CHALLENGER MT4 STREET SWEEPER





DIRT, DUST & DEBRIS ON ROADS ARE UNAVOIDABLE



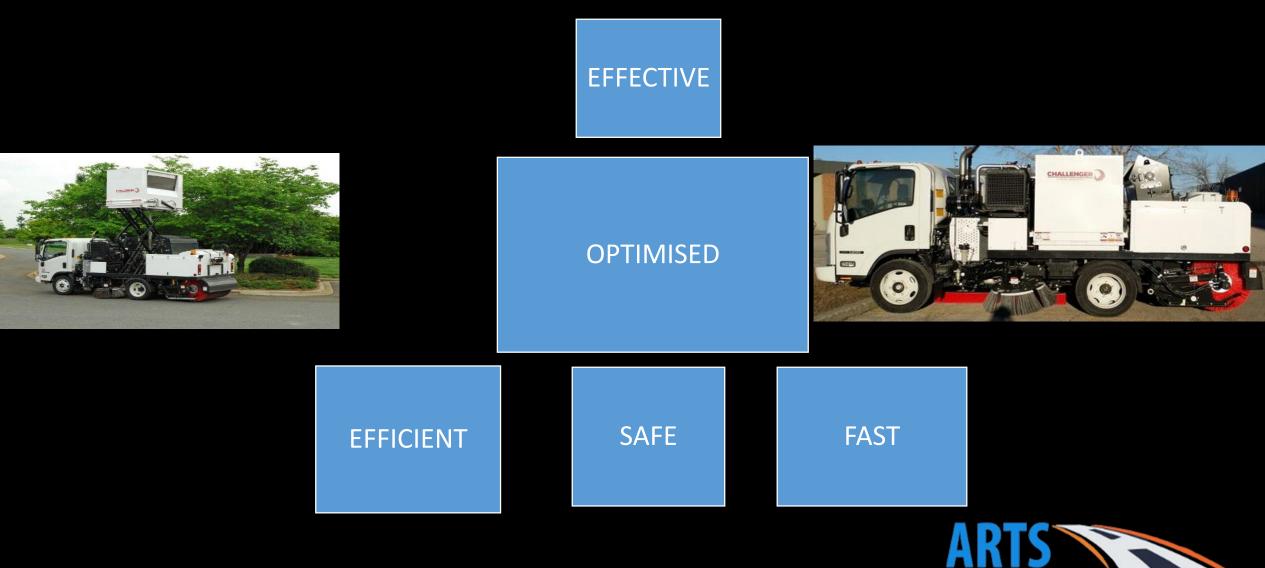


CURRENT METHOD OF CLEANING ROADS





CHALLENGER MT4 STREET SWEEPER



CHALLENGER HISTORY

- Established in Alberta, Canada, a region with extremely heavy 'spring cleanup' conditions, ideal for mechanical sweeping
- Challenger has world class manufacturing facilities set up in both the USA and Canada. It monitors it's entire product-cycle







MECHANICAL SWEEPING VS AIR SWEEPING

- Challenger has mechanical sweeping providing excellent productivity to sweep rough surfaces such as old and excessive worn out roads as opposed to air sweeping
- Picks up heavy debris without any technical malfunctions compared to air sweeping
- Increased productivity due to high dump capability as opposed to air sweeping
- Challenger mechanical sweeping doesn't create dust and noise unlike air sweepers.
 Hence, there are less maintenance and technical issues.
- Challenger mechanical sweeping has smooth, comfortable, advanced and quiet operations overall compared to air sweepers



CHALLENGER SWEEPER APPLICATIONS

- Heavy sweeping: Road Resurfacing, Mining, Construction Sites
- Regular/Daily sweeping: Municipalities, Airports
- Light/Specialized sweeping: Schools/Universities, Park and greenways





INDIA AND MIDDLE EAST MARKETS

- Challenger is export-ready design for global expansion
- Challenger's unique design allows the sweeping module be exported to any country around the world and to be easily installed on an approved local chassis
- For the Indian market, TATA 912 Ultra chassis are successful
- The sweeper is fully skid-mounted and ready for export in a standard shipping container





