

TORO SERIES

HIGH PERFORMANCE

TORO SERIES

Z800 MODEL

OIL-COOLED
BALLSCREW NUTS
AND BOXWAYS



Z1350 MODEL

LASER COMPENSATION
ON ALL AXES



12,000 RPM 16-STATION TURRET
SUPER HIGH TORQUE LIVE TOOLS



GL20II MODEL

AUTOMATE SHORT
AND LONG BATCHES



GL100 MODEL

220 lb. LOAD CAPACITY
FOR BILLETS AND SHAFTS

TECHNICAL DATA

		TD15		TD20		TD25		TD30		TD35		TD45		TD55																							
		TD15M	TD15Y	TD15S	TD15MS	TD15YS	TD20M	TD20Y	TD20S	TD20MS	TD20YS	TD25M	TD25Y	TD25S	TD25MS	TD25YS	TD30M	TD30Y	TD30S	TD30MS	TD30YS	TD35M	TD35Y	TD35S	TD35MS	TD35YS	TD45M	TD45Y	TD45S	TD45MS	TD45YS	TD55M	TD55Y	TD55S	TD55MS	TD55YS	
GENERAL DATA	Maximum diam. of swinging over bed (in)	37.40																																			
	Maximum turning diameter (in)	21.65																																			
GENERAL DATA	Distance between spindle and tailstock centre (in)	/800	36.02	-	35.35	-	35.35	-	34.41	-	33.46	-	33.46	-	33.39	-																					
		/1350	57.68	-	57.01	-	57.01	-	56.06	-	55.12	-	55.12	-	55.04	-																					
GENERAL DATA	Distance between centre of spindles (in)	-	32.52	-	31.18	-	31.18	-	30.24	-	29.92	-	29.92	-	29.21	-																					
	Y-axis travel (in)	-	+3.15 -2.60	-	+3.15 -2.60	-	+3.15 -2.60	-	+3.15 -2.60	-	+3.15 -2.60	-	+3.15 -2.60	-	+3.15 -2.60	-	+3.15 -2.60	-	+3.15 -2.60	-	+3.15 -2.60	-	+3.15 -2.60	-	+3.15 -2.60	-	+3.15 -2.60	-	+3.15 -2.60	-	+3.15 -2.60	-	+3.15 -2.60	-	+3.15 -2.60		
SPINDLE	Maximum speed (rpm)	4500		4000		4000		3500		3000		2200		1600																							
	Maximum bar diameter (in)	20.5		2.60		2.60		3.23		3.74		5.00		7.09 (7.56)																							
SPINDLE	Chuck diameter (in)	6.89/8.27		8.27		9.84/8.27		10.04/12.40		12.40		12.40/15.75		19.69																							
	Spindle power (HP) (max./S6 40%)	18.8/10.7		29.5/20.1		46.9/25.5		56.3/36.2		64.4 (S3 25%) / 52.3 (S1)		68.4 (S3 25%) / 52.3 (S1)		68.4 (S3 25%) / 52.3 (S1)																							
SPINDLE	Turning torque (lb.ft)	215.4 (max)		269.9 (max)		663.8 (max)		752.3 (max)		1106.3(max)		2655.2 (max)		2655.2 (max)																							
	Number of driven tools	-	16 [12]	-	16 [12]	-	16 [12]	-	16 [12]	-	12 [16]	-	12 [16]	-	12 [16]	-	12 [16]	-	12 [16]	-	12 [16]	-	12 [16]	-	12 [16]	-	12 [16]	-	12 [16]	-	12 [16]	-	12 [16]	-	12 [16]	-	12 [16]
TURRET	Turning speed (rpm)	-	12000	-	12000	-	12000	-	12000	-	12000	-	12000	-	12000	-	12000	-	12000	-	12000	-	12000	-	12000	-	12000	-	12000	-	12000	-	12000	-	12000	-	12000
	Power (HP) (max./S1)	-	15.2/10.9	-	5.2/10.9	-	15.2/10.9	-	15.2/10.9	-	18.4/14.8	-	18.4/14.8	-	18.4/14.8	-	18.4/14.8	-	18.4/14.8	-	18.4/14.8	-	18.4/14.8	-	18.4/14.8	-	18.4/14.8	-	18.4/14.8	-	18.4/14.8	-	18.4/14.8	-	18.4/14.8	-	18.4/14.8
TURRET	Maximum torque (lb.ft)	-	55.3 [77.4]	-	55.3 [77.4]	-	55.3 [77.4]	-	55.3 [77.4]	-	77.4 [55.3]	-	77.4 [55.3]	-	77.4 [55.3]	-	77.4 [55.3]	-	77.4 [55.3]	-	77.4 [55.3]	-	77.4 [55.3]	-	77.4 [55.3]	-	77.4 [55.3]	-	77.4 [55.3]	-	77.4 [55.3]	-	77.4 [55.3]	-	77.4 [55.3]	-	77.4 [55.3]
	Total weight (lb)	/800	18298 (*)	19180 (*)	18739 (*)	19620 (*)	18739 (*)	19620 (*)	19180 (*)	20061 (*)	20282 (*)	21164 (*)	21384 (*)	22266 (*)	21384 (*)	22266 (*)																					
WEIGHT		/1350	20943 (*)	-	21384 (*)	-	21384 (*)	-	21825 (*)	-	22927 (*)	-	24030 (*)	-	24030 (*)	-																					

