

Design Issue Software Improvement



Published date		Quality record No.	EA734EF031S00
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Machine model	734	Machine name	MAZATROL FUSION 640T/MT/TE			Area Spec	ALL
Unit group		Unit name			NC Unit	M640T	
Summary	MAZATROL FUSION 640T/MT/TE 出図完了報告書 <D6版> MAZATROL FUSION 640T/MT/TE Software completion report <Version D6>						
Computer		Operating System	Win95	Software Name	M640T/MT/TE	D6	
Machine S/N		Customer name		Adaptation Time			

Content

1.[Outline]
This is a report that MAZATROL FUSION 640T/MT/TE Software version D6 is released.
For details, see the attached "D6-version release notification".

2.[Revision]
(1) Functional improvement: 1 items
-Increase of Languages (Hungarian, Russian, Slovakian)
(2) Modifications of problems: 17 items For each detail, see [5.1 The table of corrected software version D6].

3.[Solution after release]
Yet-to-be-shipped machine: With version D6
For the machines in the Plant, change the software to the version D6 according to the Customers Satisfaction.
Already-shipped machine: On request
PLC Ladder is compatible with D6 version.
There is addition parameter. About the details of addition parameter, please refer to "5.1 Added Parameter in version D6".

Check item number		Check division		Matrix List	
Know-how division	Necessary Nothing	Know-how Sheet		Claim DB number	
Related Notice		Service Guide	Necessary		

Document name	nec.	Delivery	Document name	nec.	Delivery	Document name	nec.	Delivery
ROM Cassette	nec.							
CD-ROM	unec.							
FD	nec.							
Communication	unec.							
Other	unec.							

Approval	Inspect	Create
2005/03/07	2005/03/07	2005/03/07
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**MAZATROL FUSION 640T-MT-TE software
D6 version drawing release**

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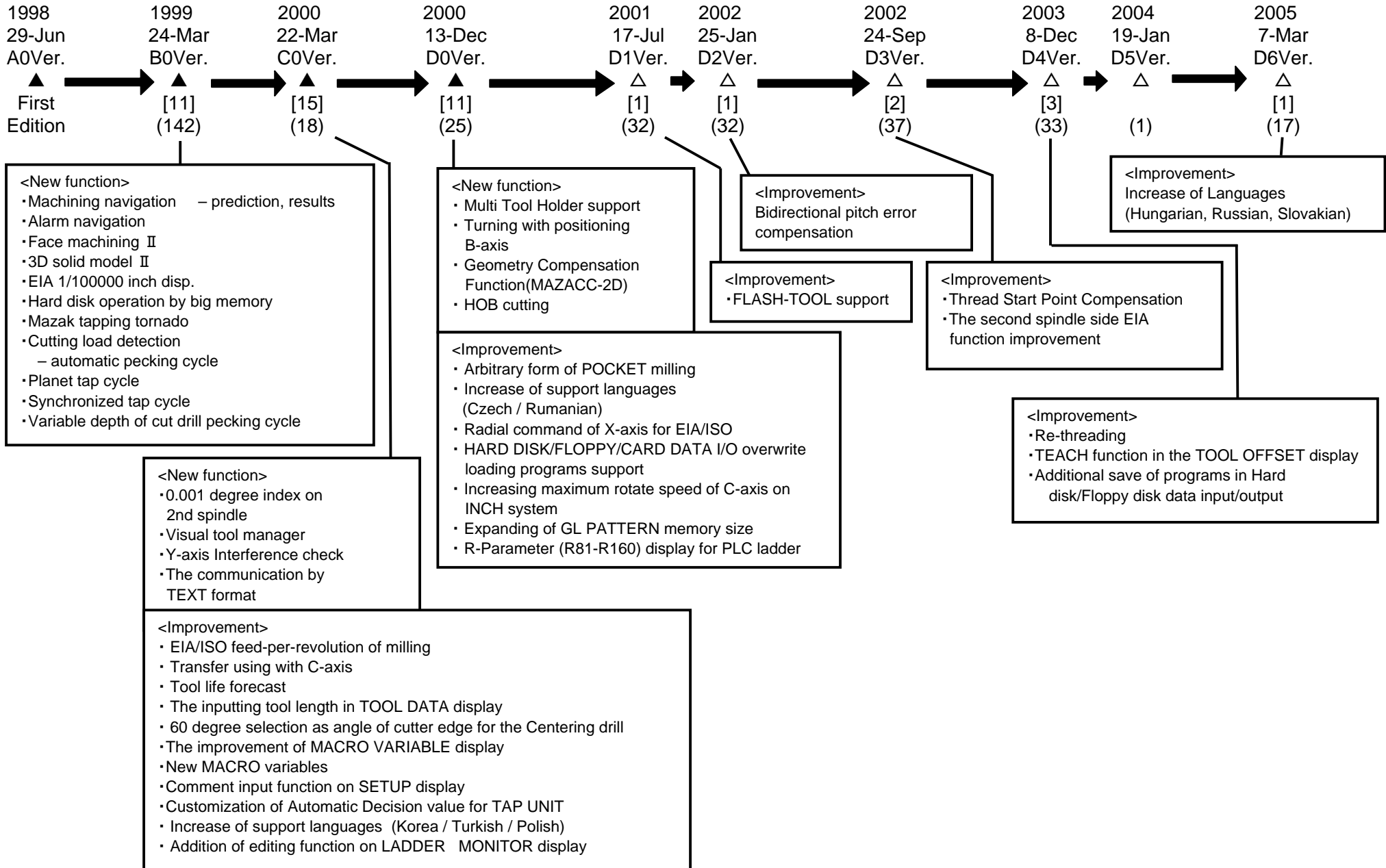
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1.The Process of development

