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TIBO Tiefbohrtechnik GmbH | Benzstr. 5 | 72793 Pfullingen

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

QUOTATION	AN200373.614-2
Date	19.11.2020
Customer	20905
Your inquiry	
dated	19.11.2020
Your sign	
Your fax	00613 86 727 836
Your VAT-ID	\/all-an//a
Our sign	Volker Kunze
Email	kunze@tibo.com

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:

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PRICE OVERVIEW

pos	qty	description	unit price EUR	total EUR
1	1 pcs	Deep Hole Drilling Machine # 614-2 Used Machine		
2	1 pcs	Clamping tailstock		
3	1 pcs	Drill bush and clamping cone reception		
4	1 pcs	Tool Steady Rest		
5	1 pcs	Workpiece pre-centring-device		
6	1 pcs	Safety and Splash Guard SO		
7	1 pcs	Coolant system 67L/min-1000L-ELB E25-1		
8	1 pcs	Refrigerating machine 13 kW		
9	1 pcs	Chip basket		
10	1 pcs	Machine acceptance test before delivery		
<u>11</u>	1 pcs	Warranty 6 months		
		Total		96.750,00
12	1 pcs	Installation, Commissioning and Training invoiced at cost		
13	1 set	Accessories will be offered upon request		
OPTIO	ONS			
14	1 pcs	Remote connection	3.220,00	



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pos qty item unit price EUR total EUR description

DETAILED QUOTATION

1 1 pcs *mc000614-2*

Deep Hole Drilling Machine # 614-2 Used Machine

E25-1-750

Manufacturer TIBO Tiefbohrtechnik GmbH

Manufactured in Germany

Method Rotating tool and counter-rotating workpiece

Drilling method gundrilling (ELB)

Machine data

Spindle number 1

Solid drilling Ø 3 - 25 mm in steel

Drill depth 750 mm

Spindle drive 12 kW Siemens SINAMICS 1PH8
Spindle speed 0 - 8,000 min-1, infinitely variable
Feed 10 - 500 mm/min, infinitely variable

Rapid traverse 3,000 mm/min

Operating current 3 AC, 400 V/50 Hz

Connected load 22 kW

Space required approx. 4400x2000x2000mm

Machine weight approx. 5000kg



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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.

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=1,000 x 400 x 1,500 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.

Operating current 3 AC, 400V / 50 Hz

Electrical control

by means of a programmable logic control system (PLC) and HMI Siemens TP900 Comfort.

Touch panel with 9" 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
- drilling depth and remaining drilling depth
- feed rate
- feed reduction for spudding or drilling through
- dwell time
- workpiece counter
- coolant pressure
- override for speed, feed, and coolant adjustment
- error messages and warning on clear text display
- (pressure, coolant, filter, etc.)

Machine paint

RAL 7035 (light grey) RAL5005(signal blue)

Documentation

One paper copy consisting of:

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

the corresponding systems are included in delivery.

- parts list
- declaration of conformity with CE



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pos	qty	item description	unit price EUR	total EUR
2	1 pcs	e251-ws Clamping tailstock for 1 spindle m/c mounted on tailstock slide. For reducing of centerline deviation during drilling the tailstock spindle is in counterrotating the work Motor: SEW gearmotor Speed: 100 rpm Alternatively available as an option: Infinitely varia	spiece.	
3	1 pcs	e251-bosp Drill bush and clamping cone reception rotating, 1-spindle, drill-Ø up to 35mm mounted on the drill bush bracket for reception of mounted drill bush holder and the rotating interior resp. a jaw chuck or similiar, depending on workpiece of	clamping cones,	
4	1 pcs	emc01-damp Tool Steady Rest for support of long tools built on the linear guides with guide carriage The tool steady rest is automatically positioned at position after each drilling cycle and can be quick removed from the linear guides when not needed	ly and easily	
5	1 pcs	emc01-prze Workpiece pre-centring-device 1 set containing 2 pcs supporting prisms which are adjustable in height according to workpiece diameters up to Ø160 mm. Further sizes available upon request		
6	1 pcs	div Safety and Splash Guard SO with sliding doors covering complete work piece a drilling area of the machine and surface-hardened glass panes at operator's side of machine. Doors are automatically locked when drilling proc	d composite	



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96.750,00

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pos	qty	item description	unit price EUR	total EUR
7	1 pcs	 KA1,0-67/5,5 Coolant system 67L/min-1000L-ELB E25-1 For coolant: deep hole drilling oil Coolant tank separated in clean and dirty oil tank with a total capacity of 1.000L High pressure pump with a max. flow rate of max. 67l/min. The flow rate can be selected as required to get the optimal coolant quantity depends on the tool Paper tape filter for filtration of the coolant with fineness of filtration 35μm Slush pump for drill bush bracket 	ing	
8	1 pcs	cscoc-100 Refrigerating machine 13 kW net. cooling capacity 12,5 kW cooling capacity 12,5 kW at 32° C ambient temperatu medium 30° C. Controlled by adjustable thermostat. Companies to the cooling tank with thermostat, delivery put	Completely	
9	1 pcs	spkorb Chip basket		
10	1 pcs	mcabn Machine acceptance test before delivery to be performed in our premises in 72793 Pfullingen, following our regulations for function testing.	Germany,	
11	1 pcs	gew6 Warranty 6 months The warranty period shall be 6 months from the commodate. Please note that the warranty obligation expires if the installation will not be carried out by our technicians. The warranty of the machine expires if interventions, or repairs will made on the machine. During the warranty period repairs and modifications machine may only be made by Tibo employees.	machine modifications	

Total



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pos	qty	item description	unit price EUR	total EUR
12	1 pcs	sem00112 Installation, Commissioning and Training invoid at customers site according our "Installation And Service Charge Rat of training is 1 working day (8 hours) and contains it customer's personell in operating, changeover and works of the machine.	tes". Duration instruction of	
13	1 set	mcallg Accessories will be offered upon request as well as deep hole drilling oil depending on Workpiece OD and drill diameter. Therefore please provide drill-Ø, length and accord OD for each workpiece separately.	ling workpiece	
14	1 pcs	as an option onf-ebmc Remote connection for E-/B-machines Remote diagnosis: - Readout of error messages, input/output of PLC a Error codes on frequency converters Online access to memory: - Display and edit cutting datas for up to 500 workp Access is via customer provided LAN or VPN network Required: Ethernet cable to cabinet provided by cut	ieces ork.	

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 all

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)