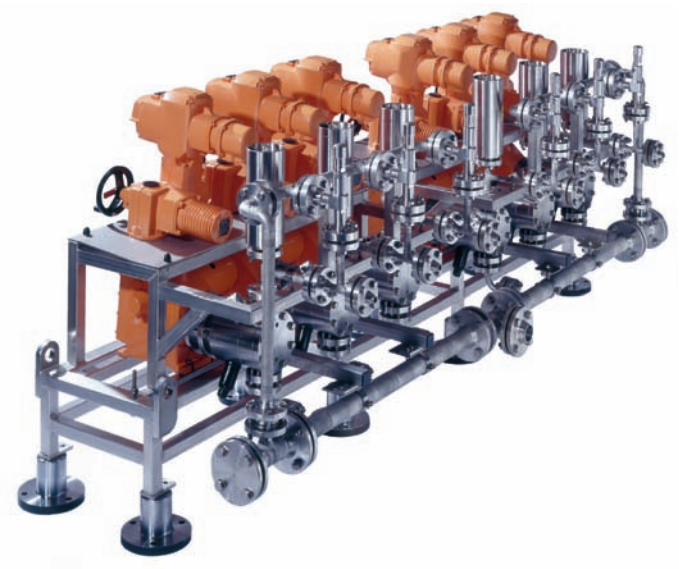
Modular Combination

Crank Drives Orlita® S and RB Series



ProMinent Orlita® metering pumps are equipped with proven and robust crank drives. Two different series are available which guarantee a reliable and low-wear operation of the complete unit thanks to quasi-harmonious movement and power transmission in the entire stroke adjustment range. The stroke length can be adjusted manually – alternatively also electrically – both during operation and stop. The adjustment can be made continuously from zero to maximum stroke. The presently set stroke length can be read from a meter or a mechanical indicator. Multi-head pump units are designed by combining similar but also differing crank drives.

Crank drive for S series

Crank drives of the **S** series are used for all plunger and diaphragm pumps. The different sizes facilitate a modular combination with different pump head sizes and pump head types and thus guarantee an overall economic solution.
The crank drives of the **S** series have no integrated transmissions. Different stroke frequencies are obtained by using external reduction gears. It is specifically with multi-head units that a high efficiency is obtained by this.
For **S** crank gears, the stroke is adjusted via a lever gear at constant rear dead centre of the pump rod. This characteristic offers decisive advantages, especially during high-pressure operation.
The lever gear has – apart from the crankshaft – only pivoting transmission elements. This ensures a low-wear operation and a high level of overload safety.

Crank drive for RB series

Crank drives of the **RB** series serve driving valveless plunger metering pumps of the type **DR**. The special design of the crank drive superimposes two movements:

- **Oscillating movement** (stroke movement of the plunger)
- **Rotating movement** (control of inlet and outlet)

An integrated worm gear reduces the speed of the drive motor to the stroke frequency of the pump.

Features

- Stroke adjustment 0-100 % during operation and stop
- Easily to be combined
- High efficiency
- Quasi-harmonious power transmission
- Electrical stroke adjustment
- Proven, robust, reliable

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