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Ref. No.:

837-09151726

Overview and Technical Data:

BROTHER - TC-31a VMC

BROTHER

Year of Build:

Nov 1997

Description:

Used Brother TC-31A CNC High Speed CNC Drill/Tap Vertical Machining Center

Control system: Brother CNC-A00

- Total On 43.414 hours
- Running Time 19.935 hours
- Operating Time 9.015 hours

Technical Data

- X axis travel: 350 mm (13.8")
- Y axis travel: 250 mm (9.8")
- Z axis travel: 350 mm (13.8")
- Work table size: 500x270 mm (21.65"x13.77")
- Max. Load Weight: 80kg (176 lbs.)
- Spindle speed: 16 - 16000 rpm
- Spindle Drive: 7.5 HP/5 HP
- Tool storage capacity: 26 pcs
- Spindle Taper: BT30
- Rapid Traverse: 50m/min (1968 IPM)
- Feed Rate: 0,05 - 20 [m/min
- Tool change time:0,7 sec
- Chip to chip 1.7 sec
- Length x width x height 1397 mm × 2895.6 mm × 2235.2 mm

Technical Data:

Technical Data:

Control:

[CNC](#)

Machine Hours:

43.414 hrs.

Spindle Hours:

9.015 hrs.

Spindle Speed:

16.000 rpm

Tool Capacity:

26 x

Travels:

X-Axis:

350 mm

Y-Axis:

250mm

Z-Axis:

350 mm

Dimensions and Weight:

Height:

2.235 mm

Width:

2.896 mm

Length:

1.397 mm

Weight:

2.100 kg

Buyer Information:

Condition:

[Very good condition](#)

Availability:

[On Request](#)

Sold as:

[EXW \(Ex Works - Incoterm\)](#)

VAT:

[19 %](#)

Buyers Premium:

[16 %](#)

Location:

Germany

Images:

brother
TC-31A
CNC TAPPING CENTER

brother

25 8

brother

Model No. 31A

The control panel features a small monochrome screen at the top, a numeric keypad below it, and several function buttons. At the bottom, there are emergency stop buttons (red and yellow) and other control knobs and switches.

SAFETY PRECAUTIONS

ATTENTION

WARNING

CAUTION

OPERATING INSTRUCTIONS

MAINTENANCE

REPAIRS

DISASSEMBLY

REASSEMBLY

ADJUSTMENTS

TESTING

TRoubleshooting

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NOTES

broth

TC-3

CNC TAPPING



brother

Masch. Nr. 15.1

(PROGRAMM 0001) SPEICHERE
- (NULL PAL1 07.02.01);
(G10G90L20P1X-115, 910Y-206, 650Z136, 600
(M98 P104);
(N1);
(G10G90L20P1X-240, 940Y-206, 650Z136, 600
(M98 P105);
G10G90L20P1X-200, 770Y-92, 650Z215, 300;
M98 P27;
M30;

PROGRAMM NR. --

MITTEL
SEQUNZ BLOCK PROGRAM
SUCHE START LISTE
F0 F1 F2 F3 F4

NEXT F0 F1 F2 F3 F4

MAIN POWER
POWER ALARM
DISPLAY
POS PRGM
MANJ COND MAGAZ
MONTR DATA BANK
ALARM I/O
CLEAR

O N G 7 8 9
U V W 4 5 6
X Y Z
F D H 1 2 3
P Q R 0 . -
M S T / ?

SHFT CURSOR PAGE

MODE
MANU MDI MEN EDIT
ILLING SPCL E-SEA
E-STOP DRW E-STOP
G-STOP WALK FLOW

+X +Y +Z +4
-X -Y -Z -4

START HOLD
RAPID TRAVERSE OVERRIDE
SPEED 1 2 3 100%
PROTECT
POWER
EMERGENCY

SELECT 1 1-2 2

NC 8.8 H18 CON1

brother
TC-31A
CNC TAPPING CENTER

LS 8

brother

MANUAL

The control panel features a small monochrome screen at the top, a numeric keypad below it, and a larger keypad with directional keys. At the bottom, there are several emergency stop buttons in red, green, and yellow, along with other function buttons and a power switch.

