Product Feature & Industry Application

Design Features

1. The microcontroller (central processing unit - CPU) performs all the control functions

- Frequency converter control
- Motor temperature monitoring
- Actuator position monitoring
- Torque control
- Control system signal evaluation

2. Integrating power and control circuits within the actuator, means components traditionally mounted in separate control cabinets such as circuit breakers, reversing contactors and thyristors have been designed out.

Ontrac actuator incorporates an electronic frequency converter driving a robust induction motor (instead of the conventional motor plus reduction gear arrangement) which allows software configurable speed control for valve open/closure rates.

3. Electronics replaces mechanical components

Replacement of mechanical components such as limit and torque switches reduces the need for maintenance ensuring trouble free operation

Design Features

4. Precise control with high repeatability
Accurate and repeatable valve positioning is achieved through speed reduction when approaching the setpoint

5. Flexible electronics also enables the actuators to be used with both conventional and fieldbus systems

6. Reduced spares inventory for the complete actuator range
Converter technology and actuator software allows the number of mechanical and electrical components to be reduced to a minimum

7. Diagnostics
All critical actuator operating data is continuously monitored and stored. It can be readily Accessed. Operating limits can be set in the program which, if exceeded, trigger an alarm signal

8. Simple Commissioning
At the press of a button, the OPEN and CLOSE end positions sequence alternately. The microcontroller detects and stores the end position

