



# DMTGF SERIES PROGRAMMABLE TILTING TABLE WITH TRUNION FIXTURE



UDNC-M1 Controller

Model 5522



Heavy duty dual disc brake system

The DMTGF models utilize the DMNC rotary table bodies for the "drive table." These tables are fixed on a mounting plate. A "full rotary" end support is mounted on the other end of the mounting plate. Both the rotary drive and end support sides are **ground together** at the factory to assure that the center height, parallelism, flatness, etc. are maintained. The end support is provided with **dual thrust bearings**, and a large spindle with the same thru hole as the rotary drive unit. A rectangular block fixture is bolted, and located with fixture keys, to both the rotary and end support. This block is easily removed however, so that a type of "Quick Change Block effect" can be realized. The trunion block is provided with tapped holes for fixturing purposes.

Inch/(mm)

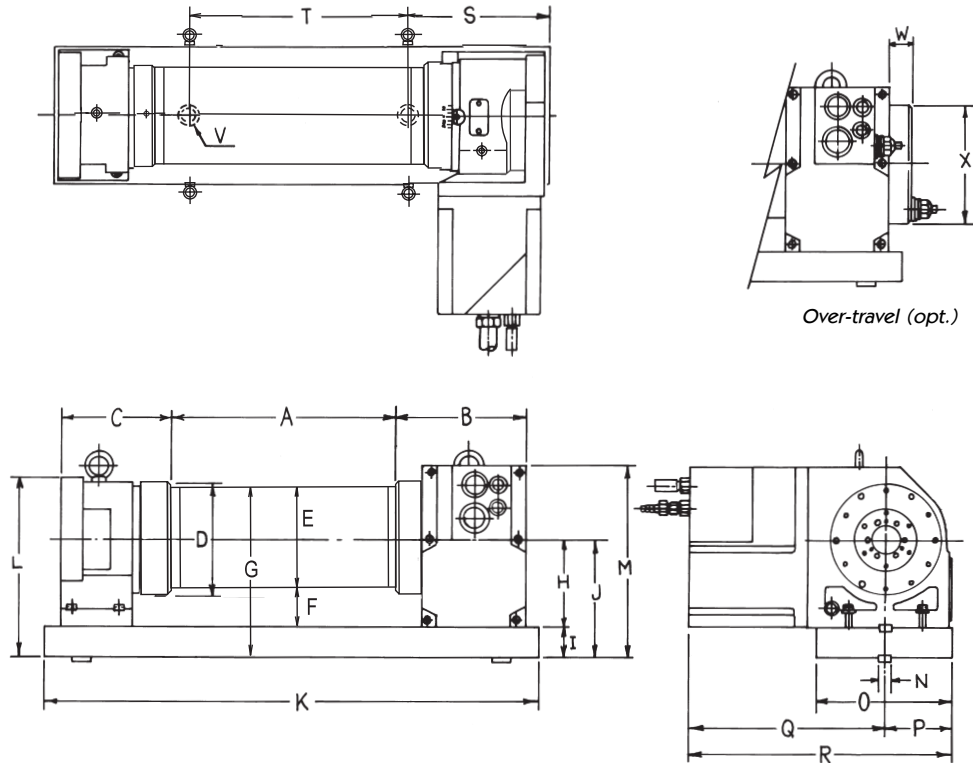
MODEL / DMTGF	4417	5522	6628
<b>BLOCK SIZE (Square x Length)</b>	15.75 x 3.94 (400 x 100)	19.69 x 5.12 (500 x 130)	23.62 x 5.91 (600 x 150)
<b>SPINDLE TORQUE ft.lbs (Kg.m)</b>	165 (23)	195 (27)	780 (108)
<b>MAX RPM</b>	55	45	22
<b>SPINDLE BRAKE TORQUE ft.lbs (Kg.m)</b>			
Pneumatic	220 (30)	360 (50)	650 (90)
Hydraulic	434 (60)	704 (98)	1030 (142)
<b>RESOLUTION (Degrees)</b>	0.000625"	0.0005"	0.00025"
<b>MAX LOAD CAPACITY Vertical lbs. (Kg)</b>	90 (41)	135 (61)	200 (91)
<b>TILTING ANGLE ACCURACY</b>	+/- 45 seconds		
<b>REPEATABILITY</b>	10 seconds		
<b>MOTOR TYPE</b>	Digital AC Servo		
<b>THRU HOLE DIA.</b>	1.77 (45)	2.50 (63.5)	3.54 (90)
<b>POWER SUPPLY</b>	105 ~ 240 VAC, 20 Amp, Single Phase		
<b>SPINDLE RUNOUT</b>	0.00006" (0.02mm)		
<b>CONTROLLER</b>	UDNC-M1		
<b>NET WEIGHT lbs (Kg)</b>	341 (155)	519 (236)	858 (390)

