

Specialized in used heavy machine tools from

ERNST INDUSTRIEANLAGEN GMBH **WALDRICH SIEGEN** **WALDRICH COBURG**

Dipl. Ing. Elmar Ernst Industrieanlagen GmbH
Hüttenfeld 8 (street) D - 51427 Bergisch Gladbach (city)
Tel.+49 2204 9844010 Fax +49 2204 9844011 mob +49 172 1520295
email: maschinen@web.de www.ernstmachines.de

CNC – Plano Miller WALDRICH SIEGEN

Type V/H – FR – 58 kW 275/160/250 x 400 (2), Serial No.: 11 239

YOM 1981/2024 completely remanufactured with:

new CNC control SINUMERIK ONE, new electric cabinet



machine in remanufacturing process

We do guarantee the accuracy of a new machine!!

technical high lights

- CNC portal type machining centre with fixed cross rail
- main spindle motor 58 kW, (ram/quill- design)
- large range of spindle speed, max. 1.800 rpm, low base speed 136 rpm, high torque
- automatic tool changer with 60 places
- automatic serving device for HSU
- HSU, automatic mounting, indexable 4 x 90 degree and heel clearance
- **Option: new CNC control SINUMERIK ONE, incl. new electric**
- **Option: new measuring system HEIDENHAIN LB 382**
- steel telescopic way covers in x and y axis
- hydrostatic guide ways in x and y axis
- hydrostatic worm drive in x axis



Specialized in used heavy machine tools from
WALDRICH SIEGEN WALDRICH COBURG

Dipl. Ing. Elmar Ernst Industrieanlagen GmbH
 Hüttenfeld 8 (street) D - 51427 Bergisch Gladbach (city)
 Tel.+49 2204 9844010 Fax +49 2204 9844011 mob +49 172 1520295
 email: maschinen@web.de www.ernstmachines.de



technische details

distance between

| | | |
|------------------------------|----|-------|
| columns | mm | 2.750 |
| top of table to spindle nose | mm | 1.600 |

2 tables with automatic coupling system

| | | |
|--|----|---------------|
| clamping area table I (4.500) | mm | 2.500 x 4.000 |
| Clamping area table II (4.500) | mm | 2.500 x 4.000 |
| Clamping area with coupled tables | mm | 2.500 x 8.700 |
| max. work piece widths | mm | 2.700 |
| max. work piece weight per table | t | 50 |
| max. work piece weight with coupled tables | t | 100 |

milling head (design: ram + quill)

| | | |
|-------------------------|-------------------|------------|
| spindle motor (100% ED) | kW | 58 |
| speed range | min ⁻¹ | 10 – 1.800 |
| base speed | min ⁻¹ | 136 |
| max. torque | Nm | 3.500 |
| ram cross section | mm | 500 x 500 |
| quill dia. | mm | 200 |
| tool adapter | ISO | 50 |

tables traverses (x - axis)

| | | |
|-----------------------------------|--------|------------|
| max. traverse table I (4.500) | mm | 4.250 |
| max. traverse table II (4.500) | mm | 4.250 |
| max. traverse with coupled tables | mm | 9.503 |
| feeds/rapids | mm/min | 1 – 10.000 |

traverse milling head (y - axis)

| | | |
|---------------|--------|------------|
| max. traverse | mm | 5.515 |
| feeds/rapids | mm/min | 1 – 10.000 |

ram (z - axis)

| | | |
|---------------|--------|-----------|
| max. traverse | mm | 1.000 |
| feeds/rapids | mm/min | 1 – 5.000 |



Specialized in used heavy machine tools from
WALDRICH SIEGEN WALDRICH COBURG

Dipl. Ing. Elmar Ernst Industrieanlagen GmbH
 Hüttenfeld 8 (street) D - 51427 Bergisch Gladbach (city)
 Tel.+49 2204 9844010 Fax +49 2204 9844011 mob +49 172 1520295
 email: maschinen@web.de www.ernstmachines.de



quill

| | | |
|-------------------------|--------|---------------|
| max. traverse | mm | 500 |
| traverse in 4 positions | mm | 0/200/350/500 |
| feeds/rapids | mm/min | 2.700 |

general machine size

| | | |
|---|------|--------|
| machine lengths, approx | mm | 22.600 |
| machine widths, approx | mm | 7.740 |
| machine heights (when top of table 500 above floor) appr. | mm | 6.200 |
| machine weight, approx | t | 105 |
| electrical details | V/Hz | 380/50 |
| max. power required | kVA | 270 |

accessories of the machine

- RAA (right angle attachment) 400 mm
- spindle extension ET 650
- universal RAA
- serving system for RAA's
- tool changer in chain design with 60 places
- chip conveyor

delivery times

1. delivery of the machine direct after order
2. delivery of the options appr. 7 to 9 month after order
3. the foundation needs 12 weeks for drying

