Service-Training for Customers Course program 2025

Geretsried / Pfronten / Seebach



Edition 1 - January 2025

DMU/DMC monoBLOCK

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DMU/DMC monoBLOCK

Control:	Siemens (Variant according to availability)
Course-name:	Mechanics
Course-number:	A-Y225-D
Location:	Pfronten
Duration:	4,5 days
Objective:	The employee acquires the authorisation to carry out service work within the scope of the described seminar contents.
Requirements:	 Completed vocational training in metalwor- king
Work equipment:	- Work clothes, safety shoes
	- Laptop / Network cable at least 5m
Content:	- Safety regulations
	 Basic structure of the milling machine, machine overview
	- Assembly overview and functionality
	- Measuring systems of the machine axes
	- A and C axis, gear pre-tension
	- Adjusting C0 and A0
	- Hydraulic and pneumatic circuits
	- Tool changer (wheel or chain magazine)

- Settings on the tool changer and the corresponding machine parameters. Rescue functions for cancellation and power failure. - Instructions for disassembly/assembly and

- Instructions related to spindle and spindle bearing, tool clamp and rotary transmission

- Resetting maintenance messages using

stretching of the ball screw

leadthrough, cooling circuit. - Data backup on the control

the InspectionsKey



DMG MORI



DMU/DMC monoBLOCK



Control:	Siemens (Variant according to availability)
Course-name:	Electronics
Course-number:	A-Y325-D
Location:	Pfronten
Duration:	4,5 days
Objective:	The employee acquires the authorisation to carry out service work within the scope of the described seminar contents.
Requirements:	- Electrotechnical training
Work equipment:	- Work clothes, safety shoes
	- Laptop / Network cable at least 5m
Content:	- Safety regulations
	 Basic structure of the milling machine, machine overview und EPlan "ELCAD", Pnozmulti
	- Linear and rotary measuring systems
	- Adjusting C0 and A0
	 Tool clamp feedbacks, leakage monitoring, M19 setting
	 Tool changer (chain magazine with Pragati changer)
	 Machine parameters for the tool changer Rescue functions for cancellation and po- wer failure.
	 Diagnosis options of the control systems, inputs, outputs
	 Switching from the direct to the indirect me- asuring system for service purposes
	 Deselection of the motor spindle for spindle replacement
	- Netzwork settings
	- Data backup



DMU/DMC monoBLOCK

Control:	
	Heidenhain (Variant according to availability)
Course-name:	Mechanics
Course-number:	A-Y426-D
Location:	Pfronten
Duration:	4,5 days
Objective:	The employee acquires the authorisation to carry out service work within the scope of the described seminar contents.
Requirements:	 Completed vocational training in metalwor- king Confident handling of laptop and operating
	system
Work equipment:	- Work clothes, safety shoes
	- Laptop / Network cable at least 5m
Content:	- Safety regulations
	 Basic structure of the milling machine, machine overview
	- Assembly group overview and functionality
	- Measuring systems of the machine axes
	- A and C axis, gear pre-tension
	- Adjusting C0 and A0
	 Hydraulic and pneumatic circuits Tool changer (wheel or chain magazine)
	 Settings on the tool changer and the corre- sponding machine parameters. Rescue functions for cancellation and power failure.
	 Instructions for disassembly/assembly and stretching of the ball screw
	 Instructions related to spindle and spindle bearing, tool clamp and rotary transmission leadthrough, cooling circuit.
	- Data backup on the control





DMU/DMC monoBLOCK



Control:	Heidenhain (Variant according to availability)
Course-name:	Electronics
Course-number:	A-Y526-D
Location:	Pfronten
Duration:	4,5 days
Objective:	The employee acquires the authorisation to carry out service work within the scope of the described seminar contents.
Requirements:	- Electrotechnical training
Work equipment:	- Work clothes, safety shoes
	- Laptop / Network cable at least 5m
Content:	- Safety regulations
	 Basic structure of the milling machine, machine overview
	- Assembly group overview and functionality
	- Measuring systems of the machine axes
	- A and C axis, gear pre-tension
	- Adjusting C0 and A0.
	 Switching from the direct to the indirect me- asuring system
	- Tool changer (wheel or chain magazine)
	 Settings on the tool changer and the corre- sponding machine parameters
	 Rescue functions for cancellation and po- wer failure
	 Pallet changer / function sequence / set- tings
	- Data backup on the control
	 Resetting maintenance messages with the InspectionsKey

Schedule overview and registration:



January 2025

DMU/DMC H monoBLOCK

Control:	Siemens (Variant according to availability)
Course-name:	Mechanics
Course-number:	A-Y243-D
Location:	Pfronten
Duration:	4,5 days
Objective:	The employee acquires the authorisation to carry out service work within the scope of the described seminar contents.
Requirements:	 Completed vocational training in metalwor- king
Work equipment:	- Work clothes, safety shoes
	- Laptop / Network cable at least 5m
Content:	- Safety regulations
	 Basic structure of the milling machine, machine overview
	- Assembly group overview and functionality
	- Measuring systems of the machine axes
	- A and C axis, gear pre-tension
	 Adjusting C0 and A0
	 Hydraulic and pneumatic circuits
	 Tool changer (wheel or chain magazine)
	- Settings on the tool changer and the corre- sponding machine parameters. Rescue functions for cancellation and power failure.
	 Instructions for disassembly/assembly and stretching of the ball screw
	 Instructions related to spindle and spindle bearing, tool clamp and rotary transmission leadthrough, cooling circuit.
	- Data backup on the control
	 Resetting maintenance messages using the InspectionsKey





