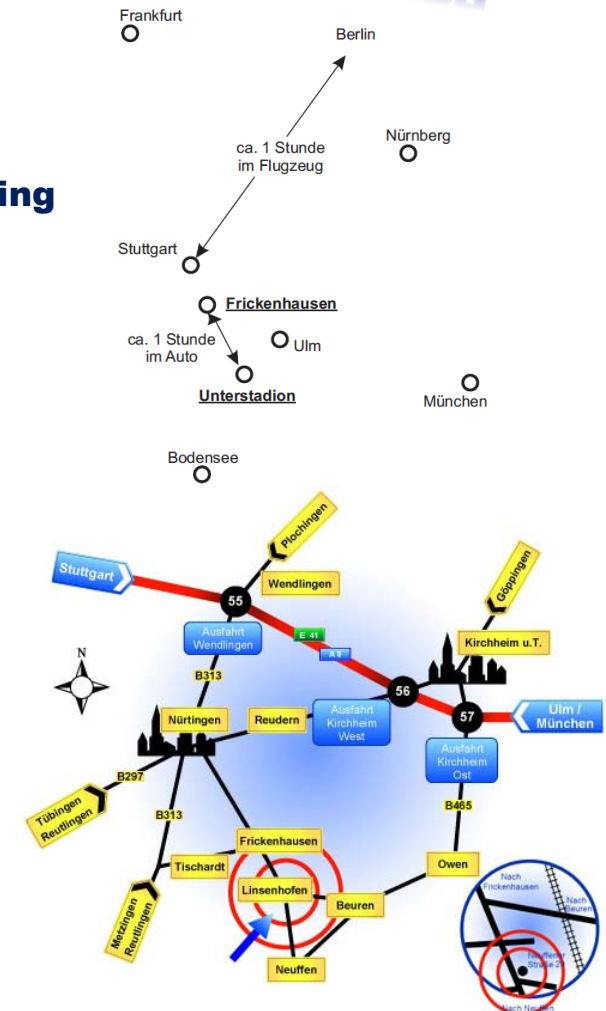




◆ Company

- **HCS GmbH – in Frickenhausen in the heartland of Baden-Württemberg – since 1997 a competent and reliable partner for all kinds of automation applications**
- **Focus and key competence is on development and manufacturing of electronic control systems for hydraulic and pneumatic applications and Embedded Control**
- **Outstanding customer service and shortest possible implementation leads to satisfied customers with an ever-growing client base**
- **Best possible reliability of products and highest quality are part of the success**
- **A powerful team of employees – specialists in their fields are the essential point**
- **With over 35 years of experience in digital control we are always targeted at the optimum solution**

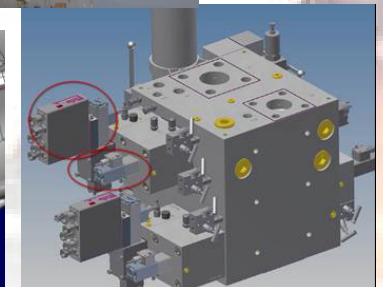
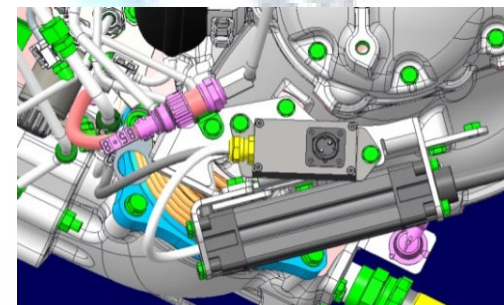
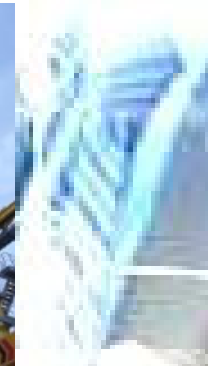
**2022!
25 YEARS
HCS GMBH**



Facts and Data – Company

◆ General History

- **Founded in 1997 as engineering office**
- **2 years project for high-speed tilting train**
- **Conversion to GmbH (Ltd) in 2000 and start with own product line**
- **From 2006 on modular amplifier DMA**
- **Begin of usage of PROFIBUS (2008)**
- **Realization of PROFINET Interface (2013)**
- **ATEX/IECEX electronic certified (2014)**
- **Development of IPX5/IPX9 On-Board (ODC)**
- **Introduction of new generation DAC-4x(A) with increased performance (2020)**
- **Introduction On-Board amplifier DAP (2020)**
- **Redesign DMA-2 series (totally updated 2022)**
- **Introduction new generation DMA-22(A) with significantly improved performance (2023/2024)**