**CAN BE SUPPLIED AS FULL  
FOURTH AXIS.  
HYDRAULIC SPINDLE BRAKES  
OPTIONAL.**

**EACH UNIT SUPPLIED WITH:**

- ▶ UDNC-M1 (DMTGF)
- ▶ DMTGF unit complete with rotary drive unit, end support and mounting plate complete
- ▶ Power cable (105 ~ 240 VAC, 20 amp, single phase)
- ▶ Remote cable for M-Code interface to CNC
- ▶ Operators manual, test report, warranty card and locating keys

## OVERALL DIMENSIONAL SPECIFICATIONS



One of the main concerns to this type of fixture, is rigidity. The DMTGF series, provides a large **dual disc braking mechanism on both the ROTARY DRIVE UNIT, AND THE END SUPPORT**. This unique design supplies maximum braking power over the entire machining area of the fixture block, providing the rigidity required to machine even the toughest of materials.

The unit's "one-piece" design makes mounting and removal to the machine table very easy. Locating keyways are machined on the underside of the mounting plate, making this operation very simple.

Inch/(mm)

MODEL	A	B	C	D	E	F	G	H	I	J	K	L	M
<b>4417</b>	15.75 (400)	7.09 (180)	6.10 (155)	6.69 (170)	3.94 (100)	3.15 (80)	8.86 (225)	5.12 (130)	1.77 (45)	6.89 (175)	30.51 (775)	10.83 (275)	11.02 (280)
<b>5522</b>	19.69 (500)	8.07 (205)	7.28 (185)	8.66 (220)	5.12 (130)	3.74 (95)	10.63 (270)	6.30 (160)	1.77 (45)	8.07 (205)	35.43 (900)	12.72 (323)	12.80 (325)
<b>6628</b>	23.62 (600)	9.06 (230)	7.87 (200)	11.02 (280)	5.91 (150)	4.53 (115)	12.20 (310)	7.48 (190)	1.77 (45)	9.25 (235)	40.94 (1040)	15.08 (383)	15.16 (385)

Inch/(mm)

MODEL	N	O	P	Q	R	S	T	V	W	X
<b>4417</b>	0.71 (18)	9.06 (230)	4.53 (115)	11.61 (295)	16.14 (410)	8.86 (225)	12.80 (325)	M-16	1.18 (30)	7.20 (183)
<b>5522</b>	0.71 (18)	11.81 (300)	5.91 (150)	12.60 (320)	18.50 (470)	9.06 (230)	17.32 (440)	M-16	1.18 (30)	8.43 (214)
<b>6628</b>	0.71 (18)	13.39 (340)	6.69 (170)	14.57 (370)	21.26 (540)	10.43 (265)	20.08 (510)	M-16	1.18 (30)	10.79 (274)

<b>END SUPPORTS MAY BE PURCHASED SEPARATELY.</b>	
PART#	MODEL (Size)
SU-06170	(For 4417 model)
SU-08170	(For 5522 model)
SU-10170	(For 6628 model)

Optional accessories are the same as for DMNC. Note: DMTGF models can be supplied with fourth axis drives on request.