TRASH SCREENS

Mechanical Trash Screens remove bulk debris from waterways, often protecting downstream systems and minimising OH&S risks.

FEATURES
• Designed and customised to suit application size and shaped orifice.
• Captures floating and submerged debris within waterways.
• Reliable self-cleaning system.
• Customised bar spacing to suit debris loading.
• Reduces OH&S risks by eliminating manual cleaning.
• Requires minimal civil works to install.
• Protects downstream infrastructure such as pumps, valves and pipework.
• Designed to require minimal maintenance.
• Improved downstream water quality.
• Mechanical trash screens can be either AC or DC powered.
• Low noise level.
• Long life fully sealed polymer bearings.
• Optional spill trays.
• Designs meet safety regulations on pipes, syphons, pumps and culverts.
• Suitable for exclusion of fish, weed, rubbish, branches and animals.

APPLICATIONS
• Pipes
• Pump Intakes
• Syphons
• Stormwater Systems
• Floodways
• Channels
• Water Distribution Systems
• Wetlands
• Environmental protection
TRASH SCREENS

DESIGN

DESIGN SUPPORT
• AWMA’s design team will provide full support to ensure the most appropriate solution is developed and specified during the preliminary design.

SIZES
• All AWMA screens are custom sized to ensure they meet specific site and operational requirements.

MATERIALS
• AWMA’s mechanical Trash Screens are constructed from 304 stainless steel as standard.
• Screens can be fabricated from higher grade materials if required to suit aggressive environments or extended design life requirements.

MAINTENANCE
• Trash Screens are designed to achieve high duty cycles with minimal downtime.
• Mechanical screens can be easily accessed and cleaned out of the waterway, without the need to dewater or bypass the structure.
• Minimal maintenance is required offering low ‘whole of life costs’.

MANUFACTURE

QUALITY
• All procedures are in accordance with AWMA’s accredited ISO 9001 Quality Management System to ensure each screen is manufactured to a high standard, tested and ready for trouble free operation post approved installation.

OPTIONS
• Customised spill trays and hungry boards are available, subject to application.

INSTALLATION

MOUNTING OPTIONS
• Trash Screens are typically wall mounted.

OPERATION
• AWMA’s mechanical screens utilise cleaning rakes attached to a rotating chain system. This is driven by a motor and gearbox coupled to a drive shaft. The result is a reliable, autonomous, self-cleaning system. This process removes bulky objects from the front of the screen to avoid blockages. Debris is transported upwards, out of the waterway into removable disposal bins, conveying chutes or troughs. Automated cleaning of the screen eliminates risk to operators in performing manual raking processes. No additional consumables (such as brushes and service water) is required. 
• Trash screens can be operated via local, remote or automated control.

COMMISSIONING
• Trash Screens are pre-commissioned in the factory prior to dispatch.
• AWMA offer a full site commissioning service where required.

DOCUMENTATION AND TRAINING
• Detailed documentation on operation, testing procedures and maintenance is provided with all AWMA water control solutions.
• Comprehensive on and/or off site training available.