Bell® HYDROMATICS


# Bell Fluidtechnics Pvt. Ltd.

www.tankjackingequipments.com

Bell® HYDROMATICS

The company was established in 1992 under the former name BELL HYDROMATICS. Headquarters are located in Mumbai-India. we are a World wide leaders in the manufacture and supply of - :HYDRAULIC TANK JACKING EQUIPMENTS,HYDRAULIC SYSTEMS,LAUNCH AND RECOVERY SYSTEM FOR OFFSHORE DIVING. Our products have been used in many industries, among them: oil & gas, power generator, nuclear, Railways,Marine,Construction equipments,Aviation and the food industry.

Our Manufacturing Factories are proudly INDIAN and located in Mumbai-India ,financial and Industrial capital of India and 40 Km away from International Airport.t. The facility has recently been expanded and upgraded by over 26,000 SQ.FT.

Since 1992 our CEO and founder has designed,manufactured and supplied many Jacking systems,Hydraulics,Test Rigs,SPM's,LARS-for offshore diving all over the World including Middle East, Canada,Africa and Asia.

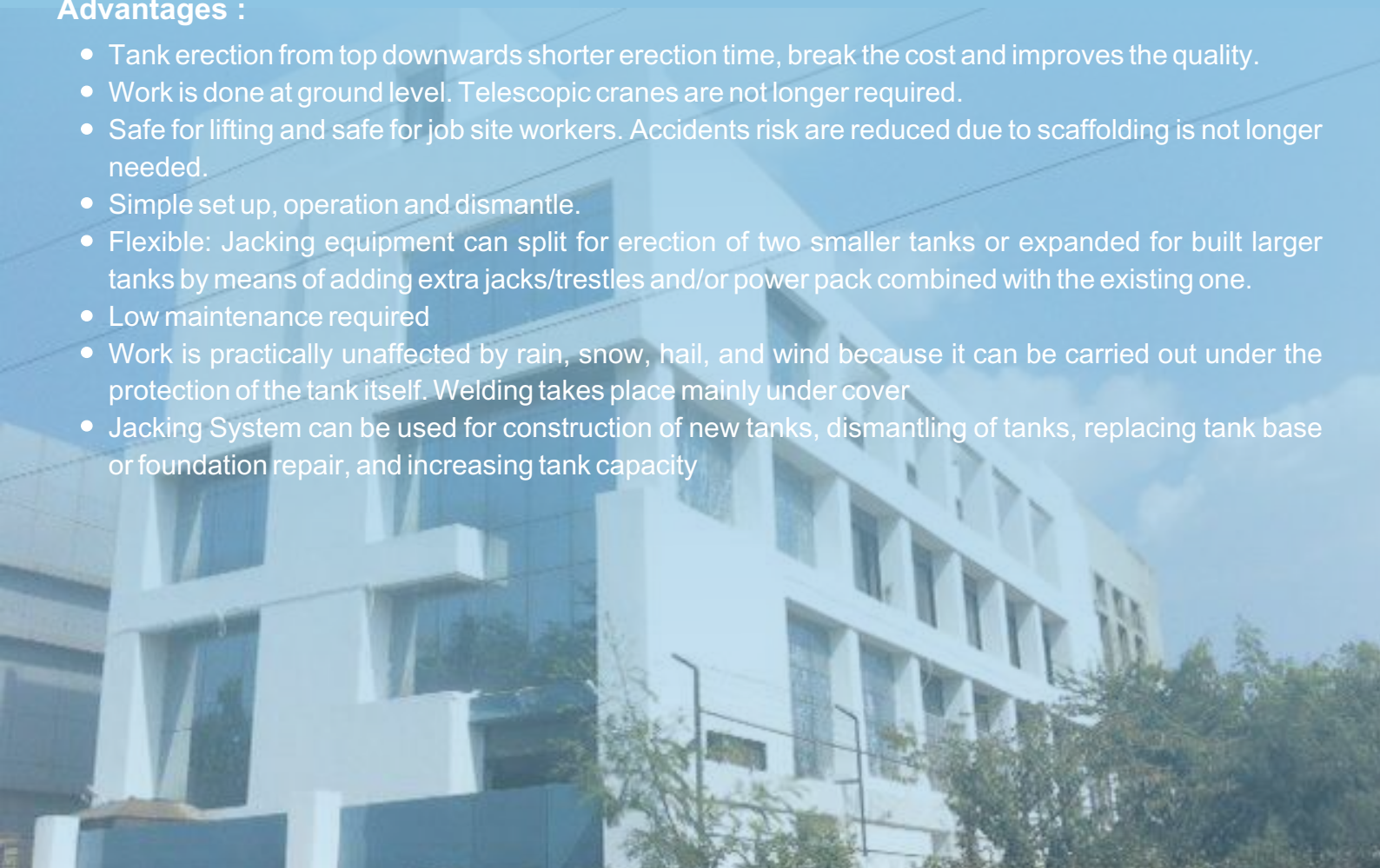
Our Goals: a) Build state of art High-Tech Products, b) Exceed International-Standards, c) Provide Top-Quality Products, d) Provide First-Class Service, e) Offer the most Competitive-Price, f) Deliver within the Shortest-Time, g) Build a Long-Term business relationship with our customers.