DMU/DMC H monoBLOCK



Control:	Siemens (Variant according to availability)
Course-name:	Electronics
Course-number:	A-Y343-D
Location:	Pfronten
Duration:	4,5 days
Objective:	The employee acquires the authorisation to carry out service work within the scope of the described seminar contents.
Requirements:	- Electrotechnical training
Work equipment:	 Work clothes, safety shoes Laptop / Network cable at least 5m
Content:	 Safety regulations Basic structure of the milling machine, machine overview Linear and rotary measuring systems Adjusting C0 and A0.
	 Tool clamp feedbacks, leakage monitoring, M19 setting
	 Tool changer (chain magazine with Pragati changer)
	 Machine parameters for the tool changer Rescue functions for cancellation and po- wer failure
	 Diagnosis options of the control systems, inputs, outputs
	- Switching from the direct to the indirect me- asuring system for service purposes
	 Deselection of the motor spindle for spindle replacement
	- Netzwork settings
	- Data backup



DMU/DMC duoBLOCK P4

Control:	Siemens (Variant according to availability)	
Course-name:	Mechanics	
Course-number:	A-Y231-D	
Location:	Pfronten	
Duration:	4,5 days	
Objective:	The employee acquires the authorisation to carry out service work within the scope of the described seminar contents.	
Requirements:	 Completed vocational training in metalwor- king 	
Work equipment:	- Work clothes, safety shoes	
	- Laptop / Network cable at least 5m	
Content:	- Safety regulations	
	 Operation of the control and the machine for troubleshooting 	
	- Assembly group overview and functionality	
	 M19 setting, tool changer, settings (change positions), cycled tool magazine and auxili- ary axis, function and settings. Help functi- ons for cancellation and power failure. 	
	 C axis and B axis gear pre-tension, C0 and B0 setting 	
	 Structure and functionality of the pallet changer, settings of switches and hydrau- lics, help functions 	
	 Instructions related to spindle and spindle bearing, tool clamp and rotary transmission lead through, cooling circuit 	
	- Hydraulic and pneumatic diagramn	
	 Instructions for the assembly procedure for the disassembly / assembly of the ball screw, stretchingReckung 	
	 Protocols for geometric measurement of the machine 	
	- Data backup on the control	
	 Resetting maintenance messages with the InspectionsKey 	Sched r





DMU/DMC duoBLOCK P4



Control:	Siemens (Variant according to availability)
Course-name:	Electronics
Course-number:	A-Y331-D
Location:	Pfronten
Duration:	4,5 days
Objective:	The employee acquires the authorisation to carry out service work within the scope of the described seminar contents.
Requirements:	- Electrotechnical training
Work equipment:	Work clothes, safety shoesLaptop / Network cable at least 5m
Content:	 Laptop / Network cable at least 5m Safety regulations Operation of the control and the machine Data backup machine overview, E-Plan "ELCAD", Profibus basics, Pnoz-Multi Linear and rotary measuring systems M19 setting Machine parameters for the assembly group "magazine wheels" Function sequence of the tool changer, tool position check Rescue functions for cancellation and power failure Machine parameters and funktionality for the pallet changer, settings Hydac pressure switch, rescue functions. Field angle determination, FD table C0 and B0 setting Using machine documentation



DMU/DMC 80 duoBLOCK P4

Control:	Heidenhain (Variant according to availability)	
Course-name:	Mechanics	and a
Course-number:	A-Y431-D	
Location:	Pfronten	
Duration:	4,5 days	
Objective:	The employee acquires the authorisation to carry out service work within the scope of the described seminar contents.	
Requirements:	- Completed vocational training in metalwor- king	
Work equipment:	- Work clothes, safety shoes	
	- Laptop / Network cable at least 5m	
Content:	- Safety regulations	
	 Operation of the control and the machine for troubleshooting 	
	- Assembly group overview and functionality	
	 M19 setting, tool changer, settings (change positions), cycled tool magazine and auxili- ary axis, function and settings. Help functi- ons for cancellation and power failure. 	
	 C axis and B axis gear pre-tension, C0 and B0 setting 	
	 Structure and functionality of the pallet changer, settings of switches and hydrau- lics, help functions 	
	 Instructions related to spindle and spindle bearing, tool clamp and rotary transmission lead through, cooling circuit 	
	- Hydraulic and pneumatic diagramn	
	 Instructions for the assembly procedure for the disassembly / assembly of the ball screw, stretching 	
	 Protocols for geometric measurement of the machine 	
	- Data backup on the control	
	 Resetting maintenance messages with the InspectionsKey 	Sch





DMU/DMC 80 duoBLOCK P4



Control:	Heidenhain (Variant according to availability)
Course-name:	Electronics
Course-number:	A-Y531-D
Location:	Pfronten
Duration:	4,5 days
Objective:	The employee acquires the authorisation to carry out service work within the scope of the described seminar contents.
Requirements:	- Electrotechnical training
Work equipment:	- Work clothes, safety shoes
	- Laptop / Network cable at least 5m
Content:	- Safety regulations
	 Operation of the control and the machine for troubleshooting
	 Machine overview, E-Plan "ELCAD", Profi- bus basics, Pnoz-Multi, ET 200 S
	- Linear and rotary measuring systems
	 M19 setting, machine parameters for the assembly group "vertical chain", functiona- lity and settings. Help functions for cancel- lation and power failure
	- C0 and B0 settings
	 Functionality and machine parameters for the pallet changer, settings Hydac pressure switch, help functions
	 Diagnosis options of the control, inputs, outputs, flags, oscilloscope functions
	 Switching from the direct to the indirect me- asuring system for service purposes
	- Measuring system replacement, linear axis
	 Deselection of the motor spindle for spindle replacement
	 Tool clamp feedbacks, leakage monitoring, M19 setting
	 Data backup with TNCREMO_NT, logbook's, service file



DMU/DMC duoBLOCK P4 FD

Control:	Siemens (Variant according to availability)	
Course-name:	Mechanics	
Course-number:	A-Y232-D	
Location:	Pfronten	
Duration:	4,5 days	II.
Objective:	The employee acquires the authorisation to carry out service work within the scope of the described seminar contents.	
Requirements:	 Completed vocational training in metalwor- king 	
Work equipment:	- Work clothes, safety shoes	
	- Laptop / Network cable at least 5m	
Content:	- Safety regulations	
-	- Operation of the control	
	- Data backup on the control	
	 Mechanical overview, functionality of indivi- dual assembly groups 	
	 M19 setting, function sequence of the tool changer, setting (change positions) of the tool changer 	
	 Cycled tool magazine and auxiliary axis, function and settings, rescue functions for cancellation and power failure 	
	 Structure and functionality of the pallet changer, settings of switches and hydrau- lics, rescue functions 	
	 Instructions related to spindle and spindle bearing, tool clamp and rotary transmission leadthrough, cooling circuit 	
	- Hydraulic and pneumatic diagram	
	 Instructions for the assembly procedure for the disassembly / assembly of the ball screw, stretching 	
	 Protocols for geometric measurement of the machine 	
	 Resetting maintenance messages with the InspectionsKey 	Schedule overview and registration:



