

Product Information

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		OMATIVE ACM OFFLINE	
Adaptive control system as integrated softw solution for the SIEMENS 840DSI	are	HCH Status: CONTROL Program: BORIS Overload Operation Spindle Image: Control of the sector of the sec	
Description	OMATIVE AC system integr the Siemens based and Lir	CM (integrated solution) is an adaptive, real-time control rated with the SIEMENS 840DSL controller, working with software on the machine, available either as a Windows- nux-based system.	
Applications	Machining (single items as well as mass production) with varying cutting conditions, such as dimensional variations on castings or forgings, fluctuating material hardness and material structure, contours with fluctuating depths of cut, difficult to machine materials (for example stainless steels, tool steels); heavily varying surfaces (hard casting skin, saw cuts), and cutter wraps		
Feed control	The starting p to 100%. ACI spindle to c conditions, ar 80% or 150%	point is always the programmed feed, which corresponds M systems use the measured load values from the work calculate the optimal feed under the current cutting and then regulates the feed rate up or down (for example, b).	
Hardware and software requirements	 SINUMERIK 840D PCU50 or higher SINUMERIK 840D NCU 572.x or 573.x or higher SINUMERIK 840D NCK software version 06.05.00 or higher SINUMERIK 840D HMI software version 06.03.15 or higher Compile cycle "Integrated Adaptive Control Technology" as loadable ELF file IMD-Base version 02.02.00 or higher 		
Operating modes (optional)	Adaptive feMonitoringEvent record	ed control and tool break detection and tool break detection rding	
Monitorable tools	Basically all, processing of	as long as the power consumption differs during the the idle power	
Number of monitorable (driven) spindles	Up to two pro have up to 3 r	cessing channels can be monitored (each channel can milling spindles or turning spindles)	

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OMATIVE ACM Integrated Software Solutions

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Options for starting the control system	ACM "start" command from the NC programACM tool changeCNC tool change	
Considered factors for optimizing the feed	 Monitored power consumption Workpiece material (from materials library or learned) Tool type (from tool library or learned) Cutting depth, workpiece diameter, and cutting angle Programmed feed Programmed speed 	
Feed electives	From 0 to 150%	
Load measurement (power consumption of each work spindle)	Power signal is transmitted internally by the CNC	
Control feed information	Passed internally to the CNC	
Detection of tool overload	If the maximum load limit is exceeded	
Time until reaction (if tool overload)	Machine-dependent programmable control cycle (typically 4-8 milliseconds)	
Possible reactions to tool overload (selectable)	 Immediate stop of the machine Warning lamp for the operator Stop after completing the editing process Stop as soon as the tool is in the air 	
Possible reactions to a heavily worn tool (selectable)	Display of the wear statusWarning lamp after completing the machining processStop at program end	
Detection of tool breakage	Learning cut + one production pass must be made first	
Reaction to tool breakage	Stop the machine	
Report options	Results of individual operations can be read on the display of the CNC. More extensive evaluations are possible with OMATIVE-Pro software.	
Data entry / administration	Using the keyboard and mouse of the CNC On a PC, the data transfer can then be done across a network	