Lathe System Variable List, Alphabetic

P3 Ckd | oem | new codes since last release, released: Oct 13 :

	man	Var	suffix	Description of system variable
				Highlights P300L-S Specific codes
p	list	VACMD		Collision Avoidance System Collision check mode
o	lstJ	VADD		(Reserved)
p	list	VAHMX	[1]	ATC Home (G21): Select X-axis move order
p	list	VAHMY	[1]	ATC Home (G21): Select Y-axis move order
p	list	VAHMZ	[1]	ATC Home (G21): Select Z-axis move order
p	list	VAHPX	[1]	ATC Home (G21): X-axis position
p	list	VAHPY	[1]	ATC Home (G21): Y-axis position
p	list	VAHPZ	[1]	ATC Home (G21): Z-axis position
p	list	VAOFX	r/o	X-axis Attachment Turning Offset Amount (Actual usage)
p	list	VAOFY	r/o	Y-axis Attachment Turning Offset Amount (Actual usage)
p	list	VAOFZ	r/o	Z-axis Attachment Turning Offset Amount (Actual usage)
p	AB216	VAPAB	r/o	B-axis (contouring) actual position (machine coordinate system)
p	AB216	VAPAC	r/o	C-axis actual position (machine coordinate system)
p	AB216	VAPAS	r/o	Spindle actual position (machine coordinate system) (rotating= -1)
p	AB216	VAPAW	r/o	W-axis actual position (machine coordinate system)
p	multP2	VAPAX	r/o	X-axis actual position (machine coordinate system)
p	list	VAPAZ	r/o	Z-axis actual position (machine coordinate system)
p	5295	VAPPB	r/o	Tool retract intervention point in B-axis
p	5295	VAPPC	r/o	Tool retract intervention point in C-axis
p	5295	VAPPW	r/o	Tool retract intervention point in W-axis
p	spc	VAPPX	r/o	Tool retract intervention point in X-axis
p	5295	VAPPY	r/o	Tool retract intervention point in Y-axis
p	spc	VAPPZ	r/o	Tool retract intervention point in Z-axis
p	list	VAPXD	r/o	NC-Steady: XD-axis actual position (machine coordinates)
p	list	VAPXE	r/o	NC-Steady: XE-axis actual position (machine coordinates)
p	list	VAPXF	r/o	NC-Steady: XF-axis actual position (machine coordinates)
p	AB216	VAPYI	r/o	YI-axis actual position (machine coordinate system)
p	list	VAPYS	r/o	YS-axis actual position (machine coordinate system)
p	list	VAPZD	r/o	NC-Steady: ZD-axis actual position (machine coordinates)
p	list	VAPZE	r/o	NC-Steady: ZE-axis actual position (machine coordinates)
p	list	VAPZF	r/o	NC-Steady: ZF-axis actual position (machine coordinates)
p	list	VASTP		ATC sequence number (1 to # of steps)
p	list	VATAT	[1], r/o	Attachment Information
p	list	VATCX	[1]	X-axis attachment turning offset amount
p	list	VATCY	[1]	Y-axis attachment turning offset amount
p	list	VATCZ	[1]	Z-axis attachment turning offset amount
p	list	VATNO	r/o	Designated Attachment number
p	list	VATNT	r/o	Attachment Number
p	list	VAUXT	r/o	Auxiliary tool number
p	gag	VBCDE		BCD error / Measured value- Post process input screen
p	list	VBINE	r/o	B-axis Independent encoder APA (P-control)
p	5068S	VBLCS	r/o	Backlash for Steady Rest
p	list	VBLCX		Backlash value: X-axis
p	list	VBLCY		Backlash value: YS-axis
p	list	VBLCZ		Backlash value: Z-axis
p	5295	VBNCT		Block number count or not count, (Tool Retract P-100)
p	list	VBOXD	r/o	NC Steady: XD Machine Zero- Base system
p	list	VBOXE	r/o	NC Steady: XE Machine Zero- Base system
p	list	VBOXF	r/o	NC Steady: XF Machine Zero- Base system
p	list	VBOZD	r/o	NC Steady: ZD Machine Zero- Base system
p	list	VBOZE	r/o	NC Steady: ZE Machine Zero- Base system

Lathe System Variable List, Alphabetic

P3 Ckd | oem | new codes since last release, released: Oct 13 :

	man	Var	suffix	Description of system variable
p	list	VBOZF	r/o	NC Steady: ZF Machine Zero- Base system
p	pgm	VBZOB	r/o	B-axis Machine Zero- Base system (parameter)
p	pgm	VBZOC	r/o	C-axis Machine Zero- Base system (parameter)
p	pgm	VBZOW	r/o	W-axis Machine Zero- Base system (parameter)
p	pgm	VBZOX	r/o	X-axis Machine Zero- Base system (parameter)
p	pgm	VBZOY	r/o	Y-axis Machine Zero- Base system (parameter)
p	pgm	VBZOZ	r/o	Z-axis Machine Zero- Base system (parameter)
p	list	VCAC1		C-axis Joint, 1st Spindle Engaged
p	list	VCAC2		C-axis Joint, 2nd Spindle Engaged
p	gag	VCDIR	r/o	C-axis rotation direction
p	gag	VCEJM	[1]	CEJ MATIC read data 0 to 99999.999 1 to 12
p	5569	VCHCA		Linear sensor Chuck Position
p	list	VCHCB		Chuck B track position
p	list	VCHIO		Chuck ID grip/OD grip changeover data
p	pgmP2	VCHKD		Chuck jaw dimension D1 (active spindle)
p	pgmP2	VCHKL		Chuck jaw dimension L1 (active spindle)
p	pgmP2	VCHKX		Chuck jaw position CX (active spindle)
p	pgmP2	VCHKZ		Chuck jaw position CZ (active spindle)
p	list	VCHPW		Work Support: Chucking Position
p	list	VCHSW		Chuck work/between-centers work changeover data
p	list	VCINE	r/o	C-axis Independent Encoder APA
p	list	VCINR		Mac-Navi L-g: Inertia set
p	list	VCKD1		Chuck Jaw Dimension D1 of 1st spindle
p	list	VCKD2		Chuck Jaw Dimension D1 of 2nd spindle
p	list	VCKL1		Chuck Jaw Dimension L1 of 1st spindle
p	list	VCKL2		Chuck Jaw Dimension L1 of 2nd spindle
p	list	VCKLG		Chuck Length
p	list	VCKRL	r/o	(no description)
p	list	VCKX1		X-axis Distance from Program Origin of 1st Spindle
p	list	VCKX2		X-axis Distance from Program Origin of 2nd Spindle
p	list	VCKZ1		Z-axis Distance from Program Origin of 1st Spindle
p	list	VCKZ2		Z-axis Distance from Program Origin of 2nd Spindle
o	lstJ	VCNGB		(no description)
p	list	VCNGC		Post-process gauging NG consecutive counter 0 to 255
p	5338	VCNRR		Corner Radius (print roll gauging/cutting function)
p	list	VCNZB		ZB-axis command target point (machine coordinate system)
o	lstJ	VCPCK		Cutting Edge Local. Measure. Completion (VTR 2:1 Angle head)
p	gag	VCPFI	r/o	Sensor Contact Status in G30 skip cycle
p	spc	VCPPH		Opposite Spindle C-axis Phase difference
p	list	VCTFN	[1], r/o	Work Preparation Finish (P-control)
p	list	VCYTQ		Chuck Clamping Force
p	pgm	VDGID		Tool Index flag, (Group), TD mode
p	pgm	VDGSL		Tool Number, (Group), TD mode
p	pgm	VDGTP		Edge Number, (Group), TD mode
p	list	VDIFX	r/o	DIF in X-axis
p	list	VDIFZ	r/o	DIF in Z-axis
	pgm	VDIN	[1234]	Input Data Variables
	pgm	VDOUT	[1234]	Output Data Variables
p	pgm	VDNRX		X-axis Nose-R comp. TD mode
p	pgm	VDNRY		Y-axis Nose-R comp. TD mode
p	pgm	VDNRZ		Z-axis Nose-R comp. TD mode
p	list	VDOFW		Drill Length Offset (OPLW. 119)

