

REFERENCES

Since 1981 we are supplier for Aluminium Extrusion plants. We have constructed many control systems for different projects. Following you can find some of the most important:

HYDRO ALUMINIUM NENZING

- Continuous optimisations on all press lines

Pressline P18

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| ➤ Retrofit of rack servicing unit of the log store | 2008 |
| ➤ Renewal and adaptation of the air cooling | 2007 |
| ➤ Complete renewal of PLC for the whole press line | 2005 |
| ➤ Control system for finishing-saw with an additional above lying saw
Supplier of mechanic: Turla | 2003 |
| ➤ PLC-software and start-up for automatic die-handling-system for the P18
Supplier of mechanic: CTI | 1995 |
| ➤ Control View (Allen & Bradley) for
setting parameters, set values and alarm protocolling for the complete
P18-line | 1995 |
| ➤ Master-PLC for interconnecting the process-control-system with the
PLC's. Using 2 data-highways and 2 remote I/O links - P18. | 1994 |
| ➤ Control system for 2 packinglines with FILO buffer for profiles and fully
automatic paperhandling for P18
Supplier of mechanic: Reisch | 1994 |
| ➤ Control system for finishing-saw with gaugetable and rollertracks - P18
Supplier of mechanic: Turla | 1994 |
| ➤ Control system for runout with hotsaw, triplepuller, pinze-system and
stretcher for the whole P18 pressline
Supplier of mechanic: Turla | 1994 |
| ➤ Control system for a fully automatic log-store, log-saw and billet-
manipulator for the P18
Supplier of mechanic: Kasto / Böhler-mbm | 1994 |
| ➤ Working out the rough- and the detail-specification for the P18
pressline regarding PLC, process control system and interfacing
between the different machines | 1993 |

Pressline P16

- Modernisation of the existing press P16
Delivery of a new PLC with software, decentral periphery and start up 1997
- PLC-software and start-up for log-store, log-loader, hot-shear and billet-optimiser 1997

Pressline P22

- Renewal of the Induction heaters 2007/2008
Supplier of mechanic: Junker
- Renewal and adaptation of the air cooling 2007
- Optimisation press control 2006
- Control system for cooling-table including air-cooling-system
Supplier of mechanic: Turla 2004
- Control system for hotsaw
Supplier of mechanic: Reisch 2000
- Control system and visualisation for skip-transport with manipulator
for the transport of the aging oven
Supplier of mechanic: Herrmann & Hieber 2000
- Software for aging oven for company Hofmann 2000
- Reconstruction and extension of the complete packingline P22 1998/1999
- Modernisation of the existing press P22
Delivery of a new PLC with software, decentral periphery and
start-up of the press P22
Supplier of hydraulic: Oilgear Towler 1996/1997
- PLC-software and start-up for log-store, log-loader, hot-shear and
billet-optimiser 1996
- Control system for doublepuller - P22
Supplier of mechanic: Reisch 1993
- Control system for ageing oven - P22 1990
- Control system for caustic bath - P22 1986
- Control system for profile-stacker - P22
Supplier of mechanic: Reisch 1985
- Control system for packingline with destacker and paperhandling - P22
Supplier of mechanic: Reisch 1984

HYDRO ALUMINIUM TOENDER

- Control system for doublepuller with flying saw
Supplier of mechanic: Reisch 1998/1999
- Control system for caustic bath 1988

HYDRO ALUMINIUM LA ROCA

- PLC-software and start-up for log-store, log-loader and billet-optimiser
Supplier of mechanic: Reisch 1995

HYDRO ALUMINIUM BELLENBERG

- Safety control system for final saw including stacker, automatic crane, aging-ovens and packingplant 2005/2006
- Control system and software for aging-ovens
Supplier of mechanic: Unifour 2005/2006
- Control system for billet-handling including billet-heater 2004/2005
- Control system for run-out table
Supplier of mechanic: Reisch 2004
- Modernization roller-conveyor for finishing-saw
Supplier of mechanic: Reisch 2004
- Control system for hot- and specimensaw P22
Supplier of mechanic: Reisch 2002
- Control system for doublepuller
Supplier of mechanic: Reisch 1995/1996
- Control system for the "Müllerautomat" 1996

HYDRO ALUMINIUM PORTALEX

- Transport-conveyer for the transport of profiles between the P22 and the paintingline
Supplier of mechanic: Reisch 2004
- Control system for log-handling/-optimization
Supplier of mechanic: Reisch 2003
- Control system for billet-loader P25
Supplier of mechanic: Reisch 2000
- Control system for billet-loader P20
Supplier of mechanic: Reisch 1999
- Control system for log-ramp and billet-saw with manipulator
Supplier of mechanic: Reisch 1998

HYDRO ALUMINIUM EXTRUSION – BIRTLEY

New Pressline P16

- Control system for a fully automatic log-store and log-saw
Supplier of mechanic: Kasto 1996
- Delivery of billet-manipulator with a buffer for 6 billets,
including control system, mechanical and electrical start-up 1996

New Pressline P32

- Manufacturing and visualization control system (MCVIS) for the
aging ovens and the packing-logistic 1998/1999
- Control system for billet-scrubber 1998
- Control system for spray-quench 1998
- Die-store-manipulator and magazine with a capacity of 6176 dies
with manufacturing and visualization control system for datahandling
and administration 1998/1999
- Head-control system for the P32 pressline and the interfacing between
the different machines containing
the communication network for the whole system
the interface control system (ICS)
the manufacturing control system (MCS) and
the central visualization 1997/1998
- Delivery of billet-manipulator with a buffer for 6 billets,
including control system, mechanical and electrical installation 1997/1998
- Control system for a fully automatic log-store and log-saw
Supplier of mechanic: Kasto 1997/1998
- Working out the rough- and the detailspecifications for the P32
pressline regarding PLC, process-control system and interfacing
between the different machines 1997

