

SERIE TH

COLUMN DRILLING MACHINES

- Automatic feed, electromagnetic clutch
- Transmission: Belt/Gear
- Rotating and tilting table and fixed headstock



Standard equipment

- Wide continuous speed range in 3 steps
- Speed plate and selecting levers on head front
- Mechanical speed variator in (THV models)
- Electronic speed variator in (THI models)
- Digital rpm counter in from (THI models)
- Gear box lubrication by automatic pump
- Machine base with coolant tank and pump for tapping
- Worklight
- MGI: Rotating and tilting table
- Automatic feed and cut-off by electromagnetic clutch
- Front hand wheel for feed work
- Depth scale and adjustable depth stop
- Automatic feed reversing system for tapping
- Automatic tool ejector
- Electric equipment integrated on machine's head
- Emergency STOP push button
- Spindle reversing switch
- Safety drill guard with microswitch
- CE mark



THI.50

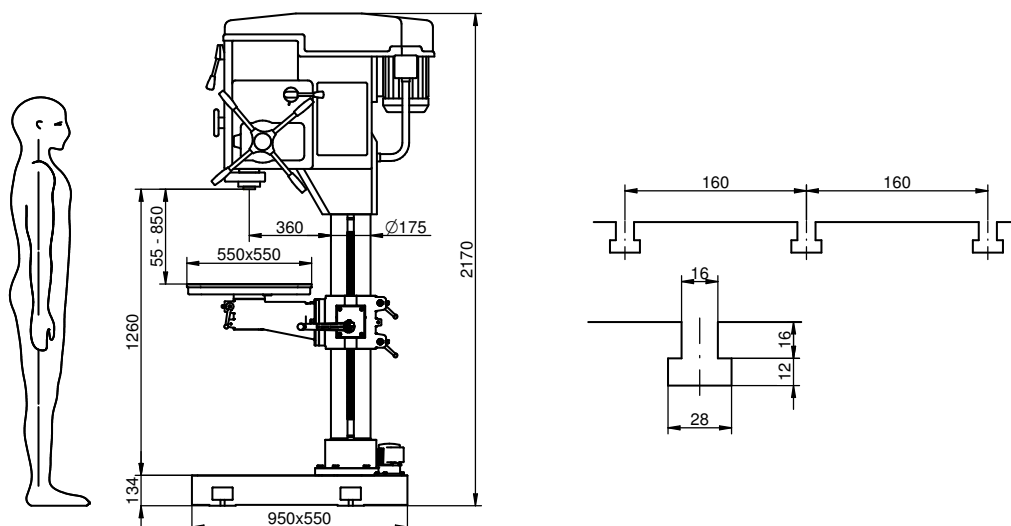
Extra Equipment

	CODE
LBC - DEPTH DIGITAL READER	50012
AR - REDUCED FEEDS (50% STANDARD RANGE)	40039

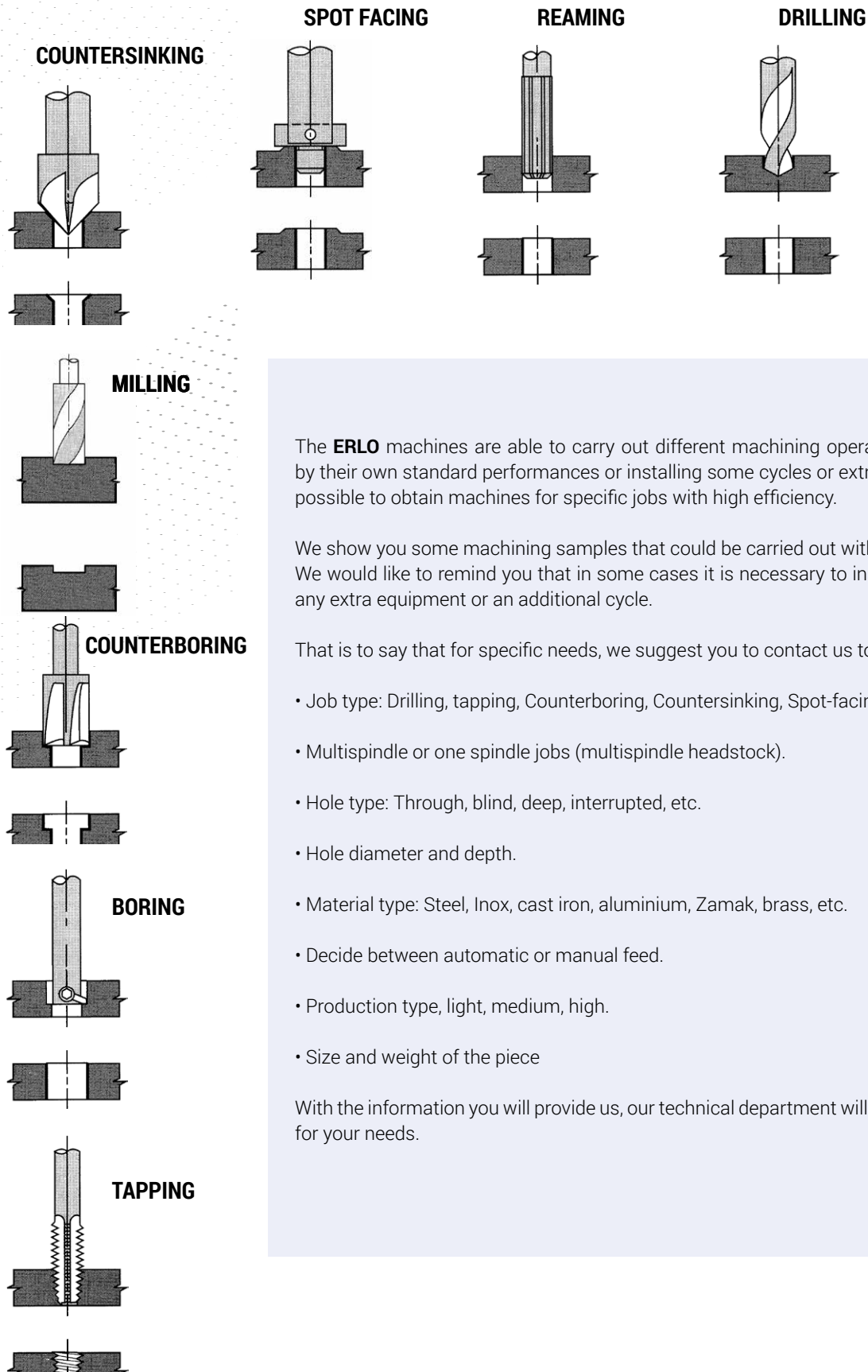
Characteristics

	THV.40	THI.40	THV.50	THI.50