Lathe System Variable List, Alphabetic

P3 Ckd | oem | new codes since last release, released: Oct 13 :

	man	Var	suffix	Description of system variable
p	pgm	VDPCX		X-axis Tool Adjustment offset, TD mode
p	pgm	VDPCY		Y-axis Tool Adjustment offset, TD mode
p	pgm	VDPCZ		Z-axis Tool Adjustment offset, TD mode
p	5243	VDRMA		NC / Ball-screw front door- middle position
p	pgm	VDTCA		Tool Life Actual Wear amount, TD mode
p	pgm	VDTFX		X-axis Tool offset, TD mode
p	pgm	VDTFY		Y-axis Tool offset, TD mode
p	pgm	VDTFZ		Z-axis Tool offset, TD mode
p	pgm	VDTNG		Tool Life Measurement NG, TD mode
p	pgm	VDTWX		X-axis Tool Wear amount, TD mode
p	pgm	VDTWZ		Z-axis Tool Wear amount, TD mode
p	list	VECWM	r/o	Cross rail auto positioning M-code
p	spc	VEINT		Interruption permitted axis command
p	gag	VETFX	r/o	Presently used tool offset amount in X-axis
p	gag	VETFY	r/o	Presently used tool offset amount in YI-axis
p	gag	VETFZ	r/o	Presently used tool offset amount in Z-axis
p	gag	VETLN	r/o	Tool number of Active tool (turret/station index) (TN00)
p	mult	VETLP		Current Used Edge Number (Multi-edge Tool Index Opt., Mac/Mult)
p	gagP2	VETON	r/o	Tool offset number of Active tool
p	list	VETZB		Presently used tool offset amount in ZB-axis
p	gag	VEXAX	[1]	RS232C post-process gauging axis 0/1
p	gag	VEXDR		RS232C post-process gauging data end variable 0/80 None
p	gag	VEXFB	[1]	RS232C post-process gauging feedback value 0 to 999999
p	gag	VEXGF	[1]	RS232C post-process gauging group flag
p	gagP2	VEXOG	[1]	RS232C post-process gauging offset group number 0 to 3
p	gag	VEXOK	[1]	RS232C post-process gauging result 0/1
p	gag	VEXPO	[1]	RS232C post-process gauging point 0 to 9
p	gagP2	VEXTO	[1]	RS232C post-process gauging tool offset number 0 to 32
p	gag	VEXTR	[1]	RS232C post-process gauging turret
p	spc	VFLTC		Same Rotation speed cutting path number (M1211)
p	pgm	VFLTP		Spindle speed variation cycle (P)
p	pgm	VFLTQ		Spindle speed variation amplitude (Q)
p	pgm	VFLTR		Interval timer (R)
p	spc	VFLTW		Spindle Rotation deviation range (OPW. 139/140) (M1211)
p	6226	VGINB	r/o	Tool Index Flag, tool life expired tool (Sub-magazine spec)
p	spcP2	VGRA1	[1]	Tool nose angle 0 to 360.000 (Group)
p	spcP2	VGRA2	[1]	Cutting edge angle 0 to 360.000 (Group)
p	list	VGRAG	[1]	Tool Holder: Slant Angle of Holder (Group)
p	spcP2	VGRD	[1]	Tool holder dia./drill dia. 0 to 9999.999 (Group)
p	multP2	VGRFB	[1]	Vertical position index: Tool form code number (Group)
p	spcP2	VGRFN	[1]	Tool form code number 0 to 12
p	multP2	VGRIB	[1]	Vertical position index: Tool classification code number (Group)
p	gag	VGRID	[1]	Tool index occurrence variable (group tools)
p	spcP2	VGRIN	[1]	Tool classification code number 1 to 38 (Group)
p	spcP2	VGRL	[1]	Tool holder length/projection/drill length (Group)
p	list	VGRLF	[1]	Tool life variable (group tools)
p	list	VGRND	[1]	Tool point diameter (Group)
p	multP2	VGRNR	[1]	Nose radius of Button tool (Group)
p	5457	VGRPA	[1]	Base position index: Tool Form position (Group)
p	5457	VGRPB	[1]	Vertical position index: Tool Form position (Group)
p	gag	VGRSL	[1]	Tool number selected in the group 0 to 96 1 to 12
p	mult	VGRTP	[1]	Edge Number for Group (Multi-edge Index opt.)

Lathe System Variable List, Alphabetic

P3 Ckd | oem | new codes since last release, released: Oct 13 :

	man	Var	suffix	Description of system variable
p	spcP2	VGRW	[1]	Tool width (Group)
p	list	VHMPW		Work Support: Zero Position
p	list	VHPMX	[1]	Home Pos. (G20): Select X-axis to move
p	list	VHPMY	[1]	Home Pos. (G20): Select Y-axis to move
p	list	VHPMZ	[1]	Home Pos. (G20): Select Z-axis to move
p	list	VHPPX	[1]	Home position (G20): X-axis position
p	list	VHPPY	[1]	Home position (G20): Y-axis position
p	list	VHPPZ	[1]	Home position (G20): Z-axis position
p	5318	VIMDR	r/o	In-process gauging data reading set (P-control), Sensor Contact signal
p	gag	VIMDX	[1]	X-axis in-process gauging data
p	gag	VIMDY	[1]	Y-axis in-process gauging data
p	gag	VIMDZ	[1]	Z-axis in-process gauging data
p	list	VIMPB		Panel Input of in-process gauge (push button)
p	list	VINPB		Droop amount in B-axis
p	pgm	VINPC		Droop amount in C-axis
p	4373	VINPW		Droop amount in W-axis
p	pgm	VINPX		Droop amount in X-axis
p	yax	VINPY		Droop amount in Y-axis
p	pgm	VINPZ		Droop amount in Z-axis
p	list	VIPXD		Droop amount in XD-axis, NC Steady
p	list	VIPXE		Droop amount in XE-axis, NC Steady
p	list	VIPXF		Droop amount in XF-axis, NC Steady
p	list	VIPZD		Droop amount in ZD-axis, NC Steady
p	list	VIPZE		Droop amount in ZE-axis, NC Steady
p	list	VIPZF		Droop amount in ZF-axis, NC Steady
	pgm	VIRD	[1234]r/o	Input Read Condition, I/O status
p	5457	VITD1		Tool-ID: Nose-R compensation 1
p	5457	VITD2		Tool-ID: Nose-R compensation 2
p	5457	VITF1		Tool-ID: Geometry offset 1X
p	5457	VITF2		Tool-ID: Geometry offset 1Y
p	5457	VITF3		Tool-ID: Geometry offset 1Z
p	5457	VITF4		Tool-ID: Geometry offset 2X
p	5457	VITF5		Tool-ID: Geometry offset 2Y
p	5457	VITF6		Tool-ID: Geometry offset 2Z
p	5457	VITGN	r/o	Tool-ID: Read the 8-digit Internal tool group number
p	5457	VITOL	r/o	Tool-ID: Read the 12-digit Internal tool number
p	5457	VITP1		Tool-ID: Nose-R pattern 1
p	5457	VITP2		Tool-ID: Nose-R pattern 2
p	5457	VIWF1		Tool-ID: Tool wear ofset value 1X
p	5457	VIWF2		Tool-ID: Tool wear ofset value 1Z
p	5457	VIWF3		Tool-ID: Tool wear ofset value 2X
p	5457	VIWF4		Tool-ID: Tool wear ofset value 2Z
p	list	VJWLG		Jaw Length
p	OEG	VKND1	[1], r/o	Turret tool information 1, Tool Type (L,M,S,D)
p	OEG	VKND2	[1], r/o	Turret tool information 2, Tool Size (H,E,L,R)
p	list	VLDRP	B	Loader Escape position
p	list	VLDWA		Torque Ratio of Generation in W-axis
p	list	VLFED	r/o	Cutting feed unit amount
p	list	VLKST	B	Warming up Cycle ON
p	list	VLMB1	[1]	First limit value for load monitor data, SB-axis
p	list	VLMB2	[1]	Second limit value for load monitor data, SB-axis
p	list	VLMBB	[1]	Base value for load monitor data, SB-axis