Standard Specification

1. Operating Temperature: -40° C…..70° C

2. Enclosures: IP67 Optional IP68

3. Explosionproof: ATEX BT4 & CT4

4. Power Supply: 200-560 V, 50/60 Hz; 3 phase

110-250 V, 50/60 Hz; 1 phase

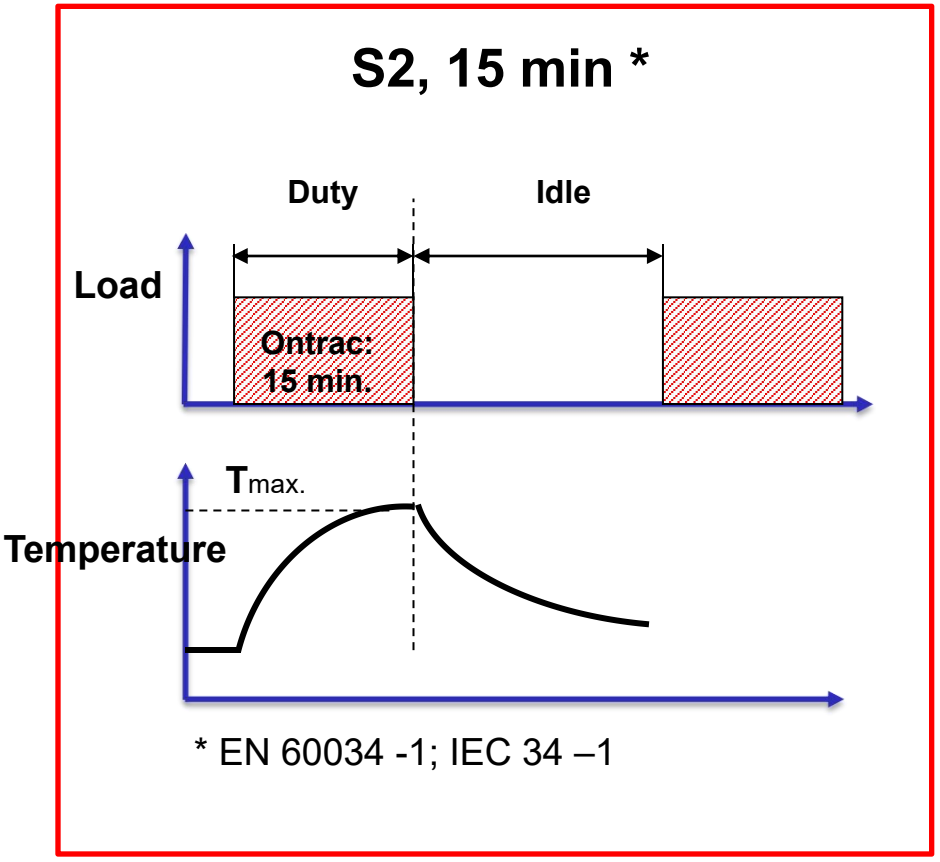
5. Remote Control：

- **Open/Close/Maintain Common：**
  DC+18~+33V output， DC+18~+33V
- **Analogue input/output：**
  385：DC+18~+33V input，4~20mA output。
  387：4~20mA input，4~20mA output。
- **Fieldbus System Control Options:**
  1. Profibus 2.Modbus 3. HART