**Experience :**

Our Jacking System has been used for the erection of more than 1,000 tanks, up to 80 m in diameter and 1800 tons of lifting weight, on oil refineries, petrochemical plants, fertiliser plants, power generating stations, petroleum product installations & depots, and at liquid storage terminals at ports.

**Advantages :**

- Tank erection from top downwards shorter erection time, break the cost and improves the quality.
- Work is done at ground level. Telescopic cranes are not longer required.
- Safe for lifting and safe for job site workers. Accidents risk are reduced due to scaffolding is not longer needed.
- Simple set up, operation and dismantle.
- Flexible: Jacking equipment can split for erection of two smaller tanks or expanded for built larger tanks by means of adding extra jacks/trestles and/or power pack combined with the existing one.
- Low maintenance required
- Work is practically unaffected by rain, snow, hail, and wind because it can be carried out under the protection of the tank itself. Welding takes place mainly under cover
- Jacking System can be used for construction of new tanks, dismantling of tanks, replacing tank base or foundation repair, and increasing tank capacity



## Bell Hydromatics Tank Jacking Equipments Are Used For

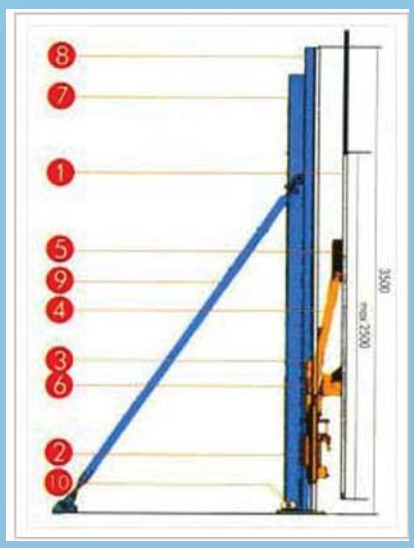
**Construction, Dismantling, Repairs, Replacement, Maintenance of Tanks, Changing of Tank foundations, Tank base plates**

- 12 MT, 18 MT, 25 MT Capacity
- Standard models are suitable for 2500 mm shell width plates.
- Special models are available or higher shell width plate upto 3000 mm.
- Tested at 1.5 times rated capacity
- Manufactured under strict strict quality control norms
- Trained Jack operators/Technicians are deputed for operation.

## Description

**Hydraulic JacksA tank jacking unit illustrated in the adjacent figure, consist of:**

- SHELL PLATE
- HYDRAULIC JACK
- SLIDING CHAIR
- LIFTING ARM
- LIFTING LUG
- GUIDE LUG
- VERTICAL TRESTLE
- JACK ROD
- ADJUSTABLE STAYS
- BASEPLATE




## Salient Feature

**Hydraulic JacksBell Hydromatics Tank Jacking equipment are:**

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- Standard models suitable for 2500 mm shell width
- Special models available for higher shell width upto 3000mm
- Manufactured under strict quality control norms
- Tested at 1.5 times rated capacity
- Trained operators are deputed for operation

## Tank Construction Methodology:

- First foundation is completed, base/bottom plates and top most shell plates are erected and welded. Roof structural, roof plates & top angle ring welded for truss supported roof tanks.
- Tank jacking equipment erection is complete and hydraulic connections are complete with the power pack
- On energizing the power pack the shell plates along with roof is lifted by the hydraulic Jacks to the required height
- Next shall course plates are erected and welded
- Jacking units are lowered and connected to the new shell plates and operation is repeated for balance shell course
- After the last shell course plates are welded in position, the jacking units are dismantled. Shell to bottom plates welding is completed

## Advantages

- Welding done at ground level
- Easy access for inspecting quality of welding at each stage
- Roof is fixed to the top shell plate from the commencement, rendering it stable against WIND-LOAD throughout the erection work
- Guide trestles stabilize the tank at the bottom maintaining its circularity and accuracy
- Need of scaffolding is eliminated
- HIGHEST SAFETY achieved as working is carried out at ground level
- ECONOMY – cost effectiveness achieved as labour & time required is minimized

## Technical Data

Kindly furnish following details to decide number of jacking sets and capacity of the Powerpack required.

- Tank dia and Height
- Tank weight (w/o bottom)
- Shell width
- Max wind velocity



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