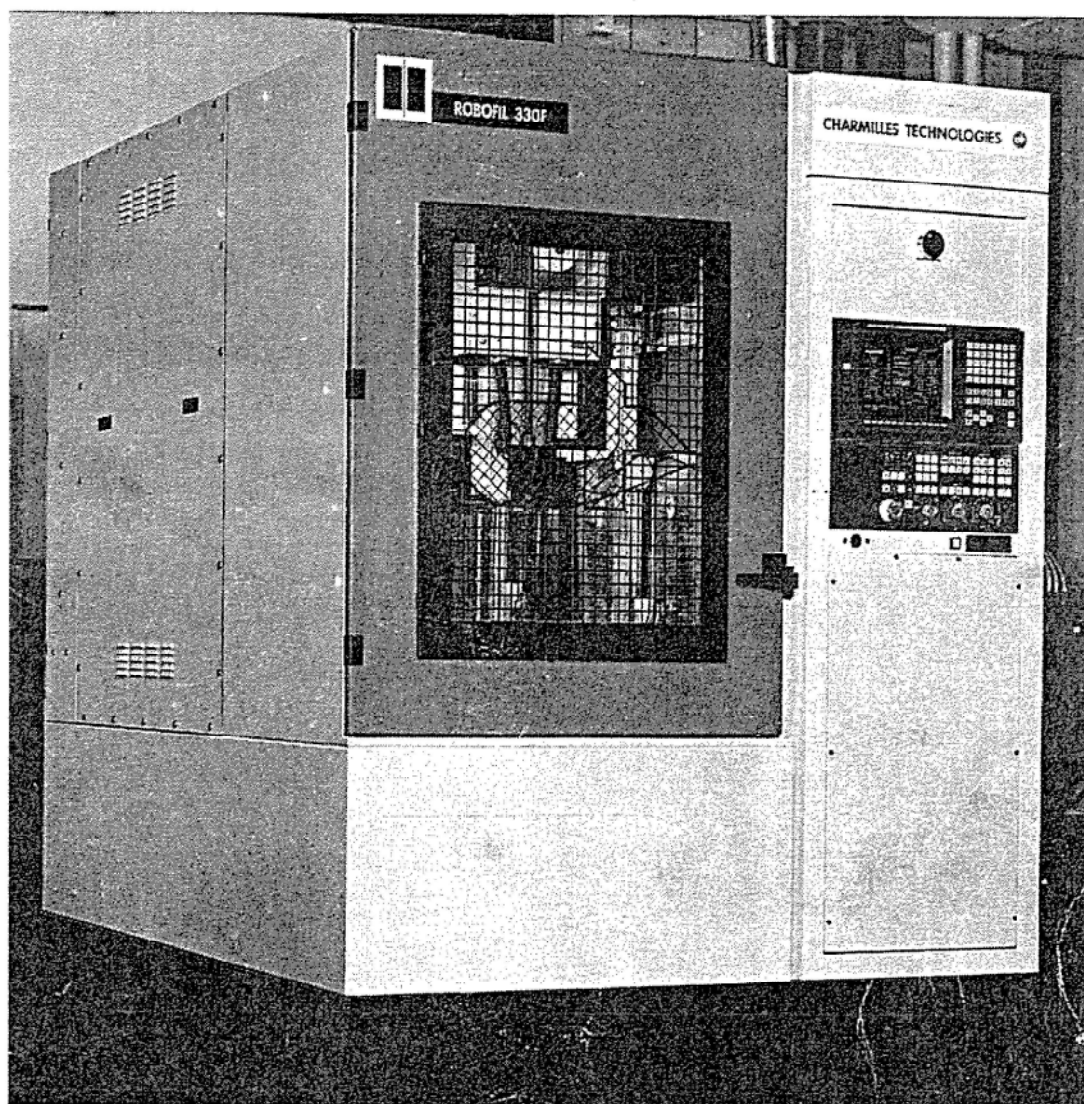




Maintenance Manual

5 956 340/E/05.1998

ver. A

CHARMILLES TECHNOLOGIES



Maintenance manual

ROBOFIL 330F

IMPRESSUM

This document was conceived and written by Mr. Fujise, CTSA-Geneva.

