

TIBO Tiefbohrtechnik GmbH | Benzstr. 5 | 72793 Pfullingen

TECO Tooling Pty Ltd 121 Bittern-Dromana Road VIC 3926 Merricks North COMMONWEALTH OF AUSTRALIA

QUOTATION	AN200375.701
Date	19.11.2020
Customer	20905
Your inquiry	40.44.0000
dated	19.11.2020
Your sign Your fax	00613 86 727 836
Your VAT-ID	00013 00 727 030
Our sign	Volker Kunze
Email	kunze@tibo.com
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Dear Sir or Madam,

We are pleased to offer you based on our sales and delivery conditions, which you can find on www.tibo.com

PRICE OVERVIEW

pos	qty	description	unit price EUR	total EUR
1	1 pcs	Deep hole drilling machine # 701 E40-1-1000		
2	1 pcs	Remote connection		
3	1 pcs	Clamping tailstock		
4		Drill bush and clamping cone reception		
5	3 pcs	Tool Steady Rest		
6	1 pcs			
7	1 pcs			
8	1 pcs	Scratch type chip conveyor		
9	1 pcs	Safety and Splash Guard		
10	1 pcs	Warranty		
<u>11 </u>	1 pcs			
		Total		185.000,00
12	1 pcs	Installation, Commissioning and Training invoiced a	t	
	•	cost		
13	1 set	Accessories will be offered upon request		



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pos qty item unit price EUR total EUR description

DETAILED QUOTATION

1 1 pcs *mc000701*

Deep hole drilling machine # 701

E40-1-1000

Manufacturer TIBO Tiefbohrtechnik GmbH

Manufactured in Germany

Method Rotating tool and counter-rotating workpiece

Drilling method gundrilling (ELB)

Machine data

Spindle number

Solid drilling Ø 5 - 40 mm in steel

Drill depth 1,000 mm

Spindle drive 17 kW Siemens SINAMICS 1PH8
Spindle speed 200 - 6.000 min-1, infinitely variable
Feed 10 - 500 mm/min, infinitely variable

Rapid traverse 4,500 mm/min

Operating current 3 AC, 400 V/50 Hz

Connected load 29 kW

Space required see layout

Machine weight (approx. 6,200 kg) depending on

machinery equipment



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pos qty item description

unit price EUR

total EUR

Basic machine consisting of

Machine frame

of powerful, torsion-resistant welded construction with circumferential coolant groove and drainage into the coolant system. Linear guides are mounted along the entire length of the machine frame.

Deep-drilling unit

mounted with guide carriages on the linear guides. The feed motion is executed by means of a ball screw spindle with a Siemens AC servo motor and upstream planetary gearbox.

Drilling spindle unit

with precision bearings.

There is a central through bore in the drill spindle to supply the coolant, and a drill oil feed installed at the end of the spindle (including a flow divider for multi-spindle versions). The spindle drive unit uses a Siemens SINAMICS spindle motor and toothed belt drive mounted to the spindle in a fixed drive housing.

Movable drill bush holder carriage

mounted on a guide carriage on the linear guides. The movable drill bush holder carriage is of powerful, rigid welded construction for accommodating drill guide and sealing elements. It is equipped with a removable observation window in its cover. The removal of coolant and chips in the chip conveyor/chip basket is performed by means of a chip discharge mounted on its reverse side and equipped with additional flushing supply to avoid chip congestion during outflow.

Sliding the drill bush holder carriage right or left allows excessively long workpieces or drills to be clamped.

Tailstock slide / Slide for clamping devices

mounted on guide carriages on the linear guides. It can accomodate clamping devices or a tailstock rotating in the opposite direction to the drill spindle, and its position can be adjusted along the linear guides. The clamping stroke in Z+ is performed hydraulically. Clamping speed and force can be adjusted steplessly. Stroke = 50 mm.



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pos qty item description

unit price EUR

total EUR

Electrical equipment

in a separate Rittal control cabinet, L x W x H=1,200 x 500 x 2,000 mm with a circuit diagram container of sheet steel built into the door and a Rittal wall-mounted refrigerating unit. The control cabinet is illuminated with an LED lighting system.

Its design complies with VDE directives, and it includes all switching functions for manual and automatic functional sequences and a safety integrated function for safely switching off the Z axis, the spindle drive, and the coolant pump.

Electrical control

by means of a programmable logic control system (PLC) and HMI Touch panel with 15" TFT wide-screen display, installed in the control panel

in front of the machine for operation and monitoring of the system. The control panel can be slid along a linear guide mounted on the machine frame along the entire work area in front of the machine.

Input and display of:

- spindle speed
- spindle power (consumption)
- drilling depth and remaining drilling depth
- feed rate
- feed power (consumption)
- feed reduction for spudding or drilling through
- dwell time
- workpiece counter
- coolant pressure
- override for speed, feed, and coolant adjustment
- process parameter monitoring
- error messages and warning on clear text display
- (pressure, coolant, filter, etc.)
- error history on clear text display
- allocation of access privileges for various user levels



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pos qty item unit price EUR total EUR description

Documentation

Duplicate copies (one paper, one digital) in compliance with CE regulations

consisting of:

- operating and maintenance manual
- transport plan and instructions
- machine plan
- tool plan
- circuit diagrams for the electrical system, schematics for hydraulics and pneumatics, if

the corresponding systems are included in delivery.