Lathe System Variable List, Alphabetic

P3 Ckd | oem | new codes since last release, released: Oct 13 :

	man	Var	suffix	Description of system variable
p	list	VLMC1	[1]	First limit value for load monitor data, C-axis
p	list	VLMC2	[1]	Second limit value for load monitor data, C-axis
p	list	VLMCB	[1]	Base value for load monitor data, C-axis
p	list	VLMCW		Lost Motion Comp Variable arc pattern W-axis
p	spc	VLMCX		Lost Motion Comp Variable arc pattern X-axis
p	spc	VLMCY		Lost Motion Comp Variable arc pattern YS-axis
p	spc	VLMCZ		Lost Motion Comp Variable arc pattern Z-axis
p	list	VLMD1	[1]	First limit value for load monitor data, Cb-axis
p	list	VLMD2	[1]	Second limit value for load monitor data, Cb-axis
p	list	VLMDB	[1]	Base value for load monitor data, Cb-axis
p	list	VLMM1	[1]	First limit value for load monitor data, M-axis
p	list	VLMM2	[1]	Second limit value for load monitor data, M-axis
p	list	VLMMB	[1]	Base value for load monitor data, M-axis
p	spc	VLMON	[1]	Load monitoring axis command 0 to 256, 1 to 64
p	list	VLMS1	[1]	First limit value for load monitor data, Main spindle
p	list	VLMS2	[1]	Second limit value for load monitor data, Main spindle
p	list	VLMSB	[1]	Base value for load monitor data, Main spindle
p	list	VLMT1	[1]	First limit value for load monitor data, B-axis
p	list	VLMT2	[1]	Second limit value for load monitor data, B-axis
p	list	VLMTB	[1]	Base value for load monitor data, B-axis
p	list	VLMW1	[1]	First limit value for load monitor data, W-axis
p	list	VLMW2	[1]	Second limit value for load monitor data, W-axis
p	list	VLMWB	[1]	Base value for load monitor data, W-axis
p	list	VLMX1	[1]	First limit value for load monitor data, X-axis
p	list	VLMX2	[1]	Second limit value for load monitor data, X-axis
p	list	VLMXB	[1]	Base value for load monitor data, X-axis
p	list	VLMY1	[1]	First limit value for load monitor data, Y-axis
p	list	VLMY2	[1]	Second limit value for load monitor data, Y-axis
p	list	VLMYB	[1]	Base value for load monitor data, Y-axis
p	list	VLMZ1	[1]	First limit value for load monitor data, Z-axis
p	list	VLMZ2	[1]	Second limit value for load monitor data, Z-axis
p	list	VLMZB	[1]	Base value for load monitor data, Z-axis
p	2spH	VLRG	[1]	Loader register data 0 to 32767
p	list	VLVV	[1]	Loader Point Data-V
p	2spH	VLXV	[1]	Loader Point Data-X
p	2spH	VLYV	[1]	Loader point data Y-axis 1 to 99
p	2spH	VLZV	[1]	Loader point data Z-axis
p	gag	VMCN	[1]	Gauging counter 0 to 9999, 1 to 32 (parameter page)
p	5283	VMCNO	r/o	Machine number for DNC-C ethernet
p	list	VMCNO		Opposite Spindle C-axis Phase difference
p	gag	VMDT	[1]	A/B turret data transfer variable (not visible)
p	list	VMENG		Gauging result NG
p	list	VMEOK		Measurement signal OK
p	list	VMESL		Measurement number
p	list	VMFLP		M-spindle: Speed variation cycle (P)
p	list	VMFLQ		M-spindle: Speed variation amplitude (Q)
p	list	VMFLR		M-spindle: Interval timer (R)
p	list	VMIRX	r/o	X-axis Coordinate system direction match flag (0:match, 128: mismatched)
p	gag	VMIRY	r/o	Y-axis Coordinate system direction match flag (0:match, 128: mismatched)
p	list	VMIRZ	r/o	Z-axis Coordinate system direction match flag (0:match, 128: mismatched)
p	list	VMIXD	r/o	NC Steady: XD-axis Coordinate system direction match flag (0:OK, 128: NG)
p	list	VMIXE	r/o	NC Steady: XE-axis Coordinate system direction match flag (0:OK, 128: NG)

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P3 Ckd | oem | new codes since last release, released: Oct 13 :

	man	Var	suffix	Description of system variable
p	list	VMIXF	r/o	NC Steady: XF-axis Coordinate system direction match flag (0:OK, 128: NG)
p	list	VMIZD	r/o	NC Steady: ZD-axis Coordinate system direction match flag (0:OK, 128: NG)
p	list	VMIZE	r/o	NC Steady: ZE-axis Coordinate system direction match flag (0:OK, 128: NG)
p	list	VMIZF	r/o	NC Steady: ZF-axis Coordinate system direction match flag (0:OK, 128: NG)
p	multP2	VMLCK		Machine Lock engaged, 0/128 (U100 & newer)
p	list	VMLP1	[1]	M-axis Spindle life: M-axis Max speed
p	list	VMLP2	[1]	M-axis Spindle life: Coefficient A
p	list	VMLP3	[1]	M-axis Spindle life: Coefficient B1
p	list	VMLP4	[1]	M-axis Spindle life: Coefficient B2
p	list	VMLP5	[1]	M-axis Spindle life: Initial Setting
p	list	VMNA1	[1]	MIN in tool nose form code table A1
p	list	VMNA2	[1]	MIN in tool nose form code table A2
p	list	VMSCH	r/o	Cutting ST- side chuck confirmation (Law-V ACC)
p	list	VMSRA	[1]	M-axis Spindle life: M-axis bearing lifetime counter reset, Attachment
p	list	VMSRT		M-axis Spindle life: M-axis bearing lifetime counter reset
p	multP2	VMTTL	r/o	MT designated tool number
p	multP2	VMTTR	r/o	MT designated turret number (H1: 0-1)
p	list	VMXA1	[1]	MAX in tool nose form code table A1
p	list	VMXA2	[1]	MAX in tool nose form code table A2
p	list	VNINR		Mac-Navi L-g: Inertia set value
p	list	VNLDD		No-load detection enable / disable
p	list	VNLXD		NC Steady: Negative variable limit on XD-axis (mach coordinate system)
p	list	VNLXE		NC Steady: Negative variable limit on XE-axis (mach coordinate system)
p	list	VNLXF		NC Steady: Negative variable limit on XF-axis (mach coordinate system)
p	list	VNLZD		NC Steady: Negative variable limit on ZD-axis (mach coordinate system)
p	list	VNLZE		NC Steady: Negative variable limit on ZE-axis (mach coordinate system)
p	list	VNLZF		NC Steady: Negative variable limit on ZF-axis (mach coordinate system)
p	list	VNRPA	[1]	First spindle base pos/pos A Nose radius compensation pattern
p	list	VNRPB	[1]	First spindle vertical pos/pos A Nose radius compensation patten
p	list	VNRPC	[1]	Second spindle base pos/pos A Nose radius compensation pattern
p	list	VNRPD	[1]	Second spindle vertical pos/pos A Nose radius compensation patten
p	list	VNRPE	[1]	First spindle base pos/pos B Nose radius compensation pattern
p	list	VNRPF	[1]	First spindle vertical pos/pos B Nose radius compensation patten
p	list	VNRPG	[1]	Second spindle base pos/pos B Nose radius compensation pattern
p	list	VNRPH	[1]	Second spindle vertical pos/pos B Nose radius compensation patten
p	list	VNRPN	[1]	Nose radius compensation for pattern
p	multP2	VNRXA	[1]	First spindle base pos/pos A Nose radius compensation for X-axis
p	multP2	VNRXB	[1]	First spindle vertical pos/pos A Nose radius compensation for X-axis
p	multP2	VNRXC	[1]	Second spindle base pos/pos A Nose radius compensation for X-axis
p	multP2	VNRXD	[1]	Second spindle vertical pos/pos A Nose radius compensation for X-axis
p	multP2	VNRXE	[1]	First spindle base pos/pos B Nose radius compensation for X-axis
p	multP2	VNRXF	[1]	First spindle vertical pos/pos B Nose radius compensation for X-axis
p	multP2	VNRXG	[1]	Second spindle base pos/pos B Nose radius compensation for X-axis
p	multP2	VNRXH	[1]	Second spindle vertical pos/pos B Nose radius compensation for X-axis
p	multP2	VNRZA	[1]	First spindle base pos/pos A Nose radius compensation for Y-axis
p	multP2	VNRZB	[1]	First spindle vertical pos/pos A Nose radius compensation for Z-axis
p	multP2	VNRZC	[1]	Second spindle base pos/pos A Nose radius compensation for Z-axis
p	multP2	VNRZD	[1]	Second spindle vertical pos/pos A Nose radius compensation for Z-axis
p	multP2	VNRZE	[1]	First spindle base pos/pos A Nose radius compensation for Z-axis
p	multP2	VNRZF	[1]	First spindle vertical pos/pos B Nose radius compensation for Z-axis
p	multP2	VNRZG	[1]	Second spindle base pos/pos B Nose radius compensation for Z-axis
p	multP2	VNRZH	[1]	Second spindle vertical pos/pos B Nose radius compensation for Z-axis

