Release Date: February 28, 2018   *Prepared by Andre Lambert*

Prices and specifications subject to change without notice.

56YD-C   VERTICAL CENTER NEXUS 530TT-2K MATRIX NEXUS 2 CONTROL $193,600.00

Shown with optional equipment.

Including following standard equipment:

Part #	Description	Qty	Price
	Spindles		
SP07256YDC0	MAIN SPINDLE MOTOR AC 18.5KW(25HP)/5MIN.	1	
SR32556YDC0	SPINDLE SPEED 12000 RPM (#40)	1	
	Magazines		
AT03056YDC0	30 TOOL MAGAZINE (CAT 40) (FACTORY INSTALL ONLY)	1	

Shown with optional equipment

	Workholding		
TBXX156YDC1	51.18" X 21.65"(1300MM X 550MM) SINGLE TABLE WITH T-SLOTS	1	
	NOTE: Table can be separated and used as twin tables *25.39" x 21.65" (645MM x 550MM) x 2.*		
	Control		
NC24656YDC0	MATRIX NEXUS 2 CONTROL	1	
NC31756YDC0	12.1" COLOR LCD	1	
NO09856YDC0	EIA/ISO CODE INPUT FUNCTION (STANDARD)	1	
NO13956YDC0	ADDITIONAL EIA/ISO FUNCTIONS (REQUIRES EIA/ISO)	1	
	The following EIA/ISO functions are included: ** SPIRAL INTERPOLATION (EIA)(G02.1/G03.1)* ** PATTERN ROTATION (EIA)* ** 3 DIMENSIONAL CUTTER COMPENSATION (EIA)* ** GEOMETRIC COMMAND (EIA)* ** SCALING (EIA)(G50/G51)* ** EXTERNAL DATA INPUT / OUTPUT (EIA)*		
NO82756YDC0	LAN PORT IN ELECTRICAL CABINET	1	
NO82456YDC0	USB I/F (2-PORT)	1	
NO05156YDC0	USER MACRO (COMMON VARIABLES:600 PAIRS)	1	
	As standard the Mazak Mitsubishi control comes with 100 variables (#100 - #199). With this option additional variables are made available (#500 - #999). This brings the total of variables available to the programmer to 600. Variable numbers #200 through #499 are not available to the customer to be more Fanuc compatible as Fanuc doesn't offer these variables. Notes and Cautions: This option is turned on from the factory on most Matrix control machines and is normally a paid option for the older controls.		
NO07456YDC0	MAZAK TAPPING/BORING TORNADO (MAZATROL)	1	
NO07556YDC0	MAZAK TAPPING/BORING TORNADO (EIA/ISO) (G130)	1	

	G-code called macro to ease programming of thread milling and chamfering a tapped hole. Just as easy as a standard drilling cycle call-out. Option #43 on control options page. Notes and Cautions: Cannot do tapered threads. Tornado tapping function requires the following parameter settings for macro-call G codes: *J37 = 100009401 (Fixed value for the number of the macro program to be called for tornado tapping).* *J38 = 130 (Fixed value for the number of the G-code to be used for macro call). J39 = 2 (Fixed value for the type of macro call).*		
NO09156YDC0	B)SYNCHRONIZED TAPPING (G84.2 / G84.3)	1	
NO14256YDC0	INVERSE TIME FEED (G93)	1	
	Most NC programmers think of the feedrate in a CNC program as the method for specifying linear velocity, i.e. IPM or IPR. This is true for two- and three-axis linear motion, but when rotary, i.e. 5 Axis, motion is to be controlled; the feedrate takes on a different meaning. When combined linear/rotary motion exists, CNC machines require the inverse of the amount of time necessary to make the move, and since each move has a different distance, the corresponding time varies for each block as well. G93 allows this giving you constant tool feed with varying lengths. Notes and Cautions: Feed rate must be present on every line. Feed rate numbers will appear very large and inconsistent. If F0 occurs in the code, the machine will alarm. F_G01=((mm/(min.)))/distance. F_G01=((inches/(min.)))/distance. F_(G02/G03)=((mm/(min.)))/(Arc Radius). F_(G02/G03)=((inches/(min.)))/(Arc Radius).		
NO14356YDC0	G37.AUTOMATIC TOOL-LENGTH MEASUREMENT	1	
NO14456YDC0	SEQUENCE NUMBER COMPARISON STOP FUNCTION	1	
	In EIA/ISO programs, Comparison Stop function allows you to stop in any position during the automatic operation at a specified work No. and sequence No. and block No. in EIA/ISO programs. Option #22 on control option page. Notes and Cautions: 1. If the program has multiple blocks which correspond with the specified sequence No. and block No., comparison stop will occur at the first of such blocks. 2. Comparison stop function does not include checking for the presence of the specified block in the respective program. 3. The sequential operation of tapping cannot be brought half-way to a comparison stop. 4. The setting of comparison stop is not valid for a block which is currently executed. 5. Only the setting of 0 for the block No. can be omitted. 6. The head block containing a program No. cannot be effective for comparison stop.		
NO37556YDC0	BACKGROUND TOOL PATH CHECK	1	
NO48156YDC0	ADD. WORKPIECE COORDINATE SYS. 300-PAIRS (G54.1)	1	
NO48356YDC0	THREAD CUTTING FUNCTION (G33)	1	
	The Threading option uses G33 for a machining center and G32 for a turning center. The command provides equal –lead threading when the tool federate is synchronized with the spindle rotation. The option can provide equal lead, continuous lead and inch threading. G32 Zz Ww Xx Uu Ee Qq where z, w, x, and u are the thread ending points, E is the number of threads per inch, and Q is the shift angle of the threading start. Notes and Cautions: During threading, the feed hold will not function F91 Bit 7 controls the argument "E". This argument can be used as a number of threads command or precise lead data. Single block will work only if G32 and G33 are cancelled by a G code.		
NO51656YDC0	EIA PATTERN CYCLE (GRID, ARC) (G34.1 / G35 / G36 / G37.1)	1	
	EIA Pattern Cycle is a specific G-code that will allow the programmer to machine a particular hole pattern. Those patterns include circle, line, arc and grid. The information required to make it work would be just to know the initial point and distance to the next hole, which makes programming a pattern much easier and the output code shorter. Notes and Cautions: In order for it work correctly, a command of hole pattern cycle cannot be given in the same block as a subprogram call, macro call, fixed cycle for turning, compound fixed cycle and hole machining fixed cycle. Option is not available for the QTS and QTN series machines.		
SD10056YDC0	TOOL LIFE MONITORING	1	
SD11156YDC0	ACTIVE VIBRATION CONTROL	1	
SD11356YDC0	INTELLIGENT SAFETY SHIELD (AUTOMATIC & MANUAL OPERATION)	1	
SD11256YDC0	INTELLIGENT THERMAL SHIELD	1	

