








# SERIE TCA-TCE

## COLUMN DRILLING MACHINES

- Automatic feed, mechanical clutch (serie TCA) and electromagnetic clutch (serie TCE)
- Geared drive
- Displaceable table and fixed headstock

						
ø 40 mm ø 50 mm ø 60 mm ø 70 mm	M 33 M 36 M 42 M 50	3HP 4HP 5,5HP 7,5HP	MT4 MT4 MT5 MT5	200 mm 230 mm 260 mm 260 mm	ø 175 mm ø 200 mm ø 220 mm ø 220 mm	360 mm 400 mm 420 mm 420 mm

## Standard equipment

- Hardened and high quality steel gears
- Speed plate and selecting levers on head
- Gear box lubrication by automatic pumps
- Machine base with coolant tank and pump
- Worklight
- Rotating and tilting table
- Automatic feed and cut-off by mechanic clutch (TCA) and by electromagnetic clutch (TCE)
- Frontal wheel for fine sensitive feed
- Depth scale and adjustable depth stop
- Automatic tool ejector
- Electric equipment integrated on machine's head
- Emergency stop push button
- Spindle reversing switch
- Safety drill guard with microswitch
- CE marks



## Extra Equipment

<b>40022</b>	Tapping system IR/RS
<b>40023</b>	Tapping system IR/RS by pressing the buttons at handles
<b>40035</b>	Automatic tapping system by lead screw with brake by variator
<b>40036</b>	Automatic tapping system by lead screw with brake by variator and digital rpm reader
<b>40039</b>	Reduced feeds (50% from standard range)
<b>40085</b>	Column supplement 200 mm.
<b>40070</b>	Speed electronic variator
<b>40045</b>	Speed electronic variator and digital reader
<b>40047</b>	Depth digital reader
<b>40012</b>	Please inquiry for special motors
-	Rapid approach and return with pneumatic counterweight (serie TCE)
<b>40100</b>	Integral cycle with encoder (serie TCE)
<b>40110</b>	Integral cycle with encoder and automatic tapping system by lead screw with brake BY variator (serie TCE)
<b>40115</b>	Auxiliary command box (start-stop and emergency stop)
<b>40120</b>	Start-Stop-Emergency control extension

# Characteristics

	TCA.40	TCA.50	TCE.40	TCE.50	TCE.60	TCE.70
DRILLING CAPACITY IN STEEL OF 70 Kg. (mm)	40	50	40	50	60	70
TAPPING CAPACITY IN STEEL OF 70 Kg.	M33	M36	M33	M36	M42	M50
TRANSMISSION	GEARS (Hardened and grounded)					
SPEED NUMBER AND RANGE (WITHOUT VARIATOR)	(9) 61-85-123-191-269-390-574-806-1169 rpm.	(9) 54-75-109-169-237-344-507-712-1032 rpm.	(9) 61-85-123-191-269-390-574-806-1169 rpm.	(9) 54-75-109-169-237-344-507-712-1032 rpm.	(12) 64-80-106-138-199-248-328-429-561-701-926-1210 rpm.	(12) 51-64-84-110-158-198-262-342-447-559-738-966 rpm.
FEED	AUTOMATIC	AUTOMATIC	AUTOMATIC	AUTOMATIC	AUTOMATIC	AUTOMATIC
SPEED NUMBER AND RANGE	(4) 0,10-0,20-0,30-0,40				(6) 0,1-0,2-0,3-0,4-0,5-0,6	
CLUTCH	MECHANIC (Automatic)		ELECTROMAGNETIC		ELECTROMAGNETIC	
MAIN MOTOR POWER, MOTOR 1500 rpm.	3 HP	4 HP	3 HP	4 HP	5,5 HP	7,5 HP
SPINDLE CONE	MT4	MT4	MT4	MT4	MT5	MT5
SPINDLE STROKE	200 mm	230 mm	200 mm	230 mm	260 mm	260 mm
DISTANCE SPINDLE-COLUMN	360 mm	400 mm	360 mm	400 mm	420 mm	420 mm
DISTANCE SPINDLE-TABLE	Min. 35/Max. 835	Min. 50/Max.850	Min. 35/Max. 835	Min. 50/Max.850	Min. 25/Max. 825	Min. 25/Max. 825
DISTANCE SPINDLE-BASE	1.240 mm	1.290 mm	1.240 mm	1.290 mm	1.270 mm	1.270 mm
COLUMN DIAMETER	Ø175 mm	Ø200 mm	Ø175 mm	Ø200 mm	Ø220 mm	Ø220 mm
DIMENSIONS OF THE TABLE WITH 3 T SLOTS	550x550 mm		550x550 mm		600x600 mm	
DIMENSIONS OF THE BASE WITH T SLOTS	950x550 mm	1060x600 mm	950x550 mm	1060x600 mm	1060x600 mm	1060x600 mm
WEIGHT: NET / GROSS Kg.	610/695	710/795	610/695	710/795	820/920	840/940
PACKAGING DIMENSIONS AND VOLUME	2500x600x1200 mm / 1,80 m <sup>3</sup>	2600x600x1200 mm / 1,88 m <sup>3</sup>	2500x600x1200 mm / 1,80 m <sup>3</sup>	2600x600x1200 mm / 1,88 m <sup>3</sup>	2700x700x1200 / mm / 2,27 m <sup>3</sup>	2700x700x1200 / mm / 2,27 m <sup>3</sup>

# Dimensions

