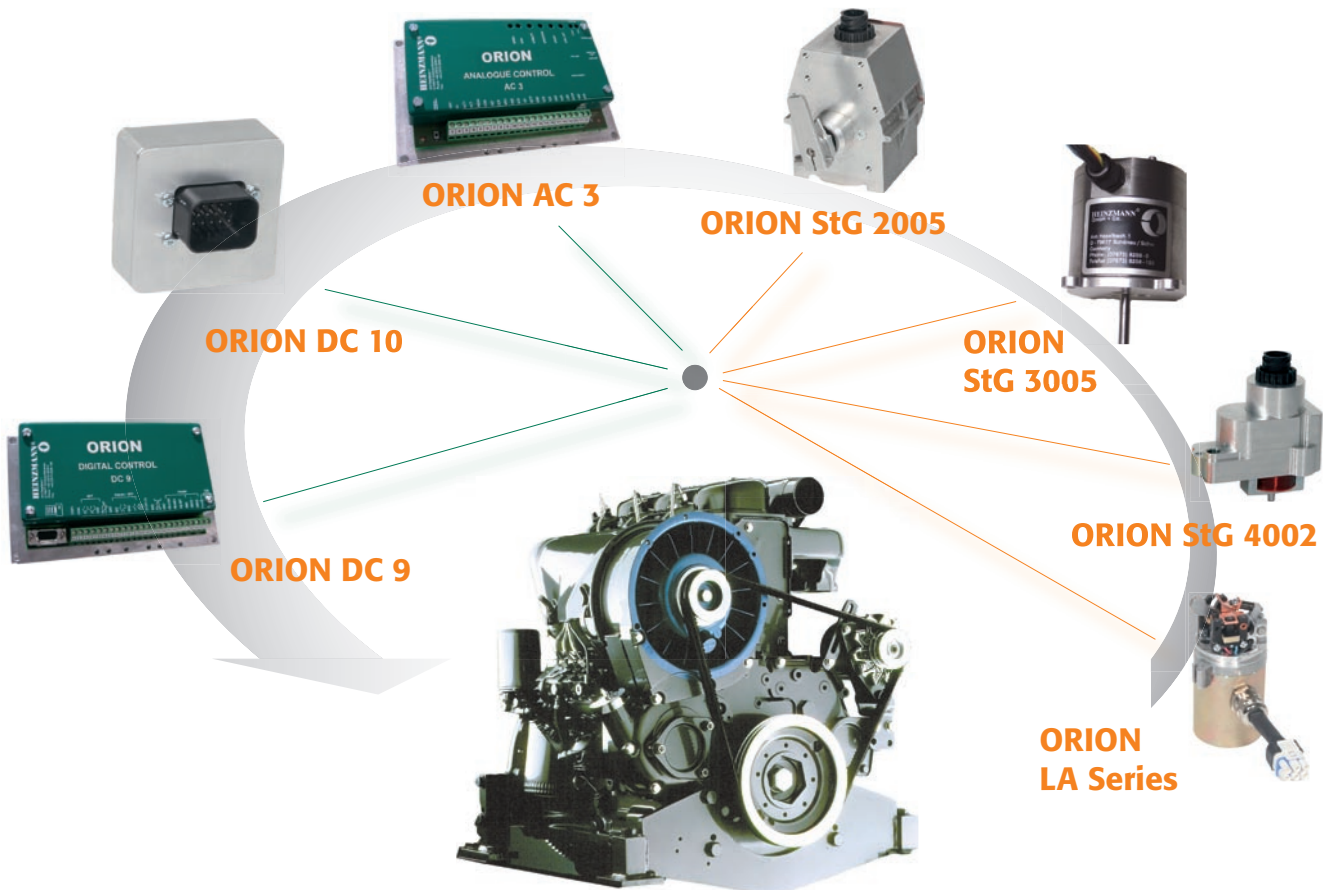


ORION

The New Cost-effective Generation of Speed Control Systems



For small and medium sized diesel & gas engines

- ✓ High efficiency
- ✓ Analogue & digital controls
- ✓ Optional rotary or linear actuators



ORION

Cost-effective speed control systems

HEINZMANN designs and produces a comprehensive range of control systems for reciprocating engines, gas and steam turbines as well as generator management systems.

The economically advantageous ORION series is designed for small and medium sized diesel and gas engines.