Code	Description	Qty	
MO06056YDC0	MANUAL PULSE GENERATOR 1 DIAL (DETACHABLE)	1	
SD11456YDC0	MAZAK VOICE ADVISER	1	
SD11556YDC0	VIRTUAL MACHINING	1	
MZ20156YDC0	RELOCATION DEVICE	1	
	NOTE: RELOCATION DEVICE IS A PERMANENT BATTERY OPERATED DEVICE THAT RESIDES IN THE ELECTRICAL CABINET OF THE MACHINE. THIS DEVICE IS STANDARD FOR ALL MAZAK MACHINES AS AN EXPORT COMPLIANCE MEASURE TO PREVENT ILLEGAL TRANSFERS AND MISAPPROPRIATIONS WITHOUT THE PROPER GOVERNMENTAL AUTHORIZATION. THE DEVICE WILL SIGNAL AN ALARM AND COMPLETELY SHUT DOWN THE MACHINE UPON ANY REPOSITIONING AND/OR RELOCATION OF THE MACHINE. MAZAK REQUESTS THAT YOU CONTACT THE LOCAL MAZAK REPRESENTATIVE PRIOR TO ANY REPOSITIONING AND/OR RELOCATION OF THE MACHINE. THE MAZAK REPRESENTATIVE WILL VERIFY THE LOCATION OF THE MACHINE ACCORDING TO THE PROPER EXPORT ADMINISTRATION GUIDELINES AND ISSUE A NEW PASSWORD TO INITIATE STARTUP OF THE MACHINE.		
MTMACHPREP0	MT CONNECT PREPARATION (SOFTWARE UPGRADE TO SUPPORT)	1	
	INCLUDES: CNC software upgrade to support MT Connect *NOTE: Optional MT Connect adapter is required for MT Connect use.*		
WINDOWS0700	WINDOWS 7 OPERATING SYSTEM FOR MAZAK MACHINE CONTROL.	1	
	Chip Control and Coolant		
SD01056YDC0	COMPLETE COOLANT SYSTEM STD FLOOD (64PSI)	1	
	Accessories		
SF08156YDC0	ABSOLUTE ENCODER SYS	1	
	Miscellaneous		
MAZAKTERMS1	MAZAK STANDARD TERMS OF PAYMENT	1	
	1. FOR MACHINES TOTALING UP TO $499,000, A MINIMUM DOWN PAYMENT OF TEN PERCENT (10%) OF THE PURCHASE PRICE AT RECEIPT OF ORDER. BALANCE, FIFTEEN (15) DAYS AFTER DATE OF SHIPMENT. *2. FOR MACHINES EXCEEDING $500,000 BUT LESS THAN $1,000,000 A MINIMUM DOWN PAYMENT OF (20%) OF THE PURCHASE PRICE AT RECEIPT OF ORDER; (70%), THIRTY(30)DAYS AFTER SHIPMENT; (10%) UPON ACCEPTANCE.* *3. FOR MACHINES EXCEEDING $1,000,000 MINIMUM DOWN PAYMENT OF (20%) OF PURCHASE PRICE AT RECEIPT OF ORDER; ADDITIONAL (20%) UPON COMPLETION OF GENERAL ASSEMBLY AT MAZAK'S PLANT; (50%) OF PURCHASE PRICE 30 DAYS AFTER SHIPMENT AND (10%) UPON BUYER'S ACCEPTANCE.* *AS STATED ON MAZAKS STANDARD TERMS OF PAYMENT, (SF-1020-2) ALL PRICES & PAYMENT TERMS ARE IN U.S. DOLLARS PER MAZAK'S CORPORATE TERMS AND CONDITIONS OF SALE- (USA) (#SF-1000-2)*		
MACHWRTY002	TWO YEAR WARRANTY FROM START - UP DATE CONSULT STANDARD TERMS	1	
SD05056YDC0	DIGITAL DOCUMENTATION STD MANUAL SET CD-ROM	1	