SAFETY INFORMATION

1. Always use the correct tooling and cutting parameters.

2. Do not touch the workpiece or tool during operation.

3. Do not touch the spindle or tool holder during operation.

4. Do not touch the chip conveyor during operation.

5. Do not touch the coolant system during operation.

6. Do not touch the electrical control panel during operation.

7. Do not touch the workpiece or tool after operation.

8. Do not touch the spindle or tool holder after operation.

9. Do not touch the chip conveyor after operation.

10. Do not touch the coolant system after operation.

11. Do not touch the electrical control panel after operation.

12. Do not touch the workpiece or tool when the machine is powered on.

13. Do not touch the spindle or tool holder when the machine is powered on.

14. Do not touch the chip conveyor when the machine is powered on.

15. Do not touch the coolant system when the machine is powered on.

16. Do not touch the electrical control panel when the machine is powered on.

17. Do not touch the workpiece or tool when the machine is powered off.

18. Do not touch the spindle or tool holder when the machine is powered off.

19. Do not touch the chip conveyor when the machine is powered off.

20. Do not touch the coolant system when the machine is powered off.

21. Do not touch the electrical control panel when the machine is powered off.

22. Do not touch the workpiece or tool when the machine is in maintenance mode.

23. Do not touch the spindle or tool holder when the machine is in maintenance mode.

24. Do not touch the chip conveyor when the machine is in maintenance mode.

25. Do not touch the coolant system when the machine is in maintenance mode.

26. Do not touch the electrical control panel when the machine is in maintenance mode.

27. Do not touch the workpiece or tool when the machine is in emergency stop mode.

28. Do not touch the spindle or tool holder when the machine is in emergency stop mode.

29. Do not touch the chip conveyor when the machine is in emergency stop mode.

30. Do not touch the coolant system when the machine is in emergency stop mode.

31. Do not touch the electrical control panel when the machine is in emergency stop mode.

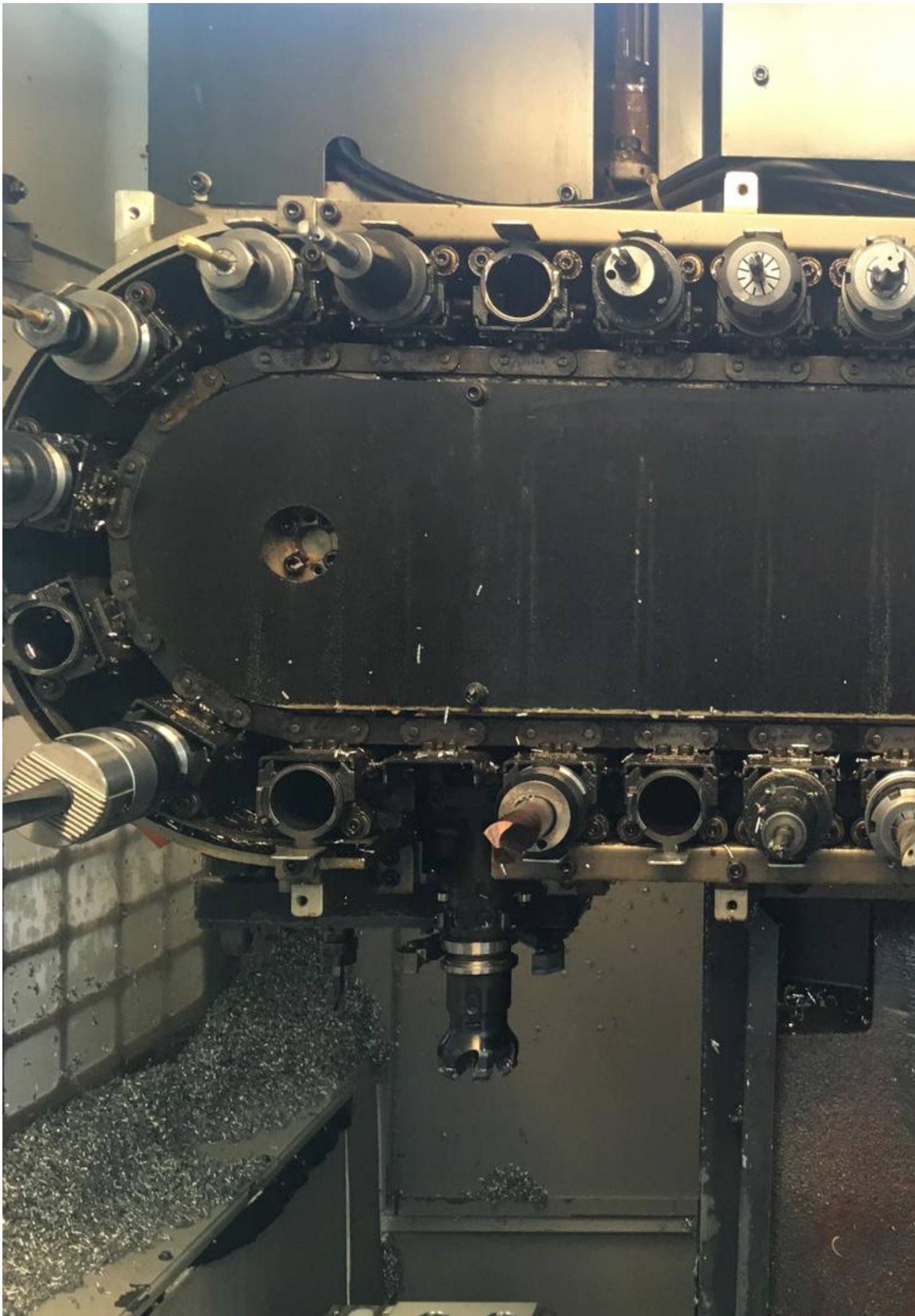
32. Do not touch the workpiece or tool when the machine is in power-off mode.