DRILLING CAPACITY IN STEEL ST 70 KG (MM)	40		50	
TAPPING CAPACITY IN CAS IRON 70 KG	M36		M42	
TRANSMISSION	BELT/GEAR			
SPEED RANGE WITH MOTOR AT 1500 RPM 50 HZ 3 PH	60 a 200		30 a 300	
	200 a 600		90 a 900	
	600 a 1500		190 a 1900	
	60 a 200		30 a 300	
FEED	AUTOMATIC BY ELECTROMAGNETIC CLUTCH			
NUMBER AND RANGE OF FEEDS	(4) 0,1-0,2-0,3-0,4			
CLUTCH	ELECTROMAGNETIC CLUTCH			
MAIN MOTOR POWER 1500RPM	4HP		5,5HP	
SPINDLE CONE	MT4			
SPINDLE STROKE	200 mm			
DISTANCE SPINDLE-COLUMN	360 mm			
DISTANCE HUSILLO-MESA	Min. 55/Max. 850			
DISTANCE SPINDLE-TABLE	1260 mm			
COLUMN DIAMETER	Ø175			
DIMENSIONS OF THE TABLE WITH 3 T SLOTS	550x550 mm			
DIMENSIONS OF THE BASE WITH T SLOTS	950x550 mm			
WEIGHT: NET/GROSS KG.	660/750		760/850	
PACKAGING DIMENSIONS AND VOLUME	2,2x0,7x1,2 1,7 m ³		2,2x0,7x1,3 2,0 m ³	

Dimensions



SELECTION AND FEATURES OF A DRILLING/TAPPING MACHINE



The **ERLO** machines are able to carry out different machining operations. It is obtained by their own standard performances or installing some cycles or extra equipment, so it is possible to obtain machines for specific jobs with high efficiency.