Facts and Data – Company

◆ Data

- **22 distributors and partners in > 13 countries**
- **> 80.000 electronic units in the field and more than 3.000 bus-interface applications**
- **> 70 % export rate**
- **Customers on all 5 continents**
- **> solution-oriented year experience / 7 employees**
- **Philosophy and Destination**
- **Customer is always key focus**
- **Flexible and solution-oriented acting**
- **Fast execution and innovative solutions**
- **Quality oriented completion**
- **Cost sensitive realization of requirements**



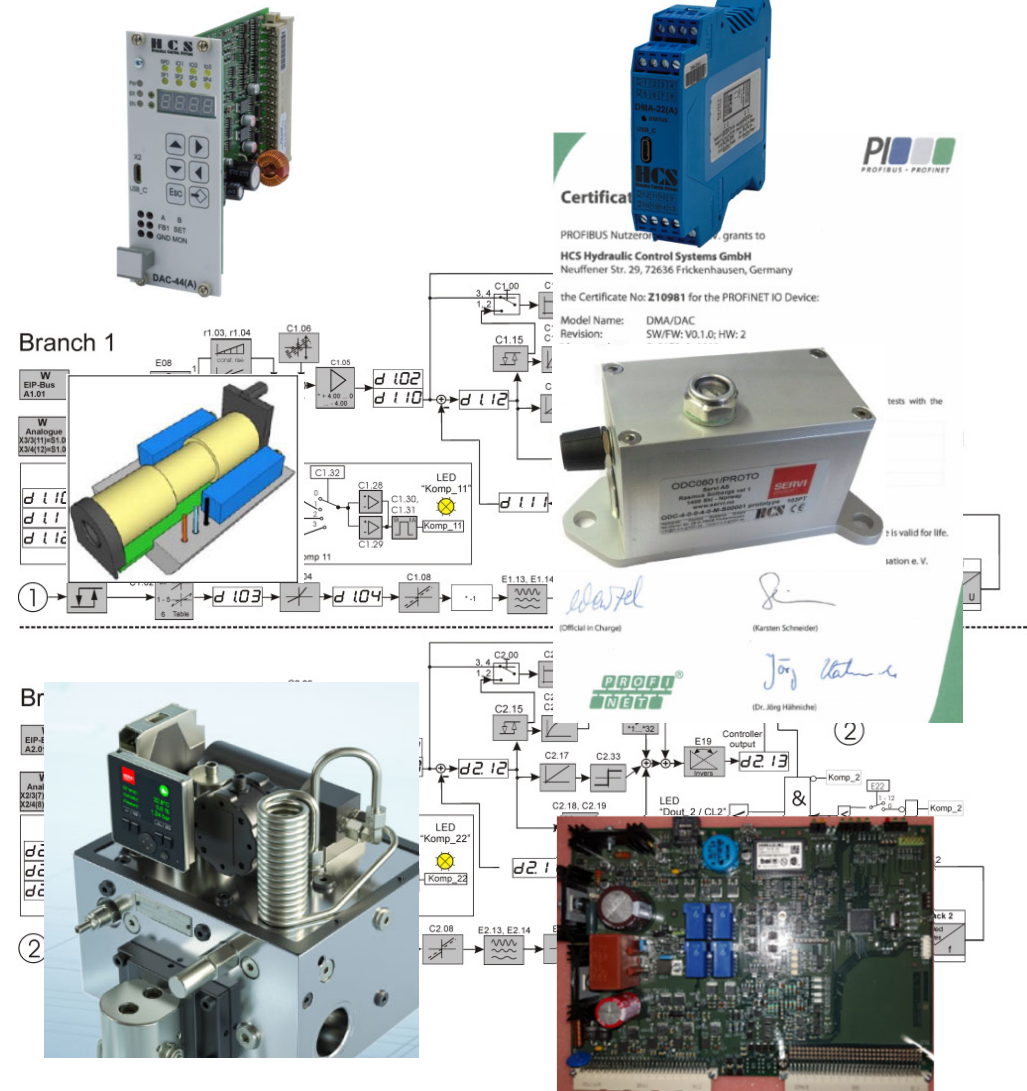
◆ **Competencies Electronic development**