The optimal price-performance ratio and high efficiency are the main benefits of the systems. Furthermore, all solutions have a highly intelligent and precise feedback system and are available with rotary or linear actuators.

The ORION series provides analogue and digital controls and a choice of actuators which can be combined with all control devices. Thus our customers can choose the system tailored for their needs in order to meet different application requirements.

HEINZMANN's control systems are acknowledged for their long life cycle and proven reliability.

ORION benefits

- ✓ **Optimal price-performance ratio**
- ✓ **High efficiency**
- ✓ **Precise feedback system**
- ✓ **Long life cycle**
- ✓ **Proven reliability**

ORION CONTROL UNITS

ORION DC 9 Digital control unit

ORION DC 9 cost-effective speed control units are highly flexible and have a good speed control performance on small and medium combustion engines.



ORION DC 9

ORION DC 10 Digital control unit

The economically advantageous ORION DC 10 control unit with protection grade IP 66 is tailored for direct engine mounting without panel and can be used for small combustion engines.



ORION DC 10



ORION DC 10 with integrated actuator

ORION AC 3 Analogue control unit

This control unit has been developed for simple applications employing small diesel engines with power ratings up to 100 kW. It can be used together with a rotary or a linear actuator. Possible applications are generators and pump drives.



ORION AC 3

ORION ACTUATORS

Actuator StG 2005

This actuator working in 2Q-Operation usually is applied with a linkage and can be used for various positioning duties (e.g. setting butterfly valve or pump control rod).

The non-contact feedback provides precise positioning on the total range of adjustment even in oily ambient conditions.



ORION StG 2005

Actuator StG 3005

This direct acting actuator is working in 4Q-Operation with rotary output. It comes with a well-tried contactless position feedback and integrated return spring.

StG 3005 is designed for direct mounting and applicable in various fields of use (e.g. operating butterfly valves, pump rods etc.).



ORION StG 3005

Actuator StG 4002

This actuator working in 2Q-Operation is intended to be mounted on a distributor injection pump and connected directly to the control rod.

The non-contact feedback provides precise positioning on the total range of adjustment even in oily ambient conditions.



ORION StG 4002

Actuator LA Series

Linear versions: LA 25/LA 30/LA 35

Actuators of the series LA work in 2Q-Operation. Actuation is produced by magnetic force, restoring force comes from a return spring. The range of strokes of this linear actuators runs from 12.50 mm up to 19.50 mm. The range of actuating powers runs from 25 N up to 35 N.

The non-contact feedback provides precise positioning on the total range of adjustment even in oily ambient conditions. Mounting is performed on pumps front side using an adaptor.



ORION LA 30

Overview – control units

	DC 9	DC 10	AC 3
Digital	x	x	
Analogue			x
CAN		Optional	
Inputs	Up to 2 magnetic pick ups (MPU) Feedback Up to 2 analogue inputs Engine Stop Up to 4 binary inputs	Magnetic pick up (MPU) Feedback Up to 4 analogue inputs (3 opt.) Engine Stop Up to 4 binary inputs	Magnetic pick up (MPU) Feedback Setpoint Engine Stop Speed up/Speed down
Outputs	Actuator 1 binary output	Actuator 1 binary output	Actuator

Overview – actuators

	StG 2005	StG 3005	StG 4002	LA 25	LA 30	LA 35
Angle/Length of stroke	36°	53°	35°	19.5 mm	15.5 mm	12.5 mm
Torque/Force	0.5 Nm	0.5 Nm	0.2 Nm	25 N	30 N	35 N
Feedback	Digital	Digital	Digital	Digital	Digital	Digital
Application	Inline injection pump	Inline injection pump	Distributor injection pump	Inline injection pump	Inline injection pump	Inline injection pump
Direction of operation	L/R*	L/R	L/R	F/B*	F/B	F/B

* L/R = Left/Right, F/B = Forward/Backward



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Selection of HEINZMANN products

Wide range of digital and analogue control units



Different sizes of electrical actuators for 1 Nm up to 500 Nm



Electronic Fuel Injection control system (EFI) - control units from 4 cyl. up to 20 cyl. engines



Range of analogue and digital generator management units



Gas engine management



Common Rail systems



Sensors & solenoids



Digital control systems for gas turbines



Hydraulic governors & actuators



Electric components of hybrid drive systems



Quality & Precision since 1897