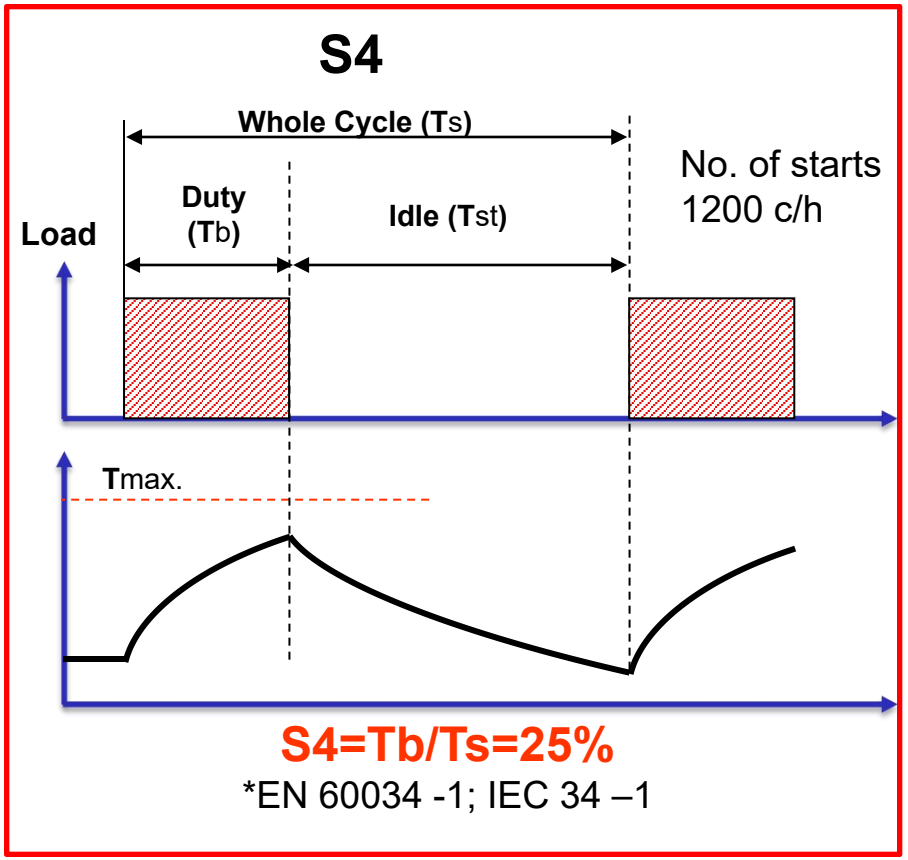
Ontrac®

MME/ MOE

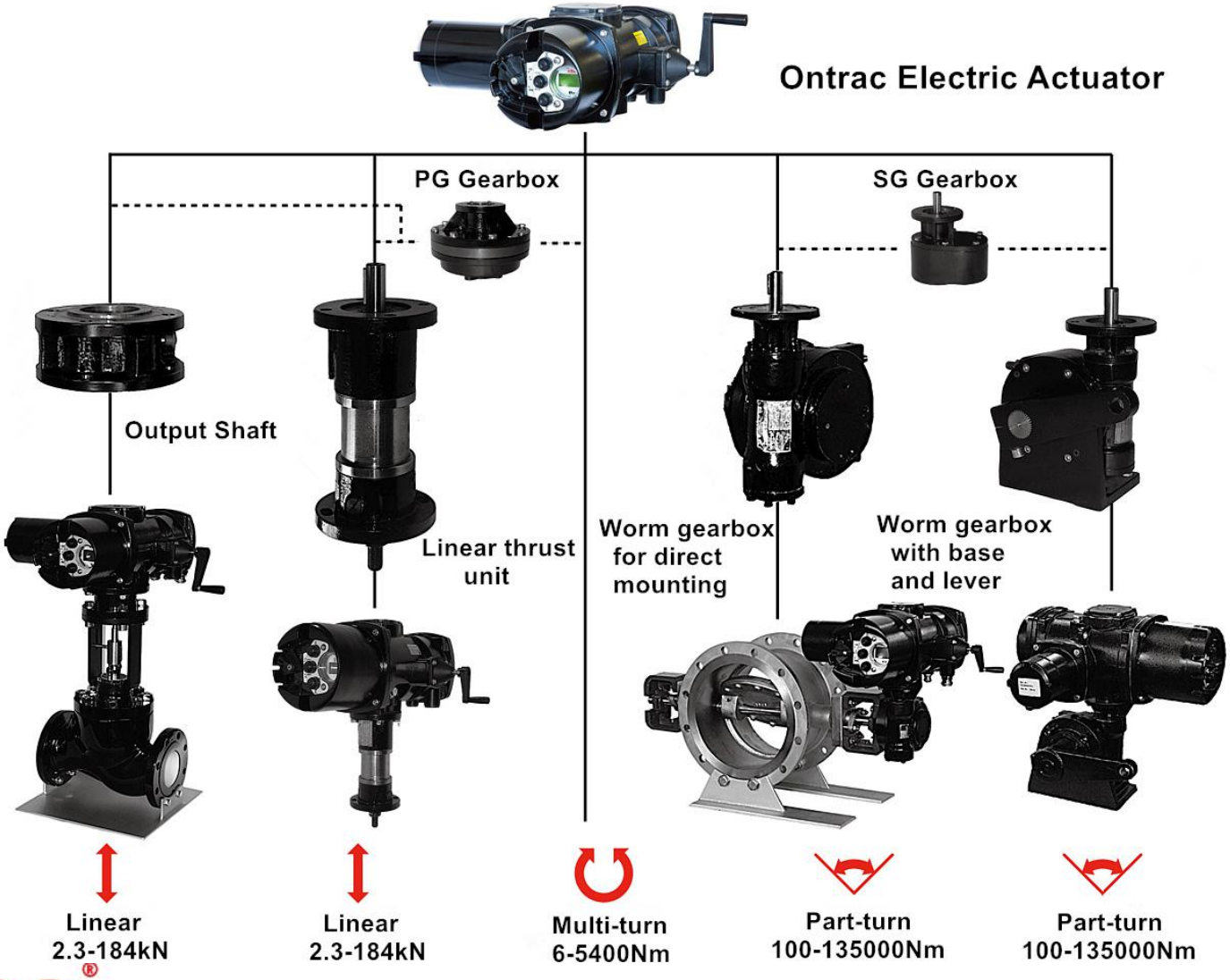
MOE for on-off & inching