HYDRO ALUMINIUM EXTRUSION - BEDWAS

- Control system for the testing-area of the profile stacker with
charging equipment 1997/1998

HYDRO ALUMINIUM UPHUSEN

- Electrical installation and datatransfer for the doublepuller
Supplier of mechanic: Reisch 1995/1996

HYDRO ALUMINIUM RACKWITZ

- Control system for packingplant consisting of two packinglines and skip-transport
Supplier of mechanic: Reisch 2001

HYDRO ALUMINIUM RAEREN

- Update of transport and logisticsystem MCVIS 2008
- Implementation of the "Fabricating" into the existing MCVIS 2006
- Control system for automatic crane III
Supplier of mechanic: Vollert 2005
- Transport- and logisticsystem MCVIS for the transport and storage of profiles at the area of the automatic crane III 2005
- Integration of the profile-calibration-equipment into existing MCVIS 2004
- Reconstruction of the oven-control-systems 2004
- Integration of the aging-ovens into existing MCVIS
Archiving, visualisation, data tracking and evaluation of trends of aging cycles 2003
- Integration of additional conveyer-units into existing packingplant 2003
- Transport- and logisticsystem MCVIS for the transport and storage of profiles 2003
- Control system for packingplant consisting of three packinglines and skip-transport
Supplier of mechanic: Reisch 2001
- Transport- and logisticsystem MCVIS for the transport and storage of profiles 2001

HYDRO ALUMINIUM CHRZANOW

- Optimisations on press line P35 2006

ALCAN SINGEN GMBH

- Control system and process control visualization system MCVIS for the die-oven 2002

ALCAN ALUMINIUM PRESSWERKE BURG GMBH

- Extension of interface between process control visualization system MCVIS and billet-heater 2006
- Control system and process control visualization system MCVIS for billet-handling including replacement of the hot-shear 2005
- Control system for packingline 2004

ALCAN ALUMINIUM PRESSWERKE PFALZ GMBH

- Control system for doublepuller with flying saw for press 20 MN 2001

ALCAN ALUMINIUM PRESSWERKE CRAILSHEIM GMBH

- Renewal of PLC for the final saw at the line P20 2006
- Spacer handling system for the line P20
Supplier of mechanic: Reisch 2006
- Expansion of existing process control system MCVIS for the billet-handling of press-line P20 2005/2006
- Control system and process control visualization system MCVIS for billet-handling 2003

AMAG EXTRUSION ALUMINIUM PRESSWERK GMBH

- Modernization runout P20 2004
- Software and start-up for finish saw P20 2003
- Control system for doublepuller with flying saw
Press 20MN 2000
Press 40MN 1999
Press 27MN 1998
Supplier of mechanic: Reisch

ALU MENZIKEN INDUSTRIE AG

- Billet handling P800
Supplier of mechanic: Extrutec 2007/2008
- Billet handling P1602
Supplier of mechanic oven: Extrutec
Supplier of mechanic hot saw and log handling: RIA 2008
- Interface MCVIS – MES/SAP 2007/2008
- Adaptation and expansion MCVIS 2007/2008
- Software for the modernisation of the induction heater
Supplier of mechanic: I.A.S. 2006
- Refitting of existing transport management system MCVIS
with implementation of dynamic priorities according to actual
process status 2006
- Skip control station - refitting of the PLC and implementation
into existing MCVIS 2006
- Delivery of die-store-manipulator for the transport of the die-ovens
and the press 2002
- Delivery of billet-handling consisting of log-store, log-saw
and billet-manipulator 2002
- Delivery of profil-handling-system consisting of spray-quench,
doublepuller with flying saw, pincer-system, strecher, runout,
finish-saw and air-cooling-system
Supplier of mechanic for puller and pincer: Reisch
Supplier of mechanic for run-out-system: Omav 2002
- Visualization system MCVIS for the whole pressline 2002
- Transport- and logisticsystem MCVIS for the transport and
storage of profiles 2000
- Control system for the transport- and automated system
consisting of conveyor-system and crane-manipulator for the
skip-transport
Supplier of mechanic: Herrmann & Hieber 2000

THÖNI INDUSTRIEBETRIEBE GMBH

- Billet handling P25
Supplier of mechanic: Extrutech 2007/2008
- Control system for 2 skip-manipulators
Supplier of mechanic: Herrmann & Hieber 2004/05
- Control system for 4 packing-lines including conveyor-system
Supplier of mechanic: Herrmann & Hieber 2004/05
- Control system for aging- and die-ovens including transportation
Supplier of mechanic: IUT 2004/05
- Transport- and logisticsystem MCVIS for the transport, aging,
storage and delivery of profiles 2004/05
- Optimisation of press-rest on press line P16 2003

HERMANN GUTMANN WERKE AG

- Doublepuller, air-cooling and water-quench
Supplier of mechanic puller: Reisch
Supplier of mechanic cooling and quench: RIA 2007/2008

PURSO OY

- Doublepuller with air-cooling
Supplier of mechanic puller: Reisch
Supplier of mechanic cooling: RIA 2008