

Mono® NOV Provides The Solution For Equipment Protection

Following the successful trial of the TR Muncher®, a low speed, high torque sewage and sludge grinder from Mono® NOV, Yorkshire Water is planning to install a total of four units, to provide a cost effective solution for blockage free operation of submersible pumps. This will ensure the smooth transfer of primary co-settled and imported sludges at one of its largest WWTW, the Esholt plant.

The installation of the Munchers will complete a package of Mono's wastewater and effluent treatment and protection equipment installed at the Esholt side, which ranks highly within European wastewater treatment standards.

To overcome blockage problems previously experienced, Morrison Construction Ltd is currently working on a Design and Construct project, in collaboration with Project Managers CDG International Ltd, to provide efficient, cost-effective replacement sludge pumps. The pumps will perform two sludge transfer duties from primary settlement tanks over to co-settlement tanks and from co-settled and imported sludge storage tanks to several sludge consolidation tanks. Four TR Munchers, incorporating 150mm diameter cutters, will cope with larger objects more easily, will enable improvements as a result of an increased flow of up to 180m³/h.

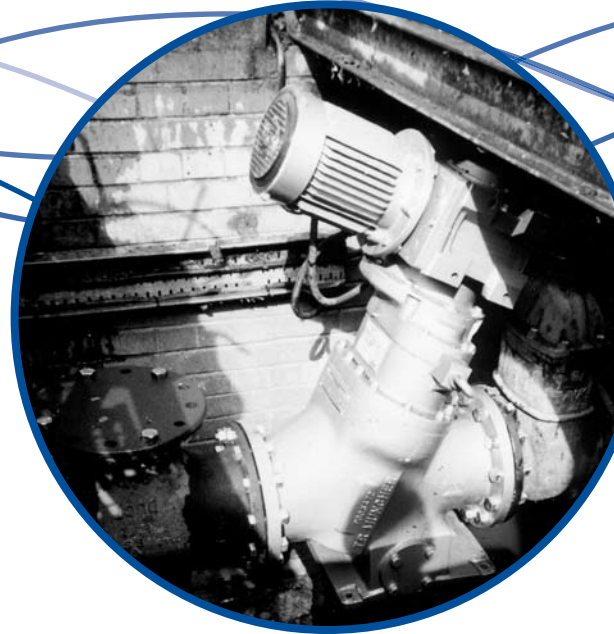
The TR Muncher incorporates a number of benefits and cost saving features. Layback cutter stacks are set at an

angle to the incoming flow to reduce the possibility of damage by rogue materials. Rejected solids drop into a built-in trash trap set clear of the cutter stacks. The trash trap is fitted with a large diameter access port to enable easy removal, cleaning and flushing.

The complete drive, gearbox and cutter assembly can be removed from the unit's casing without dismantling the machine or removing the casing, simplifying routine maintenance procedures.

A cantilevered shaft design eliminates the need for bottom seals and bearings, significantly reducing wearing components, and low power efficient motors ensure low running costs.

In addition to the TR Munchers there are several Mono industrial progressing cavity pumps in operation, combining the benefits of reliability and efficiency to perform transfer duties and polyelectrolyte dosing of the sludge.



Muncher:	CT203EBT1B2
Product:	Primary Sludge
Capacity:	180m ³ /h / 6% consolidated sludge
Drive:	2.2kW motor



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Mono® NOV

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