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P3 Ckd | oem | new codes since last release, released: Oct 13 :

	man	Var	suffix	Description of system variable
p	pgm	VNSRX	[1]	Nose radius compensation for X-axis
p	pgm	VNSRZ	[1]	Nose radius compensation for Z-axis
p	list	VNVLB		Negative variable limit on B-axis (machine coordinate system)
p	spc	VNVLW		Negative variable limit on W-axis (machine coordinate system)
p	pgm	VNVLX		Negative variable limit on X-axis (machine coordinate system)
p	yax	VNVLY		Negative variable limit on Y-axis (machine coordinate system)
p	pgm	VNVLZ		Negative variable limit on Z-axis (machine coordinate system)
p	list	VNXTL	r/o	ATC Next tool number
p	list	VOFXD		NC Steady: XD-axis origin offset
p	list	VOFXE		NC Steady: XE-axis origin offset
p	list	VOFXF		NC Steady: XF-axis origin offset
p	list	VOFZD		NC Steady: ZD-axis origin offset
p	list	VOFZE		NC Steady: ZE-axis origin offset
p	list	VOFZF		NC Steady: ZF-axis origin offset
p	4420	VOKF	r/o	DNC machining status (0=OK, 1=NG)
p	list	VOLPR		Overload Detection Process Change
	pgm	VORD	[1234]r/o	Output Read Condition, I/O status
p	list	VOSER	r/o	Sensor error for Optical type
p	list	VOVR		Rapid Feed Override
p	list	VPA	[1]	Thermo Active Stabilizer L2- Presumed Temperature
p	pgm	VPAI	r/o	π (Circular constant, Pi)
p	list	VPB	[1]	Thermo Active Stabilizer L2- Thermal growth
p	list	VPC	[1]	Thermo Active Stabilizer L2- Variation-A
p	spc	VPCHB		B-axis pitch
p	list	VPCHW		W-axis pitch
p	spc	VPCHX		X-axis pitch
p	spc	VPCHY		Y-axis pitch
p	spc	VPCHZ		Z-axis pitch
p	list	VPCS	r/o	Thermo Active Stabilizer L1- Variation data
p	list	VPCSI		Thermo Active Stabilizer L1- Internal Variation data
p	list	VPD	[1]	Thermo Active Stabilizer L2- Variation-B
p	list	VPDMY		Dummy parameter for OSP-P
p	list	VPE	[1]	Thermo Active Stabilizer L2- Total Variation
p	spc	VPFVB	[1]	B-axis pitch error compensation value
p	spc	VPFVC	[1]	C-axis pitch error compensation value
p	list	VPFVW	[1]	ZC-axis pitch error compensation value
p	spc	VPFVX	[1]	X-axis pitch error compensation value
p	spc	VPFVY		Y-axis pitch error compensation value
p	spc	VPFVZ	[1]	Z-axis pitch error compensation value
p	spc	VPLOF	r/o	M-axis zero offset for flat turning 0 to 359.999
p	YB	VPLTK		Pallet Status Confirmation
p	list	VPLXD		NC Steady: Positive variable limit on XD-axis (mach coordinate system)
p	list	VPLXE		NC Steady: Positive variable limit on XE-axis (mach coordinate system)
p	list	VPLXF		NC Steady: Positive variable limit on XF-axis (mach coordinate system)
p	list	VPLZD		NC Steady: Positive variable limit on ZD-axis (mach coordinate system)
p	list	VPLZE		NC Steady: Positive variable limit on ZE-axis (mach coordinate system)
p	list	VPLZF		NC Steady: Positive variable limit on ZF-axis (mach coordinate system)
p	list	VPMRX	r/o	X-axis Coordinate system direction match flag, program (0:match, 128: not)
p	list	VPMRY	r/o	Y-axis Coordinate system direction match flag, program (0:match, 128: not)
p	list	VPMRZ	r/o	Z-axis Coordinate system direction match flag, program (0:match, 128: not)
p	list	VPMX1		Offset Monitor position 1st spindle X-axis
p	list	VPMX2		Offset Monitor position 2nd spindle X-axis

Lathe System Variable List, Alphabetic

P3 Ckd | oem | new codes since last release, released: Oct 13 :

	man	Var	suffix	Description of system variable
p	list	VPMXD	r/o	NC Steady: XD-axis Coordinate system dir. match flag, program (0:match, 128: not)
p	list	VPMXE	r/o	NC Steady: XE-axis Coordinate system dir. match flag, program (0:match, 128: not)
p	list	VPMXF	r/o	NC Steady: XF-axis Coordinate system dir. match flag, program (0:match, 128: not)
p	list	VPMY1		Offset Monitor position 1st spindle Y-axis
p	list	VPMY2		Offset Monitor position 2nd spindle Y-axis
p	list	VPMZ1		Offset Monitor position 1st spindle Z-axis
p	list	VPMZ2		Offset Monitor position 2nd spindle Z-axis
p	list	VPMZD	r/o	NC Steady: ZD-axis Coordinate system dir. match flag, program (0:match, 128: not)
p	list	VPMZE	r/o	NC Steady: ZE-axis Coordinate system dir. match flag, program (0:match, 128: not)
p	list	VPMZF	r/o	NC Steady: ZF-axis Coordinate system dir. match flag, program (0:match, 128: not)
o	lstJ	VPNEV		Variable for P-100
p	gag	VPOCH		Specify type of tool compensation Multi-system function
p	list	VPOPX	r/o	X-axis zero shift amount (recover)
p	list	VPOPY	r/o	Y-axis zero shift amount (recover)
p	list	VPOPZ	r/o	Z-axis zero shift amount (recover)
p	list	VPPXD	r/o	NC Steady: Tool Retract Interrupt position XD-axis (program coordinate sys)
p	list	VPPXE	r/o	NC Steady: Tool Retract Interrupt position XE-axis (program coordinate sys)
p	list	VPPXF	r/o	NC Steady: Tool Retract Interrupt position XF-axis (program coordinate sys)
p	list	VPPZD	r/o	NC Steady: Tool Retract Interrupt position ZD-axis (program coordinate sys)
p	list	VPPZE	r/o	NC Steady: Tool Retract Interrupt position ZE-axis (program coordinate sys)
p	list	VPPZF	r/o	NC Steady: Tool Retract Interrupt position ZF-axis (program coordinate sys)
p	list	VPSHX		X-axis zero shift amount (memory)
p	list	VPSHY		Y-axis zero shift amount (memory)
p	list	VPSHZ		Z-axis zero shift amount (memory)
p	list	VPTC1		Chuck Height 1st spindle
p	list	VPTC2		Chuck Height 2nd spindle
p	list	VPTMP	[1]	Measurment temperature data (thermal sensors)
p	spc	VPTSB		Start position for B-axis compensation
p	5068S	VPTSP	r/o	Tailstock joint position for tow-along system
p	list	VPTWH		Work Height
p	list	VPTWK		Work number
p	list	VPVLB		Positive variable limit on B-axis (machine coordinate system)
p	spc	VPVLW		Positive variable limit on W-axis (machine coordinate system)
p	pgm	VPVLX		Positive variable limit on X-axis (machine coordinate system)
p	yax	VPVLY		Positive variable limit on Y-axis (machine coordinate system)
p	pgm	VPVLZ		Positive variable limit on Z-axis (machine coordinate system)
p	4373	VPWSP		Parts catcher workpiece chute position (LT-15)
p	list	VPWSV		Warming up cycle ON by Power save mode
p	sub	VPWTP		Parts catcher workpiece transfer position
p	list	VPXA1		Base Tool Length 1st spindle XA-axis
p	list	VPXA2		Base Tool Length 2nd spindle XA-axis
p	list	VPXB1		Base Tool Length 1st spindle XB-axis
p	list	VPXB2		Base Tool Length 2nd spindle XB-axis
p	list	VPXC1		Base Tool Length 1st spindle XC-axis
p	list	VPXC2		Base Tool Length 2nd spindle XC-axis
p	list	VPYA1		Base Tool Length 1st spindle YA-axis
p	list	VPYA2		Base Tool Length 2nd spindle YA-axis
p	list	VPYB1		Base Tool Length 1st spindle YB-axis
p	list	VPYB2		Base Tool Length 2nd spindle YB-axis
p	list	VPYC1		Base Tool Length 1st spindle YC-axis
p	list	VPYC2		Base Tool Length 2nd spindle YC-axis
p	list	VPZA1		Base Tool Length 1st spindle ZA-axis