33. Do not touch the spindle or tool holder when the machine is in power-off mode.

34. Do not touch the chip conveyor when the machine is in power-off mode.

35. Do not touch the coolant system when the machine is in power-off mode.

36. Do not touch the electrical control panel when the machine is in power-off mode.





brother

MODEL TC-31A



SER.No. SERIEN- Nr. NUMÉRO DE SÉRIE

1 1 1 4 9 6

DATE BAUJAHR DATE DE FABRICATION

1 9 9 8 - 1 1

MASS
OF MACHINE

MASSE
DER MASCHINE

POIDS
MACHINE
2100 kg

POWER
REQUIREMENTS

SPANNUNGS
VERSORGUNG

ALIMENTATION
ÉLECTRIQUE

3 8 0

V

3 PHASE

50/60 Hz

RATED

NENN.

NOMINALE

9.0 kVA

MAX.

MAX.

MAXIMUM

20.0 kVA

SPINDLE MOTOR
RATED CAPACITY

LEISTUNGS-AUFNAHME
SPINDELMOTOR

PUISSANCE NOMINALE DU
MOTEUR DE BROCHE

7.0 kVA

INTERRUPTING CAPACITY OF
MAIN POWER BREAKER

MAX.KURZSCHLUSSTROM
DES HAUPTSCHALTERS

POUVOIR DE COUPURE DU
DISJONCTEUR PRINCIPAL

2.5 kA

ELECTRICAL DIAGRAM No.

SCHALTPLAN Nr.

SCHÉMA ÉLECTRIQUE N°

675987

BROTHER INDUSTRIES, LTD.

1-1-1, KAWAGISHI, MIZUHOKU, NAGOYA 467 MADE IN JAPAN

31A 16K

Inventar
Nr. 194



Asset-Trade

Assessment and Sale of Used Assets world wide

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250mm
Z-Axis:
350 mm

Dimensions and Weight:

Height:
2.235 mm
Width:
2.896 mm
Length:
1.397 mm
Weight:
2.100 kg

Buyer Information:

Condition:
[Very good condition](#)
Availability:
[On Request](#)
Sold as:
[EXW \(Ex Works - Incoterm\)](#)
VAT:
[19 %](#)
Buyers Premium:
[16 %](#)
Location:
Germany

Images:

broth

TC-3

CNC TAPPING



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Masch. Nr. 15.1

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(M98 P105);
G10G90L20P1X-200, 770Y-92, 650Z215, 300;
M98 P27;
M30;

PROGRAMM NR. --

MITTEL
SEQUNZ BLOCK PROGRAM
SUCHE START LISTE

F0 F1 F2 F3 F4

NEXT F0 F1 F2 F3 F4

MAIN POWER
POWER ALARM
DISPLAY
POS PRGM
MANJ COND MAGAZ
MONTR DATA BANK
ALARM I/O
CLEAR

O N G 7 8 9
U V W 4 5 6
X Y Z
F D H 1 2 3
P Q R 0 . -
M S T / ?

