

# Hagenbuch Hydraulic - MAD

## Motion Cinema



- **144 Hydraulic axes**
- **Cycle time: 3 ms**
- **Non-linear, customized control**

### The application

The abbreviation MAD stands for Motion Action Drive or, if you like, Maximum Adrenaline Dose. The moviegoer necessarily sits strapped into hydraulically movable seats. Simultaneously to the film action on the big screen, the passenger is ingeniously set in motion in his seat by means of sophisticated software, so that in combination with the rapid optical action on the screen and the effective surround sound, the perfect illusion of movement in space is created.

Accelerations of up to three times the earth's gravity can be achieved. In addition, each pas-

senger can individually choose the intensity of their seat movements.

### The system

A single Indel INFO-SAM2 fieldbus master coordinates all hydraulic axes and IOs of this gap facility. Thanks to the openness of the Indel operating system and motion library, customer-specific control algorithms could be effortlessly and optimally integrated into the existing system.

**Fun for the whole family.  
That is Indel Automation.**