- lubrication plan
- parts list
- assembly drawings
- declaration of conformity with CE

Machine paint

RAL 7035 (light grey): RAL 7016 (anthracite):

Machine frame, control cabinet Full machine enclosure, tailstock, drilling bush holder carriage/BOZA, deep-drilling unit, Coolant system, chip conveyor

(if included in delivery)

For our systems, we only use proprietary brands such as Alpha Wittenstein, Bosch, Brinkmann, Euchner, FAG, Hydac, INA, Moog, Parker, Rittal, Schneeberger, SEW-Eurodrive, Siemens, etc.

2 1 pcs onf-ebmc

Remote connection

for E-/B-machines Remote diagnosis:

 Readout of error messages, input/output of PLC and Error codes on frequency converters

Online access to memory:

- Display and edit cutting datas for up to 500 workpieces Access is via customer provided LAN or VPN network. Required: Ethernet cable to cabinet provided by customer.



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pos	qty	item description	unit price EUR	total EUR
3	1 pcs	e401-ws Clamping tailstock for 1 spindle m/c mounted on tailstock slide. For reducing of centerline deviation duri the tailstock spindle is in counterrotating Motor: SEW gearmotor Speed: 100 rpm Alternatively available as an option: Infin	g the workpiece.	
4	1 pcs	e401-bosp Drill bush and clamping cone recepti rotating, 1-spindle, drill-Ø up to 48mm mounted on the drill bush bracket for remounted drill bush holder and the rotatinesp. a jaw chuck or similiar, depending on we	ception of axial spring ng interior clamping cones,	
5	3 pcs	e401-damp Tool Steady Rest for support of long tools inlcuding hauling system		
6	1 pcs	emc01-prze Workpiece pre-centring-device 1 set containing 2 pcs supporting prisms which are adjustable in height according workpiece diameters up to Ø160 mm. Further sizes available upon request		
7	1 pcs	 KA1,0-120/7,5 Coolant system 120L/min-1000L-ELB For coolant: deep hole drilling oil Coolant tank separated in clean and dwith a total capacity of 1.000L High pressure pump with a max. flow max. 120l/min. The flow rate can be srequired to get the optimal coolant quant on the tool Paper tape filter for filtration of the coof fineness of filtration 35μm Slush pump for drill bush bracket 	irty oil tank rate of elected as antity depending	
8	1 pcs	eccs-1m5 Scratch type chip conveyor for EXX-1000/1500 Selecting of right/left-hand drive via made	chine control.	



185.000,00

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pos	qty	item description	unit price EUR	total EUR
9	1 pcs	emc-fg1m Safety and Splash Guard for E/B-1000 with sliding doors covering complete work piece and drilling area of the machine and surface-hardened composite glass panes at operator's side of machine. With opened doors there is much space for loading/unloading even via overhead crane. Doors are automatically locked when drilling process is started. Additional removable covers on the backside and on the side ends are available for maintenance works. The working area inside the machine enclosure is illumanted by an LED.		
10	1 pcs	1 pcs gew12 Warranty The warranty period shall be 12 months from the commissioning date, but no longer than 14 months from the date of the pre-acceptance test at Tibo took place.		
		Please note that the warranty obligation expinstallation will not be carried out by our tec		
		The warranty of the machine expires if inter or repairs will made on the machine. During the warranty period repairs and mod machine may only be made by Tibo employ	difications at the	
11	1 pcs	mcabn		

Machine acceptance test before delivery to be performed in our premises in 72793 Pfullingen, Germany,

following our regulations for function testing.

Total



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pos	qty	item description	unit price EUR	total EUR
12	1 pcs	at customers site according our "Installation And Service Char of training is at least 1 working day (8 hours)	lation, Commissioning and Training invoiced at cost stomers site ding our "Installation And Service Charge Rates". Duration ning is at least 1 working day (8 hours) and contains ction of customer's personell in operating, changeover and	
13	1 set	mcallg Accessories will be offered upon request as well as deep hole drilling oil depending on Workpiece OD and drill diame Therefore please provide drill-Ø, length and OD for each workpiece separately.	ter.	

subject to being unsold, details without obligation Validity of quotation: December 31st 2020

delivery date: By arrangement after receipt of the written order, down payment and clarification of

technical details.

shipping conditions: FCA 72793 Pfullingen, GERMANY, [Incoterms 2010]

payment terms: 1/3 with the order,

2/3 after positive acceptance test at TIBO before shipment, each net without deduction

We would be pleased if our offer meets your approval.

With kind regards,

TIBO Tiefbohrtechnik GmbH

i. A. Volker Kunze

(electronically created, valid without signature)