MME for modulating



Ontrac Combined with Gear

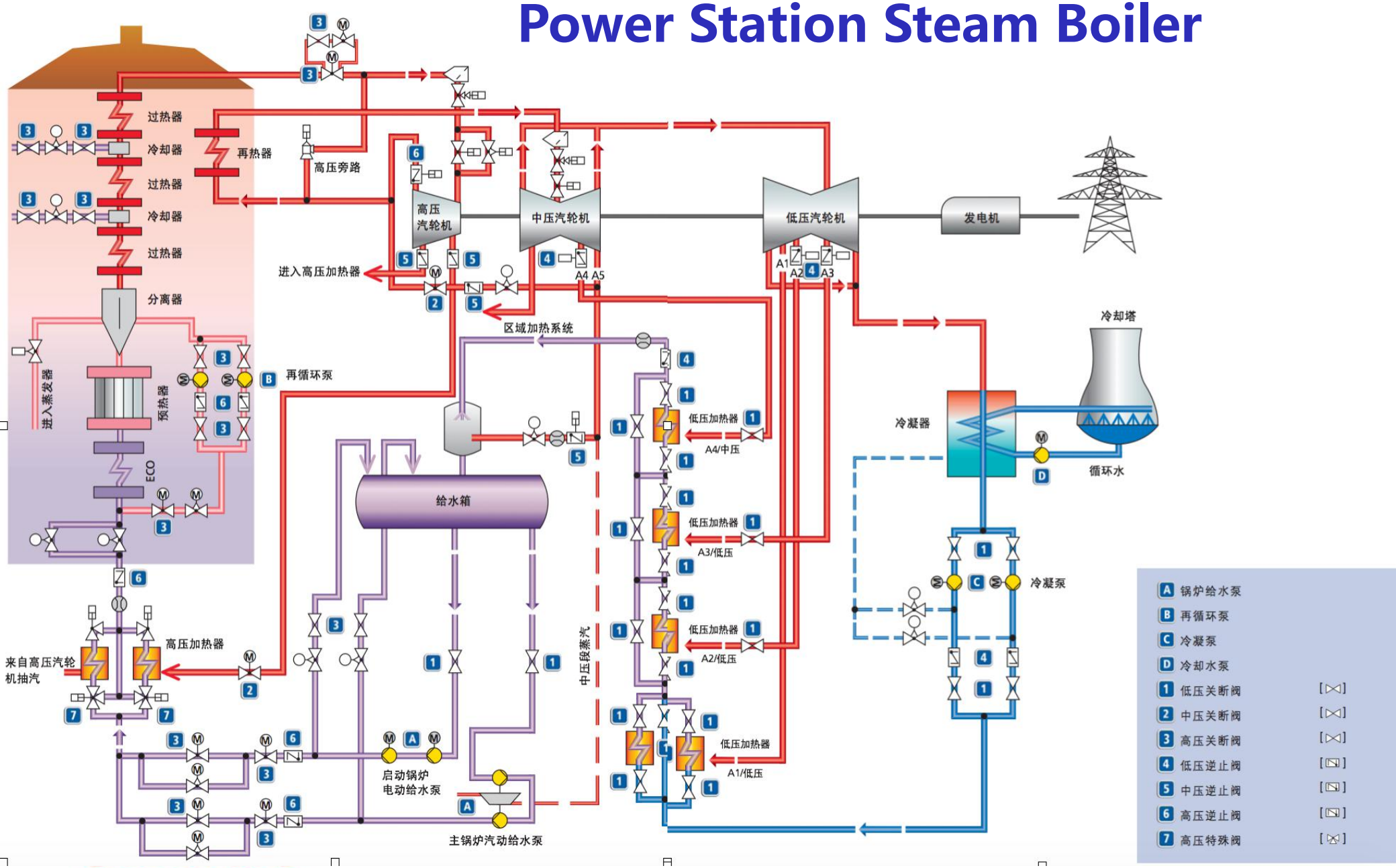


ONTRAC Separable Base

