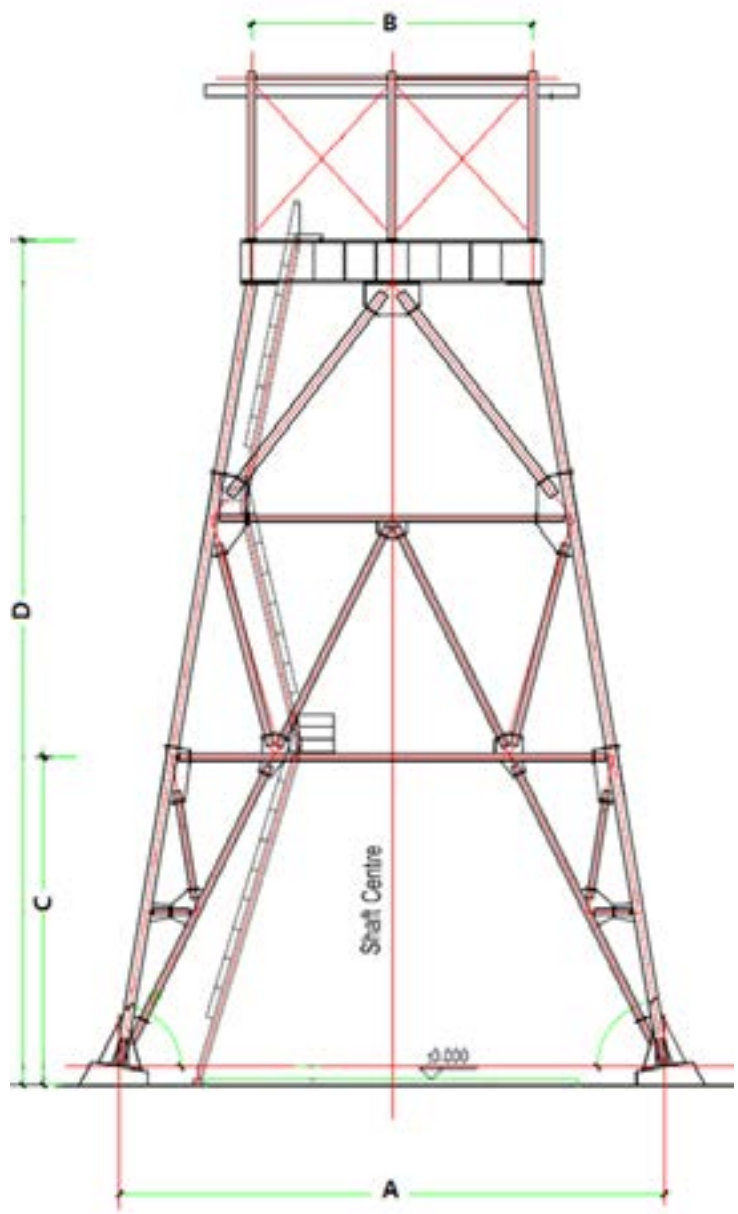
Shaft Sinking Structures & Equipment

Equipment for Mining, Tunneling and Civil Construction

The MZJ shaft sinking headframes are standardized in design. Thousands have been made over the decades. It is easy to be dissembled, transported, and re-assembled at site and used for multiple times. Five models available in MZJ series for shaft sinking frames.

MZJ Shaft Sinking Frame Series				
Model	Suitable Shaft Diameter (m)	Suitable Shaft Depth (m)	Total vertical load designed upon (MT)	Suitable Shaft Sinking Method
I	3.5 - 5.0	200	68	Handheld drilling, mine cart muck trans-portation
II	4.5 - 6.0	400	115	
III	5.5 - 6.5	600	161	Shaft jumbo drilling, mine cart or truck muck transportation
IV	6.0 - 8.0	800	294	
V	6.5 - 8.0	1000	360	

Shaft Headframe Dimensions and Weight					
Frame Model	Sheave Deck Dimensions B (m)	Frame Foot-ing Span A (m)	Height from Floor to Sheave Deck D (m)	Height from Floor to Dumping Deck Center C (m)	Frame Weight (t)
I	5.5 x 5.5	10 x 10	16.242	5	25.094
II	6.0 x 6.0	12 x 12	17.250	5.8	30.623
III	6.5 x 6.5	12 x 12	17.346	5.9	33.067
IV	7.0 x 7.0	14 x 14	21.970	6.6	49.386
V	7.5 x 7.5	16 x 16	26.364	10	71.097



Standard and Quality Control

- Structures meet GBJ213-79, GB1800~1804-79, GB4457~4460—84 and AS/NZS standards.
- Headframes, kibbles and sheaves all use standardized and serialized designs. Other parts of a structure can be customized.
- All structures are strictly customized according to customers' technical specifications and engineering drawings. Every structure goes through final quality check prior to shipping.

High Manufacturing Precision

- The main truss 4-angle diagonal length deviation < 6mm.
- The main corner posts length deviation < 0.001 L (L is the design length, absolute length deviation <10mm).
- Total corner posts (from bottom to top of headframe) deflection < 10 mm.
- Sheave deck section height deviation +- 3mm.
- Drilled hole ovalness: for 16 – 20mm hole, <0.5mm; for 24mm and larger holes, <1mm.
- Hole centre location deviation vs hole distance: +-1/1000 to +- 1.4/1000. (for example, if the designed distance between two holes is 3000, its deviation should be + - 2.0mm)

For equipment consultations or sales inquiry, please contact us at sales@leedem.com

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Supply Entire Shaft Sinking Structure

- Shaft Headframe
- Sheave Deck & Sheaves
- Dumping Deck & Chute
- Shaft Collar Structure
- Galloway Working Decks
- Concrete Forms
- Crosshead
- Kibbles (Buckets)

Kibble Quality Specifications

- Standard kibbles and bottom-unload kibbles for pouring concrete.
- All kibbles (buckets) are made by licensed manufacturer.
- Hosting bar, hoisting ears and pins: safety factor > 8. Material: ASTM A29 #1045; all heat-treated and pass NDT tests.
- All materials will go thru physical and chemical tests.
- Bucket design and its welding quality meet Q/ZB74-73 standards.
- Riveting quality meets GBJ205-83.
- Kibbles must go thru 2 times maximum load test; and be checked by micrometer, no permanent deformation should be found.
- Verticalness of a hanging empty kibble should be less than 10mm.

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