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	CD will include each of the following manuals: *Programming* *Operating* *Tooling* *Maintenance* *Parts List* *Electrical Circuit Diagrams* ** *Note: Electrical and PLC Manuals will be provided in hard* *copy form, located in electrical cabinet.*		
SD72856YDC0	MAZAK STANDARD COLOR (FROST WHITE / SATIN BLACK)	1	
SD13456YDC0	DRY PIT FOUNDATION WITH COMPLETE TOE CLAMP KIT (NOTE)	1	
	PLEASE NOTE THAT THIS KIT IS FOR ANCHORING MACHINE TO THE FLOOR.		
MO57556YDC0	ROLLER GUIDE	1	
XL14956YDC1	X-AXIS TRAVEL 58.66" (1490MM)	1	
YL53056YDC0	Y AXIS TRAVEL 20.08" (530MM)	1	
AS02856YDC0	OPERATOR DOOR INTERLOCK WITH LOCK-SWITCH	1	
SD02056YDC0	FULL COVERAGE CHIP AND COOLANT GUARD	1	
CC01056YDC0	TOTAL COVER WITHOUT TOP COVER	1	
CC05056YDC0	TOP COVER	1	
WL00556YDC0	WORK LIGHT	1	
SD759KYP0C0	ELECTRICAL CONTROL BOX UL STANDARD(240V)	1	
EL12056YDC0	POWER TRANSFORMER FOR NORTH AMERICAN MARKET	1	
UNPROGRTR00	STANDARD UNLIMITED PROGRAM TRAINING FOR 3 YEARS DPT#9	1	
CFDRAWING01	CERTIFIED FOUNDATION DRAWING DPT#5	1	
PROPOSAL010	PROPOSAL IS ONLY VALID FOR THE ADDRESS SHOWN ABOVE. DPT#9	1	
EXPORTLAW01	BUYER MUST COMPLY WITH EXPORT LAW #22 ACKNOWLEDGEMENT DPT#9	1	
	EXPORT CONTROL LAW. Buyer shall not sell, consign, give, *lease, or otherwise transfer the products or any interest* *therein nor in any manner disclose or make the Products* *available to any person or entity in violation of* *(I) The Export Administration Act, 50 U.S.C.* *App. §§ 2401-2420, as amended* *(II) The Nuclear Non-Proliferation Act of 1978,* *22 U.S.C. §§ 3201-3282 and 42 U.S.C. §§ 2011-2160(a),* *as amended,* *(III) Export control regulations of the Bureau of Export* *Administration of the U.S. Department of Commerce,* *15 C.F.R. Parts 768-799 or* *(IV) export control regulations of the Office of Foreign* *Assets Control, U.S. Department of the Treasury, 31* *C.F.R. Parts 500-580*		

VERTICAL CENTER NEXUS 530TT-2K MATRIX NEXUS 2 CONTROL

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Part #	Description	Qty	Price
	Note: OPTION PRICES ARE FACTORY INSTALL ONLY		
	Spindles - Milling		
SPBT456YDC0	CONVERT MACHINE TO ACCEPT BT40 TOOLING	1	$680
SO10256YDC0	BIG PLUS TYPE SPINDLE (#40) INCLUDES BIG PLUS REMOVAL TOOL	1	$1,800
SI01956YDC0	SPINDLE MULTI-POINT ORIENT(M-CODE/1DEG.)	1	$3,700
	This Option allows you to orient the spindle to an arbitrary angle by specifying the spindle orientation angle in the program or MDI command. The orientation angle can be specified between 0' and 359.9' by 0.1' increments. Notes and Cautions: On Machines running 562M2000 or higher enter angle as decimal ie 90.5 not 905. EIA and MDI function only. When 3600 or a larger value is inputted in the S code, the multi-point orientation command is not carried out.		
	Magazines - Magazines / Stockers		
ATXX156YDC0	48 TOOL MAGAZINE (CAT 40) (FACTORY INSTALL ONLY)see note	1	$10,700
	NOTE: NOT AVAILABLE WITH A HIGH TORQUE 15K 205 SPINDLE		
ATXX356YDC0	MAGAZINE DOOR FOR LOADING TOOLS	1	$2,700
	Workholding - Tables		
NR18056YDC0	NIKKEN CNC 180 MA NC ROTARY TABLE PACKAGE (SEE NOTE)	1	$24,000
	NOTE: ROTARY TABLE WILL BE MOUNTED ON THE RIGHT SIDE. *NOTE: INCLUDES CONTINUOUS CABLE CONNECTION.* *NIKKEN CNC 180 MA RATARY TABLE PACKAGE INCLUDES:* *7.08" DIAMETER RAOTARY TABLE WITH 2.36" X 1.57" THRU-HOLE, SERVO MOTOR, SERVO AMPLIFIER, PIPING AND HOSES FOR CLAMP MECHANISM AND ELECTRICAL I/F* *TABLE SPECIFICATIONS:* *Diameter of Spindle Hole:...2.36" X 1.57"* *Center Height:..............5.31"* *Width of "T" Slot:..........18mm* *Clamping System:............Air* *Clamping Torque:............306 Ft Lbs* *Min. Increment:.............0.001-Degree* *Max Rotation Speed:.........33.3rpm* *Total Reduction Ratio:......1/90* *Indexing Accuracy:..........+/- 20 seconds* *Repeatability:..............+/- 2 seconds* *Net Weight:.................96 pounds* *Max Work Load on the Table:* *Vertical:.....224 LBS.* *Horizontal:...448 lbs*		
NR20256YDC0	NIKKEN CNC 202 MA NC ROTARY TABLE PACKAGE (SEE NOTE)	1	$25,200

	NOTE: ROTARY TABLE WILL BE MOUNTED ON THE RIGHT SIDE. *NOTE: INCLUDES CONTINUOUS CABLE CONNECTION.* *NIKKEN CNC 202 MA RATARY TABLE PACKAGE INCLUDES:* *7.87" DIAMETER RAOTARY TABLE WITH 2.36" X 1.57" THRU-* *HOLE, SERVO MOTOR, SERVO AMPLIFIER, PIPING AND HOSES* *FOR CLAMP MECHANISM AND ELECTRICAL I/F* *TABLE SPECIFICATIONS:* *Diameter of Spindle Hole:...2.36" X 1.57"* *Center Height:...............5.31"* *Width of "T" Slot:..........18mm* *Clamping System:............Air* *Clamping Torque:............306 Ft Lbs* *Min. Increment:.............0.001-Degree* *Max Rotation Speed:.........33.3rpm* *Total Reduction Ratio:......1/90* *Indexing Accuracy:..........+/- 20 seconds* *Repeatability:..............+/- 2 seconds* *Net Weight:.................110 pounds* *Max Work Load on the Table:* *Vertical:.....224 LBS.* *Horizontal:...448 lbs*		
V56Y91602C0	MAZAK MR-160RAM01 NC ROTARY TABLE PACKAGE (SEE NOTE)	1	$20,200
	NOTE: ROTARY TABLE WILL BE MOUNTED ON THE RIGHT SIDE. *TABLE CAN BE MOUNTED ON THE LEFT SIDE - CONTACT* *PRODUCT GROUP* *NOTE: INCLUDES CONTINUOUS CABLE CONNECTION.* *MAZAK MR-160RAM01 ROTARY TABLE PACKAGE INCLUDES:* *6.5" Diameter Rotary Table With 1.57" Thru Hole* *Servo Motor And Servo Amplifier* *Piping And Hoses For Clamp Mechanism* *Electrical I/F* *TABLE SPECIFICATIONS:* *Weight............................... 88 lbs.* *Center Height........................ 5.51 in.* *Overall Height....................... 9.37 in.* *Maximum RPM.......................... 41.6 RPM* *Resolution........................... 0.001 deg.* *Indexing Accuracy.................... 20 sec.* *Repeatability........................ +/-2 sec.* *Clamping Torque...................... 229 ft-lbs.* *Maximum Load........................176 lbs. Vertical*		
V56Y92002C0	MAZAK MR-200RAM01 NC ROTARY TABLE PACKAGE (SEE NOTE)	1	$21,400