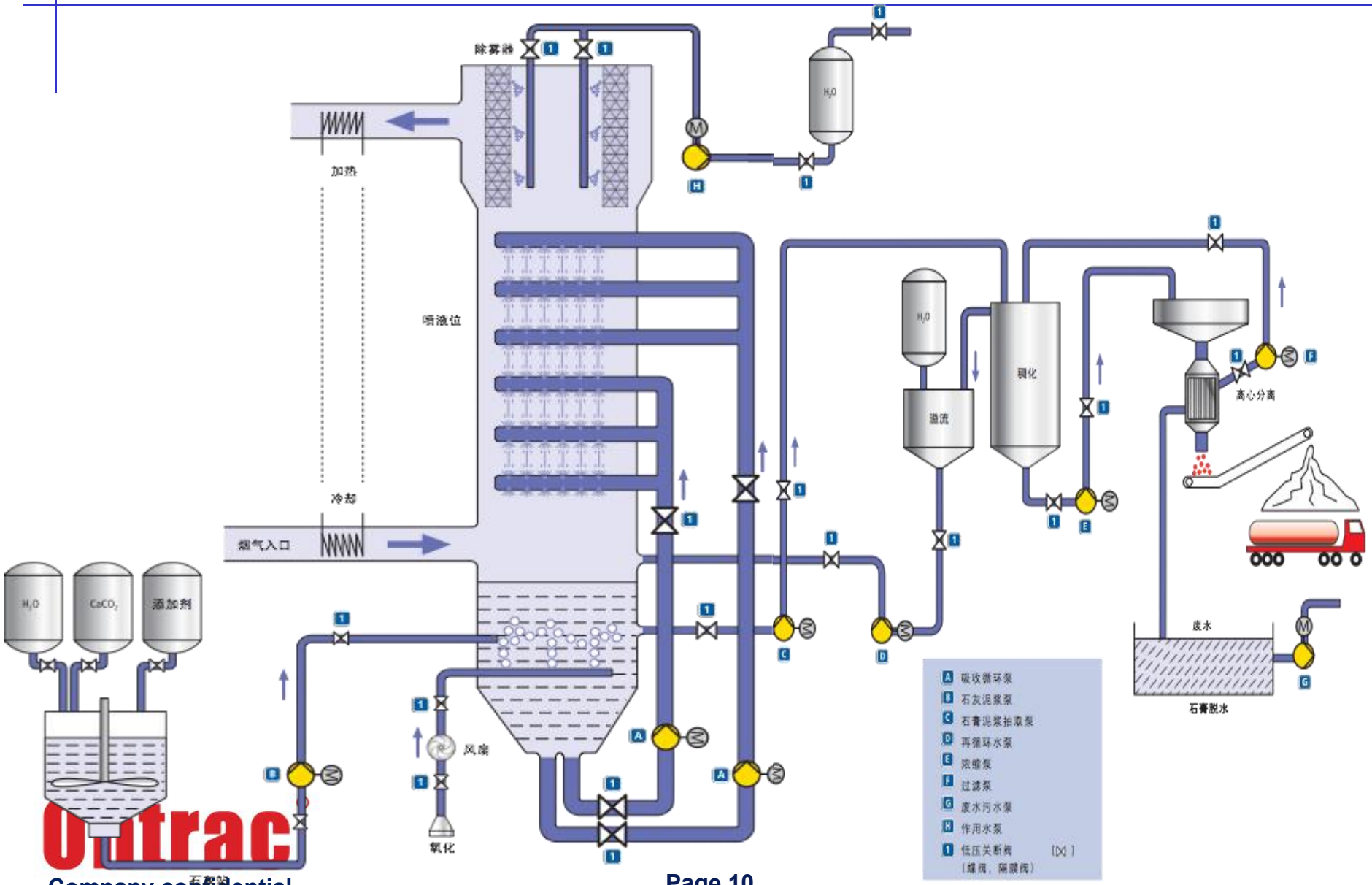
In some strong vibration or super high/low temperature fields, Ontrac split actuator is recommended