[] New function / Improvement
 () Number of corrected problem items



2 Explanation about Improvement

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No.	Function Name	Program		Notes
		MAZ	EIA	
1	Increase of Languages (Hungarian / Russian / Slovakian)	STD		

3 The career of version

No.	System	System No.	K58	Release data						
				2001	2002	2002	2003	2004	2005	
				Jul	Jan	Sep	Nov	Jan	Mar	
				17	25	24	8	19	7	
1	MAIN-A	365/369W000		D1	D2	D3	D4	D5	D6	
2	MAIN-B	369W001		D1	D2	D3	D4	D5	D6	
3	LG-JPN	Japanese	369W010	1	D1	D2	D3	D4	D5	D6
4	LG-ENG	English	369W011	0	D1	D2	D3	D4	D5	D6
5	LG-GER	German	369W012	2	D1	D2	D3	D4	D5	D6
6	LG-FRE	French	369W013	3	D1	D2	D3	D4	D5	D6
7	LG-ITA	Italian	369W014	4	D1	D2	D3	D4	D5	D6
8	LG-SPA	Spanish	369W015	5	D1	D2	D3	D4	D5	D6
9	LG-NOR	Norwegian	369W016	6	D1	D2	D3	D4	D5	D6
10	LG-SWE	Swedish	369W017	7	D1	D2	D3	D4	D5	D6
11	LG-FIN	Finnish	369W018	8	D1	D2	D3	D4	D5	D6
12	LG-CHI	Chinese (Traditional)	369W019	9	D1	D2	D3	D4	D5	D6
13	LG-DUT	Dutch	369W020	10	D1	D2	D3	D4	D5	D6
14	LG-ROK	Korean	369W021	11	D1	D2	D3	D4	D5	D6
15	LG-DAN	Danish	369W022	13	D1	D2	D3	D4	D5	D6
16	LG-POR	Portuguese	369W023	12	D1	D2	D3	D4	D5	D6
17	LG-TUR	Turkish	369W024	15	D1	D2	D3	D4	D5	D6
18	LG-CZE	Czech	369W025	14	D1	D2	D3	D4	D5	D6
19	LG-PLI	Polish	369W026	16	D1	D2	D3	D4	D5	D6
20	LG-RUM	Rumanian	369W027	17	D1	D2	D3	D4	D5	D6
21	LG-HUM	Hungarian	369W028	18						D6
22	LG-RSA	Russian	369W029	19						D6
23	LG-SVK	Slovakian	369W030	20						D6

• The M640 language environment is able to be changed by using the parameter, "K58"

• There are NC division 3 kinds. Please use a software of system number for each machines.