	NOTE: ROTARY TABLE WILL BE MOUNTED ON THE RIGHT SIDE. TABLE CAN BE MOUNTED ON THE LEFT SIDE - CONTACT PRODUCT GROUP *NOTE: INCLUDES CONTINUOUS CABLE CONNECTION.* *MAZAK MR-200RAM01 ROTARY TABLE PACKAGE INCLUDES:* *7.95" Diameter Rotary Table With 1.77" Thru Hole* *Servo Motor And Servo Amplifier* *Piping And Hoses For Clamp Mechanism* *Electrical I/F* *TABLE SPECIFICATIONS:* *Weight................................ 108 lbs.* *Center Height......................... 5.51 in.* *Overall Height........................ 10.59 in.* *Maximum RPM.......................... 33.3 RPM* *Resolution............................. 0.001 deg.* *Indexing Accuracy..................... 20 sec.* *Repeatability......................... +/-2 sec.* *Clamping Torque....................... 258 ft-lbs.* *Maximum Load.........................220 lbs. Vertical*		
MC6005651C0	NIKKEN 6" MANUAL 3-JAW CHUCK FOR CNC-180 PN# 7-812-0600	1	$1,800
MC8005651C0	NIKKEN 8" MANUAL 3-JAW CHUCK FOR CNC-202 PN# 7-812-0800	1	$2,000
NT1255651C0	NIKKEN P-125S MANUAL TAILSTOCK FOR CNC-180 & CNC-202/REQ.T-ST	1	$2,600
	NOTE: (REQUIRES T-SLOT TABLE)		
NT1705651C0	NIKKEN P-170S MANUAL TAILSTOCK FOR CNC-260 & CNC-302/REQ.T-ST	1	$2,800
	NOTE: (REQUIRES T-SLOT TABLE)		
V5651764002	KITAGAWA TS-200 TAILSTOCK FOR MAZAK MR-160 & MR-200/REQ.T-ST	1	$2,200
	NOTE: (REQUIRES T-SLOT TABLE) *Height of Center Tip..........................5.51"* *Overall Height................................6.67"* *Diameter of Tip..............................0.39"* *Max Center Travel............................1.97"* *Length of Center..............................1.73"* *Overall Max Length of Tailstock.............15.16"* *Length of Base................................9.06"* *Width of Base................................4.72"* *Overall Width of Base.........................6.42"*		
V5651764004	6.5" 3-JAW MANUAL CHUCK SC-6T USED FOR INDEXER & ROTARY PKGS	1	$1,900
	Fits: MR-160RAM01		
V5651764005	7.48" 3-JAW MANUAL CHUCK SC-7T USED FOR INDEXER & ROTARY PKGS	1	$2,200
	Fits: MR-200RAM01		
	Automation - Robots		
XMSRIF001C0	STD. ROBOT INTERFACE ONLY	1	$7,000

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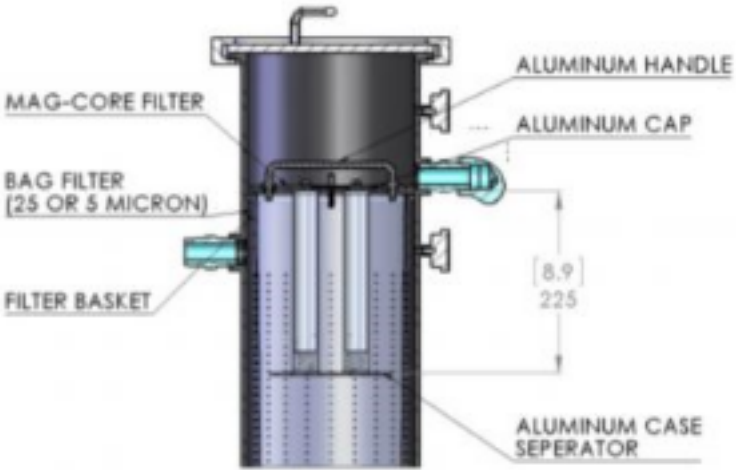|			
	PLEASE SEE MACHINE PRICE LIST FOR AUTO DOOR, CHUCK AIR BLAST , AND OTHER ASSOCIATED ACCESSORIES REQUIRED FOR ROBOT APPLICATIONS. MUST ENTER AN ENGINEERING REQUEST FOR VCN/VCS MACHINES DUE TO UPCOMING SHEET METAL CHANGES. *NOTE: DOES NOT INCLUDE FIXTURE I/F FOR MACHINING CENTERS. AN ENGINEERING REQUEST WITH APPLICATION DETAILS MUST BE SUBMITTED.* *Beyond the quoted robot I/F ONLY, Mazak Corporation takes no other responsibility or financial liability for any associated automation to this machine tool or option.*		
	Automation - Miscellaneous		
AS05056YDC0	AUTO POWER OFF(BREAKER TRIP)	1	$820
AS09056YDC0	AUTO POWER ON/OFF + WARM-UP	1	$3,900
	Control - Software		
NO54056YDC0	TAP RETRACT FUNCTION	1	$540
	If for any reason a synchronous tapping process has been stopped inside the work piece either by emergency stop or by abrupt power down/loss of power, the tap can be recovered from the work piece. At the beginning of a rigid tap cycle the NC memorizes the federate and pitch and remains current even if power is lost to the machine. To recover the Tap after a loss of power or e-stop, remove all alarms from the control and press the TAP RETRACT soft key to reverse the direction of the tap. Notes and Cautions: Rate of Retract Speed is governed by BA72(%), Requires Synchronous Tapping, Tap retract function cannot be used for synchronous tapping on a inclined plane. This is Option #68 on the control options page.		
NO46456YDC0	ETHERNET OPERATION FUNCTION	1	$1,500
	Ethernet Operation Function: Option #54 on control options page. *With NC and host computer connected with Ethernet, any large size EIA/ISO program pre-saved within the host computer can be executed for automation while transferring that program to the NC memory under an Ethernet-based network environment. Notes and Cautions: EIA/ISO Program only.*		
NO10356YDC0	EIA/ISO CONVERSION (REQUIRES G12.1,G07.1)(G1D)	1	$4,500
	Allows the user to take their Mazatrol Program and then convert it into a G-Code program. However, "Canned Cycles" do not get output in this conversion, making it seem that the code has been written manually. Once converted to the new format, the user has the capability to make edits to the program on their personal computer. *Option #25 on the control options page.* *Option is not available for the machines w/Fanuc.*		

