

Product Presentation



Applicant Name: Chi Shing Equipment Trading Company Limited

Product Name: BOMAG Asphalt Rollers

Specification:

- BW 120AD-5
- BW 135AD-5

- **Core Function:**
Compaction of asphalt layers
- **Technology Used:**
- TELEMATIC, ECONOMIZER, ECOSTOP
- **Construction Process Involved:**
- Asphalt compaction
- **Key Improvement in Construction Process:**
 - Productivity
 - Quality
 - Environmental



S/N	Project Name	Type of Project	Year	Trial or adoption phase
1	Australia	Road construction and Maintenance	Ongoing	Adoption
2	Sri Lanka	Road construction and maintenance	Ongoing	Adoption
3	Japan	Road construction and maintenance	Ongoing	Adoption
4	South Korea	Road construction and maintenance	Ongoing	Adoption

Innovative Features



- **Core Technology**
 - ECONOMIZER
- **Patent (if applicable)**
 - NA
- **Comparison with current practise and popular models**

ECONOMIZER	Current Practice
Compaction indication system based on indication lights	No measurement available
Operator can see compaction progress	Based on operator experience and QC test
Immediate site evaluation based on light signals	No evaluation available
Compaction completion signal for the operator	Based on specified passes
Over-compaction warning signal for the operator	Based on operator experience
Reduction of passes	Based on specified passes

- **Comparison with similar Pre-approved list products and competitors**
 - NA

Adoption Example



- Wide range of applications:



Landscaping and turf construction



New road construction and repair



Carpark & industrial yard construction



Walkways and paths

- Improve productivity by:
 - Reduction of passes up to 25%, therefore improving overall efficiency
 - Weak spots are immediately identified and targeted rework is being carried out rather than the whole lot.
 - Easy to use, no calibration or setting required
- Traditional Output:
 - 8 passes (as dictated by specifications)
- Output by TERRAMETER
 - 5 passes (based on system or calibrated target result)
- Total savings
 - ~ 37.5% less passes
 - Reduction in operating costs
 - Less working hours on machine, less down time

Benefits - Quality



- Improve quality by:
 - No over-compaction.
 - Uniform compaction throughout the whole jobsite
 - 100% coverage of the whole jobsite
 - Reports can be generated for as-built submission with BOMAP



100% coverage for individual lane for TERAMETER



Upgradable to BOMAP, BOMAP Connect

Benefits - Environmental



- Improve Environmental performance by:

ECONOMIZER	ECOSTOP	TELEMATIC
Reduction of passes	Reduce idling time by shutting down engine after defined period of time	Predictive maintenance Maintenance is always planned ahead and on time
Indication of compaction progress	Complements with ECOMODE (load dependent engine speed control)	Fleet management analysis to analyse performance and cost drivers
Which contributes to the:		
Reduction of fuel consumption		
Reduction of carbon emissions		