commander

MovieTech
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MTS Media Technical System
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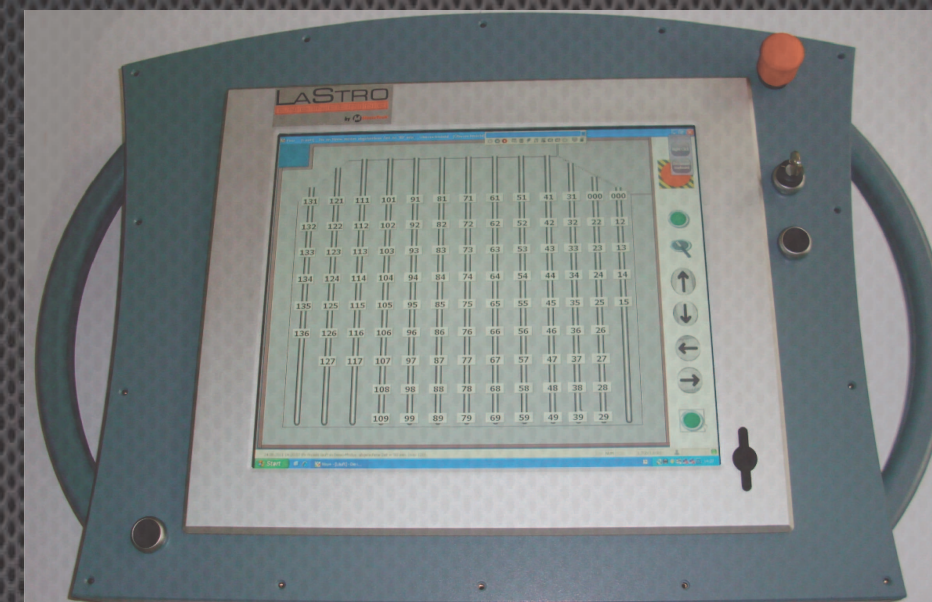
www.mts-germany.com

LASTRO ENGINEERING
Studio- und Bühnentechnik , Automatisation

www.lastro.de

Automation in studio and stage technology

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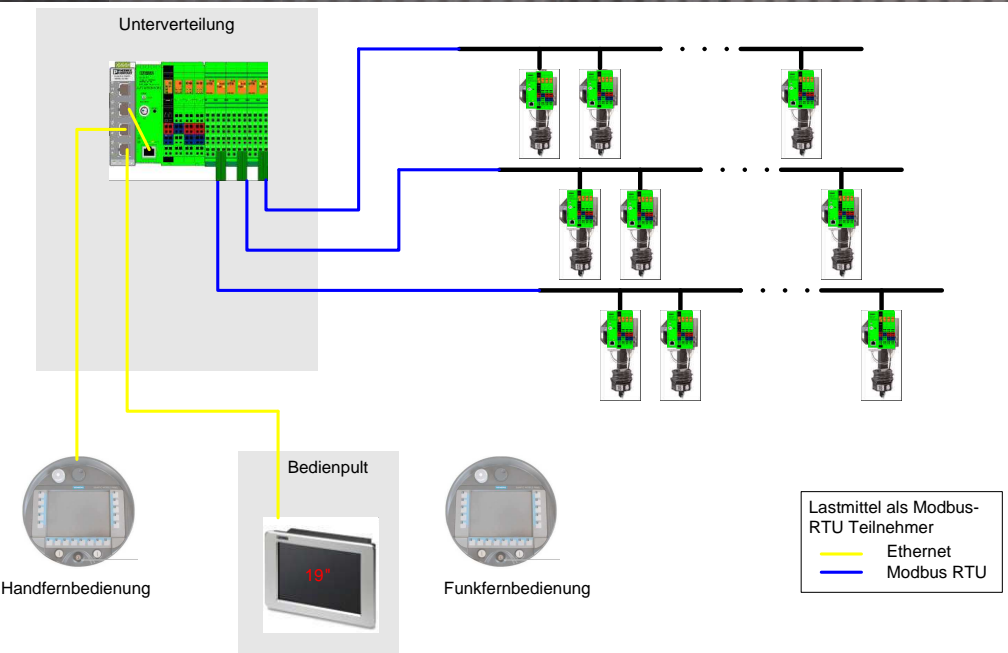email: info@movietech.de - www.movietech.de

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The automation system **commander** is a free programmable and modular control system for tele climber, chain hoists, point hoists, lifting podiums as well as telescopes, pantographs, barrel hoists and positioning control.

Commander adapts to customer requirements by the modular system. Together with the user, the complete system and the operating interface will be developed. The software adapts to the located solutions.

The operating desk and the controller communicate by standard Ethernet. The communication between controller and telescope (SAT) occur by ORB, which is optimised for conductor lines and uses an bi-directional Industry-Bus for the transmission.
Each rail system is controlled by one ORB-controller, so that in case of an potentially failure in one ORB not all rail systems fail.

The automation system **commander** can be used as an control system both local and central. On demand, an access can be realised for remote support (remote maintenance).