Lathe System Variable List, Alphabetic

P3 Ckd | oem | new codes since last release, released: Oct 13 :

	man	Var	suffix	Description of system variable
p	list	VPZA2		Base Tool Length 2nd spindle ZA-axis
p	list	VPZB1		Base Tool Length 1st spindle ZB-axis
p	list	VPZB2		Base Tool Length 2nd spindle ZB-axis
p	list	VPZC1		Base Tool Length 1st spindle ZC-axis
p	list	VPZC2		Base Tool Length 2nd spindle ZC-axis
p	5338	VRBDV	[1]	Tolerance after process (print roll gauging/cutting function)
p	5338	VRBMD	[1]	Minimum diameter after process (print roll gauging/cutting function)
p	5338	VRBPA	[1]	A measurment value after process (print roll gauging/cutting function)
p	5338	VRBPB	[1]	B measurment value after process (print roll gauging/cutting function)
p	5338	VRBPC	[1]	C measurment value after process (print roll gauging/cutting function)
p	5338	VRBPD	[1]	D measurment value after process (print roll gauging/cutting function)
p	5338	VRBXD	[1]	Maximum Diameter after process (print roll gauging/cutting function)
p	5338	VRCHC		Chuck the center diameter (print roll gauging/cutting function)
p	5338	VRCIR		Designated circumference (print roll gauging/cutting function)
p	4721	VRCV	[1]	Robot point data C-axis
p	5338	VREDS		End Face machining allowance (print roll gauging/cutting function)
p	5338	VREMD		End Face minimum diameter (print roll gauging/cutting function)
p	5338	VREPE		End Face process necessary (print roll gauging/cutting function)
p	5338	VRFCL		Face Length (print roll gauging/cutting function)
p	list	VRKCD		System Variable for Cutting condition in proces sheet
p	list	VRKCT		System Variable for Machining unit operation control
p	list	VRKEX		System Variable for Process unit number in operation
p	list	VRKME		Initial status macro step number
p	list	VRKMS		Initial status macro execution
p	list	VRLW		Permission position of ZC(W)-axis (robot/loader)
p	list	VRLXB		Permission position of XB-axis (robot/loader) (OPLW: 125)
p	list	VRLZ		Designated Position ZA/ZB/ZC (robot/loader)
p	list	VRLZA		Permission position of ZA-axis (robot/loader) (1st/2nd spindle)
p	list	VRLZB		Permission position of ZB-axis (robot/loader) (1st/2nd spindle)
p	4998	VRLZC		Permission position of ZC(W)-axis (robot/loader) (1st/2nd spindle)
p	5338	VRMDV	[1]	Tolerance (print roll gauging/cutting function)
p	5338	VRMMD	[1]	Minimum diameter (print roll gauging/cutting function)
p	5338	VRMPA	[1]	A measured value (print roll gauging/cutting function)
p	5338	VRMPB	[1]	B measured value (print roll gauging/cutting function)
p	5338	VRMPC	[1]	C measured value (print roll gauging/cutting function)
p	5338	VRMPD	[1]	D measured value (print roll gauging/cutting function)
p	5338	VRMTP		Taper Amount (print roll gauging/cutting function)
p	5338	VRMXD	[1]	Maximum Diameter (print roll gauging/cutting function)
p	gag	VRNGX		X-axis datum ring position (program coordinate system)
p	gag	VRNGZ		Z-axis datum ring position (program coordinate system)
p	5338	VROTD		Designated diameter (print roll gauging/cutting function)
p	5338	VROTS		OD machining allowance (print roll gauging/cutting function)
p	5338	VRRCI		Reusable circumference (print roll gauging/cutting function)
p	4721	VRRG	[1]	Robot register data 0 to 32767, 1 to 93
p	5338	VRROD		Reusable Out Diameter (print roll gauging/cutting function)
p	pgm	VRSTT	r/o	Sequence restart (00:OFF, 128:ON)
p	spc	VRTCN	[1,1] r/o	TCPC: Rotary Axis Rotation Center coordinates
p	list	VRTFT		LBB complete rotation timer
p	5338	VRTHK		Thickness (print roll gauging/cutting function)
p	list	VRTRW		Work Support: Escape Position
p	5338	VRTSC		Tailstock center diameter (print roll gauging/cutting function)
p	5338	VRTSL		Tailstock center position (print roll gauging/cutting function)

Lathe System Variable List, Alphabetic

P3 Ckd | oem | new codes since last release, released: Oct 13 :

