

CTM V6 and Genior Modular compare



General properties

Breakage and missing monitoring	X	X
Wear monitoring	X	X
Adaptive Control	X	X
Setting customized limits	X	
Visualization	X	X
Analysis	X	
Statistical data analysis	X	
Process documentation	X	
Possible without PCI slot		X
Possible without parameterization		X
Low parameterization	X	X
Connectivity for sensors available	X	X
Mass production applications	X	X
Single parts and small series production applications (< 10 parts)	X	
Number of NC channels per system/maximum	4/32	10/8
Number of signals per system with DTA	8	16
Number of signals per system with sensors	4	24
Trend workpiece counter	x	

Tools/ Processes

Drilling > 3 mm	X	X
Milling	X	X
Hobbing	X	(X)
Thread cutting	X	X
Thread gauging	X	
Turning	X	X
Step drilling	X	X
Deep hole drilling	X	X
Smoothing	X	
Small tools <3 mm	X	X

Strategies

Standard	X	
Fluid strategy	X	
Window technology	X	
Hobbing	X	
DX/DT	X	
Adaptive Control	X	X
GAP control/material contact/cut	X	
Self-adjusting monitoring (SAS, Genior Modular)	X	X
Adapting to complex manufacturing processes	X	
Machine status monitoring	X	
Collision monitoring / machine protection	X	

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Integration	Siemens 840D Solutionline with TCU	X	X
	Siemens 840D Powerline	X	X
	Heidenhain, MTX, Beckhoff, Fidia	X	
	FOCAS Manager (solution for Fanuc controls)	X	
	Profibus	X	X
	Profinet (via adapter, no TPM)	X	
	External sensors	X	X
	DIN-rail mounting	(X)	X
	Ethernet interface	X	X
Sensors	Feed (SANtec ring sensor and plate sensor)	X	X
	Digital torque (DTA)	X	X
	Presence (Marposs laser)	X	
	Fluid (coolant flow)	X	(X)
	Force	X	X
	Acoustic emission	X	X
	Vibration	X	X
	Torque and force on the tool holder (DDU)	X	X
	Resistor monitoring	X	
	True power	X	X
	Standard sensors voltage signal 0...10V	X	X
	Standard sensors current signal 4...20 mA		(X)
Machines	Lathes	X	X
	Milling machines	x	X
	Machining centers	X	X
	Multi-spindle machines	X	X
	Gear hobbing machines	X	
Application areas/ Sectors	Automotive	X	X
	Aviation, aerospace	X	
	Windpower	X	

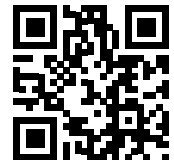


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