DMU/DMC duoBLOCK P4 FD



Siemens (Variant according to availability)
Electronics
A-Y332-D
Pfronten
4,5 days
The employee acquires the authorisation to carry out service work within the scope of the described seminar contents.
- Electrotechnical training
 Work clothes, safety shoes Laptop / Network cable at least 5m
 Safety regulations Operation of the control and the machine Data backup Machine overview, E-Plan "ELCAD", Profibus basics, Pnoz-Multi Linear and rotary measuring systems M19 setting Machine parameters for the assembly group "magazine wheels" Function sequence of the tool changer, tool position check Rescue functions for cancellation and power failure Machine parameters and funktionality for the pallet changer, settings Hydac pressure switch, rescue functions. Field angle determination, FD table C0 and B0 setting Using machine documentation



DMU/DMC duoBLOCK P4 FD

Control:	Heidenhain (Variant according to availability)	
Course-name:	Mechanics	R
Course-number:	A-Y432-D	Ш.
Location:	Pfronten	
Duration:	4,5 days	- Et
Objective:	The employee acquires the authorisation to carry out service work within the scope of the described seminar contents.	
Requirements:	 Completed vocational training in metalwor- king 	
Work equipment:	- Work clothes, safety shoes	
	- Laptop / Network cable at least 5m	
Content:	- Safety regulations	
	- Operation of the control	
	- Data backup on the control	
	 Mechanical overview, functionality of indivi- dual assembly groups 	
	- M19 setting, function sequence of the tool changer, setting (change positions) of the tool changer	
	 Cycled tool magazine and auxiliary axis, function and settings, rescue functions for cancellation and power failure 	
	 Structure and functionality of the pallet changer, settings of switches and hydrau- lics, rescue functions 	
	 Instructions related to spindle and spindle bearing, tool clamp and rotary transmission leadthrough, cooling circuit 	
	- Hydraulic and pneumatic diagram	
	 Instructions for the assembly procedure for the disassembly / assembly of the ball screw, stretching 	
	 Protocols for geometric measurement of the machine 	
	- Resetting maintenance messages with the InspectionsKey	Sche



DMU/DMC duoBLOCK P4 FD



Heidenhain (Variant according to availability)
Electronics
A-Y532-D
Pfronten
4,5 days
The employee acquires the authorisation to carry out service work within the scope of the described seminar contents.
- Electrotechnical training
Work clothes, safety shoesLaptop / Network cable at least 5m
 Safety regulations Operation of the control and the machine Data backup Machine overview, E-Plan "ELCAD", Profibus basics, Pnoz-Multi Linear and rotary measuring systems M19 setting Machine parameters for the assembly group "magazine wheels" Function sequence of the tool changer, tool position check Rescue functions for cancellation and power failure Machine parameters and funktionality for the pallet changer, settings Hydac pressure switch, rescue functions. Field angle determination, FD table C0 and B0 setting Using machine documentation



CMX V

Control:	Siemens (Variant according to availability)	CMX 600V
Course-name:	Mechanics	and the
Course-number:	A-Y241-D	
Location:	Geretsried	
Duration:	4,5 days	
Objective:	The employee acquires the authorisation to carry out service work within the scope of the described seminar contents.	
Requirements:	- Completed vocational training in metalwor- king	
Work equipment:	- Work clothes, safety shoes	
	- Laptop / Network cable at least 5m	
Content:	- Safety regulations	
	- Structure and functionality of the machine	
	- Structure and functionality of the individual assembly groups	
	- Geometric set-up of the machine	
	- Structure of the roller guides	
	 Disassembly / assembly of the milling spindle / motor spindle 	
	- Functionality of the internal coolant supply	
	- Functionality of the spindle cooling system	
	- Functionality of the tool clamp	
	- Spindle alignment position	
	- Disassembly / assembly of the drive screw	
	- Adjusting reference points	
	- Functionality of the tool changer	
	- Setting the tool change positions	
	- Service functions / parameters	
	- Maintenance work	
		Schedule ov



CMX V

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Control:	Siemens (Variant according to availability)
Course-name:	Electronics
Course-number:	A-Y341-D
Location:	Geretsried
Duration:	4,5 days
Objective:	The employee acquires the authorisation to carry out service work within the scope of the described seminar contents.
Requirements:	- Electrotechnical training
Work equipment:	Work clothes, safety shoesLaptop / Network cable at least 5m
Content:	 Safety regulations Operation of the control and the machine Structure and functionality of the machine Hardware configuration Structure and function of the individual assembly groups Error list Handling of machine-specific parameters Adjusting reference points Adjustment work on the tool changer Determination of the change positions Procedure for drive module replacement Spindle alignment position Data transfer Service functions Troubleshooting and fault elimination Bus system Various options Data backup





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Control:	Heidenhain (Variant according to availability)	
Course-name:	Mechanics	
Course-number:	A-Y409-D	
Location:	Geretsried	
Duration:	4,5 days	
Objective:	The employee acquires the authorisation to carry out service work within the scope of the described seminar contents.	
Requirements:	 Completed vocational training in metalwor- king 	
Work equipment:	- Work clothes, safety shoes	
	- Laptop / Network cable at least 5m	
Content:	 Safety regulations Structure and functionality of the machine Structure and functionality of the individual assembly groups Geometric set-up of the machine Structure of the roller guides Disassembly / assembly of the milling spindle / motor spindle Functionality of the internal coolant supply Functionality of the spindle cooling system Functionality of the tool clamp Spindle alignment position Disassembly / assembly of the drive screw Adjusting reference points Functionality of the tool changer Setting the tool change positions 	
	 Service functions / parameters Maintenance work 	