Shown with optional equipment

NO07256YDC0	AUTO PECKING CYCLE WITH LOAD DETECTION	1	$610
	This option allows the control to continuously monitor the cutting load of the drill in use. By setting the threshold on the drill monitor display, the drill auto pecking cycle will execute the pecking process only when the machine torque exceeds the threshold level. Option #53 on control option page. Notes and Cautions: Auto pecking cycle helps prevent tool breakage and reduces machine down time. On a Matrix Mill control this option can be used with Mazatrol and EIA programs. On a Fusion 640M this option can only be used in Mazatrol. On a Matrix Lathe and Fusion 640T this option can ONLY be used in Mazatrol. Only for drill application.		
NO15756YDC0	MAXIMUM PROGRAM SIZE : 8MB NOTE:STANDARD PROGRAM SIZE 2MB	1	$2,000
NO42056YDC0	3-D COORDINATE CONVERSION	1	$810
	This option allows the programmer to temporarily shift the work piece origin to a new location using any combination of X, Y, Z, and B and make that the active cutting plane. Option #19 3D CO-OR ROT on option page of control. *Notes and Cautions:* *Standard EIA Canned Cycles can be used in this mode.* *Mazacc 2D can be used in this mode.* *For parts with compound angled features, please see option Tilted Work Plane (G68.2).*		
NO44256YDC0	B)GOO SLOPE CONSTANT	1	$670
	G00 Slope Constant refers to how the machine handles the rapid moves. Without this option, an axis will accelerate and decelerate as straight lines on a graph. With this function, the axis move will be much smoother. A graph that shows the axis move would have curved lines. This results in Smother Acceleration/Deceleration by filtering and shorter time for short distance movement. Notes and Cautions: This is Option #33 on the control option page.		
NO48756YDC0	FINE SPLINE INTERPOLATION (EIA)(G06.1)	1	$4,000
	Spline Interpolation automatically creates a curve that smoothly traces specified points. It will blend away errors generated by the post by calculating a best fit style curve based upon the input points and parameters. Notes and Cautions: This is a Group 01 code. It is canceled by adding any other Group 01 code (G00, G01, G02, G03 etc.). The amount of deviation allowed from the original generated tool path and segments to be included are dictated by parameters (F100-F104).		
NO03056YDC0	MAZATROL 3D PROGRAM SOFTWARE	1	$8,200
NO49156YDC0	INCH/METRIC CONVERSION	1	$630

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	Allows quick changing of the base units for the machine from inch to metric, and metric to inch. Also allows the customer to input and view program and tool data in either inch or metric units, regardless of the base units the machine is setup in. Notes and Cautions: Certain variable data in the control is stored in both inch and metric values. Care must be taken to ensure that changes made to one system are also made in the other system if the customer wishes to switch back and forth. To change the base units of the machine requires powering the machine off and on. This is Option #31 on the control options page.		
NO49556YDC0	NURBS INTERPOLATION (G06.2)	1	$7,600
	Allows a programmer to create a compound curve using Nurb control points instead of the normal point to point method of programming. This method of programming produces a smooth, predictable curve with fewer lines of code than would otherwise be required. This is Option #48 on the control options page. Notes and Cautions: The advent of controls with greater memory size and highly capable CAM systems able to output thousands of accurate points has reduced the need for this option. Sample program is on a Smart QT lathe creating a roughly 1.5" Radius on a 6" OD Corner on the face of a part. Usage on mills is very similar.		
NO60056YDC0	B)CYLINDRICAL INTERPOLATION	1	$840
	Installing the CYLINDER option enables the interpolation milling commands G07.1 and G12.1 to be utilized. Option #38 on control option page. Notes and Cautions: If G07.1 or G12.1 is commanded without the CYLINDER option installed, ALARM 936 NO OPTION FOUND will occur. Option #21 POLAR COORDINATES INPUT does not enable the use of command G12.1		
CCFMM56YD0E	MACHINE MONITOR CYBER FACTORY DPT# 3	1	$7,400
	NOTE: Monitoring Software resides in a desktop computer which is networked to Mazatrol Matrix controls. Cyber Monitor makes it possible to remotely monitor the machines and their production status, such as a workpieces being processed, cutting conditions, and alarms in real time for machines connected in a network. Also the daily production output or production result history for each machine can be seen with graphic representation, so that managers can see what has to be done to improve their productivity.		
D71USA0003F	REMOTE DIAGNOSTIC KIT (MATRIX) NET-OP DPT#3	1	$2,600
MTSOFTWRKY0	MT CONNECT ADAPTER SOFTWARE	1	$710
	NOTE: For all SMOOTH controls. Installs on CNC. controls Requires license file. Includes MTConnect AGENT with installation.		
MEMEX801525	ONE(1) MERLIN SERVER MTCONNECT CONNECTION LICENSE FOR MACHINE	1	$1,500
	INCLUDES: -1 MERLIN Server MTConnect connection license This machine access license affords (1) MTConnect capable machine access to MERLIN Server, part of the MERLIN suite of productivity enhancement tools.		
MEMEX801025	MERLIN DASHBOARD LITE WITH (5) USER CLIENT ACCESS LICENSE	1	$9,000
	INCLUDES: -5 User Client Access License -Dashboard Application -Resident Installed REQUIRES: MERLIN Server MTConnect connection license. One (1) per machine. MERLIN Dashboard Lite is a dashboard application used to track equipment availability. Upgradable to the full version of MERLIN.		

