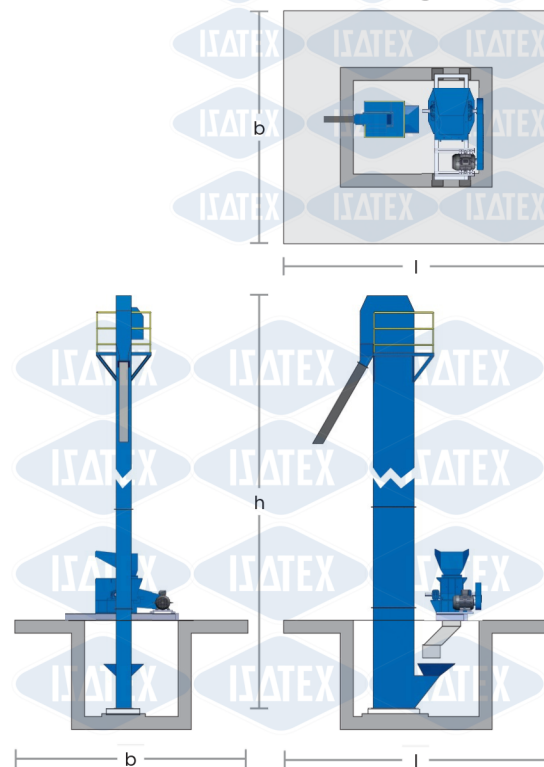
-  **Extended Service Life**  
2-3× longer life with hard-faced hammer construction.
-  **High Abrasion Resistance**  
Withstands impact and aggressive fuel characteristics.
-  **Profile Retention**  
Maintains crushing efficiency over extended operation.
-  **Reduced Downtime**  
Lower maintenance frequency and operational interruptions.



## Fuel Handling & Crushing System Value to Customer

- Compact layout that ensures continuous and reliable fuel movement
- Cleaner, safer operating environment with improved plant hygiene
- High adaptability for multiple fuel types with minimal changes required
- Extended component life delivering lower downtime and maintenance
- Optimised fuel preparation for stable combustion and better boiler output
- Smooth, low-noise operation enhancing overall plant reliability
- Mesh-based crushing configurations available for diverse fuel requirements

### General Arrangement:



## Technical Specifications

Descrip on	Units	ISOBKE-2	ISOBKE-3	ISOBKE-5
Capacity	tph	2	3	5
Bucket elevator specifica ons				
Type		Totally enclosed Vertical Mounted (Centrifugal Discharge)		
Material of construc on				
Body		IS 2062		
Descrip on	Units	ISOCSR-2	ISOCSR-3	ISOCSR-5
Capacity	tph	2	3	5
Crusher specifica ons				
Type		Single Rotor, Swing Knife (Triangular Hammer)		
Design		Stephens Adamson design for sizing combustion fuel		
Mode of Drive		Electric motor Set of "V" Groove Pulley with belt and rotor.		
Material of construc on				
Body		IS 2062		
Knife Hammer		Hard faced with Ni-Crom facing electrodes		
Bearing		Self aligning double row spherical roller bearing		
Dimensions				
Length	mm	4110		
Breadth	mm	4680		
Height	mm	11500 / 14300	14300 / 16000	14300 / 16000

\* Please refer offer document for more details.

\*\* Refer respective GA Drawing for overall dimensions.



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