	man	Var	suffix	Description of system variable
p	gag	VRUND	r/o	360 constant -
p	5338	VRUST		Use tool number (print roll gauging/cutting function)
p	5338	VRWKD		Work Diameter (print roll gauging/cutting function)
p	5338	VRWKL		Workpiece length (print roll gauging/cutting function)
p	list	VRZBM		Permission position, Minus, of ZB-axis (robot/loader) (OPLW: 126)
p	4721	VRZV	[1]	Robot point data Z-axis
p	multP2	VSATC	r/o	ATC spec active (1= Mac30, 2= Mac50)
p	list	VSBSD		2nd Spindle Lower position (Mac 30)
p	list	VSBSU		2nd Spindle Upper position (Mac 30)
p	spc	VSCTA		Section designation- Off-0, YZ-1, XZ-2, XY-3
p	spc	VSCTX		Section position designation; X
p	spc	VSCTY		Section position designation; Y
p	spc	VSCTZ		Section position designation; Z
	pgm	VSET		Schedule Program Variable Setting
p	list	VSHDR	r/o	Attachment Orientation
p	list	VSHXD		NC Steady: XD-axis zero shift
p	list	VSHXE		NC Steady: XE-axis zero shift
p	list	VSHXF		NC Steady: XF-axis zero shift
p	list	VSHZD		NC Steady: ZD-axis zero shift
p	list	VSHZE		NC Steady: ZE-axis zero shift
p	list	VSHZF		NC Steady: ZF-axis zero shift
p	gag	VSIOC	[1], r/o	C-axis command target point (program coordinate system)
p	spc	VSIOW		W-axis command target point (program coordinate system)
p	gag	VSIOX		X-axis command target point (program coordinate system)
p	yax	VSIOY		Y-axis command target point (program coordinate system)
p	gag	VSIOZ		Z-axis command target point (program coordinate system)
p	list	VSJCD	r/o	Soft Jaw Process: Rough cut- Cut depth
p	list	VSJCH	r/o	Soft Jaw Process: Jaw shape
p	list	VSJCX	r/o	Soft Jaw Process: Chucking Diameter CX
p	list	VSJD1	r/o	Soft Jaw Process: Blank D1 (diameter)
p	list	VSJDX	r/o	Soft Jaw Process: Ring diameter DX
p	list	VSJFE	r/o	Soft Jaw Process: Finish cut- Tool edge number
p	list	VSJFP	r/o	Soft Jaw Process: Finish cut- Tool position number
p	list	VSJFS	r/o	Soft Jaw Process: Finish cut- Feed rate
p	list	VSJFT	r/o	Soft Jaw Process: Finish cut- Tool number
p	list	VSJL1	r/o	Soft Jaw Process: Blank L1 (length)
p	list	VSJL2	r/o	Soft Jaw Process: Chucking Length L2
p	list	VSJNM	r/o	Soft Jaw Process: Recess DT
p	list	VSJRE	r/o	Soft Jaw Process: Rough cut- Tool edge number
p	list	VSJRP	r/o	Soft Jaw Process: Rough cut- Tool position number
p	list	VSJRS	r/o	Soft Jaw Process: Rough cut- Feed rate
p	list	VSJRT	r/o	Soft Jaw Process: Rough cut- Tool number
p	list	VSJRX	r/o	Soft Jaw Process: X-axis Turret index position
p	list	VSJRZ	r/o	Soft Jaw Process: Z-axis Turret index position
p	list	VSJSF	r/o	Soft Jaw Process: Finish cut- Spindle speed
p	list	VSJSM	r/o	Soft Jaw Process: Spindle Max speed
p	list	VSJSR	r/o	Soft Jaw Process: Rough cut- Spindle speed
p	list	VSJTP	r/o	Soft Jaw Process: Taper LX
p	gag	VSKFA		Gauging feedrate 2
p	gag	VSKFB		Gauging feedrate 1
p	gag	VSKPC	[1], r/o	C-axis sensor touch point (machine coordinate system)
p	gag	VSKPX	[1], r/o	X-axis sensor touch point (machine coordinate system)

Lathe System Variable List, Alphabetic

P3 Ckd | oem | new codes since last release, released: Oct 13 :

	man	Var	suffix	Description of system variable
p	yax	VSKPY	[1], r/o	Y-axis sensor touch point (machine coordinate system)
p	gag	VSKPZ	[1], r/o	Z-axis sensor touch point (machine coordinate system)
p	sltY	VSKXP	[1], r/o	X-axis sensor touch point (program coordinate system)
p	sltY	VSKYP	[1], r/o	Y-axis sensor touch point (program coordinate system)
p	sltY	VSKZP	[1], r/o	Z-axis sensor touch point (program coordinate system)
p	list	VSLMD	r/o	Slant Mode engaged (G127 B##)
p	gag	VSNTU	r/o	Dislocation between sensor center and sensor head in the C-axis reverse rotation
p	gag	VSNWD	r/o	Dislocation between sensor center and sensor head in the C-axis forward rotation
p	gag	VSNX	[1]	Touchsetter X-axis sensor position (machine coordinate system)
p	5650	VSNX2	[1]	Touchsetter X-axis sensor position, 2nd sensor (machine coordinate system)
p	list	VSNX3		Touchsetter X-axis sensor position, 3rd sensor (machine coordinate system)
p	list	VSNYP		YI-axis sensor position (program coordinate system)
p	gag	VSNZ	[1]	Touchsetter Z-axis sensor position (machine coordinate system)
p	5650	VSNZ2	[1]	Touchsetter Z-axis sensor position, 2nd sensor (machine coordinate system)
p	list	VSNZ3		Touchsetter Z-axis sensor position, 3rd sensor (machine coordinate system)
p	list	VSOXD	r/o	NC Steady: XD-axis command target point (program coordinate system)
p	list	VSOXE	r/o	NC Steady: XE-axis command target point (program coordinate system)
p	list	VSOXF	r/o	NC Steady: XF-axis command target point (program coordinate system)
p	list	VSOZB		Z-axis command target point (program coordinate system)
p	list	VSOZD	r/o	NC Steady: ZD-axis command target point (program coordinate system)
p	list	VSOZE	r/o	NC Steady: ZE-axis command target point (program coordinate system)
p	list	VSOZF	r/o	NC Steady: ZF-axis command target point (program coordinate system)
p	list	VSPCK	r/o	Read Spindle system during program (0: R-side, 1: L-side)
p	list	VSPMD	r/o	Spindle mode information (G140=0, G141=128)
p	list	VSPOF	B	Zero Offset of Spindle orientation (Other Func. #14)
p	4871	VSPPH		Retardation amount for spindle synchronization (1-2 Spindle #18)
p	list	VSPTH	r/o	Attachment side way
p	list	VSRCT		Timer for Steady rest Clamp
o	SKE-0896	VSRMT		Steady Rest Installed (Not allow B-turret index)
p	5068S	VSRP	r/o	Steady rest joint position for a tow-along system
p	list	VSRTD		Steady rest barrier- Steady Rest size D
p	list	VSRTL		Steady rest barrier- Steady Rest size L
p	list	VSRTX		Steady rest barrier- Steady Rest size X
p	list	VSRTZ		Steady rest barrier- Steady Rest size Z
p	list	VSRUT		Timer for Steady rest Unclamp
p	list	VSSAG		Sensor Slant Angle
p	list	VSSNO	[1], r/o	Stocker number
p	list	VSSOF		Zero Offset of 2nd Spindle orientation (1-2 Spindle #1)
p	list	VSSPX	[1]	Slant Gauging: X-axis sensor position (machine system)
p	list	VSSPZ	[1]	Slant Gauging: Z-axis sensor position (machine system)
p	list	VSYOF		Zero Offset of 2nd Spindle (1-2 Spindle #2)
p	pgm	VSZOB		B-axis Zero offset- Standard (setup screen)
p	pgm	VSZOC		C-axis Zero offset- Standard (setup screen)
p	pgm	VSZOW		W-axis Zero offset- Standard (setup screen)
p	pgm	VSZOX		X-axis Zero offset- Standard (setup screen)
p	pgm	VSZOY		Y-axis Zero offset- Standard (setup screen)
p	pgm	VSZOZ		Z-axis Zero offset- Standard (setup screen)
p	list	VSZSB		B-axis Zero Shift- Base
p	list	VSZSC		C-axis Zero Shift- Base
p	list	VSZSW		W-axis Zero Shift- Base
p	list	VSZSX		X-axis Zero Shift- Base

Lathe System Variable List, Alphabetic

P3 Ckd | oem | new codes since last release, released: Oct 13 :