NC Classification	System No.	
	BND-369W000	BND-365W000
MAZATROL FUSION 640 T	MP, DT series SQT100/200 sub spindle supplied (2nd spindle 0.001 degree index type)	QT, ST, M4, M5, PM, MT SQT series except the left machine
MAZATROL FUSION 640 MT	INTE-SY	INTE series except for INTE-SY
MAZATROL FUSION 640 TE	SQR series	—

Please refer the following about the available language combination of Windows95 and M640

Windows95 language	M640 language
Japanese	Japanese
English	English / German / French / Italian / Spanish / Swedish / Dutch / Norwegian / Finnish / Portuguese / Danish / Turkish / Polish / Czech / Rumanian / Hungarian / Slovakian
Chinese (Traditional)	Chinese (Traditional)
Korean	Korean
Russian	Russian

4. Precautions of version up to D6 version

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1. PLC Ladder is compatible with D5 version.
2. Various data of NC are compatible with it.
3. There is addition parameter.

5.1 Added Parameter in version D6

<TY0853>

Address	Meaning		Description
P4 (bit 2)	a fixed hole-drilling cycle during G68.5 with the 2nd spindle Invalid/Valid		During G68.5 with the 2nd spindle P4(bit2)=0; a fixed hole-drilling cycle invalid. P4(bit2)=1; a fixed hole-drilling cycle valid.
	Unit	-	
	Effective condition	Instant	
	Applicable program	E	

<improvement>

Address	Meaning		Description
P4 (bit 6)	The tool life data rewrite protect Valid/Invalid		In the TOOL DATA screen, if the program rewriting key is locked P4(bit6)=0; the life time , used time , life number and used number of the tool can be rewritten. P4(bit6)=1; the life time , used time , life number and used number of the tool cannot be rewritten.
	Unit	-	
	Effective condition	Instant	
	Applicable program	M,E	
P4 (bit 7)	Maintenance check data rewrite protect Valid/Invalid		In the MAINTENANCE CHECK screen, if the program rewriting key is locked P4(bit7)=0; the life time , used time , life number and used number of the tool can be rewritten. P4(bit7)=1; the life time , used time , life number and used number of the tool cannot be rewritten.
	Unit	-	
	Effective condition	Instant	
	Applicable program	M,E	

<TY0873>

Address	Meaning		Description
P12 (bit 4)	Acceleration distance clamp release for thread cutting		P12(bit4)=0:Invalid The acceleration distance for thread cutting unit is not clamped. P12(bit4)=1:Valid The acceleration distance for thread cutting unit is clamped.
	Unit	-	
	Effective condition	Instant	
	Applicable program	M	

<Re-threading function>

Address	Meaning		Description
B175	Adjustment coefficient for Re- threading function		Coefficient in which the communication time between spindle amplifier and NC is adjusted.(fixed value)
	Unit	-	
	Effective condition	Instant	
	Applicable program	M,E	

5.2 Revised manual list

The following manuals are revised. Please refer the bellow list about manual number of D6 version.

