

Summary

Project Name: Telescopic Aerial devices Benchmarking for Watertown

Scope: Benchmark Terex Telescopic Aerial devices TL60 and above with competitors for specifications, reach, mechanism, etc.

Software: Excel

The project involved bench marking of Terex TL60 and above 60' machines with following competitors

- Versalift
- Altec

Key Parameters for Benchmarking :

- Basket Capacity
- Platform height
- Dielectric Category
- Rated line voltage
- Travel height
- Cycle time
- Jib capacity
- Wear Pads mounting arrangement
- Operated the competitor's machine, captured the critical information and best features
- Shared observations and methodology to be followed for family of TL series machine

Terex TL60



Competitor



Boom sliding arrangement



Knuckle Weldment

Summary

Project Name: Truck mounted Ariel Work Platform

Scope: Benchmarking of Truck Mounted Ariel Work Platform with Competitors for structures , hydraulics , electrical and productivity parameters in the Indian Market

Software: Excel

Details:

- The project involved bench marking of Truck Mounted AWP , for new product to be developed by Terex for Indian market , the following competitors were bench marked
 - Vanjax
 - Manair
 - Swastikcorp
- Key Parameters for Benchmarking :
 - Structural details
 - Kinematic parameters like extend length , retraction length , stowed height , lift capacity
 - Cylinder and linkage arrangement
 - Slewing arrangement
 - Hydraulics and electrical arrangement



Vanjax



Manair



Manitex TC450

Summary

Project Name: Auger drill Benchmarking

Scope: Benchmark Terex Auger drill products with competitors for drive mechanism & arrangement, Kelly bar arrangement, winch arrangement etc.

Software: Excel

The project involved bench marking of Terex A650, Terex A800 Auger machines with following competitors

- Bauer BG11H
- Bay-shore TR70 , TR80 & TR100
- Watson 2500TM

Key Parameters for Benchmarking :

- Final drive arrangement
- Auger head arrangement
- Rotary head arrangement
- Kelly bar arrangement
- Guiding of Kelly bar mechanism
- Productivity trials were also done at different work locations and service locations in US .
- Proposed parameters for Terex being worked out for the next generation machines and also concepts to realize the proposed parameters.



Terex A650



Bauer BG11H































































Bayshore TR70



Watson 2500TM

AUGUR DRILL BENCH MARKING

This covers Versions like excavator mount , Truck mount & Truck mount , The sizes are also Different.The main intent is to capture the concept behind the machines

	Final Drive	Head Arrangement	Rotary Head Assembly	Kelly Bar Arrangement on Rotary Head	Guiding Of Kelly On Rostry head	Kelly Bar & Arrangement	Kelly Holder Assembly	Pulley Arrangement For Kelly outer bar/ Service winch	Crowd Force Arrangement	Main Winch/Kelly Winch	Auxiliary Winch	Mast
Bauer BG 11H-CAT Excavator Mounted Version												
Bay Shore-TR100 Excavator mouter Version												
Bay Shore-TR70 Truck Mounted												
Terex A650												
Terex A800												

A- Hydro static system with slew gear with 1 or 2 motors is selected . It is versatile and avoids several complications in the system.

Most competitors use it

B- Bay shore arrangement is selected , the Head is Separate weldment , it's a 2 motor driven , slew gear system.

C-The head Is bolted below the Mast. It will aid in better serviceability.

D/F-The Head has the adaptation system for round or square Kelly bars

E-The in built guiding arrangement , in bay shore looks to be better. All competitors have this arrangement as compared to quill with rollers.

G- The upper Kelly holder system is simple in Terex 800

H- Pulley arrangement is simple in Terex compared to others

I- Crowd system , is neatly arranged , more accessible for service like in Terex 800

J/K- Auxiliary and Service winch are mounted on the mast , it will help to avoid the rope being in inclined angle. Also while operating the mast the winch need

not be manipulated

L-The mast is welded structure like Terex 800 – a neat arrangement.