Industry Application

Power Station Steam Boiler



FGD-Flue Gas Desulfurization



Application—Power

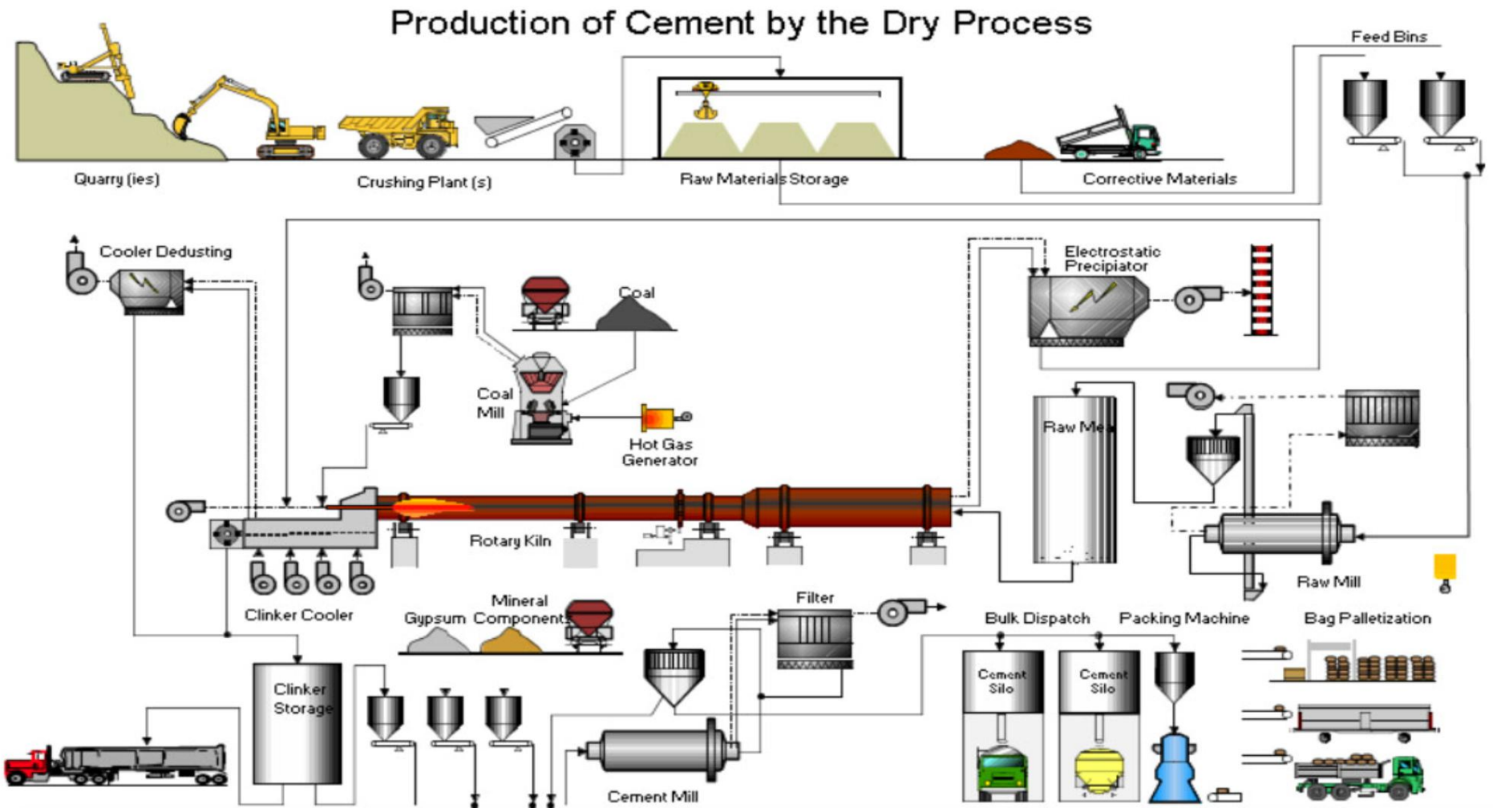
Steam Inlet Control Valve

Ontrac Split Actuator

Application—Power

suction blower

Main air blower



Cement Manufacturing Process Phase:

Production of cement completes after passing of raw materials from the following six phases. These are:

1. **Raw material extraction/Quarry**
2. **Grinding, Proportioning & Blending**
3. **Pre-heater Phase**
4. **Kiln Phase**
5. **Cooling & Final Grinding**
6. **Packing & Shipping**

Application—Cement

Application-Cement

Application-Chemical

Application - Water Treatment

Hangzhou City Wastewater Treatment Plant

Application-Water

South Africa Rand Water– Tap water sinks

Application –Oil & Gas

Oil Terminal -Pump House

Application-Oil & Gas

Airport Oil Terminals