	Control - Software - General 3-Axis		
NO44356YDC0	B)MAZACC-2D SOFTWARE(SHAPE COMPENSATION) (G61.1)	1	$810
	Option #14 - B) MAZACC-3 2D SOFTWARE (SHAPE COMP). This function improves errors in control system by implementing the appropriate acceleration/deceleration according to the particular machining contour, even for movement commands that require simultaneous control of the rotational axes. Notes and Cautions: Commonly used with G05 P1 (High speed machining mode) and ,K (Accuracy coefficient). Can also be used with; Inclined-plane machining mode – G68.2 P1, Polar coordinate interpolation – G12.1, Tool tip point control – G43.4, Tool radius compensation for 5-axis machining – G41.5, Work piece error correction – G54.4, 3D Coordinate Conversion – G68. Not selectable with; Dynamic Offsetting II – G54.2, Cylindrical Interpolation – G07.1, Sub Program Calls - G65 and G98, Tool Radius Comp - G41 and G42, Skip Function (measurement) G31 and threading. This is Option #14 on the control options page.		
	Control - High Speed Options		
NO44456YDC0	D)MAZACC-3D HIGH-SPEED SOFTWARE PACKAGE(G61.1 & G05P2	1	$4,500
	MAZACC - 3D HIGH SPEED SOFTWARE (G05) This feature gives you 500 block look ahead, which allows high-speed processing of programs that have free curved surfaces with micro segmented lines. Suggested additional options: G61.1 (Shape Comp) and High Speed Smoothing. Notes and Cautions: G5 P2 - Turns on, G5 P0 - Turns off. Works with G54.4, G68.2, G43.4, G06.1, G41.x/G42.x, G61.1 and High Speed Smoothing. Will not work with G54.2 Dynamic Comp Type 2 (use G54.4 instead). Maximum feedrates restrictions apply. Option #13 on control options page.		
NO49756YDC0	D)HIGH SMOOTHING CONTROL (REQUIRES MAZACC-3D)	1	$1,030
	(HIGH SMOOTHING CONTROL) Option 2 on the controls option page. The high-speed smoothing control function allows rapid and highly accurate execution of an EIA/ISO program which is prepared to approximate free-curved surfaces with very small lines. Compared with the conventional high-speed machining mode, this function allows machining almost free of cut-surface defects and stripes. Notes and Cautions: Use of (parentheses) as required to insert a comment. It should be noted here, however, that useless deceleration may be caused by a move-free block. Move-free are, for instance, an empty block (null contents), one beginning and ending with "("and ")", a G91-block with a moving distance of zero (0) as well as a G90-block for the very same position. F3 = 1: High-speed smoothing control valid, 0: High-speed smoothing control invalid (Only high-speed machining valid). Geometry compensation G61.1 and High Speed G05 P2 is needed for smoothing to be valid.		
	Control - Software - General 4-Axis		
NO44556YDC0	B)SHAPE COMPENSATION FOR ROTARY AXES (G61.1)	1	$670
	Works in Conjunction with Shape Compensation G61.1. The geometry compensation function (G61.1) is provided to reduce conventional geometry errors caused by delayed follow-up of smoothing circuits and servo systems. In other words, reduce the over shoot and undercut of geometry by controlling acceleration/deceleration in a Rotary axis by multiple parameter filters. Notes and Cautions: Same as Geometry Shape Compensation (G61.1) but for Rotary Axis only. Option #32 on Control Option page.		
NO14856YDC0	EIA DYNAMIC COMPENSATION 2 (INCLUDES 1)	1	$1,600
	N/A		
	Control - Hardware Options		
NO80556YDC0	IC MEMORY CARD OPERATION (INCLUDES IC MEMORY CARD I/F)	1	$3,500
	NOTE: Required to run directly from memory card or drip feed programs.		
NOXXRS232C1	USB TO RS-232 INTERFACE PART# D45ZZ002300 DPT#3	1	$160
CSB4MTS0000	SB4MTS SMARTBOX PACKAGE (ONE PER MACHINE) W/ SENSOR PREP	1	$5,700
	MT Connect Adapter not included. Needs to be ordered separately.		
CSB4MT00000	SB4MT SMARTBOX PACKAGE (ONE PER MACHINE OR MULTIPLE MACH.)	1	$4,500