TITLE	M640T			M640MT	M640TE
	MP·DT	SQT	QT·M4·M5	INTEGREX	SQR
OPERATING MANUAL (OPERATING NC UNIT)	H734S30071	H734S30081	H734S30091	H734S30061	H734S30101
OPERATING MANUAL (AUTOMATIC OPERATION)	H734S40070	H734S40080		H734S40060	H734S40100
PROGRAMMING MANUAL (MAZATROL)	H734PA0070	H734PA0080	H734PA0090	H734PA0060	—
PROGRAMMING MANUAL (EIA/ISO)	H734PB0031				
PARAMETER LIST	H734SA0034				
ALARM LIST	H734SA0042				

5.3 The table of corrected software version D6

No.	Report No.	Before Improvement	After Improvement	T	MT	TE
1	TY0853	Require 2nd spindle slant surface(G68.5) drilling cycle by EIA/ISO Programming. (PAAR)	It is possible to use 2nd spindle slant surface(G68.5) drilling cycle by P4bit2=1 parameter setting.	-	○	-
2	TY0868	When located Y axis -20mm in case of turning cycle by special tool, Surface speed is so high at the constant X axis position. (RAVEMA)	Even if Y axis is not zero position, surface speed is correct as same as Y axis zero position.	○	○	-
3	TY0870	Z axis runs through wrong way at the end point by 2nd spindle threading. (Threading chamfer direction is wrong way) (HUTTER GB)	Threading chamfer is correct direction.	○	○	-
4	TY0873	Even if reduce surface speed, acceleration distance of threading will not be shorter than half of threading lead. (Hikoyama-seiki)	Set parameter P12bit4=1, acceleration distance of threading will be shorter than half of threading lead.	○	○	-
5	TY0874	When save program by FLD, copy the program file to the memory card on the PC and load program by memory card IO, then NC will be enforce shutdown. (Hamamuratekkousho)	Loading program will be correctly.	○	○	○
6	TY0876	When add tool ID specification, tool ID # is not displayed at the bottom of tool # on the position display. (ROTARY POWER)	Display tool name or ID # Correctly.	○	○	○
7	TY0880	When save tool data by CMT I/O on the multiplex and load this data to NC, alarm "516 system error" occur. (Mora Armatur)	Tool data I/O works correctly on the multiplex.	○	-	-
8	TY0882	When tool file number is bigger than 129, open tool file and then windows alarm occurs. (Toyo-seikou)	Windows alarm does not occur.	-	○	-
9	TY0883	When width of rough shape is equal as double nose R in grooving type #1, rough shape is not correctly. (Nissei-kougyo)	When width of rough shape is smaller than tool width, NC will sent alarm.	○	○	-
10	TY0885	When run the tool path check for finish path of pocket milling, NC update programming renewal date. (BREVARD)	Even if run the tool path check, NC never update programming renewal date.	-	○	-
11	TY0897	Once open up shape check windows on the programming management display, it is not able to close the shape check windows. (Ohomi-seisakusho)	Close the windows correctly.	○	○	-

No.	Report No.	Before Improvement	After Improvement	T	MT	TE
12	TY0908	When sent only one tool data of HD#2 from Host PC by DNC I/O on the multiplex, this data will be transfer HD#1side. (MECOTEC)	HD#2 tool data will be transferred HD#2 side correctly.	○	-	-
13	TY3015	On the solid check display, material shape is not correctly like concave shape be shows convex shape. Material shape is correctly on the tool path display. (BORG WARNER)	Shows correctly.	○	○	-
14	TY3017	Position display shows wrong spindle speed, display shows 4500r.p.m instead 4340r.p.m command speed in Bar-IN. (HoukuProducts)	Shows correctly.	○	○	-
15	TY3018	When does not turn the 1st spindle by turning mode and turn the 2nd spindle, the position display does not shows 2nd spindle speed. This problem occurs with bus connection(without ENC2 cable) system. (Y MUK)	Shows correctly.	○	○	-
16	NHCNB 41524	When do the hard disk running, alarm 707 format error occurs at the special block(Tokuda-Kougyou)	Run the hard disk running without alarm.	○	○	○
17	Require	Require the protection of over writing tool life and setting of maintenance display by operating board protect key. (PBR)	Add functional parameter. P4bit6=1is over write protection for tool life data, P4bit7=1is also over write protection for setting of maintenance display by operating board protect key	○	○	○