DMV



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ety regulations eration of the control and the machine acture and functionality of the machine dware configuration acture and functionality of the individual embly groups or list ndling of machine-specific parameters reference points ustment work on the tool changer ermination of the change positions cedure for drive module replacement ndle alignment position a transfer vice functions ubleshooting and fault elimination a system ious options a backup



DMP 35 / 70

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DMG MORI

Control:	Siemens (Variant according to availability)
Course-name:	Mechanics
Course-number:	A-Y237-D
Location:	Geretsried
Duration:	4,5 days
Objective:	The employee acquires the authorisation to carry out service work within the scope of the described seminar contents.
Requirements:	 Completed vocational training in metalwor- king
Work equipment:	- Work clothes, safety shoes
	- Laptop / Network cable at least 5m
Content:	- Safety regulations
	- Structure and functionality of the machine
	 Structure and functionality of the individual assembly groups
	- Geometric set-up of the machine
	- Structure of the roller guides
	 Disassembly / assembly of the milling spindle
	- Functionality of the spindle cooling
	- Functionality of the tool clamp
	- Spindle alignment position
	- Disassembly / assembly of the drive screw
	- Adjusting reference points
	- Functionality of the tool changer
	- Setting the tool change positions
	- Service functions / parameters





DMP 35 / 70



Control:	Siemens (Variant according to availability)
Course-name:	Electronics
Course-number:	A-Y337-D
Location:	Geretsried
Duration:	4,5 days
Objective:	The employee acquires the authorisation to carry out service work within the scope of the described seminar contents.
Requirements:	- Electrotechnical training
Work equipment:	- Work clothes, safety shoes
	- Laptop / Network cable at least 5m
Content:	- Safety regulations
	- Operation of the control
	- Structure and functionality of the machine
	- Hardware configuration
	 Structure and functionality of the individual assembly groups
	- Error list
	- Parameters
	- Set reference points
	- Adjustment work on the tool changer
	 Setting up the tool changer, change positi- ons
	- Spindle alignment position
	- Data transfer
	- Service functions
	- Troubleshooting and fault elimination
	- Bus system
	- Options
	- Data backup



DMU 40 / DMU 50 3rd Generation

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DMG MORI

Control:	Siemens (Variant according to availability)	
Course-name:	Mechanics	-
Course-number:	A-Y222-D	
Location:	Seebach	
Duration:	4,5 days	
Objective:	The employee acquires the authorisation to carry out service work within the scope of the described seminar contents.	
Requirements:	 Completed vocational training in metalwor- king 	
Work equipment:	- Work clothes, safety shoes	
	- Laptop / Network cable at least 5m	
Content:	- Safety regulations	
	- Structure and functionality of the machine / assembly groups	
	- Geometric set-up of the machine	
	- Structure of the linear guide	
	- Geometric adjustments	
	 Measuring system replacement and path setting 	
	 Structure of the two-axis NC swivelling rotary table with gear (simultaneous table) 	
	 Disassembly and reassembly of the main spindle and setting work 	
	- Service work on the motor spindle	
	 Disassembly and reassembly of the ball screw 	
	- Reference point setting for the rotary axes	
	 Maintenance work instructions 	
	- Kinematics	
	- 3D-QuickSet	
	 Resetting maintenance messages with the InspectionsKey 	
		Sche





DMU 40 / DMU 50 3rd Generation



Control:	Siemens (Variant according to availability)
Course-name:	Electronics
Course-number:	A-Y322-D
Location:	Seebach
Duration:	4,5 days
Objective:	The employee acquires the authorisation to carry out service work within the scope of the described seminar contents.
Requirements:	- Electrotechnical training
Work equipment:	- Work clothes, safety shoes
	- Laptop / Network cable at least 5m
Content:	- Safety regulations
	 Introduction of the control and user inter- face
	 Structure and functionality of the magazine / tool changer
	- Bus system basics
	- Service functions of the control
	- Troubleshooting and fault elimination
	- Component replacement
	 Structure, functionality, diagnosis of the drive system S120
	- Maintenance work instructions



DMU 40 / DMU 50 3rd Generation

Control: Course-name: Course-number: Location: Duration:	Heidenhain (Variant according to availability) Mechanics A-Y422-D Seebach
Course-number: Location:	A-Y422-D
Location:	
	Seebach
Duration:	
Duration.	4,5 days
Objective:	The employee acquires the authorisation to carry out service work within the scope of the described seminar contents.
Requirements:	 Completed vocational training in metalwor- king
Work equipment:	- Work clothes, safety shoes
	- Laptop / Network cable at least 5m
Content:	- Safety regulations
	 Structure and functionality of the machine / assembly groups
	- Geometric set-up of the machine
	- Structure of the linear guide
	- Geometric adjustments
	 Measuring system replacement and path setting
	 Structure of the two-axis NC swivelling rotary table with gear (simultaneous table)
	 Disassembly and reassembly of the main spindle and setting work
	- Service work on the motor spindle
	- Disassembly and reassembly of the ball screw
	- Reference point setting for the rotary axes
	- Maintenance work instructions
	- Kinematics
	- 3D-QuickSet
	- Resetting maintenance messages with the





DMU 40 / DMU 50 3rd Generation



Control:	Heidenhain (Variant according to availability)	
Course-name:	Electronics	
Course-number:	A-Y522-D	
Location:	Seebach	
Duration:	4,5 days	
Objective:	The employee acquires the authorisation to carry out service work within the scope of the described seminar contents.	
Requirements:	 Completed vocational training in metalwor- king 	
Work equipment:	- Work clothes, safety shoes	
	- Laptop / Network cable at least 5m	
Content:	- Safety regulations	
	- Basic handling of TNC 640 with Celos	
	 Overview and functionality of the control hardware in use 	
	- Basics of data backup	
	- Save config data via the control	
	 Data backup with TNCremo (external and internal via control) 	
	- Machine parameters	
	- Structure	
	- editing / creating new parameters	
	 Comparison parameters iTNC530 / TNC640 	
	- Structure and functionality HSCI bus	
	- Basics of Profibus / ASi-bus	
	 Structure and functionality of the tool chan- ger 	
	- Diagnosis options of the control	
	- Worklist	
	- Forcelist	
	- Integrated oscilloscope	
	- online Monitor	
	 Diagnosis and troubleshooting on the PNOZmulti safety switching unit 	
	 Overview of the help and rescue functions of the controller 	

