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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:**

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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, followed by a grid of alphanumeric keys. Below the keypad are several function buttons, including a prominent yellow emergency stop button. The panel is densely packed with controls for operating the machine.

SAFETY PRECAUTIONS

ATTENTION

WARNING

CAUTION

READ THE MANUAL

BEFORE OPERATING

THE MACHINE

TO AVOID ACCIDENTS

AND INJURY

PLEASE READ THE

MANUAL CAREFULLY

BEFORE OPERATING

THE MACHINE.





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. --  
  
SEQUENZ MITTEL PROGRAMM  
SUCHE BLOCK START LISTE  
F0 F1 F2 F3 F4

Control panel with function keys (NEXT, F0-F4, STOP), a numeric keypad (O-N, G, 7-9, X-U, V, Z, W, 4-6, F, D, H, L, 1-3, P, Q, R, K, 0, ., -, M, S, T, /, L, ?), and a MODE section with various machine operation buttons like FEED, AUTO, E-STOP, and coordinate offsets (+X, +Y, +Z, +4).

Physical controls including a green START button, a pink HOLD button, a green PALLET START button, a black SELECT knob, a black RAPID TRAVERSE OVERRIDE knob, a black PROTECT knob, a green POWER button, and a yellow/red EMERGENCY stop button.

NC 8.8 818 CON



brother  
TC-31A  
CNC TAPPING CENTER

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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 indicator lights.

SAFETY INFORMATION

1. Before starting work, please read the instruction manual carefully.

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

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

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

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

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

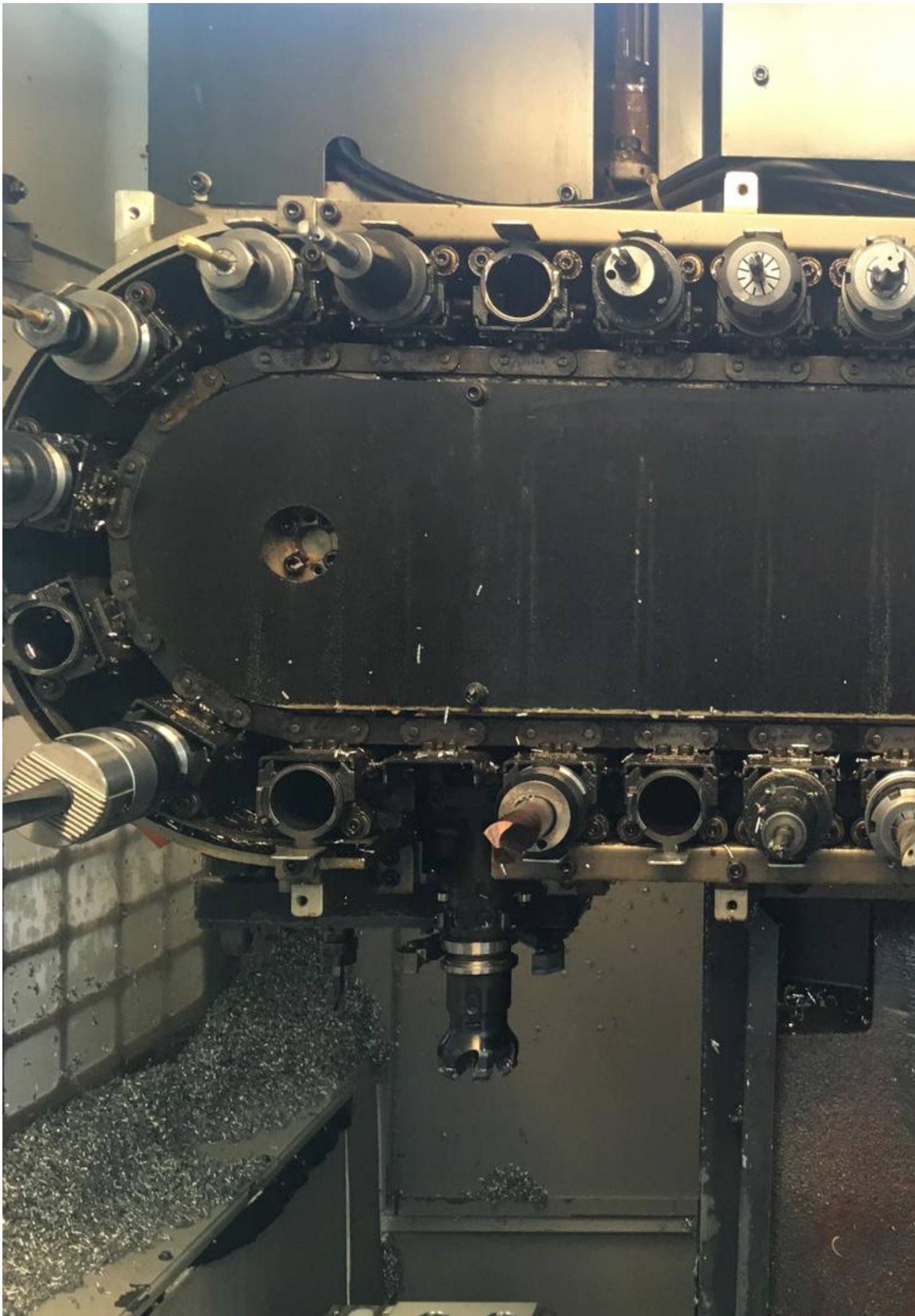
7. Do not touch the workpiece or tool after operation.