(*) Approximate weights.

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TORO SERIES

BIG DOES NOT MEAN SLOW

TORO SERIES

Z2200 MODEL

GOODBYE TO OBSOLETE SPINDLES WITH REDUCTION GEARBOXES

MACHINE LONGER PARTS



Z3200 MODEL

INTEGRATED SPINDLES WITH HIGH POWER AND TORQUE



12,000 RPM / 105 Nm / 13kW

TECHNICAL DATA

	TD15			TD20			TD25			TD30			TD35			TD45			TD55						
	TD15	TD15M	TD15Y	TD20	TD20M	TD20Y	TD25	TD25M	TD25Y	TD30	TD30M	TD30Y	TD35	TD35M	TD35Y	TD45	TD45M	TD45Y	TD55	TD55M	TD55Y				
Maximum diam. of swinging over bed (in)	37.40																								
Maximum turning diameter (in)	21.65																								
Distance between spindle an tailstock centre (in)	/2200			90.47			90.47			89.53			88.58			88.58			88.50						
	/3200			129.84			129.84			128.90			127.95			127.96			127.87						
Distance between centre of spindles (in)	-																								
Y-axis travel (in)	-	-	+3.15	-	-	+3.15	-	-	+3.15	-	-	+3.15	-	-	+3.15	-	-	+3.15	-	-	+3.15				
			-2.60			-2.60			-2.60			-2.60			-2.60			-2.60			-2.60				
SPINDLE	Maximum speed (rpm)	4500			4000			4000			3500			3000			2200			1600					
	Maximum bar diameter (in)	2.05			2.60			2.60			3.23			3.74			5.0			7.09					
	Chuck diameter (in)	6.89/8.27			8.27			9.84/8.27			10.04/12.40			12.40/15.75			12.40/15.75			19.69					
	Spindle power (HP) (max./S6 40%)	18.8/10.7			29.5/20.1			46.9/25.5			56.3/36.2			64.4 (S3 25%) /52.3 (S1)			68.4 (S3 25%) /52.3 (S1)			68.4 (S3 25%) /52.3 (S1)					
	Turning torque (lb.ft)	215.4 (max)			284.7 (max)			663.8 (max)			752.3 (max)			1106.3 (max)			2655.3 (max)			2655.3 (max)					
TURRET	Number of driven tools	-	16 [12]	-	16 [12]	-	16 [12]	-	16 [12]	-	16 [12]	-	12 [16]	-	12 [16]	-	12 [16]	-	12 [16]	-	12 [16]	-	12 [16]		
	Turning speed (rpm)	-	12000	-	12000	-	12000	-	12000	-	12000	-	12000	-	12000	-	12000	-	12000	-	12000	-	12000		
	Power (HP) (max./S1)	-	15.2/10.9	-	15.2/10.9	-	15.2/10.9	-	15.2/10.9	-	15.2/10.9	-	18.4/14.8	-	18.4/14.8	-	18.4/14.8	-	18.4/14.8	-	18.4/14.8	-	18.4/14.8		
			(18.4/14.8)		(18.4/14.8)		(18.4/14.8)		(18.4/14.8)		(18.4/14.8)		(15.2/10.9)		(15.2/10.9)		(15.2/10.9)		(15.2/10.9)		(15.2/10.9)		(15.2/10.9)		
Maximum torque (lb.ft)	-	77.4	-	77.4	-	77.4	-	77.4	-	77.4	-	77.4	-	77.4	-	77.4	-	77.4	-	77.4	-	77.4			
WEIGHT	Total weight (lb)	/2200			24691 (*)			25132 (*)			25132 (*)			25573 (*)			26675 (*)			27778 (*)			27778 (*)		
		/3200			28659 (*)			29100 (*)			29100 (*)			29541 (*)			30643 (*)			31746 (*)			31746 (*)		

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