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Schedule overview and registration:

DMU eVo / lin

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DMG MORI

Control:	Siemens (Variant according to availability)	
Course-name:	Mechanics	
Course-number:	A-Y219-D	
Location:	Seebach	
Duration:	4,5 days	As a c
Objective:	The employee acquires the authorisation to carry out service work within the scope of the described seminar contents.	
Requirements:	- Completed vocational training in metalwor- king	
Work equipment:	- Work clothes, safety shoes	
	- Laptop / Network cable at least 5m	
Content:	- Safety regulations	
	 Structure and functionality of the machine / assembly groups 	
	- Geometric set-up of the machine	
	- Structure of the linear guide	
	- Geometric adjustments	
	- Measuring system replacement	
	- Functionality / start-up of the linear drive	
	 Structure of the two-axis NC swivelling rotary table 	
	- Setting of gear pre-tension	
	 Replacement of ROD B axis / reference point setting 	
	- Instruction maintenance work	
	 Motor spindle rotor replacement (EasyChange) 	
	- Service work on the motor spindle	
	- Kinematics	
	- 3D-QuickSet	
	 Resetting maintenance messages with the InspectionsKey 	
		Schedule overview and registration:
		(5) 4× 0/75 4 (5)



DMU eVo / lin



Control:	Siemens (Variant according to availability)
Course-name:	Electronics
Course-number:	A-Y319-D
Location:	Seebach
Duration:	4,5 days
Objective:	The employee acquires the authorisation to carry out service work within the scope of the described seminar contents.
Requirements:	- Electrotechnical training
Work equipment:	- Work clothes, safety shoes
	- Laptop / Network cable at least 5m
Content:	- Safety regulations
	 Introduction of the control and user inter- face
	- Basics of Profibus / ASi-bus
	- Structure and functionality of the chain ma- gazine
	 Adjustment work on the chain magazine with Siemens S110
	 Structure and functionality of the double gripper changer
	- Determining the tool change positions
	- Data backup and network connection
	- Service functions; inputs and outputs
	- Troubleshooting and fault elimination
	 Functionality of the cooling unit
	- Diagnosis using PNOZmuli



DMU eVo / lin

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DMG MORI

Control:	Heidenhain (Variant according to availability)	
Course-name:	Mechanics	
Course-number:	A-Y420-D	
Location:	Seebach	
Duration:	4,5 days	
Objective:	The employee acquires the authorisation to carry out service work within the scope of the described seminar contents.	
Requirements:	- Completed vocational training in metalwor- king	
Work equipment:	- Work clothes, safety shoes	
	- Laptop / Network cable at least 5m	
Content:	- Safety regulations	
Coment.	- Structure and functionality of the machine /	
	assembly groups	
	- Geometric set-up of the machine	
	 Structure of the linear guide 	
	- Geometric adjustments	
	 Measuring system replacement 	
	- Functionality / start-up of the linear drive	
	 Structure of the two-axis NC swivelling rotary table 	
	 Setting of gear pre-tension 	
	 Replacement of ROD B axis / reference point setting 	
	- Instruction maintenance work	
	 Motor spindle rotor replacement (EasyChange) 	
	- Service work on the motor spindle	
	- Kinematics	
	- 3D-QuickSet	
	 Resetting maintenance messages with the InspectionsKey 	
		Schedule overview and registration:



DMU eVo / lin



Control:	Heidenhain (Variant according to availability)
Course-name:	Electronics
Course-number:	A-Y520-D
Location:	Seebach
Duration:	4,5 days
Objective:	The employee acquires the authorisation to carry out service work within the scope of the described seminar contents.
Requirements:	- Electrotechnical training
Work equipment:	 Work clothes, safety shoes Laptop / Network cable at least 5m
Content:	 Safety regulations Introduction of the control and user interface Basics of Profibus / ASi-bus Structure and functionality of the chain magazine Adjustment work on the chain magazine Structure and functionality of the double gripper changer Determining the tool change positions Data backup and network connection Service functions; inputs and outputs Troubleshooting and fault elimination Functionality of the cooling unit Diagnosis using PNOZmuli



DMF

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Control:	Siemens (Variant according to availability)	
Course-name:	Mechanics	
Course-number:	A-Y217-D	
Location:	Geretsried / Seebach	
Duration:	4,5 days	
Objective:	The employee acquires the authorisation to carry out service work within the scope of the described seminar contents.	
Requirements:	 Completed vocational training in metalwor- king 	
Work equipment:	- Work clothes, safety shoes	
	- Laptop / Network cable at least 5m	
Content:	- Safety regulations	
	 Machine overview / structure and functiona- lity 	
	 Re-adjustment of the bed set-up using Le- veltronic 	
	 Disassembly / assembly of the motor spind- le functionality of the internal coolant supply, spindle cooling and tool clamp spindle alignment position 	
	 Functionality of the B axis / gear pre-tensi- on 	
	- Geometric adjustment work	
	- Functionality of the gantry unit	
	 Setting of the tool change positions 	
	- Kinematics with 3D-QuickSet	
	- Scale replacement Z axis and path setting	
	- Gantry setting	
	 Overview of machine maintenance work (Servicekey, if applicable) 	
		Schedule overview an registration:



DMF



Control:	Siemens (Variant according to availability)
Course-name:	Electronics
Course-number:	A-Y317-D
Location:	Geretsried / Seebach
Duration:	4,5 days
Objective:	The employee acquires the authorisation to carry out service work within the scope of the described seminar contents.
Requirements:	- Electrotechnical training
Work equipment:	Work clothes, safety shoesLaptop / Network cable at least 5m
Content:	 Safety regulations Introduction of control and user interface Basics of Profibus / ASi-bus Data backup; Data transfer Network connection of the control Service functions Troubleshooting and fault elimination Set-up work on the tool changer and magazine Determining the tool change positions Tool changer rescue functions


Alignment after collision DMU/DMC monoBLOCK

DMG MORI

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Control:	Control independent	
Course-name:	Advanced Mechanics	
Course-number:	A-Y842-D	
Location:	Pfronten	
Duration:	2,0 days	
Objective:	The employee acquires the authorisation to carry out service work within the scope of the described seminar contents.	
Requirements:	- Experience with DMG machines Machine operator	
Work equipment:	- Work clothes, safety shoes	
Content:	- Checking the machine alignment by means of Niveltronic	
	 Geometric measurements acc. to accep- tance protocol 	
	 Visual inspection of the guides and roller shoes 	
	 Kinematic measurement for 5-axis machines (3D-QuickSet) 	
	 Checking the SW limit switches and tool change positions on Encoder machines 	
	- If necessary, undoing and re-tightening the screws of the spindle flange and checking again.	

Schedule overview and registration:



Alignment after collision DMU/DMC duoBLOCK



Control:	Control independent
Course-name:	Advanced Mechanics
Course-number:	A-Y843-D
Location:	Pfronten
Duration:	2,0 days
Objective:	The employee acquires the authorisation to carry out service work within the scope of the described seminar contents.
Requirements:	- Experience with DMG machines Machine operator
Work equipment:	- Work clothes, safety shoes
Content:	 Checking the machine alignment by means of Niveltronic
	 Geometric measurements acc. to accep- tance protocol
	 Visual inspection of the guides and roller shoes
	 Kinematic measurement for 5-axis machi- nes (3D-QuickSet)
	 Checking the SW limit switches and tool change positions on Encoder machines
	 If necessary, undoing and re-tightening the screws of the spindle flange and checking again.

Schedule overview and registration:



Alignment after collision DMV / DMUeVo/lin / CMX U / CMX V

DMG MORI

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Control:	Control independent	DMC 650 V
Course-name:	Advanced Mechanics	
Course-number:	A-Y841-D	
Location:	Geretsried / Seebach	
Duration:	2,0 days	
Objective:	The employee acquires the authorisation to carry out service work within the scope of the described seminar contents.	
Requirements:	- Experience with DMG machines Machine operator	
Work equipment:	- Work clothes, safety shoes	
Content:	- Checking the machine alignment by means of Niveltronic	
	 Geometric measurements acc. to accep- tance protocol 	
	- Visual inspection of the guides and roller shoes	
	 Kinematic measurement for 5-axis machi- nes (3D-QuickSet) 	
	 Checking the SW limit switches and tool change positions on Encoder machines 	
	 If necessary, undoing and re-tightening the screws of the spindle flange and checking again. 	

Schedule overview and registration:



Individual training

Control:	Control independent
Course-name:	Specific to the customer
Course-number:	A-Yxxx-D
Location:	At DMG MORI Academy or on site at your company
Duration:	As required
Objective:	Individual training is orientated at specific r quirements of the customer It educates you technicians according your needs.
Requirements:	- Depending of training contents:
	 Completed vocational training in metalworking or electrotechnical training
Content:	 If you don't find a training in this cataloug which fits to your requirements, please co tanct us. Togehter we will coordinate the contents and create a course which fits to your needs.
	DMG MORI Academy
	DMG MORI Technium Europe GmbH Lausitzer Straße 7 D - 82538 Geretsried Service Training Customers Mrs. Brigitte Penzl Tel.: +49-8171-817-3302 Fax: +49-8171-817-883302 E-Mail: training.fraesen.service@dmgmori.co

Registration

DMG MORI

Registration and overview of dates at:

https://training.dmgmori.com

or use the QR code on the course page to go directly to the desired course.

If you do not yet have a DMG MORI account, you can register here free of charge in the first step and use all DMG MORI digital services around the clock in the future.

Once you have successfully registered for the training course, you will receive a confirmation email and a link to the training course learning path. There you will receive general information about the training, e.g. also in case of date changes, access to training documents and certificates. We will also send you further information in a separate e-mail in good time.

Terms of Trade

General terms and conditions of DMG MORI Technium Europe GmbH for training services

1. General provisions

- 1.1 The following Terms and Conditions apply to all training services ("Training") offered and provided by DMG MORI Technium Europe GmbH ("Technium Europe") to employees or related persons of traders (Section 14 BGB (German Civil Code)), legal entities under public law or special funds under public law (collectively "Client"). Technium Europe is an affiliate of DMG MORI Co. Ltd. based in Nagoya, Japan.
- 1.2 These General Terms and Conditions of Technium Europe apply exclusively. Deviating, conflicting or supplementary general terms and conditions of the Client become part of the contract only if and to the extent that we have expressly consented to their application.
- 1.3 Conducting Training is part of the contract for supply and commissioning of a machine tool with one of the companies of the DMG MORI Group ("Supply Contract") or of any other agreement concluded directly with Technium Europe ("Training Contract"). A contract between Technium Europe and the Client on the details of conducting such Training is formed only upon confirmation of its registration by Technium Europe or, in the case of a training contract, upon separate confirmation by Technium Europe ("Registration Confirmation"). The Registration Confirmation also serves as a confirmation of attendance by the participant(s) registered by the Client ("Training Participants"). Offer, registration and order confirmation may be issued in writing, by fax or email. Conducting this Training and the relevant conditions are governed by these General Terms and Conditions.
- 1.4 As a rule, Clients register for Training electronically via the DMG MORI Training Portal at https://training.dmgmori.com. This registration is considered a binding contractual offer regarding the details of conducting the Training. If the Client already has a DMG MORI account with the DMG MORI Training Portal, the respective data are already stored there. If the Client does not have a registered DMG MORI account, they can register at https://training.dmgmori.com at their convenience. Registration requires providing the account holder's first and last names, as well as the first and last names of the Training Participant(s) and an e-mail address.
- 1.5 The DMG MORI Training Portal can be used to electronically download completed certificates, by line managers to book in employees, to communicate and provide information on any schedule changes, or to access training documents. The DMG MORI account enables the Client to use any and all DMG MORI digital services 24/7 from any location and any device.
- 1.6 Technium Europe will offer the Training in alignment with the machine tool's delivery date, and will provide suggested dates in a separate e-mail, i.e. not as part of the Registration Confirmation. Details will be set out in the following clauses.