	man	Var	suffix	Description of system variable
p	list	VSZSY		Y-axis Zero Shift- Base
p	list	VSZSZ		Z-axis Zero Shift- Base
p	list	VTAOR		A-turret index override
p	list	VTARP		Robot / Loader Possible approach Turret number
p	4943	VTBDT	r/o	Tool breakage detected (Macturn) (0/1)
p	list	VTBNC		No Block Number I612Count during TD command
p	list	VTBOR		B-turret index override
p	list	VTCCP		Thread Fixed cycle path number
p	pgm	VTCMD		TD / TL mode select
p	list	VTD52	[1], r/o	Used Tool Table: G52 status
p	list	VTDBA	[1], r/o	Used Tool Table: BA angle
p	list	VTDBT	[1], r/o	Used Tool Table: BT selection (Base/Vertical)
p	list	VTDIN	r/o	Used Tool Table: Tool Information number (Position number)
p	list	VTDKG	r/o	Used Tool Table: TD/TL command type
p	list	VTDKT	r/o	Used Tool Table: Turret Type- H1 / V-type
p	list	VTDMD	[1], r/o	Used Tool Table: Operation Mode
p	list	VTDMI	[1], r/o	Used Tool Table: A/B turret spindle selection (M602/3)
p	list	VTDMN	r/o	Used Tool Table: Tool Change Macro
p	list	VTDNO	r/o	Used Tool Table: TD/TDG Command Designate number
p	list	VTDON	[1], r/o	Used Tool Table: Offset number
p	list	VTDSP	[1], r/o	Used Tool Table: Spindle mode
p	list	VTDTN	r/o	Used Tool Table: TD/TDG Command Tool number
p	multP2	VTFXA	[1]	First spindle base position/position A X -axis tool offset
p	multP2	VTFXB	[1]	First spindle vertical position/position A X -axis tool offset
p	multP2	VTFXC	[1]	Second spindle base position/position A X -axis tool offset
p	multP2	VTFXD	[1]	Second spindle vertical position/position A X -axis tool offset
p	multP2	VTFXE	[1]	First spindle base position/position B X -axis tool offset
p	multP2	VTFXF	[1]	First spindle vertical position/position B X -axis tool offset
p	multP2	VTFXG	[1]	Second spindle base position/position B X -axis tool offset
p	multP2	VTFXH	[1]	Second spindle vertical position/position B X -axis tool offset
p	multP2	VTFYA	[1]	First spindle base position/position A Y -axis tool offset
p	multP2	VTFYB	[1]	First spindle vertical position/position A Y -axis tool offset
p	multP2	VTFYC	[1]	Second spindle base position/position A Y -axis tool offset
p	multP2	VTFYD	[1]	Second spindle vertical position/position A Y -axis tool offset
p	multP2	VTFYE	[1]	First spindle base position/position B Y -axis tool offset
p	multP2	VTFYF	[1]	First spindle vertical position/position B Y -axis tool offset
p	multP2	VTFYG	[1]	Second spindle base position/position B Y -axis tool offset
p	multP2	VTFYH	[1]	Second spindle vertical position/position B Y -axis tool offset
p	multP2	VTFZA	[1]	First spindle base position/position A Z -axis tool offset
p	multP2	VTFZB	[1]	First spindle vertical position/position A Z -axis tool offset
p	multP2	VTFZC	[1]	Second spindle base position/position A Z -axis tool offset
p	multP2	VTFZD	[1]	Second spindle vertical position/position A Z -axis tool offset
p	multP2	VTFZE	[1]	First spindle base position/position B Z -axis tool offset
p	multP2	VTFZF	[1]	First spindle vertical position/position B Z -axis tool offset
p	multP2	VTFZG	[1]	Second spindle base position/position B Z -axis tool offset
p	multP2	VTFZH	[1]	Second spindle vertical position/position B Z -axis tool offset
p	5457	VTGNM	r/o	Tool-ID: Read the 8-digit tool group number
p	spc	VTHRX		Thread phase matching amount in the X-axis direction
p	spc	VTHRZ		Thread phase matching amount in the Z-axis direction
p	multP2	VTIDA		ATC Index position (turret = TC1, 0/128)
p	list	VTIME	[1], r/o	Clock Time data: 1-year, 2-month, 3-day, 4-hour, 5-minute, 6-second
p	list	VTIMN	r/o	Turret Index Number

Lathe System Variable List, Alphabetic

P3 Ckd | oem | new codes since last release, released: Oct 13 :

	man	Var	suffix	Description of system variable
p	list	VTINW		Work Support: Insert Position
p	2452	VTIPN	[1]	Tool interference pattern number 0 to 2
p	2452	VTIXN	[1]	Tool interference point; XN
p	2452	VTIXP	[1]	Tool interference point; XP
p	2452	VTIZN	[1]	Tool interference point; ZN
p	2452	VTIZP	[1]	Tool interference point; ZP
p	spc	VTLA1	[1]	Tool nose angle 0 to 360.000
p	spc	VTLA2	[1]	Cutting edge angle 0 to 360.000
p	list	VTLBX	[1]	LBB X-axis home position location positioning (101-104)
p	list	VTLBZ	[1]	LBB Z-axis home position location positioning (101-104)
p	gag	VTLCA	[1]	Actual tool wear amount for tool life 0 to 9999.999
p	gagP2	VTLCN	[1]	Number of machined workpieces for tool life
p	gagP2	VTLCT	[1]	Cutting time for tool life
p	spc	VTLD	[1]	Tool holder dia./drill dia.
p	multP2	VTLFB	[1]	Vertical position index: Tool Form Code number
p	spc	VTLFN	[1]	Tool form code number 0 to 12
p	gag	VTLGN	[1]	Tool group number 0 to 32/96
p	multP2	VTLIB	[1]	Vertical position index: Tool classification code number
p	spc	VTLIN	[1]	Tool classification code number 1 to 38
p	spc	VTLL	[1]	Tool holder length/projection/drill length
p	gag	VTLLF	[1]	Variable which indicates that the tool has been used to the life
p	list	VTLMN	[1], B	Tool monitoring
p	list	VTLMT	[1]	Tool type number 0 to 80
p	list	VTLND		Tool point diameter
p	gagP2	VTLNG	[1]	Variable which indicates that the tool was evaluated as NG in gauging
p	multP2	VTLNR	[1]	Nose radius of Button tool
p	gagP2	VTLOA	[1]	Tool offset number (group 1) 0 to 32
p	gagP2	VTLOB	[1]	Tool offset number (group 2)
p	gagP2	VTLOC	[1]	Tool offset number (group 3)
p	list	VTLPA	[1]	Base position index: Form Position
p	list	VTLPB	[1]	Vertical position index: Form Position
p	gagP2	VTLSA	[1]	Tool wear amount set for tool life 0 to 999.999
p	list	VTLSL	[1]	Tool Holder: Slant Angle of Holder
p	gagP2	VTLSN	[1]	Number set for tool life
p	gagP2	VTLST	[1]	Time Set for tool life
p	mult	VTLUS	[1]	Variable which indicates that the tool was used in a program
p	spc	VTLW	[1]	Tool width
p	list	VTLZL		Thermo active stabilizer L1- Tool length of Z-axis
p	list	VTMDT	[1]	M-axis synchronized tap monitor parameter
p	6226	VTMMG	r/o	Tool in Turret Designated for Main magazine (sub-mag spec)
p	list	VTMNO		M-axis synchronized tap monitor parameter Number
p	spc	VTNOK	[1]	Tailstock Advanced Confirmation "-OK" range
p	pgm	VTNUM		TL mode Tool Offset number
p	multP2	VTOAA	[1]	Tool offset number A of tool at ATC 1st position
p	multP2	VTOAB	[1]	Tool offset number A of tool at ATC 2nd position
p	multP2	VTOBA	[1]	Tool offset number B of tool at ATC 1st position
p	multP2	VTOBB	[1]	Tool offset number B of tool at ATC 2nd position
p	multP2	VTOCA	[1]	Tool offset number C of tool at ATC 1st position
p	multP2	VTOCB	[1]	Tool offset number C of tool at ATC 2nd position
p	AB213	VTOCP		Select of tool offset auto calculation (Macturn gaging)
p	pgm	VTOFX	[1]	X-axis tool offset
p	yax	VTOFY	[1]	Y-axis tool offset

