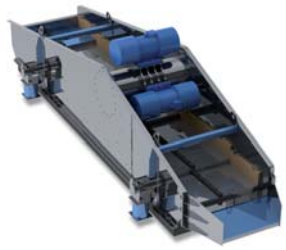
CYRUS
more than vibration

A CONTROL OF DIVERSE APPLICATIONS

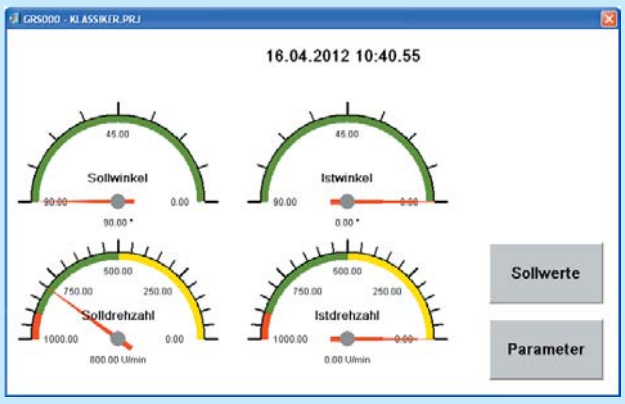
Shake-out grid



Screening machine

Vibrating feeder/separating grid

The new development of an 'electronic gear' scutching machine control from the house of Cyrus allows optimised use in view of process and energy as well as resource efficient use of scutching machines with linear drive. Here, importance is given to the largest possible flexibility of the system. This is achieved by continuously adjusting the vibrating angle and the drive frequency, depending on the respective product. In screening technology, these applications are used in the recycling industry among others, e.g. during drainage. Fields of application in the foundry are optimised separation of cast iron and sand as well as gentle cast handling, for example. Here, the dynamic forces as well as the force transmission pitch line are changed and thus interlocking of material with longer product delay time at a screening machine, for example, can be prevented.



The operating panel shown here, including the 7" display, regulates the speed (frequency) and the angle of force transmission in conjunction with the two frequency converters in the control cabinet. Here, the display shows the target and actual values of the speed and the vibrating angle, for example. The 'electronic gear' function works without the use of a PLC (Programmable Logic Controller).

Technical data · 'Electronic gear' made by Cyrus		
1	Supply voltage/ Frequency	400 V / 50 Hz · 415 V / 60 Hz (other voltage / frequency possible on request)
2	Control voltage	24VDC via power pack
3	Capacity	2 frequency converters e.g. 2 x 15 kW; 2 x 22 kW; 2 x 37 kW / other capacity possible
4	Performance level	C
5	PLC	PLC control type Siemens S7-3.. and panel OP.. Without control function included as an option!
6	Bus	IGB-Bus, Ethernet interface, CAN-Bus, HUB for remote data maintenance, Profi-Bus option
7	Energy recovery	'Green use of energy' included as option
8	Fields of application	Vibration motors and three-phase motors in conjunction with vibrating machines
9	Motor speeds / frequencies	Motor speed up to 1500 1/min Vibrating frequencies up to 25 Hz (high frequency)
10	Machine application	Separator screen, screening machines, shake-out grids, vibrating fluidised bed cooler, vibrating-/picking trough conveyors
11	Menu	15 menus in the terminal Via Profi-Bus & PLC S7... no restriction of menu count
12	Actual condition monitoring of motors (angle monitoring)	Special and tested encorder for three-phase AC motors as well as vibration motors are suitable.
13	Cable and pipe lengths between electronic gears and motors	Up to 70 m depending on encoder design
14	Internal data transmission rate	Up to 1,000,000 bit/s

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