2. Conducting Training

- 2.1 Technium Europe offers Training in the form of face-to-face training at its headquarters or at the Client's premises, Training based on the Client's individual requirements, as well as online Training. Content and scope of the Training services to be provided by Technium Europe are detailed in the offer.
- 2.2 Training is provided by persons commissioned by Technium Europe or by its own employees (collectively, "Trainer"). The Client is not entitled to have Training conducted by a specific Trainer.
- 2.3 Technium Europe only owes the provision of Training services, but not the production of specific works or results.
- 2.4 The Client assumes responsibility for ensuring that their registered Training Participants will fully comply with the Trainer's instructions at all times. If Training is run at the headquarters of DMG MORI, the generally applicable accident prevention rules (as amended) must be observed.
- 2.5 If Training is provided at the Client's premises, unless otherwise agreed, the Client will provide the technical equipment required for the Training (e.g. projector, screen, etc.). If the Training is done using the Client's machines, the Client undertakes to ensure the safety of the work-place, in particular the safety of the machine, to comply with existing safety provisions and to ensure adequate working conditions.
- 2.6 Online Training is provided in real time. Trainer and Training Participants communicate via video chat. Training may be recorded only with the written consent of Technium Europe. The Client is responsible for providing the system requirements (e.g. video chat programs) for conducting the online Training. The Client will receive the login details for online Training together with the Registration Confirmation.
- 2.7 Participants who attend regularly will be issued a certificate of attendance.

3. Remuneration

- 3.1 Remuneration for Training services is based on the conditions agreed in the Supply or Training Contract. The agreed remuneration for the training services also covers the costs of training materials and meals. Remuneration is exclusive of statutory value added tax.
- 3.2 Payment due date and other conditions of payment of the remuneration for Training are governed by the Supply Contract or the agreement stipulated in the Training Contract.



4. Non-paticipant and cacellation

- 4.1 If a Training Participant is unable to attend a Training after a Registration Confirmation has been sent, the Client is obliged to notify Technium Europe in writing of the non-attendance, indicating the Training Participant's name ("Client Cancellation"). The Client may replace a registered Training Participant at any time and at no extra cost with a substitute Participant. However, a free Client Cancellation is possible only up to 7 calendar days prior to the stipulated Training date. In the event of a Client Cancellation within the period of 7 calendar days prior to the scheduled Training date, in addition to the agreed remuneration, Technium Europe is entitled to also claim additional expenses incurred as a result of the Client Cancellation.
- 4.2 If Technium Europe is unable to conduct Training for reasons not under its control (e.g. illness of a Trainer, force majeure), Technium Europe will notify the Client in writing without undue delay upon becoming aware of the Training cancellation and suggest an alternative date. The Client has further claims only in accordance with clause 5.
- 4.3 Training will be conducted only if a minimum of three people have registered to attend it. Otherwise, Technium Europe is entitled to cancel the Training. Technium Europe will notify the Client accordingly in writing without undue delay upon becoming aware.

5. Liability

- 5.1 Technium Europe is liable for any breach of contractual and extra-contractual obligations in accordance with statutory provisions, unless stipulated otherwise below.
- 5.2 Technium Europe is liable for any legal reason whatsoever in the context of tortious liability in the event of intentional wrongdoing or gross negligence. In the event of simple negligence, Technium Europe is only liable
 - a) for damage arising from injury to life, limb or health, or

b) for damage arising from a major breach of a material contractual obligation (obligation, where fulfillment is a prerequisite for the due execution of the contract and where the Client regularly does and may rely on its fulfillment); however, the liability of Technium Europe in such case is limited to compensation for the foreseeable, typically occurring damage.

5.3 The limitations of liability under clause 5.2 also apply in the event of a breach of duty by or in favor of persons whose fault is attributable to Technium Europe in accordance with statutory provisions. They do not apply if Technium Europe has acted fraudulently or has given a guarantee, or in cases of mandatory liability (e.g. under the German Product Liability Act (Prod-HaftG)).

6. Copyright law

Technium Europe owns any and all copyrights to the Training materials. The Training materials may only be used by the Client. The Client may reproduce, distribute, publish or otherwise transfer Training documents to third parties only with the prior written consent of Technium Europe.

7. Final provisions

- 7.1 All legal relationships between Technium Europe and the Client are governed by the laws of the Federal Republic of Germany.
- 7.2 Exclusive place of jurisdiction is Bielefeld.
- 7.3 Should individual provisions of these General Terms and Conditions be ineffective, this will not affect the effectiveness of the remaining provisions. Ineffective provisions are deemed replaced by such effective provisions that are suitable to come nearest to realizing the economic purpose of the ineffective provision. The provisions of clause 7.3 apply accordingly in the event of any unintentional gaps or omissions.

