

# Delivering what the market needs

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**A NEW SERIES OF HIGHLY EFFICIENT, GEAR-DRIVEN CENTRIFUGAL PUMPS OFFER THE SPECIFIC CONFIGURATION REQUIRED FOR EACH APPLICATION**

Some agricultural spraying applications make use of chemicals containing abrasive compounds, while some pose more of a threat of running out of liquid fertiliser during planting. Others may not have an adequate hydraulic oil supply to power a centrifugal pump. The Ace Pro 5 Series of centrifugal pumps takes a modular approach to these challenges, with the ability to mix and match features and systems to provide the specific centrifugal pump configuration needed for each application. It starts with a common frame onto which a variety of impellers, volutes, seals, pump shafts, or hydraulic motors can be used.

### Cast iron and stainless steel

Although most current Pro 5 Series pumps are constructed of cast iron and E-coated for corrosion protection, stainless steel versions of some configurations are available currently and more stainless steel models are in development. Driven by highly efficient, gear-driven hydraulic motors, performance of Pro 5 Series pumps range up to a maximum pressure of 130psi and a maximum flowrate of 260 gallons per minute, which covers a wide range of spraying applications.

Precision spraying is gaining popularity due to reducing the amount of expensive chemicals applied, ultimately saving money and helping to protect the environment. Newer precision spraying applications easily connect to the optional pulse-width modulated hydraulic motors that are perfectly matched with each specific pump to provide quick response time, which improves sprayer accuracy. Pro 5 Series pumps can also be belt driven for applications without sufficient hydraulic supply.

### Silicon carbide seals

To keep Pro 5 Series pumps running strong, standard silicon carbide seals provide approximately three minutes of run-dry protection against abrasive materials. Also available on the Pro 5 Series is the optional Oasis Wet Seal technology, the exclusive Ace Pump sealing system that provides run-dry protection for an indefinite length of time. Extended run-dry protection and PWM hydraulic motor control is



ABOVE: Ace Pumps' motor and pump solutions can mix and match features to provide the configuration required for each application

an ideal combination for use on autonomous spraying equipment, where the liquid level may not be monitored quite as closely as the levels on manned sprayers.

From Oasis Wet Seal Technology to PWM-controlled hydraulic drive motors, Ace Pump Corporation continues to build upon its strong legacy of quality and innovation by developing systems and solutions to complement the latest technologies. The company now offers these

features and more across the complete range of Pro 5 Series pumps.

### The company

Ace Pump Corporation recently passed the 75-year mark of manufacturing centrifugal pumps, used in the agriculture, off-highway and other industrial markets. These tried-and-true pumps continue to be built and sold today, a testament to their durability of design and build quality. **ivT**

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