Typesetting and production by Edipresse Imprimeries Reunies Lausanne s.a. / Renens.

Technical data originate from our Standard Wifa product line, managed by Mr. Paccoud, CTSA-Geneva.

Our thanks for his collaboration go to Mr. Schaller, CTSA-Geneva.

Printed by Edipresse Imprimeries Reunies Lausanne s.a. / Renens.

1. Periodic maintenance procedures

2. Error messages

3. Location of components

4. Troubleshooting

5. Installation

6. Set of diagrams

7. Extract of catalogue

General table of contents

Periodic maintenance procedures	1.1.1
List of periodic maintenance operations	1.1.3
Log book	1.2.1
Error messages	2.1
P/S alarms	2.3
Overtravel alarms	2.15
Absolute pulse coder/serial pulse coder alarms	2.19
Servo alarms	2.20
Overheat alarm	2.22
System alarms	2.22
Analyzing causes of servo alarm	2.24
Generator alarms	2.28
Alarms and warning classification	2.28
Alarm origin	2.28
Class of error	2.28
Generator alarms	2.30
Location of machine components	3.1.1
Introduction	3.1.3
Overall view of the machine (front view)	3.1.4
Overall view of the machine (rear view)	3.1.5
Alphabetical index of components	3.1.18

Table of contents

Location of units of common cabinet	3.2.1
Introduction	3.2.3
Overall view of cabinet	3.2.4
Overall view (side part of the cabinet)	3.2.5
Overall view (rear part of the cabinet)	3.2.6
Alphabetical index of units	3.2.31
Numerical index of units	3.2.33

Troubleshooting	4.1
------------------------	-----

Error message

700	4.4
1200	4.14
1210	4.24
1400	4.18
1457	4.14
1458	4.17
1459	4.17
1461	4.16
1480	4.21
1752	4.23
1753	4.23
1754	4.23
1755	4.23
1758	4.22
1760	4.23
1761	4.23
1762	4.23
1763	4.23
1764	4.4
1765	4.4
2100	4.7
2107	4.6
2151	4.17
2252	4.15
2701	4.12/13/15

Table of contents

Problem

Axis	4.5
Break	4.18
Clean tank polluted	4.9
Deionization	4.7
Dielectric cooling	4.6
Dielectric function components	4.11
General in machining	4.19/20
High pressure injection	4.8
Measurement accuracy	4.21
Pump	4.10
Rethreading	4.17
Screen	4.3
Threading	4.15/16
Wire break	4.12/13
Wire cut	4.14
Wire drive	4.18

Checking and adjustment

Configuration of the boards (Main CPU, Opt. 2, Opt. 3)	4.29
Evacuation roller pressure on wire	4.34
Pneumatic pressure	4.31
Power supply	4.27
Threading jet	4.32

Replacement, dismantling and re-assembly

Arm-tank seal kit	4.50
Belts of X, Y, U or V axis	4.44
Draining the tanks	4.46
Fans motor	4.43
Fuse of VGA graphic board	4.38
Fuses in the power supply unit	4.37
Notched belt of the spool drive motor	4.48
Notched belt of the wire drive motor	4.49
Printed circuit boards	4.39/41

Installation

5.1

Introduction

5.3

Transport and handling

5.4

Storage prior to placing in service

5.4

Precaution to be taken before unpacking

5.5

Transporting and unpacking

5.6

Choice of working premises

5.7

Site dimensions - Bulk

5.7

The floor

5.8

Atmosphere

5.8

Location

5.8

Equipping the premises (outside connections)

5.9

**Table of
contents**

Machine installation check list	5.11
Choice and equipment of premises	5.11
Packing + Transport	5.11
Data sheet	5.12
 Set of diagrams	 6.1
 Functional diagrams	
CONTROL Functional diagram	6.3
POSITION Functional diagram	6.5
DIELECTRIC Functional diagram	6.7
WIRE CHANGE Functional diagram	6.9
ERODE Functional diagram	6.11
 Electrical diagrams	
 Mechanical diagrams	
 Extract of catalogues	 7.1