General Terms and Conditions of DMG MORI Technium Europe GmbH for Training Services - valid from 01/2025

DIRECTIONS DMG MORI ACADEMY GERETSRIED DMG MORI





Adress for navigation system: DMG MORI Academy Lausitzer Str. 7 82538 Geretsried

Registration for **course participants**: Main entrance DMG MORI

Contact **service training**: Tel.: +49 8171 / 8173302 E-Mail: <u>training.fraesen.service@dmgmori.com</u>

HOTEL OVERVIEW GERETSRIED

Posthotel Hofherr Hauptstr. 31 82549 Königsdorf Tel.: +49 8179 / 5090 www.posthotel-hofherr.de Distance to company: 6 km

Gasthof Isarwinkel Richard-Wagner-Str. 14 82538 Geretsried Tel.: +49 8171 / 31307 www.isarwinkel-geretsried.de Distance to company: 1,3 km

Landhaus Hotel Sauerlacher Str. 10 82515 Wolfratshausen Tel.: +49 8171 / 216570 www.landhaushotel.de Distance to company: 9,6 km

Hotel am Wald

Austraße 39 83646 Bad Tölz Tel.: +49 8041 / 78830 www.hotel-wald.de Distance to company: 14,2 km

Hotel Servus Gelting Wolfratshauser Str. 24 82538 Geretsried Tel.: +49 8171 / 42520 www.servus-gelting.de Distance to company: 8,6 km

DMG MORI

Hotel Bergblick

Wackersberger Str. 21 83646 Bad Tölz Tel.: +49 8041 / 7994000 www.hotel-bergblick.de Distance to company: 17,1 km

Hotel Isartaler Hof Sauerlacher Str. 47c 82515 Wolfratshausen Tel.: +49 8171 / 2388122 www.hotel-isartaler-hof.de Distance to company: 9,5 km

DMG MORI ACADEMY

DIRECTIONS DMG MORI ACADEMY PFRONTEN

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DMG MORI



Adress for navigation system: DECKEL MAHO-Straße 1 87459 Pfronten Access via Badstraße

Parking area for customers: Parking garage level 5 or in the front of the garage.

Registration for **course participants**: Main entrance gate 1 DECKEL MAHO-Straße 1

Contact **service training**: Tel.: +49 8171 / 817 - 3302 E-Mail: <u>training.fraesen.service@dmgmori.com</u>

HOTEL OVERVIEW PFRONTEN

Alpenhotel Krone

Tiroler Str. 29 87459 Pfronten Tel.: +49 8363 / 69050 www.alpenhotelkrone.de/ Distance to company: 0,9 km

Babel's Auszeit

Am Sonnenhang 3/3a 87459 Pfronten Tel.: +49 8363 / 73201 www.babels-auszeit.de Distance to company: 2,3 km

Hotel Zugspitzblick Edelsbergweg 71 87459 Pfronten Tel.: +49 8363 / 91010 www.zugspitzblick.de Distance to company: 3,4 km

Pension Vendel

Achtalstr. 26 87459 Pfronten-Steinach Tel.: +49 8363 / 92710 www.pension-vendel.de Distance to company: 0,7 km

Landgut Wohlfart-Reich Tiroler Str. 111A 87459 Pfronten-Steinach Tel.: +49 8363 / 5303 www.landgut-wohlfart.de Distance to company: 0,4 km

Alpenlandhaus Carola Dirr Michael-Babel-Str. 3 87459 Pfronten-Steinach Tel.: +49 8363 / 391 www.alpenlandhaus.net Distance to company: 0,6 km

Gasthof Adler

Tiroler Str. 7 87459 Pfronten Tel.: +49 8363 / 927337 www.adlerpfronten.de Distance to company: 1 km

Hotel Bergidyll Römerweg 1 87459 Pfronten-Steinach Tel.: +49 8363 / 8754 www.hotel-bergidyll.com Distance to company: 0,3 km

Gästehaus Gomilar

Mittlerer Hauswang 7 87459 Pfronten Tel.: +49 8363 / 1780 Distance to company: 0,7 km

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Gasthof/ Hotel Aggenstein

Tiroler Str. 124 87459 Pfronten-Steinach Tel.: +49 8363 / 382 www.gasthof-aggenstein.de Distance to company: 0,3 km

Das Landhaus - Schöllner Scheiberweg 15 87459 Pfronten-Steinach Tel.: +49 8363 / 8150 www.daslandhaus-pfronten.de Distance to company: 0,8 km

DMG MORI ACADEMY

DIRECTIONS DMG MORI ACADEMY SEEBACH

DMG MORI





Adress for navigation system: DMG MORI Academy Neue Str. 61 99846 Seebach

Registration for **course participants**: Main entrance (by car) then park on the factory premises

Contact **service training**: Tel.: +49 8171 / 8173302 E-Mail: <u>training.fraesen.service@dmgmori.com</u>

HOTEL OVERVIEW SEEBACH

Vienna House Thüringer Hof

Karlsplatz 11 99817 Eisenach Tel.: +49 3691 / 280 www.viennahouse.de Distance to company: 12,9 km

Rennsteighof Waldhotel

Liebensteiner Str. 108 99891 Winterstein Tel.: +49 36929 / 6020 www.rennsteighof.de Distance to company: 14 km

Aktivhotel Inselsberg

Lauchagrundstr. 64 99891 Tabarz Tel.: +49 36259 / 1230 0 www.aktivhotel-inselsberg.de Distance to company: 12,8 km

Logotel

Karl-Marx-Str. 30 99817 Eisenach Tel.: +49 3691 / 2350 www.logotel.de Distance to company: 13,3 km

Sophien Hotel Sophienstraße 41 99817 Eisenach Tel.: +49 3691 / 251 0 www.goebel-hotels.com/ eisenach/sophienhotel Distance to company: 14,7 km

DMG MORI

Hotel Kaiserhof

Wartburgallee 2 99817 Eisenach Tel.: +49 3691 / 88890 www.kaiserhof-eisenach.de Distance to company: 12,6 km

AKZENT Hotel "Zur Post" e.K.

Lauchagrundstr. 16 99891 Tabarz Tel.: +49 36259 / 6660 www.hotel-tabarz.de Distance to company: 26,7 km

AUSBILDUNG 4.0



VICE TRAINING

HIGHLIGHTS



DMG MORI

- + **Excellent equipment:** High-tech training centers worldwide
- + Latest machine park: State-of-the-art DMG MORI machines
- + **Flexibility:** Training also on your premises
- + **Practical experience:** Highly qualified and certified instructors worldwide
- + Maximum customer satisfaction: Training of over 20,000 course participants a year

DMG MORI Technium Europe GmbH Gildemeisterstraße 60 | D-33689 Bielefeld Tel.: +49 (0) 52 05/74 – 2501 E-Mail: academy@dmgmori.com

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