- **Analogue and digital circuit technology**
- **Equipment for automation engineering**
- **Core competency in fluid technology**
- **Bus-Interfaces (PROFIBUS/NET, ETHERNET, CANopen)**
- **Integrated development of Hard-/Software**
- **PCB and complete systems development**
- **Specializing in Embedded Control**
- **Additional special experience in development of electronic equipment for usage in:**
 - **EX-applications**
 - **Offshore**
 - **Mining**



◆ 2020 to 2024

- „ODC“ for agricultural application
- Series application DMA 5-fold with E/IP interface for milk packaging factory – Brake controller functionality
- Re-certification of PROFINET and PROFIBUS interfaces for DMA
- Development customer specific LVDT sensor electronics
- DMA for Low-Cost and On/Off-valve applications
- Re-development DAC-4x series → DAC-4x(A)
- Introduction of on-board electronic DAP
- New DMA-22 version introduced → DMA-22(A)
- PQ- and PpQ-Control for pumps e.a.
- More to come!



Facts and Data – Products

◆ Overview

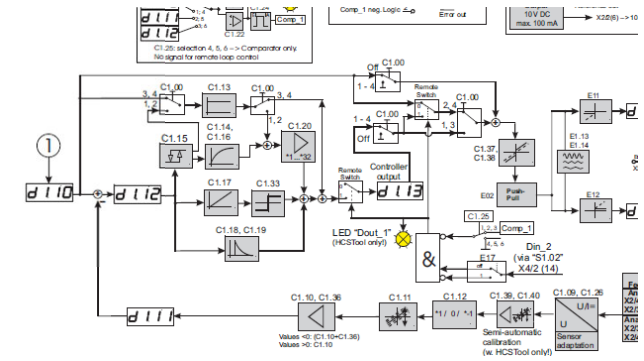
- Digital amplifier and controller modules **DMA-22** and **DMA-22(A)**

Digital amplifier and controller boards **DAC-4x** and **DAC-4x(A)**
- Digital On-Board amplifier and controller in IP68 – **ODC-22** (two output channels, closed loop option)
- Digital On-Board amplifier **DAP-22**
- Bus-Interfaces – PROFIBUS, PROFINET, ETHERNET/IP, CANopen (DAC, DMA, ODC)
- LVDT sensor interfaces (DAC, DMA)
- Parameterization software (HCSTool)
- Commissioning units, hand-held control unit, interface adapter (accessories)
- Customer specific adaptations and electronic devices



◆ DMA-22(A) / DMA-22 (Digital Module Amplifier)

- 2 and 2 x 1 – channel version – open-loop applications
- Closed loop applications (valve or process)
- **NEW:** Fully updated DMA-22(A) → more performance and more features!
- **NEW:** Special version for On/Off valves for significant energy savings or fast switching
- With Bus-Interfaces (PROFIBUS, PROFINET, CANopen, ETHERNET/IP); single/multi-fold
- With LVDT sensor interface
- Commissioning unit, interface adapter
- Customer specific adaptations (soft- and hardware, brand-labeling)



PROFI
NET

PROFI
BUS



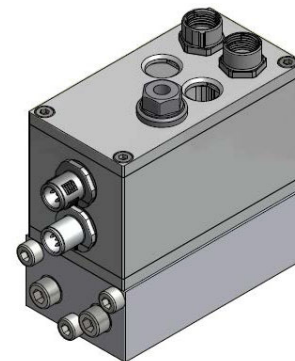
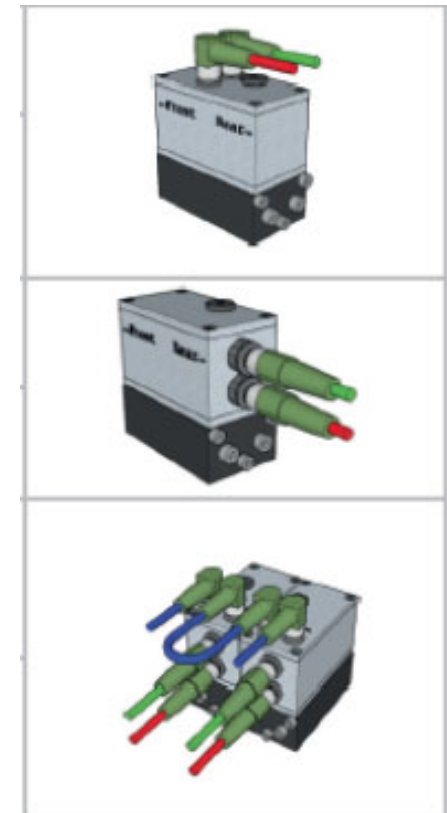
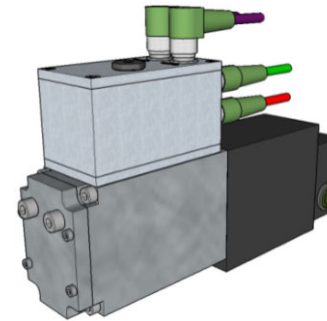
◆ **DAC-4x(A) / DAC-4x** (Digital Amplifier Controller)