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	MT Connect Adapter not included. Needs to be ordered separately.		
CSBSTAND000	SMARTBOX STAND	1	$990
	Chip Control and Coolant - Coolant		
CS16456YDC0	FLOOD COOLANT POWERFUL FLOOD (100PSI)	1	$1,100
CS22556YDC0	COOLANT THROUGH SPINDLE W/FLOOD(5KG,71PSI)	1	$3,700
CS48056YDC0	HI-PRESS.COOLANT THRU SPINDLE SYSTEM (15KGF,213PSI)	1	$4,900
CS70356YDC0	PRESSURE SWITCH FOR SPINDLE THRU-COOLANT	1	$1,700
XSFP156YDC0	1000 PSI SUPERFLOW PREP W71PSI THRU SPINDLE COOLANT W/FLOOD	1	$7,400
	NOTE: IF 213 PSI IS REQUIRED AN ENGINEERING REQUEST MUST BE SUBMITTED. ELECTRICAL PREP IS INCLUDED IN THE PRICE.		
XMSFL524007	MAZAK SUPER FLOW S8 HIGH PRES. COOLANT UNIT (1000 PSI/8 GPM)	1	$9,100
	INCLUDES: Single Bag Type Filter *Single Pressure Super Flow Unit* *** Mist collection system recommended.* *** Requires machine preparation. Not included in price.* *** Not recommended for cast iron applications.* *** For MTV series or any other machine that does not come with a standard total enclosure, Top covers are mandatory.* *** Requires selection of "Prep 1000 superflow electrical"* *** Requires selection of "Prep turning tool to accept 1000 PSI" - EACH: Tool Prep is for each tool*		
XMSFL524008	MAZAK SUPER FLOW T8 HIGH PRES. COOLANT UNIT (1000PSI/8GPM)	1	$10,200
	INCLUDES: Double Bag Type Filter *Single Pressure Super Flow Unit* *** Mist collection system recommended.* *** Requires machine preparation. Not included in price.* *** Not recommended for cast iron applications.* *** For MTV series or any other machine that does not come with a standard total enclosure, Top covers are mandatory.* *** Requires selection of "Prep 1000 superflow electrical"* *** Requires selection of "Prep turning tool to accept 1000 PSI" - EACH: Tool Prep is for each tool*		
XMSFL524009	MAZAK SUPER FLOW V8M VARIABLE HIGH PRESSURE COOLANT UNIT	1	$13,800
	INCLUDES: Double Bag Type Filters with Manual Crossover *Variable Pressure Super Flow Unit* *Inverter Drive for 200-1000 PSI* *Pressure Feedback Loop For Multi Orifice Tools* *** Mist collection system recommended.* *** Requires machine preparation. Not included in price.* *** Not recommended for cast iron applications.* *Voltage......230-460 3 Phase* *Customer Must Specify* *** For MTV series or any other machine that does not come with a standard total enclosure, Top covers are mandatory.* *** Requires selection of "Prep 1000 superflow electrical"* *** Requires selection of "Prep turning tool to accept 1000 PSI" - EACH: Tool Prep is for each tool*		
XMSFL524005	MAZAK SUPER FLOW V8A VARIABLE HIGH PRESSURE COOLANT UNIT	1	$16,800

	INCLUDES: Double Bag Type Filters With Auto Crossover *Variable Pressure Super Flow Unit* *Inverter Drive for 200-1000 PSI* *Pressure Feedback Loop For Multi Orifice Tools* *** Mist collection system recommended.* *** Requires machine preparation. Not included in price.* *** Not recommended for cast iron applications.* *Voltage......230-460 3 Phase* *Customer Must Specify* *** For MTV series or any other machine that does not come with a standard total enclosure, Top covers are mandatory.* *** Requires selection of "Prep 1000 superflow electrical"* *** Requires selection of "Prep turning tool to accept 1000 PSI" - EACH: Tool Prep is for each tool*		
XSF575TRAN0	VARIABLE DRIVE SUPERFLOW STEP- DOWN TRANSFORMER FOR 575V	1	$1,700
	NOTE: 3ph 7.5kVA 575VD-480Y Step-down Transformer to supply power to the Variable Drive SuperFlows on a machine with 575V Transformer.		
XMAGCOREFK0	MAG-CORE MAGNET CANISTER VESSEL DROP IN FILTER	1	$1,100
	Filtration system easily added for any operation. Absorbs the smaller and heavier particles while the media is suspended to enhance filtration. *Drop in magnetic filter for canister filter vessels.* *Machine must have a Superflow coolant unit or existing in line filter vessel. Two Mag-Core filters are recommend for T8 and V8 models or dual bag filter vessel models.*		
	Shown with optional equipment		
CS06056YDC0	OIL MIST COOLANT	1	$4,100
CS06256YDC0	DUCT FLANGE FOR MIST-COLLECTOR DIA.148MM	1	$560
	(Factory Install Only)		
CS14056YDC0	HANDHELD COOLANT NOZZLE	1	$6,100
CS71756YDC0	COVER COOLANT (RECOMMENDED FOR CHIP CONVEYOR)	1	$3,200
	Chip Control and Coolant - Air		
CS01156YDC0	WORKPIECE AIR BLAST	1	$2,100