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

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

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











# 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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Germany

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Fax.: +49 2151 65 29 22

Email: [info@asset-trade.de](mailto:info@asset-trade.de)

Web.: <https://www.asset-trade.de/en>

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[On Request](#)  
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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, followed by a grid of function keys. Below the keypad are several large, color-coded emergency stop buttons (red, yellow, green) and a series of smaller indicator lights and control knobs. A power switch is located at the bottom of the panel.

SAFETY PRECAUTIONS

ATTENTION

WARNING

CAUTION

OPERATING INSTRUCTIONS

MAINTENANCE

REPAIRS

DISASSEMBLY

REASSEMBLY

ADJUSTMENTS

TESTING

TRoubleshooting

APPENDIX

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NOTES



brot

TC-

CNC TAPPING





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Masch. Nr. 15.1

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M30;  
  
PROGRAMM NR. --  
  
SEQUENZ MITTEL PROGRAMM  
SUCHE BLOCK 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 E-DRY E-DRY  
E-STOP E-DRY E-DRY  
E-STOP E-DRY E-DRY

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

START HOLD PALLET SELECT 1 1-2 2  
RAPID TRAVERSE OVERRIDE SPEED 1 100%  
PROTECT INTERLOCK  
POWER  
EMERGENCY

NC 8.8 H18 CON

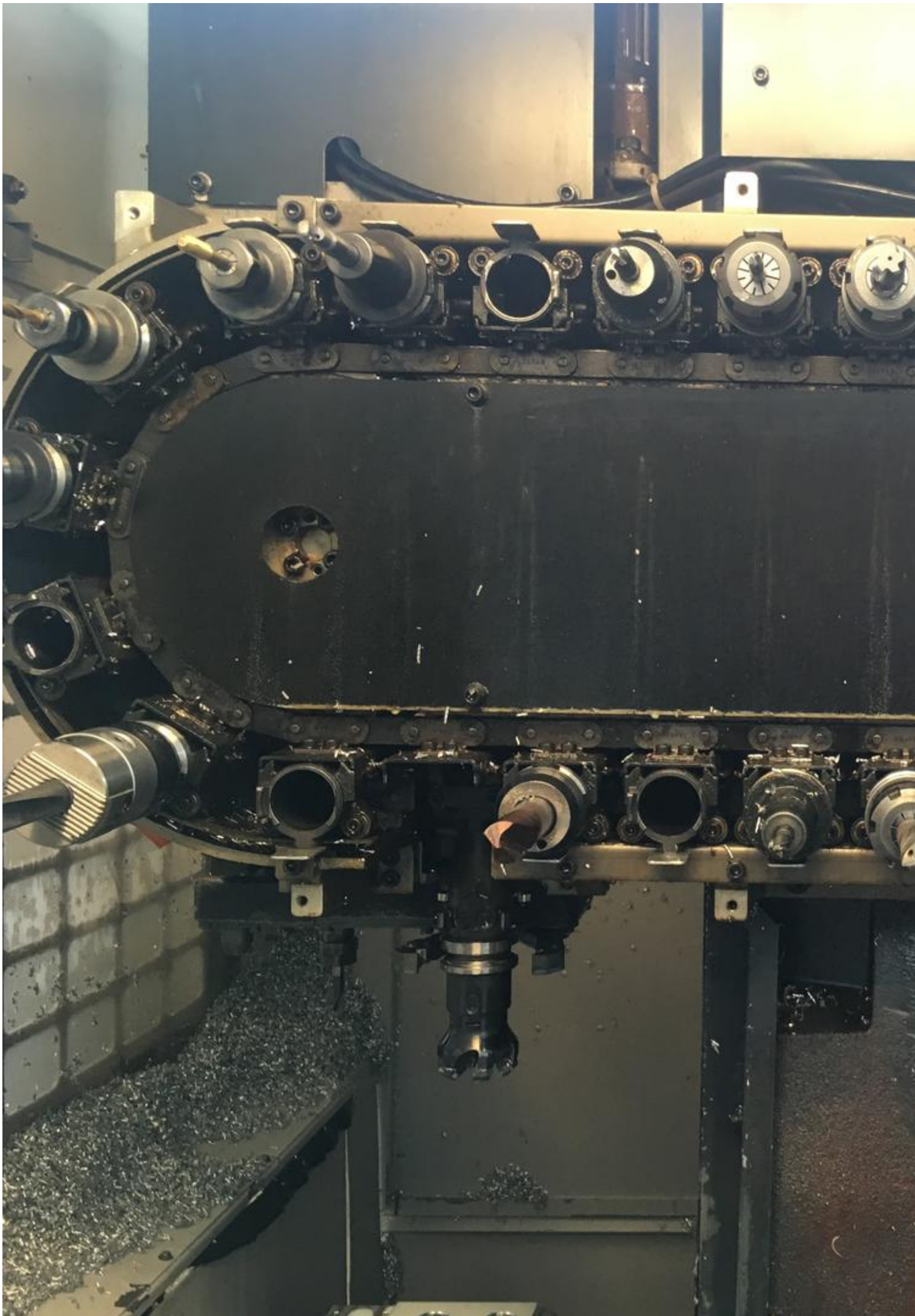


brother  
TC-31A  
CNC TAPPING CENTER

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 alphanumeric keypad. The panel includes 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 mounted on a grey metal cabinet.













# brother

MODEL TC-31A



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1 1 1 4 9 6

DATE BAUJAHR DATE DE FABRICATION

1 9 9 8 - 1 1

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