CHALLENGER SWEEPER TATA 912 ULTRA DESIGN FEATURES

- 8,500 tonnes GVWR
- 4-cubic yard hopper
- 10 tonnes suspension rating
- Hydraulic brakes
- Single steering wheel
- Rear suspension option available.
- Good curb-side broom visibility





KUBOTA AUXILIARY ENGINE

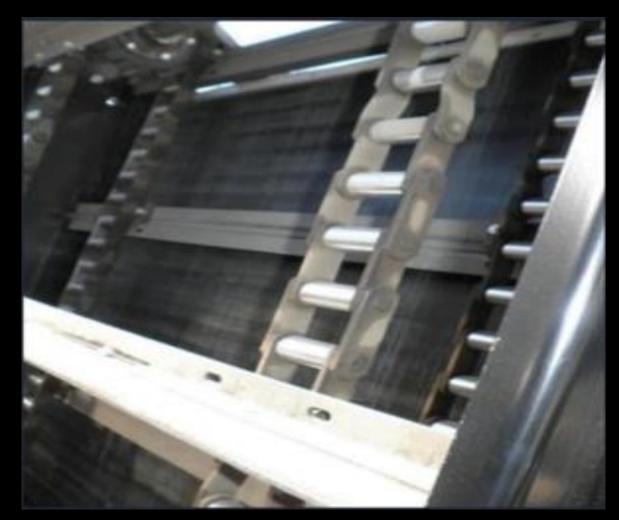
- Kubota V2403 Turbo diesel engine
- Common engine that is fuel efficient
- Tier 4-interim (T4i) model meets the emission standards
- Permits to use high-content sulfur diesel fuel
- World-wide product support
- Turbo charge supplies enough power at any altitude





MECHANICAL BROOM SWEEPING SYSTEM

- Mechanical process of lifting/conveying material from ground-level into the hopper
- Air sweepers use 120HP auxiliary engine but, challenger mechanical sweeper uses 59HP
- Heavy duty sweeping
- Adapts to all road conditions
- Less operator training
- Less reliance on water





DEBRIS CONTAINER

• 3.2 cubic meter (4-cubic yard) debris

capacity

- 3 meter hopper discharge height
- 4 tonnes lift capacity
- 90 second cycle time





WATER SYSTEM

- 220 gallons (833 liter) capacity
- Polyethylene tank to eliminate corrosion
- Non ferrous components throughout system
- PM10 certified dust control system (based on North American Standard)
- Large-sized tank cover for easy cleaning





HYDRAULIC SYSTEM FOR HEAVY-DUTY CLEANING

- Sauer Danfoss, piston, load sensing hydraulic pump
- 121 liter/minute capacity
- Sauer Danfoss PVG 32 and the other hydraulic valves located in accessible area for easy troubleshooting/repair
- Superior quality and rated components to perform in the most severe sweeping conditions
- Hydraulic System





HYDRAULIC COOLING

- Hydraulic cooler independently mounted
- Excellent airflow with no restriction
- Thermostatically controlled electric cooling fan
- Fuel-efficient load sense pump creates less heat than gear-type pump
- Suitable for any climate and elevation
- Control box





OPERATOR CONTROLS

- Simplified design for easier operator training
- International symbols for all switches
- No computerization eliminates proprietary parts
- 18 amps rated, everlasting electrical switches





CAMERA SYSTEM

- Challenger sweeper camera system gives increased visibility, safety and control with the side broom positioning
- 2 infrared cameras ease night sweeping
- One curbside broom camera and rearview camera with 7-inch colour monitor system
- Auto reverse rear-camera override





STANDARD EQUIPMENT

- Inside truck cab side broom down pressure and tilt control
- Side and rear LED work lights
- Camera system
- Engine oil temperature and hydraulic oil temperature/level shutdown
- PM10 Certification (based on North American standards) for dust control





OPTIONAL EQUIPMENT

- Air bag rear suspension system in lieu of leaf-spring suspension
- Superior ride comfort and less equipment fatigue
- Automatically inflates/deflates during hopper raise/lower activation
- Challenger, is flexible to discuss any possible optional addition of equipment's with its Indian partners.





Contact Information



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ARTS American Road Technology & Solutions



Thank You