	M-CODE CONTROLLED WORK AIR BLAST THROUGH THE WORK AIR NOZZLE		
CS00156YDC0	AIR THRU SPINDLE WHILE RUNNING (FOR MACHINE W/O THRU COOLANT)	1	$3,700
	NOTE: Price is for machine WITHOUT thru spindle coolant option.		
CSXX156YDC1	AIR THRU SPINDLE WHILE RUNNING (FOR MACHINE WITH THRU COOLANT	1	$1,700
	NOTE: Price is for machine WITH thru spindle coolant option.		
	Accessories - Tool Measurement		
MTXX156YDC0	AUTO TOOL LENGTH MEASUR.& BREAK. DETECT. (PLUNGER TYPE)	1	$3,700
MBX1256YDC0	RENISHAW OTS-AA OPTICAL TOOL SETTER INCLUDING PREP FOR MMSB	1	$4,900
	NOTE: THIS PACKAGE INCLUDES THE RENISHAW WIRELESS OTS-AA TOOL SETTER WITH ROTATING TOOLSETTING SOFTWARE CABABLE OF SETTING LENGTH, DIAMETER, AND DETECTING BROKEN TOOLS. THIS PACKAGE ALSO INCLUDES THE PREP FOR MAZAL MONITORING SYSTEM B OPTICAL OMP60 WITH INSPECTION PLUS SOFTWARE. THIS OPTION IS FACTORY INSTALLED AND DOES NOT INCLUDE THE OMP60 PROBE OR TRAINING FROM RENISHAW.		
	Accessories - Part Probe		
MBX1156YDC0	DUAL PROBING KIT OMP60/OTS AA W/EIA INSPECT PLUS	1	$8,600
	NOTE: INCLUDES RENISHAW OMI-2T DUAL PROBE OPTICAL RECIEVER, OMP60 OPTICAL PROBE (AA BATTERY), WIRELESS OTS-AA TOOLSETTER, INSPECTION PLUSE SOFTWARE, AND ROTATING TOOL SETTING SOFTWARE. FACTORY INSTALLED ONLY. THIS PACKAGE DOES NOT INCLUDE TRAINING FROM RENISHAW		
	Accessories - Tool Holders		
OO04056YDC0	PULL STUD BOLT	1	$60
	Accessories - Tool Package		
SDSANDVIKTC	$5,000 TOOLING CERTIFICATE FOR SANDVIK TOOLING DPT#43	1	$3,000
	INCLUDES: Certificate issued for general standard and special tooling from Sandvik for $5,000 US value. NOTE: Customer chooses which tooling they require for their new machine purchase. Technical support from Sandvik specialists also available for tool selection.		
SDSECO000TC	$5,000 TOOLING CERTIFICATE FOR SECO TOOLING DPT#43	1	$3,000
	INCLUDES: Certificate issued for general tooling from SECO for $5,000 US value. NOTE: Customer chooses which tooling they require. Cannot be used for special ordered items.		
SDKM00000TC	$5,000 TOOLING CERTIFICATE FOR KENNAMETAL KM TOOLING DPT#43	1	$3,000

	INCLUDES: Certificate issued for Kennametal standard products from Kennametal for $5,000 US value. If more than one certificate is purchased one certificate will be issued to reflect the total combined dollar amounts. NOTE: Up to 10 certificates allowed per machine. Customer chooses which tooling they require. Machine should be equipped with KM tool magazine.		
	Miscellaneous - Documentation		
SD07456YDC0	ONE SET OF MANUALS (PAPER) (INSTEAD OF STD CD MANUAL)	1	$340
MBX1556YDC0	HARD COPY MANUALS FOR RENISHAW HARDWARE	1	$210
SD07556YDC0	ADDITIONAL SET OF MANUALS (CD)	1	$340
	NOTE: The CD-ROM set consists of all maintenance, operation, parts, electrical, PLC, service procedure, tooling, CNC programming and operation manuals.		
SD07656YDC0	ADDITIONAL SET OF MANUALS (PAPER)	1	$630
COPTMD1000E	CD ROM OPTIMIZER (2 CD SET)	1	$640
	NOTE: The Optimizer Technical Library CD-ROM set consists of all maintenance, operation, parts, electrical, PLC, service procedure, tooling and CNC programming & operation manuals.		
CAOPTPREFKY	OPTIMIZER PREFERRED TECHNICAL LIBRARY KY PROD 2 CD ROMS	1	$2,000
	NOTE: The Optimizer Technical Library CD-ROM set consists of all maintenance, operation, parts, electrical, PLC, service procedure, tooling and CNC programming & operation manuals. The PREFERRED Edition is machine serial number specific for a specific machine with options.		
	Miscellaneous - Other		
SD14056YDC0	FOUNDATION KIT(J-BOLTS)	1	$360
SD760KYP0C0	ELECTRICAL CONTROL BOX UL STANDARD(480V)	1	$1,100
	(Factory Install Only)		
PL01056YDC0	OPERATION END BUZZER	1	$810
PL08456YDC0	SIGNAL TOWER (OPERATION END YELLOW) SQUARE	1	$850
PL08356YDC0	SIGNAL TOWER (3 COLOR LIGHTS, KOD)	1	$990
WL01356YDC0	ADDITIONAL WORK LIGHT(HALOGEN LIGHT)	1	$650
V240V480VM0	240V TO 480V MAIN BREAKER FIELD CONVERSION KIT	1	$2,700
	(Field Install Only) 240V to 480V Main Breaker Retrofit Kit Includes: - Main Breaker UL Spec. - Tag - Breaker Spacer . DELIVERY IS 4 - 6 WEEKS ARO		
V480V240VM0	480V TO 240V MAIN BREAKER FIELD CONVERSION KIT	1	$2,700

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	(Field Install Only) *480V to 240V Main Breaker Retrofit Kit Includes:* *- Main Breaker UL Spec.* *- Tag* *- Breaker Spacer* . *DELIVERY IS 4 - 6 WEEKS ARO*		
	Miscellaneous - Training		
V7141921007	ADDITIONAL ONSITE TRAINING BY RENISHAW W/CAL. TOOL	1	$5,400
	INCLUDES: 2 days onsite training by Renishaw and *Calibration Tool.* *SPECIAL NOTE: For installation in Mexico add $2,000.*		
MAINTPROG00	PROGRAM / MAINTENANCE TRAINING $500 PER PERSON DPT#9	1	$500
	NOTE: Separate customer PO required for Mazak *Training Department.*		
	Miscellaneous - Freight & Packaging		
3EXPACK56YD	EXPORT PACKING WITH ISPM15 CERTIFIED EXPORT CRATE MACHINE	1	$7,500
	NOTE: Export packing for machine WITHOUT chip conveyor. *Treated wood (Bug Free).*		
4EXPACK56YD	EXPORT PACKING WITH ISPM15 CERTIFIED EXPORT CRATE MACH&CC	1	$8,200
	NOTE: Export packing for machine WITH chip conveyor. *Treated wood (Bug Free).*		