

CONDRIVE DIRECT OSCILLATION DRIVE

Online oscillation control, simplified



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DIRECT OSCILLATION DRIVE

Online oscillation control, simplified.

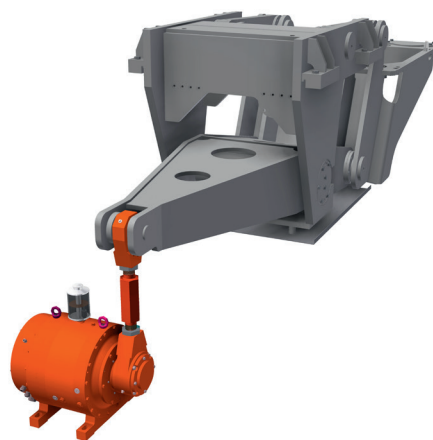
CONDRIVE is a new electric oscillation drive that delivers the functionality of hydraulic servos at a much lower price. Its innovative torque drive enables online adjustment of the amplitude, frequency and oscillation profile independently. Oscillation parameters are no longer a compromise because each casting section and grade gets its own oscillation parameters, tuned to best product surface. Online stroke adjustment is now both: affordable to buy and simple to use.

Application

Mold oscillation is the heartbeat of every continuous casting machine. Oscillation drives are usually either electromechanical – cheap and robust but needing manual intervention – or more complex and costly but more functional hydraulic drives.

CONDRIVE offers the best of both approaches. It is a simple but smartly controlled torque drive. Like a hydraulic system it enables online parameter adjustment. Influencing the surface quality was never as affordable before.

CONDRIVE consists of a powerful torque motor. Its shaft performs a part-turn rotation, continuously changing rotational direction. Any movement is at least equal or better than the accuracy of a servo valve on a hydraulic oscillator. The compact design of CONDRIVE usually allows minimal downtime for installation (half-day).



Example installation: CONDRIVE for short lever oscillation.

Ease of use and maintenance

Operator's benefit from high reliability and smart design:

- Online oscillation curve adjustment, with no need for manual intervention
- No maintenance of significance required
- Oscillation test stands no longer needed
- Expected maintenance cycle of 3 to 5 years

For best results

Best product quality can be achieved with the coordinated use of SMS Concast's innovative continuous castor solutions, including:

- SMS Concast oscillators
- CONGAUGE powder thickness measuring systems
- CONFEEED automatic powder feeders

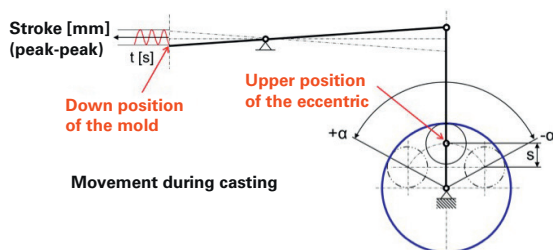
Please contact us for further information.

YOUR ADVANTAGES

- **Improved product surface quality** thanks to online oscillation adjustment, tuned for each steel grade
- **Torque drive with superior controls** enables online stroke adjustment at a lower cost than hydraulics
- **High reliability and lowered operational cost** due to the purely electrical direct drive concept

TECHNICAL DATA

Application	Billets and blooms (two drive sizes)
Operation	HMI-controlled, cooling water, free of hydraulics
Option	Oscillation friction measurement
Possible curves	From standard sinus towards continuous saw tooth



CONDRIVE working principle – oscillation by part-turn rotation.