

CASE STUDY

PROJECT	INLET WORKS UPGRADE
PRODUCT	Screw Separator / Grit Classifier
INDUSTRY	Municipal
LOCATION	New South Wales



BACKGROUND

A northern NSW regional Council was seeking to upgrade their sewage treatment plant inlet works by replacing an old grit classifier that was reaching end of life. Council required a like for like replacement in order to minimise modifications to their existing infrastructure and to simplify installation and commissioning.

Key requirements included for the replacement grit classifier to have an easily replaceable liner and an automatic bagging system to capture dewatered solids and minimise odours.

SOLUTION

The REKO Screw Separator model 190 ZS was selected for the project to meet all the replacement requirements.

DESIGN SPECIFICATIONS

- Liquid treatment capacity of 35 m³/hr
- Solids/sand handling capacity of 0.5 m³/hr
- Grit separation size: > 0.2mm

DESIGN FEATURES

- Machine materials in SS316
- Inclusion of adapted Longopack bagging system
- Replaceable 10mm HMPE liner

RESULTS AND BENEFITS

- **Turnkey solution.** Almost identical dimensional match to existing unit for ease of installation and minimal modifications to existing infrastructure when the unit was delivered to site
- **Low Maintenance.** The design of the unit allows for simple and low-cost operation and maintenance



Standard screw separator / grit classifier



Screw separator / grit classifier packaged and ready for delivery