Payment conditions:

Machine: before delivery

**Options : 70 % downpayment, 20 % against delivery,
10 % against acceptance protocol**

Prior sales and mistakes in the technical details are explicit reserved!

Mit freundlichen Grüßen



(Elmar Ernst)



**ERNST
INDUSTRIEANLAGEN
GMBH**

Specialized in used heavy machine tools from
WALDRICH SIEGEN **WALDRICH COBURG**

Dipl. Ing. Elmar Ernst Industrieanlagen GmbH
Hüttenfeld 8 (street) D - 51427 Bergisch Gladbach (city)
Tel.+49 2204 9844010 Fax +49 2204 9844011 mob +49 172 1520295
email: maschinen@web.de www.ernstmachines.de



Option: Scope of remanufacturing

- **CNC Siemens Sinumerik 840Dsl NCU710.3**
- **machine control Panel**
- **operator Panel 10"**
- **1FT7105 3000rpm servomotors for X,Y and Ram axis**
- **1FK7063 3000rpm motor with gearbox for quill axis**
- **1PH8 58kw spindle motor**
- **Heidenhain linear scales (LB382) for X and Y axes**
- **Heidenhain linear glass scale for Ram axis**
- **new electrical cabinet with panel cooler, all new switchgears in cabinet and wiring**
- **machine new wiring**
- **wiring between cabinet and machine**
- **new oil cooler for the hydrostatic**
- **new hydrostatic pumps**
- **installation of the machine in customers plant, incl. acceptance protocol**
- **new painting of the machine**

ERNST
INDUSTRIEANLAGEN
GMBH

Specialized in used heavy machine tools from
WALDRICH SIEGEN **WALDRICH COBURG**

Dipl. Ing. Elmar Ernst Industrieanlagen GmbH
Hüttenfeld 8 (street) D - 51427 Bergisch Gladbach (city)
Tel. +49 2204 9844010 Fax +49 2204 9844011 mob +49 172 1520295
email: maschinen@web.de www.ernstmachines.de