We show you some machining samples that could be carried out with our machines. We would like to remind you that in some cases it is necessary to install on the machine any extra equipment or an additional cycle.

That is to say that for specific needs, we suggest you to contact us to show your needs:

- Job type: Drilling, tapping, Counterboring, Countersinking, Spot-facing, reaming, etc.
- Multispindle or one spindle jobs (multispindle headstock).
- Hole type: Through, blind, deep, interrupted, etc.
- Hole diameter and depth.
- Material type: Steel, Inox, cast iron, aluminium, Zamak, brass, etc.
- Decide between automatic or manual feed.
- Production type, light, medium, high.
- Size and weight of the piece

With the information you will provide us, our technical department will quote you a solution for your needs.

EXTRA ACCESSORIES

TOOL FASTENING

DRILL CHUCKS

Quick lock or by key, to adapt cylindrical sleeve drills. Different sizes and measures.

These are supplied with shank adaptor for their adjustment on the machine cone.



REDUCTION SLEEVES

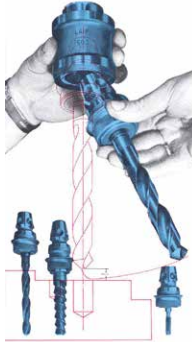
To adjust the cone tools with inferior size than the morse taper of the machine.



RAPID CHANGE DEVICES

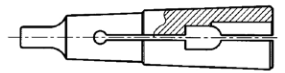
Tool holders and adapters for rapid change of different tools. There is no need to stop the machine spindle turning.

There are adapters for drills with sleeve Morse Taper 1, 2, 3, 4 and 5, drill chucks, tap holders, etc.



CONICAL BUSHING

To adjust the drills with parallel shank or taps to the machine or multispindle headstock cones.



TAP HOLDERS

PNR, Without turning inversion, to fit on machines with automatic inversion of the turning sense.

PR, With automatic inversion of the turning sense. To fit on machines which are not provided with automatic inversion turning. Different models and capacities.



COLLET CHUCKS

Collet chucks and set of collets to install different tools.

It is supplied complete with a collet chuck, set of collets, box and adaptation nut.



PIECE ADJUSTING

VICES

L-100 - FIXED BASE. OPENING 116 mm - JAWS WIDTH 105 mm

L-125 - FIXED BASE. OPENING 160 mm - JAWS WIDTH 125 mm

M116 - FIXED BASE. OPENING 116 mm - JAWS WIDTH 105 mm

M157 - FIXED BASE. OPENING 157 mm - JAWS WIDTH 125 mm

M190 - FIXED BASE. OPENING 190 MM - JAWS WIDTH 150 mm

MG116 - ROTATING BASE. OPENING 116 mm - JAWS WIDTH 105 mm

MG157 - ROTATING BASE. OPENING 157 MM - JAWS WIDTH 125 mm

MG190 - ROTATING BASE. OPENING 190 mm - JAWS WIDTH 150 mm

PF150 - FIXED BASE. OPENING 150 mm - JAWS WIDTH 160 mm

PG150 - ROTATING BASE. OPENING 150 mm - JAWS WIDTH 160 mm



SERIE L



SERIE M



SERIE MG

Pneumatic chucks

- Mechanical, pneumatic, hydraulic.
- Measures from 160 up to 400.

Automatic or manual operating. Possibility of synchronised functioning with the machine cycle.

Provided with 2, 3 or 4 jaws and also in special execution for specific jobs and parts.



TOOL SET UP

Designed by our technical department, they are adjusted to the specific needs of each customer.

