Gravograph

IS400

Product Data Sheet

FT2 - 10.98

Technical Characteristics

Mechanical Characteristics

Machine

Size	mm	435 x 610 x 893
Net weight	kg	42
Max. engraving area	mm	305 x 210

Packaging

Overall size	mm	1020 x 750 x 670
Weight (packaging + machine)	kg	68

Vice

Max. length	mm	unlimited x 230
Maximum object weight	kg	20
Max. opening	mm	230
Height of jaws	mm	75
Spindle and jig clearance	mm	33

Standard spindle

Tool

Type		Rotating, top-loading
Diameter	mm	4.36
	inches	11/64
Max. rotation speed	tr/min.	20000

Spindle displacement speed

Off-load travelling speed	mm/s	60
Working speed up to	mm/s	35

Spindle travel

in Z direction	mm	40

Max. precision

X	mm	0.0127
Y	mm	0.0127
Z	mm	0.0127

Levelness

X	mm	0.2
Y	mm	0.2

Free field sound signal to operator's stand/s according to norm ISO 11201. (* according to Gravograph standard)

off-load*	LAeq	db(A)	< 72 ± 1
nominal engraving*	LAeq	db(A)	80 ± 2
nominal engraving peak*	Lp Cpeak	db(C)	< 95

Environment *according to norm EN60721

Operational temperature*	- Min.	°C	+5
	- Max.	°C	+40
Storage temperature *	- Mini.	°C	-5
	- Maxi	°C	+45
Degree of moisture when in use	%		20 to 80

Electrical Characteristics

Machine

Power supply	V		100 - 240
Max. absorbed current	A		3.5
Frequency	Hz		50 - 60
Output	W		300
Insulation	Classe		1
Type of service			S1
Electromagnetic compatibility	Emission :	norm NF EN 50081-1 (residential environment)	
	Immunity :	norm NF EN 50082-2 (industrial environment)	
Type of protection			Fuse 5 x 20 mm 4A F1T
Degree of protection			IP40

Spindle motor

Type		Continuous current
Output	W	70
Absorbed current	A	2.5
Speed	tr/min.	3700-7500

Displacement motor

Stepper motor	step/revs	200

Electronic Characteristics

Electronic cards

UC board

Type of microprocessor		MOTOROLA 68000
Clock	MHz	10
RAM	Mo	2
EPROM Flash	Ko	512

Power board

Supply	V	5 / 13.5 / 12 / 24
	A	1 / 0,8 / 0,1 / 2,1
	W	5 / 11 / 1,2 / 50
Spindle motor	V	17 - 35
	W	(max.) 70
Stepper motor	V	40
	W	40

Other Equipment

Hard disk — Not available

Capacity

Disk drive — Not available

Disk type	inches
Capacity	Ko

Capture keyboard — Not available

Number of keys

Type

Monitor — Not available

Resolution	lines x points
Size	inches

Screen

Control panel

Number of keys	12
Type	Membrane with raised tactile points
Display	LCD 2 lines of 20 characters

Connexions - Liaisons

Parallel

Serial RS232

Memory card 38 points

Software characteristics

Languages	ITA, SPA, NL, JAP, FRA, ENG, GER
File formats	HPGL standard
	HPGL open software

Optional accessories

Pen attachment — D2524 000

Reference (user manual)		D2136 799
Weight	Kg	1.150
Ext. dimensions	mm	270 x 135 x 74
Maximum object weight	kg	0.3
Min.-max. diameter	mm	5 - 15
Max. length	mm	160

Cylinder attachment — D2521 000

Reference (user manual)		D2135 799
Weight	Kg	4.7
Ext. dimensions	mm	450 x 220 x 150
Maximum object weight	kg	
Min.-max. diameter	mm	- 110
Max. length	mm	200

Vacuum table

Reference (user manual)		
Ext. dimensions	mm	353 x 360 x 30
Max. extraction surface	mm	310 x 210
Max. engraving area	mm	305 x 210
Spindle clearance	mm	25

T-slot table — D2502 000

Reference (user manual)		D2097 799
Ext. dimensions	mm	314 x 404 x 85
Max. engraving area	mm	305 x 210
Spindle clearance	mm	30

Spindles

Collet	B2701 000
Diamond	A0140 100
Rotring	A0274 000
High frequency	Not available
Pyroengraver	A0270 100