Lathe System Variable List, Alphabetic

P3 Ckd | oem | new codes since last release, released: Oct 13 :

	man	Var	suffix	Description of system variable
p	pgm	VTOFZ	[1]	Z-axis tool offset
p	spc	VTOPC	r/o	Top cut judgment
p	spc	VTPOK	[1]	Tailstock Advanced Confirmation "+OK" range
p	AB	VTRNL		B-turret index allow area- Minus limit
p	4788	VTROX	[1]	Positioning error data for X-axis turret position (customer spec)
p	4788	VTROZ	[1]	Positioning error data for Z-axis turret position (customer spec)
p	AB	VTRPL		B-turret index allow area- Plus limit
p	list	VTRSM		Animation Transparent mode (0: Off, 1: On)
	spc	VTRSP		Transparent display designation- (0: Standard, 1: Transparent)
p	list	VTRTS		T-axis rapid feedrate (1/10 min-1) 1 to 32767 (OSP 7000)
p	spc	VTSAP		NC Tailstock Approach Position
p	list	VTSBD		NC Tailstock B relative distance
p	list	VTSBP		NC Tailstock B Torque limit
p	spc	VTSCH		NC Tailstock Work Hole Depth
p	pgmP2	VTSDA		Tailstock spindle diameter D2 0 to 9999.999
p	pgmP2	VTSDB		Tailstock center diameter D3
p	spc	VTSHI		NC Tailstock High thrust (opt)
p	pgmP2	VTSL	r/o	Tailstock spindle projection L2
p	5457	VTSLN	r/o	Tool-ID: Read the serial number of internal tool number
p	spc	VTSLO		NC Tailstock Low thrust (std)
p	multP2	VTSPC	[1]	Turret specification table
p	spc	VTSRT		NC Tailstock Retract Position
p	spc	VTSSV		NC Tailstock Position- Machine coordinate
p	spc	VTSWP		NC Tailstock Sizing selection (1-10)
p	mult	VTTLN	[1]	Current tool in turret. (H1 turret- 1, H2 turret- 1 or 3)
p	list	VTWCL		Gauging: Do Not Clear Tool Wear amount
p	list	VTWCP	r/o	Specify which measure of compensation
p	spc	VTWOX	[1]	X-axis tool wear offset
p	spc	VTWOZ	[1]	Z-axis tool wear offset
p	list	VTWXA	[1]	First spindle base position/position A X -axis tool wear offset
p	list	VTWXB	[1]	First spindle vertical position/position A X -axis tool wear offset
p	list	VTWXC	[1]	Second spindle base position/position A X -axis tool wear offset
p	list	VTWXD	[1]	Second spindle vertical position/position A X -axis tool wear offset
p	list	VTWXE	[1]	First spindle base position/position B X -axis tool wear offset
p	list	VTWXF	[1]	First spindle vertical position/position B X -axis tool wear offset
p	list	VTWXG	[1]	Second spindle base position/position B X -axis tool wear offset
p	list	VTWXH	[1]	Second spindle vertical position/position B X -axis tool wear offset
p	list	VTWZA	[1]	First spindle base position/position A Z -axis tool wear offset
p	list	VTWZB	[1]	First spindle vertical position/position A Z -axis tool wear offset
p	list	VTWZC	[1]	Second spindle base position/position A Z -axis tool wear offset
p	list	VTWZD	[1]	Second spindle vertical position/position A Z -axis tool wear offset
p	list	VTWZE	[1]	First spindle base position/position B Z -axis tool wear offset
p	list	VTWZF	[1]	First spindle vertical position/position B Z -axis tool wear offset
p	list	VTWZG	[1]	Second spindle base position/position B Z -axis tool wear offset
p	list	VTWZH	[1]	Second spindle vertical position/position B Z -axis tool wear offset
p	pgm	VUACM	[1]	User alarm comment, 16 characters
p	6193	VULOR		UL-axis positioning overide (Unloader)
p	list	VUNIT	r/o	Unit system 0 to 7 (dec 1.0, Metric=2, Inch=3)
p	list	VWAP		Designated W-axis position
p	oper	VWKCC	[1]	Work counter counting value
p	oper	VWKCS	[1]	Work counter setting value 0 to 99999999 1 to 4
p	list	VWKLG		Work Length

Lathe System Variable List, Alphabetic

P3 Ckd | oem | new codes since last release, released: Oct 13 :

	man	Var	suffix	Description of system variable
p	5338	VWKME		Work Identification (print roll gauging/cutting function)
p	pgmP2	VWKR		Workpiece end face WR 0 to 9999.999
	spc	VWKWT	r/o	Work Weight Select par. (0- None, 1- Std, 2- Semi-St, 3- Heavy) (OPW: M#99, S#77)
p	spc	VWMON	[1]	Workpiece fly-out detection (monitoring pattern)
p	AB199	VWZBO		Offset amount of W-axis – ZB-axis (LT10 transfer)
p	list	VXBRP	r/o	Designated XB axis position
p	gag	VXMAB	[1]	Turret designation for offset 0/1
p	gag	VXMAD		Tool offset add amount
p	gag	VXMBD	[1]	Binary data of gauged BCD data 1 to 12
p	gag	VXMCD	[1], r/o	Offset amount for 5/7 step or BCD data, 0 to 999.999
p	gag	VXMCO	[1]	Consecutive counter for OK
o	lstJ	VXMDB		
p	gag	VXMDR		Data read/not read variable 0/80 None
p	gag	VXMDS		Post-process gauging data set variable 0 to 255
p	list	VXMEC	[1]	Abnormal offset counter
p	list	VXMER	[1]	Abnormal offset limit
p	list	VXMMC	[1]	Counter ignoring offset
p	gag	VXMMD	[1]	Storing the result of previous gauging 1/2/4/8/16/32/64
p	gag	VXMMO	[1]	Counter ignoring OK
p	gag	VXMNC	[1]	Offset skip counter
p	gagP2	VXMOG	[1]	Tool offset group number to be offset 1 to 3
p	gagP2	VXMON	[1]	Tool offset number to be offset 0 to 32/64/96
p	list	VXMOP	[1]	Tool Offset Position Designation
p	gag	VXMPO	[1]	Input position number for post-process gauging unit 0 to 12
p	gagP2	VXMTG	[1]	Tool group number to be offset 1 to 12/24
p	gag	VXMXZ	[1]	Axis designation for offset (0: X axis, 1: Z)
p	list	VXROP	[1]	RS232 post-process gauging tool offset position
p	list	VYARP		Movement position for Y-axis
p	multP2	VYMOD		Y-axis mode engaged
p	yax	VYSTP	r/o	YS-axis spindle center position (program)
p	spcU	VZARP		Designated ZA-axis position (other function)
p	spcU	VZBRP		Designated ZB-axis position (other function)
p	spcU	VZCRP		Designated ZC-axis position (other function)
p	list	VZOF2		Spindle Orientation position 2
p	list	VZOF3		Spindle Orientation position 3
p	pgm	VZOFB		B-axis zero offset
p	pgm	VZOFC		C-axis zero offset- Machine system
p	list	VZOFS		Spindle Current stopped position
p	pgm	VZOFW		W-axis zero offset- Machine system
p	pgm	VZOFX		X-axis zero offset- Machine system
p	pgm	VZOFY		Y-axis zero offset- Machine system
p	pgm	VZOFZ		Z-axis zero offset- Machine system
p	list	VZOZB		ZB-axis zero offset (LT?)
p	list	VZSHB		B-axis zero shift
p	pgm	VZSHC		C-axis zero shift
p	4373	VZSHW		W-axis zero shift
p	pgm	VZSHX		X-axis zero shift
p	yax	VZSHY		Y-axis zero shift
p	pgm	VZSHZ		Z-axis zero shift
p	list	VZSZB		ZB-axis zero shift (LT?)
o	lstJ	VZWIR		ZB-W axis Interference Distance (OP.W. no99 Main, no77 Sub)

Lathe System Variable List, Alphabetic

P3 Ckd | oem | new codes since last release, released: Oct 13 :

man	Var	suffix	Description of system variable
			Reference Manuals
p	List	5946	P300 Programming Appendix
h	Lst2	n/a	P300 Control Help list
	Pgm	5946	P300 Programming
	Spc	5948	P300 Special Function
	Sub	6146	P300 Sub-spindle function
	Yax	6147	P300 Y-axis function
	Gag	5908	P300 Gauging function (inc. Y)
	GagA	5972	P300 Gauging- Application
	SltY	6082	P300 Slant Y-axis Gauging
	Cas	5881	CAS- Basic
	Oper	5895	P300-L/S Operation (basic)
	Mult	5947	P300S Multus (H1) Oper
	Lvt	6170	P300 LVT Oper.
	Cam	6344	P300 Cam Lathe
	lawV	6332	P300 Law-V and ACC
	2spH	6244	P300 2SP-H Oper (inc-OGL)
	Mult	5947	P300S Multus (H1) Oper
	YB	6055	P300S VTM-YB
	VTR	6336	P300S VTR Oper
	LBB	6120	P300 B750 Long Boring Bar