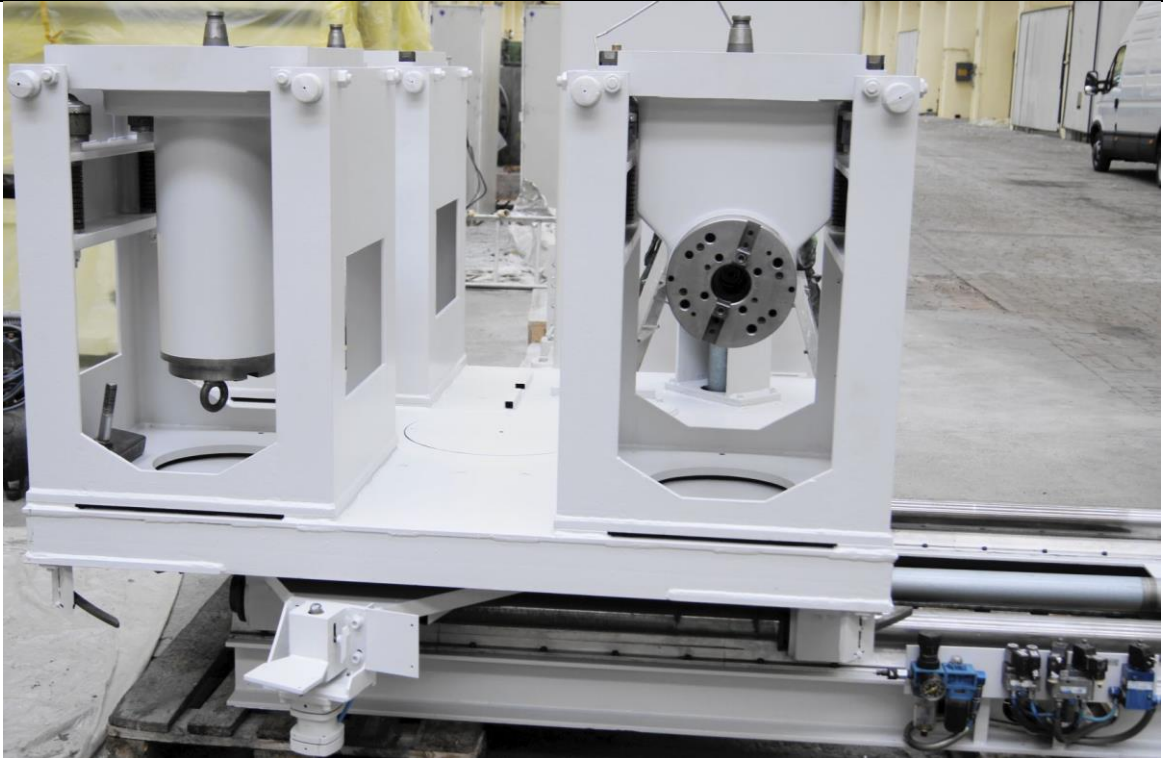
back side of the machine

automatic serving device for RAA

Specialized in used heavy machine tools from

WALDRICH SIEGEN WALDRICH COBURG

Dipl. Ing. Elmar Ernst Industrieanlagen GmbH
 Hüttenfeld 8 (street) D - 51427 Bergisch Gladbach (city)
 Tel.+49 2204 9844010 Fax +49 2204 9844011 mob +49 172 1520295
 email: maschinen@web.de www.ernstmachines.de



fixed quill

RAA (right angle attachment)



universal - RAA

ERNST
INDUSTRIEANLAGEN
GMBH

Specialized in used heavy machine tools from
WALDRICH SIEGEN **WALDRICH COBURG**

Dipl. Ing. Elmar Ernst Industrieanlagen GmbH
Hüttenfeld 8 (street) D - 51427 Bergisch Gladbach (city)
Tel.+49 2204 9844010 Fax +49 2204 9844011 mob +49 172 1520295
email: maschinen@web.de www.ernstmachines.de



Option: new electric cabinet

Specialized in used heavy machine tools from



**ERNST
INDUSTRIEANLAGEN
GMBH**

WALDRICH SIEGEN WALDRICH COBURG

Dipl. Ing. Elmar Ernst Industrieanlagen GmbH
 Hüttenfeld 8 (street) D - 51427 Bergisch Gladbach (city)
 Tel.+49 2204 9844010 Fax +49 2204 9844011 mob +49 172 1520295
 email: maschinen@web.de www.ernstmachines.de





Option: new operators panel

ERNST
INDUSTRIEANLAGEN
GMBH

Specialized in used heavy machine tools from
WALDRICH SIEGEN **WALDRICH COBURG**

Dipl. Ing. Elmar Ernst Industrieanlagen GmbH
Hüttenfeld 8 (street) D - 51427 Bergisch Gladbach (city)
Tel.+49 2204 9844010 Fax +49 2204 9844011 mob +49 172 1520295
email: maschinen@web.de www.ernstmachines.de



machine at former production place in ram + quill design

ERNST
INDUSTRIEANLAGEN
GMBH

Specialized in used heavy machine tools from
WALDRICH SIEGEN **WALDRICH COBURG**

Dipl. Ing. Elmar Ernst Industrieanlagen GmbH
Hüttenfeld 8 (street) D - 51427 Bergisch Gladbach (city)
Tel. +49 2204 9844010 Fax +49 2204 9844011 mob +49 172 1520295
email: maschinen@web.de www.ernstmachines.de



tool changer with 60 places

ERNST
INDUSTRIEANLAGEN
GMBH

Specialized in used heavy machine tools from
WALDRICH SIEGEN **WALDRICH COBURG**

Dipl. Ing. Elmar Ernst Industrieanlagen GmbH
Hüttenfeld 8 (street) D - 51427 Bergisch Gladbach (city)
Tel. +49 2204 9844010 Fax +49 2204 9844011 mob +49 172 1520295
email: maschinen@web.de www.ernstmachines.de



take high way no. 45 (Dortmund to Gambacher Cross), exit Freudenberg,
from direction north, turn left, at the traffic light turn left, then direct left again,
from direction south, turn right, at the traffic light turn left, then direct left again, Spedition Bender
first building on the left side, door 24