Netzwerkkabelverbindung Ethernet
- Protokoll Profinet / Profisafe

Funkverbindung Ethernet
- Protokoll Profinet / Profisafe

Fahrbares Steuerpult

Hubzug 1
Hubzug 2
Hubzug 63
Hubzug 64

SPS Schrank

Netzwerkverteiler

Tragbares Steuerpult

Unterverteilung

Operating desk: commander
Table or wall operating desk
- 19" touch-screen
- keypad
- emergency stop switch
- 2x analog joystick
Circuit points:
Current supply
2x USB 2.0
Ethernet (RJ45)
Harting
Weight: approx. 27 kg

Bedienpult

19"

Handfernbedienung

Funkfernbedienung

Lastmittel als Modbus-RTU Teilnehmer
Ethernet
Modbus RTU

SPS Steuerung mit Profinet/profisafe

I/O Station zum Anschluss von sicheren Eingängen wie z.B Not-Aus Taster

Stromversorgung 230V AC / 24V DC

At communication of the hoisting devices with the commander-system in the local control system, the control occur via separate controller, lift, which are positioned directly in the range of the motor.

The communication of the controller 'lift' with network and master occur via Ethernet.

Of course Group-drives, as well with synchronous run control, can be realised with the commander system.

If required the SPS updated the software of the operating desk. This ensures that the control panels will always be brought up to date automatically.

All information are centrally stored and processed in the SPS.

The modular system **commander** has nearly no limits. Its hardware modular construction system agree to all installation situations. Desk or table completion are flexibly configurable.
All employed electrical parts are approved and TÜV-certified* standard units which has partly the qualification to SIL3.
Even the standard units comply with the regulations of the BGV C1.
TÜV – type testing of used objects are available for the SIL3 completion.

All control-sections are connected with the main distribution (ORB) by Ethernet. On demand W-LAN radio circuits are available, too.

For further handling modified manual control units are also available, which dispose a touch-screen and are pluggable at various points.

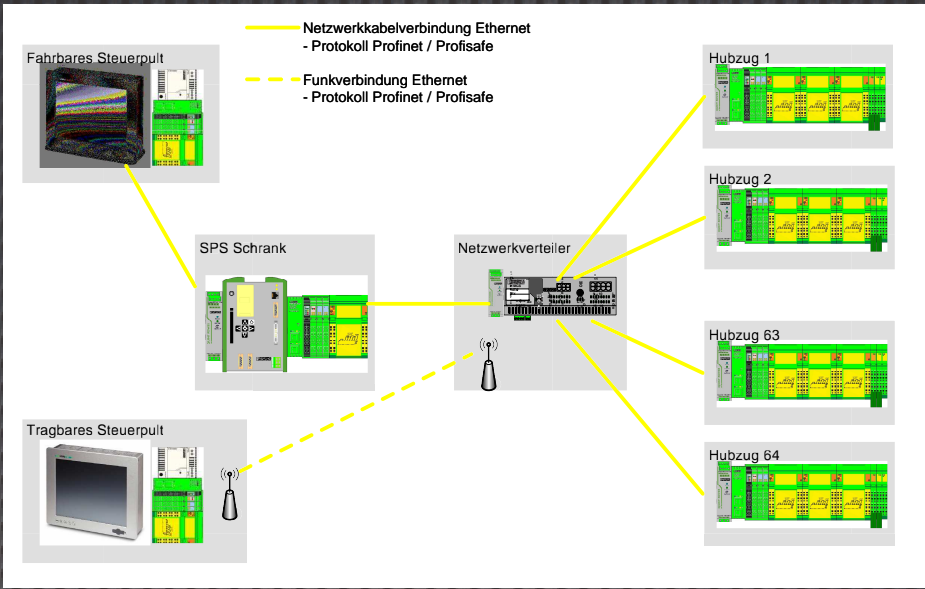Of course operation can be inserted by an rendering cabinet in the wall.

Here, standard 19" installation frames will be used.

Based on the use of standard units, which are also used in large quantities in other sectors of industry, a big and long-lasting availability is assured worldwide.
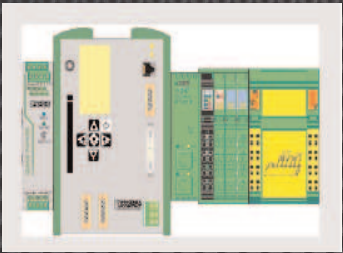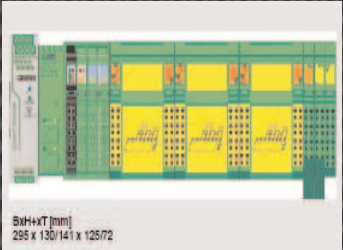
* TÜV- German Association für Technical Inspection

Profinet/Profisafe Kommunikation

I/O Station zum Anschluss von sicheren und nichtsicheren Signalen

Stromversorgung 230V AC / 24V DC

BxHxT [mm]
296 x 130/141 x 125/72

Netzwerkverteilerschrank für max. 72 RJ45 CU-Ports

Stromversorgung 230V AC / 24V DC

BxHxT [mm]
420 x 125 x 115
BxHxT [mm]
420 x 125 x 115
BxHxT [mm]
420 x 125 x 115

LaStro ENGINEERING
by MovieTech