EXTRA ACCESSORIES

PARTS DISPLACEMENT

CROSS TABLES

MH.360X1220 - DISPLACEMENT BY SPINDLES X=700 / Y=360 mm

340 XY - SURFACE 340X190. STROKES X=220 / Y=140 mm

430 XY - SURFACE 430X240. STROKES X=280 / Y=180 mm

600 XY - SURFACE 600X240. STROKES X=400 / Y=180 mm

800 XY - SURFACE 800X240. STROKES X=500 / Y=250 mm

1000 XY - SURFACE 1000X315. STROKES X=700 / Y=250 mm

DLC - AUTOMATIC LONGITUDINAL DISPLACEMENT OF THE TABLE, WITH MOTORIZED FEED BOX

DTC - AUTOMATIC TRANSVERSAL DISPLACEMENT OF THE TABLE, WITH MOTORIZED FEED BOX

VD-2 - 2 AXIS DIGITAL VIEWER, X-Y CENTESIMAL READING



430 XY (MS.204)

INDEXING TABLES

- Pneumatic
- Electronic
- Hydraulic, etc.

Different sizes and indexes to adapt us to your needs. Simple fitting on the machine. Manual, automatic or synchronised movements with the machine cycle.



CONTROL AND READING

EQUIPMENT AND DIGITAL READING

1, 2 or 3 axis viewer, to read out the strokes of the cross tables and the main spindle.

Centesimal reading out.

It is supplied integrated in a command plate over an articulated arm.



DIGITAL RULERS

Digital ruler to read the strokes of the main spindle. It is installed directly over the headstock.



EXTRA ACCESSORIES

MULTISPINDLE HEADSTOCKS



MULTISPINDLE HEADSTOCKS

TYPE	N° OF SPINDLES	Ø DRILLING	AREA	SHAPE		
EXCENTRIC	2 A 4	2 A 25		A,B,C		
UNIVERSAL JOINT	2 A 18	2 A 25		A,B,C,D,E,F		
SPECIAL FIXED SPINDLES	2 A 20	2 A 25		A,B,C,D,E,F		
SHAPE	A	B	C	D	E	F
	• •	• • • •	• • • •	• • • • • •	• • • •	• • • • • • • •

TAPPING SYSTEMS

TAPPING SYSTEM IR/RS

Semi-automatic tapping system for auxiliary operations and small tapping productions.



TAPPING SYSTEM BY LEAD SCREW

Automatic tapping system for big production operations.
Tapping system by lead screw (one lead screw included).
Tapping system by lead screw with bracking by variator (one lead screw included).

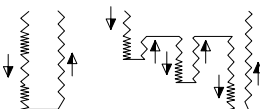


HIDROBLOCK

STANDARD CYCLE



CYCLE UPON REQUEST



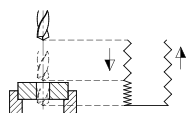
EXTRA ACCESSORIES

NEUMATIC CYCLES

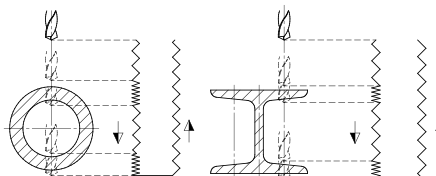
SYNCHRONISED PNEUMATIC CYCLE

Spindle cycle automation synchronising the rapid approach and return movements with the drilling feed.

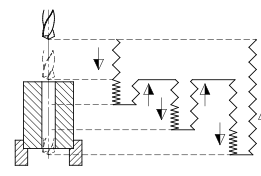
SYNCHRONISED PNEUMATIC CYCLE



PIPE AND PROFILES CYCLE

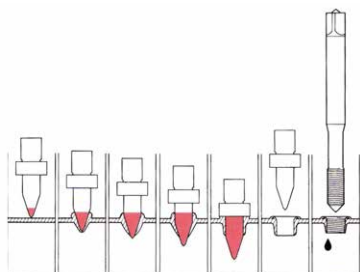


PECK DRILLING CYCLE



FLOW DRILLING + TAPPING

FLOW DRILLING



STARTING KIT



SAMPLES



INTERMEDIATE TABLES FOR BENCH TYPE DRILLING MACHINES

Fixed intermediate table



Rotating intermediate table



REVERSIBLE TABLES WITH VICE FOR COLUMN DRILLING MACHINES



125 Reversible rotating table with vice for models serie TSA-TSAV.32-35

COMMAND OPTIONS



Bi manual command



Cycle start foot switch