

MACHINING CHARACTERISTICS
DATA BOOK 1

CONTENTS

	Page
1. Basic Configuration	1
2. Machining Conditions Screen	
2-1 Name of Notch	2
2-2 Machining Condition Menu	3
3. Criteria for Setting of Machining Conditions	
3-1 Criterion by Wire Electrode	
a) Material	7
b) Diameter	8
3-2 Criterion by Workpiece	
a) Workpiece Which Change Resistivity	
b) Workpiece Which Change Electric Condition	10
3-3 Criterion by Machining Classification	12
a) Setting of Taper Cut Conditions	14
b) Setting of Machining Conditions for Stepped Workpiece	14
c) Setting of Lap-cutting Conditions	14
d) Setting of Conditions for Start of Machining	14
e) Others	14

4.	E Pack Used				
4-1	Outline				15
4-2	INFORMATOR (W, M, T, C, F, H)				15
4-3	E Pack List				18
4-4	Caution				20
5.	Machining Characteristics Data				
5-1	Die Steel (hot work tool steel)				
	a)	Brass Wire	0.1 mm (5 to 40 mmt)	23	
	b)	Brass Wire	0.15 mm (5 to 60 mmt)	28	
	c)	Brass Wire	0.2 mm (5 to 100 mmt)	36	
	d)	Brass Wire	0.25 mm (5 to 100 mmt)	50	
	e)	Brass Wire	0.3 mm (40 to 100 mmt)	64	
	f)	Brass Wire	0.33 mm (60 mmt)	74	
5-2	Copper (Cu)				
	a)	Brass Wire	0.2 mm (5 to 100 mm)	77	
	b)	Brass Wire	0.25 mm (5 to 100 mm)	91	
	c)	Brass Wire	0.3 mm (40 to 100 mm)	105	
5-3	Tungsten Carbide (WC-CO)				
	1)	Brass Wire	0.1 mm (5 to 30 mm thick)	116	
	2)	Brass Wire	0.15 mm (5 to 50 mm thick)	121	
	3)	Brass Wire	0.2 mm (5 to 60 mm thick)	128	
	4)	Brass Wire	0.25 mm (5 to 60 mm thick)	138	
5-4	Hot Work Tool Steel				
	a)	Die Steel (SKD-11)	Brass Wire	0.25 mm (125 - 250 mmt)	146~155
	b)	"	"	0.3 mm (125 - 250 mmt)	156~162

5-5 Thin Plate

a) Steel Plate 0.2mm (1 to 3mm) 165~168

5-6 Copper

a) Brass Copper 0.2mm (1 to 3mm) 169~172

5-7 Aluminum

a) Aluminum 0.2mm (1 to 3mm) 173~176

5-8 Graphite

Graphite 0.2mm (10 to 80mm) 177~188

5-9 Aluminum

a) Aluminum 0.2mm (10 to 100mm) 189~ 202
 b) " 0.25mm (40 to 100mm)..... 203~ 211
 c) " 0.3mm (40 to 100mm) 212~ 220

MACHINING CHARACTERISTICS
DATA BOOK 2

MITSUBISHI Wire-Cut EDM System "C-2" Series

Machining Conditions Data for Automatic Second Cut

This machining Conditions Table covers machining conditions for automatic second-cut functions. It is suggested that data be used for your standard second-cut operation. Accordingly it is further suggested that you use data after corrections when offset amount differs according to such factors as machined shape and setting circumstances. Also, hot work tool steel data can apply to other steel. If thickness of workpieces are not found in the Table, please use data applicable to those that are one size larger or smaller than such thicknesses.

CONTENTS

	Page
1. Precautions for second cut	1
1-1 Nozzle	1
1-2 Flow adjustment	1
1-3 Machining condition adjustment method for improved machining accuracy chart 1 machining speed variation examples	2
1-4 Second cut program method	4
1-5 Machine condition	4
2. E-Pack List	5
3. Machining condition	6
<Brass wire 0.2 mm dia.>	
Hot work tool steel 5 mm t	7
Hot work tool steel 10 mm t	8
Hot work tool steel 20 mm t	9
Hot work tool steel 30 mm t	10
Hot work tool steel 40 mm t	11

Hot work tool steel 50 mm t	12
Hot work tool steel 60 mm t	13
<Brass Wire 0.25 mm dia.>	
Hot work tool steel 5 mm t	15
Hot work tool steel 10 mm t	16
Hot work tool steel 20 mm t	17
Hot work tool steel 30 mm t	18
Hot work tool steel 40 mm t	19
Hot work tool steel 50 mm t	20
Hot work tool steel 60 mm t	21
Hot work tool steel 70 mm t	22
Hot work tool steel 80 mm t	23
Hot work tool steel 90 mm t	24
Hot work tool steel 100 mm t	25
Hot work tool steel 125 mm t	26
Hot work tool steel 150 mm t	27
<Brass wire 0.3 mm dia.>	
Hot work tool steel 60 mmt	29
Hot work tool steel 70 mmt	30
Hot work tool steel 80 mmt	31
Hot work tool steel 90 mmt	32
Hot work tool steel 100 mmt	33
Hot work tool steel 125 mmt	34
Hot work tool steel 150 mmt	35
Hot work tool steel 175 mmt	36
Hot work tool steel 200 mmt	37
Hot work tool steel 225 mm.....	38
Hot work tool steel 250 mmt.....	39

<Brass wire 0.2 mm dia.>

Super-hard 5 mm t.....	41
Super-hard 10 mm t.....	42
Super-hard 20 mm t.....	43
Super-hard 30 mm t.....	44
Super-hard 40 mm t.....	45
Super-hard 50 mm t.....	46
Super-hard 60 mm t.....	47