



**PT TRBERHAD**



# **LARGE ASPHALT TANDEM ROLLERS**





**TRBERHAD**



# **VIBRATORY AND OSCILLATION ROLLERS**

**DOUBLE DRUM**

**2**



# TRBERHAD



*Fast, effective compaction*

*Optimised driving position,  
excellent visibility*

*Simpler controls, more  
intelligent machine*

trberhad's double drum asphalt roller range features everything from the most compact equipment for repair jobs to large machines for the biggest sites with selectable alternatives like high frequency vibration and oscillation.

Vibration dampened platforms, swivel seats plus optional full seat rotation for better visibility, logically sorted controls, and Roll Overprotective Structures (ROPS) all contribute to the manoeuvrability, operator's ergonomics and safety.

# A NEW PERSPECTIVE ON COMPACTION



## BRINGS COMPACTION QUALITY TO A NEW LEVEL

### SEVERAL COMPACTION ALTERNATIVES

#### Standard Vibration

The standard drums have the capability to alternate between high amplitude with low vibration frequency AND low amplitude with high frequency depending on project requirements.

#### Oscillation

Oscillation works well for compaction on thin asphalt layers and joints as well as being the recommended solution for compaction on bridges, joins and near to buildings.

#### Combi version

Rubber tyred wheels replace the rear drum to achieve a more sealed surface with a different texture to the material.

### SAVE FUEL WITH ECO MODE

With ECO Mode enabled, the engine rpm is adjusted to be as low as possible while still maintaining the necessary power required for the given compaction parameters, in order to sustain compaction efficiency. ECO-Mode will lower fuel consumption by up to 15% when fully utilized during operation. This fuel savings can be further amplified with the Automatic Idling feature which will cause the machine to go into idle after 10 seconds of standstill in either High or Mid / ECO rpm.

### ELIMINATE BOWS AND CRACKS IN THE ASPHALT

trberhad's Electric Drive Control system assists for smooth starting and stopping in order to prevent bowing and cracking in the asphalt layers. It allows for the max speed to be set from the start to prevent over-speeding and reduce the risk of rippling while also avoiding losing efficiency due to under-speeding.

### CONTINUOUS JOBSITE MANAGEMENT

tr@lyzer continuously measures the stiffness of the compacted area and records the number of passes. This data is constantly visible for the operator on the machine and can also be monitored from the office.

### MANAGE YOUR FLEET WITH TR@LINK

Increase the profitability of your business by using tr@link. Quickly identify underperforming equipment, maximize uptime with perfectly scheduled maintenance and in case of a breakdown get machines operating again as quickly as possible.





# TRBERHAD



## WANT TO FIND OUT MORE?

Scan the QR code and experience the trberhad Double Drum Vibratory and Oscillation Tandem Roller even further!



### ALL-AROUND VISIBLY

trberhad provides excellent visibility to the operator with seat that rotates 180° and slides across the full width of the cabin, while the operator stays in control of all functions as the full operation module moves along with the seat. Visibility can be further enhanced with optional rear-view mirrors mounted either side of the front drum as well as a 255° full rotation seat.

### MAINTAIN COMFORT WHILE IN OPERATION

The operator will be in a good climate with our Comfort Cab, which has automatic climate control and floor heating to combat any outside conditions. The operator's surroundings in our Comfort Cab are further complemented by a luxury seat, a blue-tooth radio, and two charger sockets, one 24 V and one 12 V.

### INCREASE DRUM VISIBILITY

The asymmetric cabin allows for the operator to slide to the right beyond width of the drum.

### CONFIGURE YOUR DRUM TO YOUR NEEDS

To improve the stability of the outer edge of the asphalt mat and prevent water from penetrating into the mat, an edge presser can be added to edge of the drum. Additionally, edge pressers can be utilized to improve the joint between two layers by compacting before jointing. Additionally, a joint cutter can be mounted on the edge of the drum to improve the edge because often the furthest edges are poor quality due to segregation.

### INCREASE FRICTION FROM THE START

To increase the surface friction on freshly laid asphalt, a chip spreader can be used in tandem with the roller during the compaction process.

### MINIMIZE STOPS WITH EFFICIENT SPRINKLER SYSTEM

trberhad's VI Generation Roller are equipped with a large water tanks and a complete back-up of the sprinkler system to limit the amount of stops for refilling.



# HIGH PRODUCTIVITY

Increase the productivity of your job sites through efficient paving and compaction operation. Reduce non-productive times on the job site.

## HIGH VIBRATION FREQUENCY AND OSCILLATION

### HIGH FREQUENCY COMPACTION

In order to achieve compaction, the roller will operate with lower amplitude and a high vibration frequency. The rollers can also obtain a high level of compaction for thick layers with the high amplitude and "normal" frequency.

### OSCILLATION

Oscillation is for thin asphalt layer compaction, compaction on bridges and for joint compaction. It gives less transversal ground vibration, and a lower noise level than normal vibrations. Oscillation also limits the risk of damaging the mat with less qualitative aggregates.

### SIMPLICITY IN AMPLITUDE AND FREQUENCY SELECTION

The vibration system automatically sets the correct frequency once the operator selects which amplitude is required, with high or low for thick and thin layers.

## PAVILYZ

### WHICH MACHINE SIZE IS SUITABLE?

Pavilyz will help you to select the optimal asphalt roller with regards to weight and drum width.