SHFT CURSOR PAGE

MODE
MANU MDI MEN EDIT
ILLING SPCL E-SEA
E-STOP DRW E-STOP
G-STOP WALK FLOW

+X +Y +Z +4
-X -Y -Z -4

START HOLD PALLET SELECT

RAPID TRAVERSE OVERRIDE SPEED 1 100%
R-START DISTANCE 50 100 150

PROTECT INTERLOCK

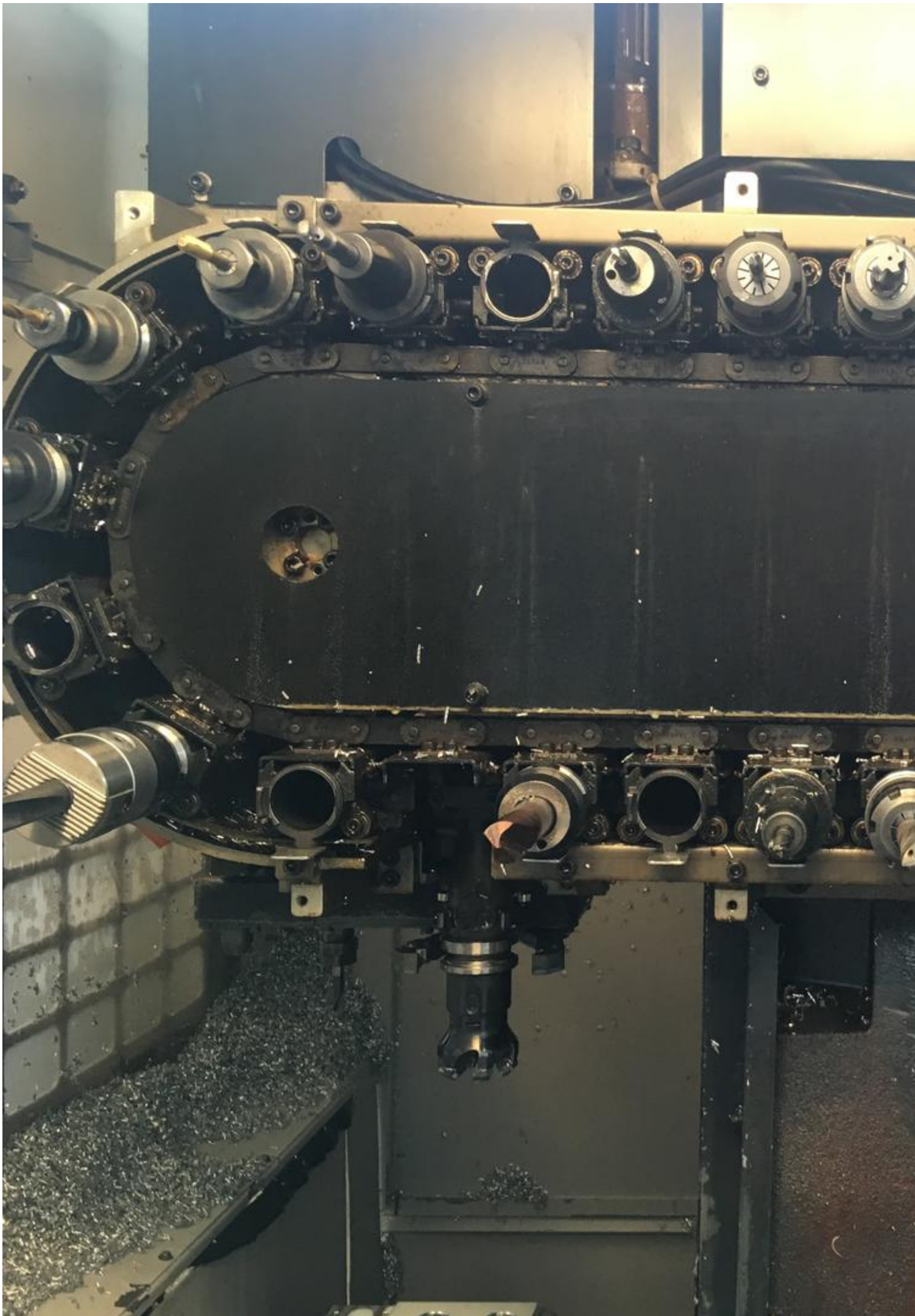
POWER EMERGENCY

NC 8.8 H18 CON1

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TC-31A
CNC TAPPING CENTER

Control panel for the Brother TC-31A CNC Tapping Center. It features a small monochrome LCD screen at the top, a numeric keypad below it, and a larger keypad with function keys. Below the keypad are several indicator lights (green, red, yellow) and rotary switches. A blue air hose with a nozzle is connected to the bottom of the panel. The panel is labeled 'DROVER' and 'MACH 3.1'.

Warning label on the machine door. The text is partially obscured by a white cloth but includes safety instructions. Visible text includes 'WARNING' and 'SAFETY'.





brother

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SER.No. SERIEN- Nr. NUMÉRO DE SÉRIE

1 1 1 4 9 6

DATE BAUJAHR DATE DE FABRICATION

1 9 9 8 - 1 1

MASS OF MACHINE MASSE DER MASCHINE POIDS MACHINE
2100 kg

POWER REQUIREMENTS SPANNUNGS VERSORGUNG ALIMENTATION ÉLECTRIQUE

3 8 0

V

3 PHASE

50/60 Hz RATED NENN. NOMINALE 9.0 kVA
MAX. MAX. MAXIMUM 20.0 kVA

SPINDLE MOTOR LEISTUNGS-AUFNAHME PUISSANCE NOMINALE DU
RATED CAPACITY SPINDELMOTOR MOTEUR DE BROCHE
7.0 kVA

INTERRUPTING CAPACITY OF MAIN POWER BREAKER MAX.KURZSCHLUSSTROM DES HAUPTSCHALTERS POUVOIR DE COUPURE DU DISJONCTEUR PRINCIPAL
2.5 kA

ELECTRICAL DIAGRAM No. SCHALTPLAN Nr. SCHÉMA ÉLECTRIQUE N°
675987

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