- 2 and 2 x 1 – channel version – open-loop applications
- Closed loop applications (valve or process)
- **NEW:** Fully updated DMA-4x(A) → more performance and more features!
- **NEW:** with PROFINET Bus-Interface!
- With Bus-Interface (PROFIBUS)
- With LVDT sensor interface
- Special versions for PQ , PpQ and cylinder force control applications
- Commissioning unit, interface adapter
- Customer specific adaptations (soft- and hardware, brand-labeling)



◆ **ODC-22 (On-Board Digital Controller IP68k)**

- **2 and 2 x 1 – channel version – open-loop applications**
- **Closed loop applications (valve or process)**
- **With Bus-Interface (CANopen)**
- **Customer specific adaptations (soft- and hardware, housing, connectors)**
- **Multiple configurations and adaptations possible**



Facts and Data – Products

◆ **DAP-22 (On-Board Digital Controller)**

- **1 – channel version – open-loop applications**
- **Parameterization via USB interface**
- **With Bus-Interface (CAN-OPEN-BUS)**
- **Customer specific adaptations (soft- and hardware, connectors, cable and flying leads)**
- **Multiple configurations and adaptations possible**



HCS GmbH

Facts and Data – Products



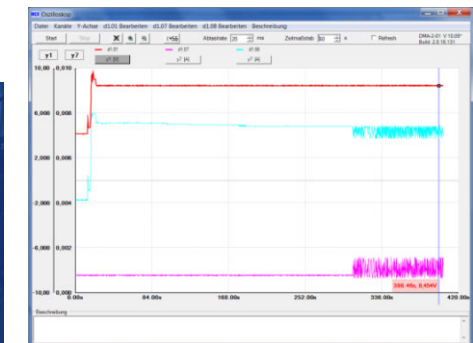
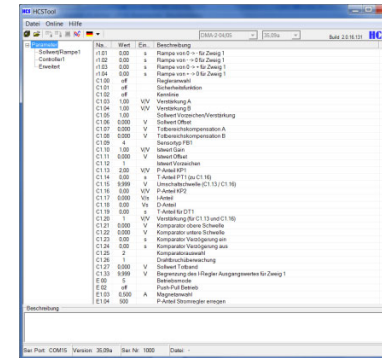
◆ HCSTool (Parameterization-Software)

- For all HCS products universally usable
- 3 languages on installation (D, E, F)
- With integrated oscilloscope-function for DMA modules and DAC-4x(A) boards

- Free of charge download from our web page

www.h-c-s-gmbh.de/download

- Customer specific adaptations possible (Brand-Labeling, foreign languages)

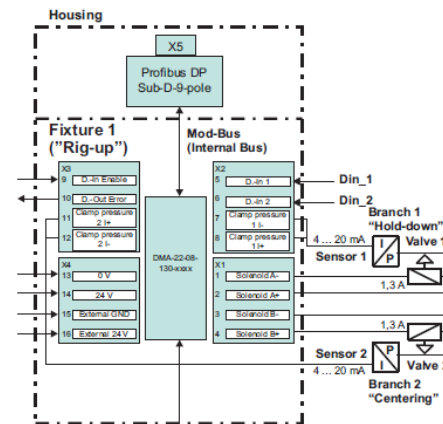


◆ Customer specific (Adaptations, Electronics)

- Brand-Labeling / OEM (DAC, DMA, HCSTool etc.)



- Special Soft- and Hardware



- Engineered to order: fluid technology applications



- Engineered to order: Embedded Control applications

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