### HOW MANY MACHINES ARE NEEDED?

Pavilyz will suggest how many rollers that are needed for your job. This suggestion can then also be compared with the fleet you have available.

### HOW MANY PASSES SHOULD I DO?

Pavilyz gives best utilization of the machine and compaction capacity making it possible to plan how many passes needed on a certain asphalt mix and thereby the capacity.

## TR@LYZER

### HOW MANY PASSES HAVE I DONE?

tr@Lyzer keeps track of how many passes done and where throughout the jobsite.

### WHAT WAS THE TEMPERATURE ON THE ASPHALT MAT?

Too cold asphalt could make it difficult to reach proper compaction with the possibility of crushing the aggregate, while too warm asphalt could result in cracks. The asphalt temperature meter will warn the operator when out of the temperature range and the tr@Lyzer will record the temperatures through the worksite.

### WHICH LEVEL OF COMPACTION DID I REACH?

tr@lyzer records and maps stiffness and stiffness progress. It takes the readings from the Evib compaction meter. It is important to relate to the asphalt temperature as stiffness and Evib values will increase when the asphalt cools.



# COST CONTROL THAT SAVES BIG

Being active in the Road Construction business requires considerable investment. Every square meter involves an operational cost composed of fixed costs such as interest on equipment acquired, labor costs, insurance and equipment depreciation, but also variable costs such as expenses for fuel, wear and maintenance.

## SERVICE COMMITTED TO YOUR FUTURE

### GENUINE PARTS AND KITS

- Preventive maintenance kits
- Genuine Filters
- Fluids and lubricants
- Wear and repair kits
- Upgrade Kits

### SERVICE

- Right competence
- Training program
- Inspection & service program
- Extended Warranty & Service Agreement

### CONSUMABLES

- Road Milling Tools (bits)

## PREVENT THE COST OF A BREAKDOWN

### REGULAR MAINTENANCE PREVENTS COSTLY STANDSTILLS.

Equipment breakdowns have a direct impact on your productivity. No production means no revenue, but the fixed costs stay the same, resulting in lower profitability. By avoiding breakdowns and increasing the reliability of your machine, you will be able to produce more per year, which will immediately improve your profitability.

## PREVENTIVE MAINTENANCE KITS

### REGULAR MAINTENANCE PREVENTS COSTLY STANDSTILLS.

Equipment breakdowns have a direct impact on your productivity. Preventative maintenance is the only way to ensure that your machine sustains its productivity throughout the working season. To optimize this productivity, your preventative maintenance needs to be planned either ahead of the working season or as your machine approaches specific intervals for servicing. To assist with maintaining your machines, trberhad offers preventative maintenance kits so that you can have all that is need for each service interval in one place.



# TECHNICAL DATA

## LARGE ASPHALT TANDEM ROLLERS

TECHNICAL DATA	TR-TVR9.2	TR-TVR9.4	TR-TVR9.7	TR-TVR10	TR-TVR10.5	TR-TVR11	TR-TVR12.4
Drum width, mm	1680	1680	1680	1680	1710	1710	2130
<b>MASSES</b>							
Operating mass, kg (incl. ROPS)	9200	9400	9700	10000	10500	11000	12400
<b>TRACTION</b>							
Speed range, km/h	0-15	0-15	0-15	0-15	0-15	0-15	0-15
Vertical oscillation	± 7°	± 7°	± 7°	± 7°	± 7°	± 7°	± 7°
Theor. gradeability	45%	46%	40%	41%	34%	35%	32%
<b>COMPACTION</b>							
Centrifugal force , kN high/low amplitude	113/74 (122)	113/74	128/84 (122)	128/84	144/93 (122)	144/93	157/103 (153)
Nominal amplitude, mm, high/low	0.8/0.3 (1.45)	0.8/0.3	0.8/0.3 (1.40)	0.8/0.3	0.8/0.3 (1.30)	0.8/0.3	0.8/0.3 (1.40)
Static linear load kg/cm (front/rear)	28.9/28.9 (28.9/29.5)	28.9	29.8/29.8 (29.8/29.2)	29.8	30.3/30.3 (30.3/29.7)	30.3	29.1/29.1 (40)
Vibration frequency, Hz high/low amplitude	51/67 (40)	51/67	51/67 (40)	51/67	51/67 (40)	51/67	51/67 (40)
Water tank, l	600/880	600+200	600/880	600+200	600/1050	600+200	600/1050
<b>ENGINE</b>							
Engine manufacturer & types	Cummins/USA 4BTA3.9-C110	Cummins/USA 4BTA3.9-C110	Cummins/USA 4BTA3.9-C110	Cummins/USA 4BTA3.9-C110	Cummins/USA 4BTA3.9-C110	Cummins/USA 4BTA3.9-C110	Cummins/USA 4BTA3.9-C110
Power: 82kW (110HP) @2200rpm, Type: engine In-line, 4 stoke cycle, Cooling Type: Water cooled, Intake System: Turbocharged, Number of Cylinder: 4 Bore X Stroke: 102X120mm, Displacement: 3.9L, Max. Torque: 160Nm@1400rpm							
Dimension: Overall Length: 4,580mm, Overall width: 1,750-2,150mm, Overall Height: 3,100, Turning radius, inside: 4,950mm,Turning radius, outside: 6,690mm Wheelbase : 3,300mm, Ground Clearance: 345mm, Drum Diameter : 1,150 mm, Drum shell thickness: 20mm							