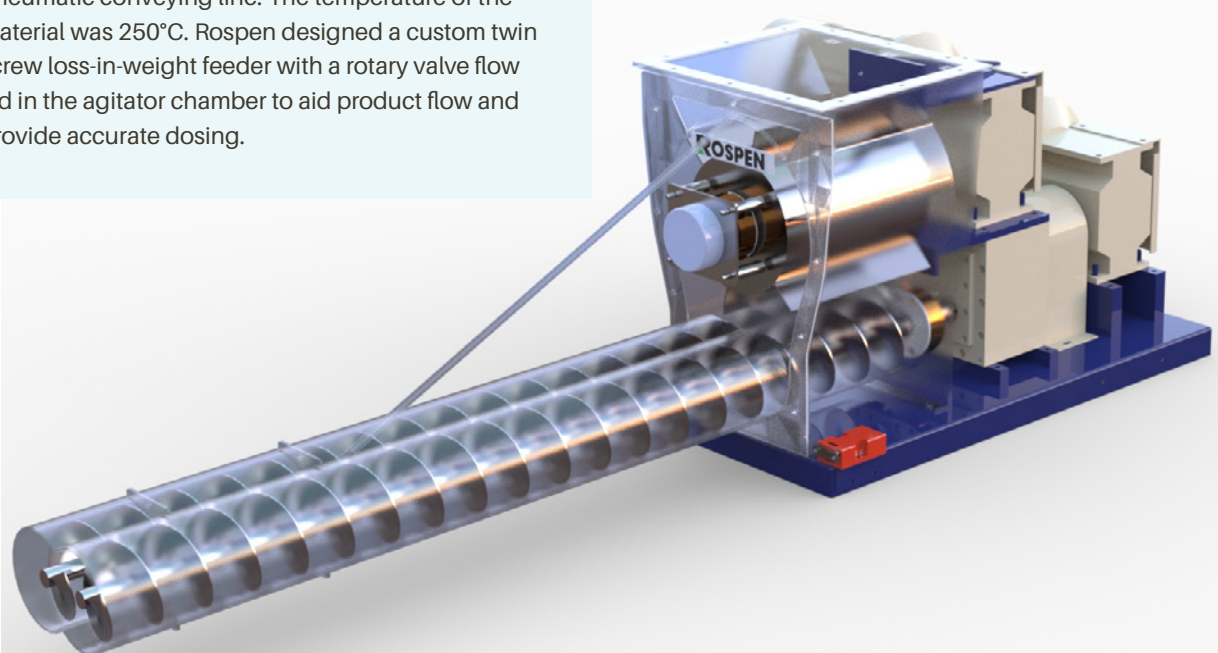


TITANIUM DIOXIDE FEEDING PAINTS AND PIGMENTS

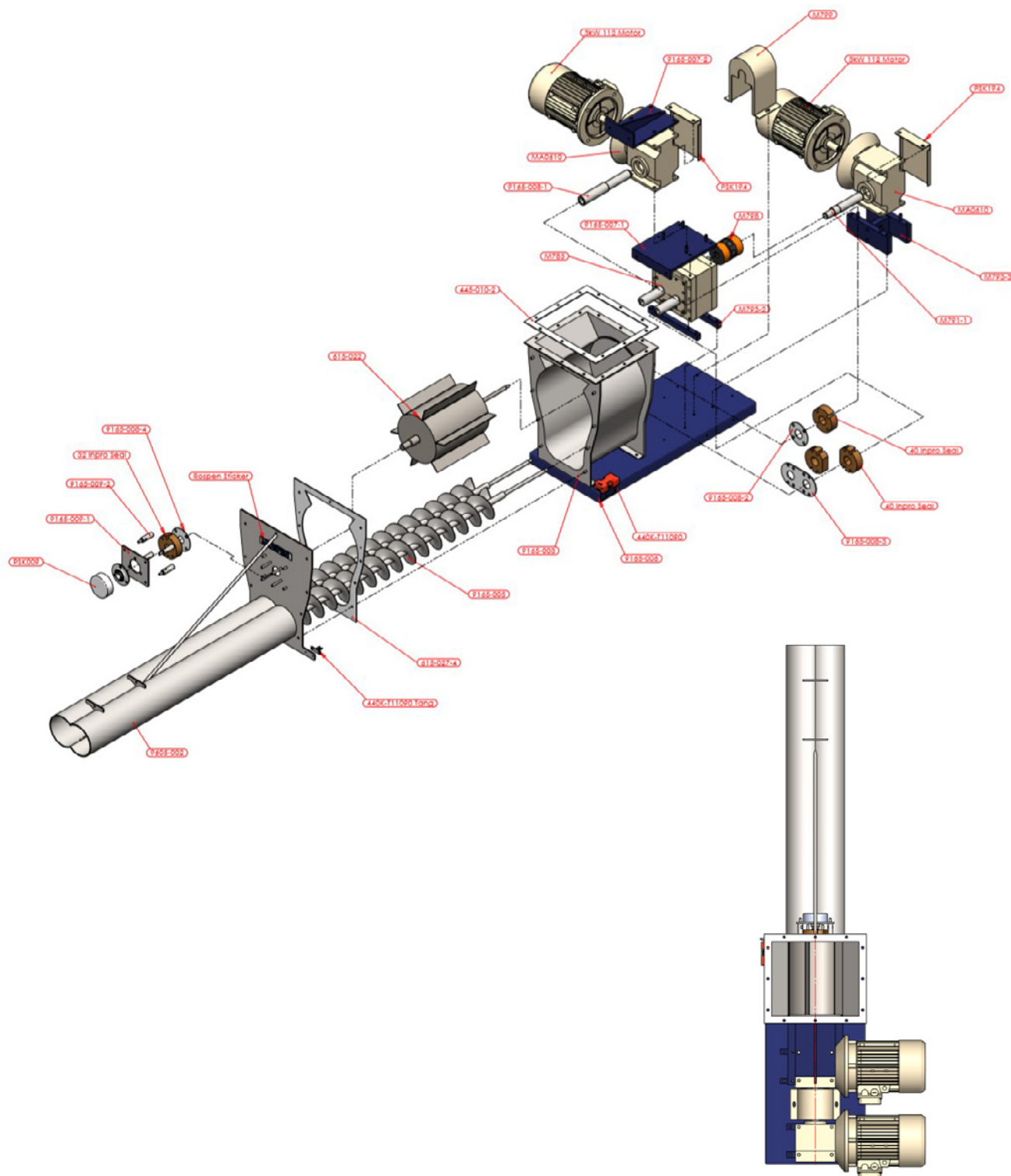
Titanium Dioxide (TiO_2) is widely used across a variety of industries, accounting for ~70% of the total production volume of pigments in the world. It is a very fine powder that provides whiteness and opacity to paints, coatings, plastics, paper, inks, fibres, foods and cosmetics. TiO_2 is a notoriously difficult bulk material to handle and process, as the fine particle size of the material and its high level of internal friction can lead to a variety of flow problems.

Due to its very poor flowing nature, TiO_2 tends to form material bridges inside of hoppers or can form a “rat hole”. It is not uncommon for an incorrectly designed vessel to completely block. Equipment must be designed with optimized geometry and incorporate discharge aids such as types of mechanical agitators, air fluidizers or vibrators to promote flow.

A leading pigment company approached Rospen with a requirement to accurately feed TiO_2 into a pneumatic conveying line. The temperature of the material was 250°C. Rospen designed a custom twin screw loss-in-weight feeder with a rotary valve flow aid in the agitator chamber to aid product flow and provide accurate dosing.



TITANIUM DIOXIDE FEEDING PAINTS AND PIGMENTS



MANUFACTURING FOR YOUR REQUIREMENTS

Our unrivaled industry experience combined with advanced design and system versatility to provide a range of benefits.

Highly qualified engineers	Precision	Reliability
 Our engineers are masters in their field. Rospen engineers are degree-qualified and equipped with comprehensive knowledge and experience to provide custom solutions to unique client challenges.	 Rospen systems are designed to perform with precision accuracy under all operating conditions.	 Our systems are built to ensure long term reliability, maximum up-time and lowest on-going operational costs.
Hygiene	Maintenance	Flexibility
 No matter the application, from pharmaceutical or food to quarry use, our machines are designed with easy strip-down features for hygienic cleaning.	 Design ingenuity enables quick and easy access for maintenance and low downtime.	 Standard design features ensure complete flexibility within existing manufacturing.



CONTACT US

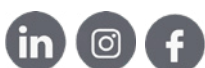
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