



Model range

TX 66 Y3

TX 66 Y2 Quattro

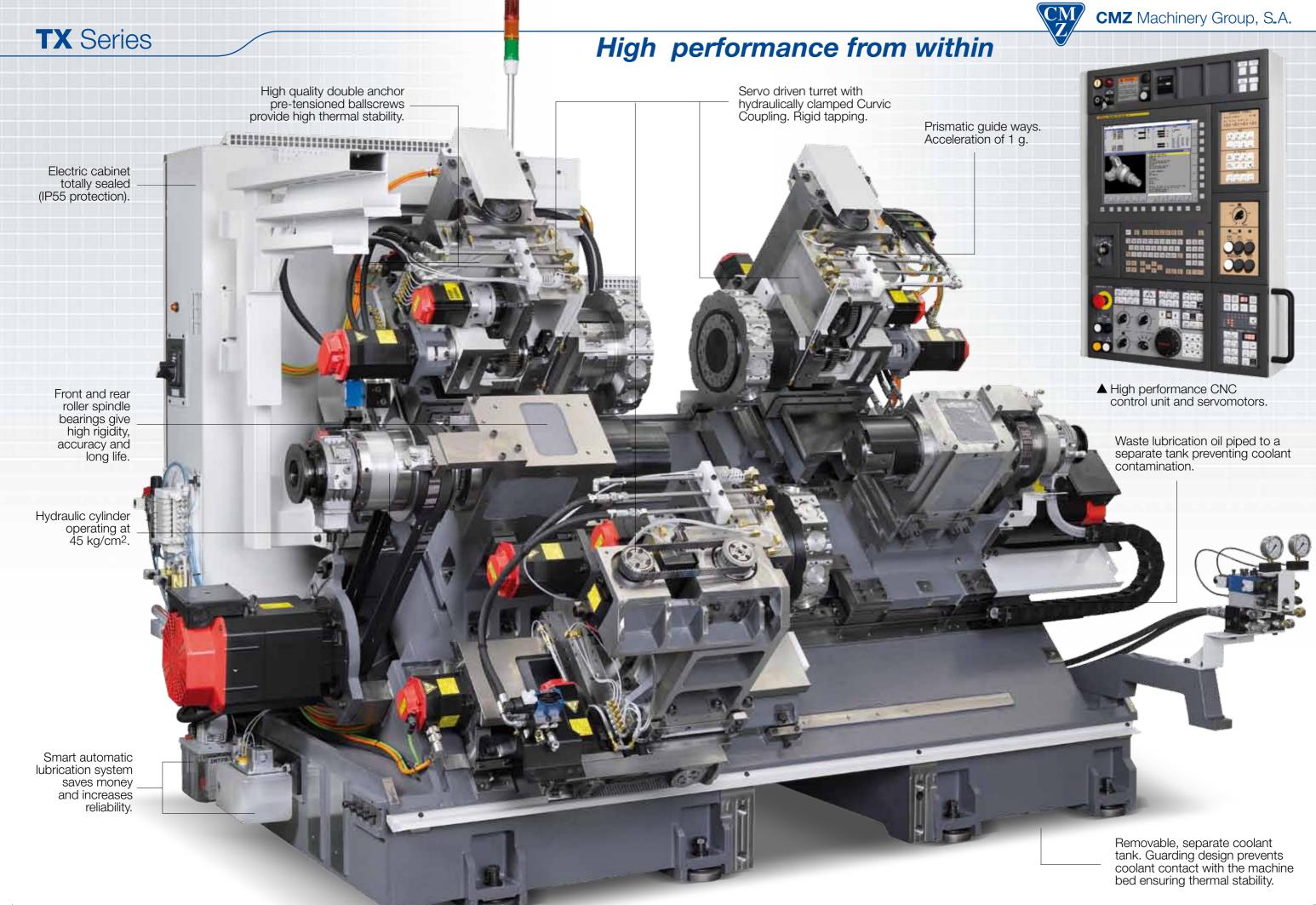
TX 66 Y2 Twin

TX 52 Y3

TX 52 Y2 Quattro

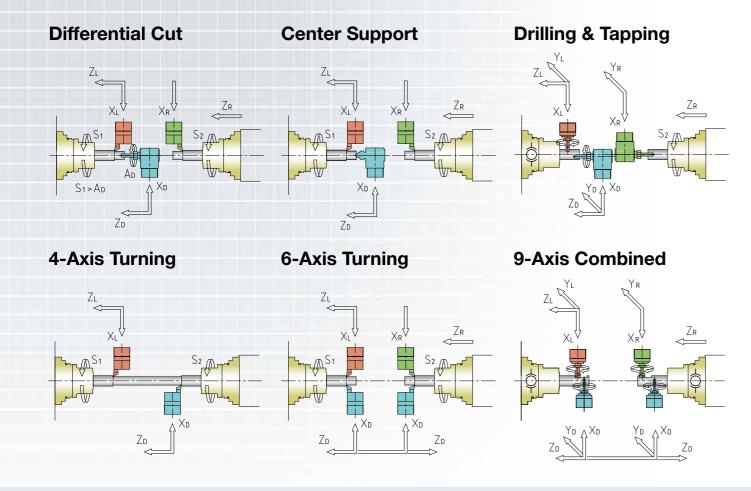
TX 52 Y2 Twin



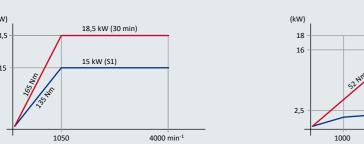


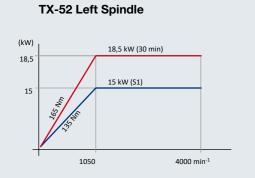
TX Series

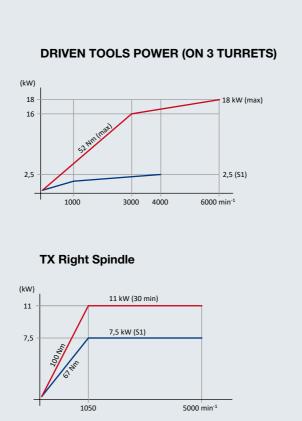
Examples of Simultaneous Machining



TX-66 Left Spindle



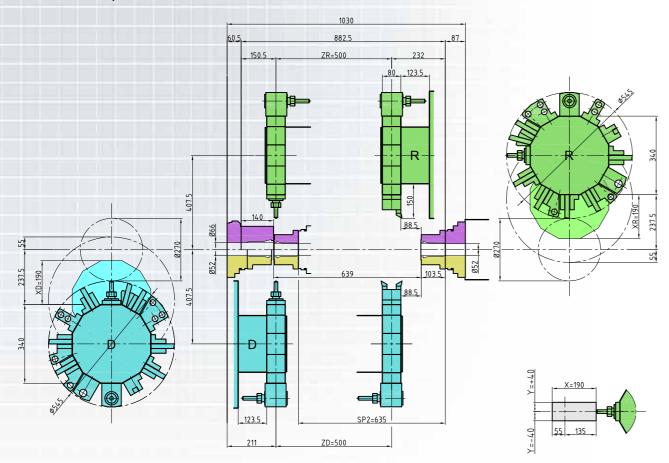




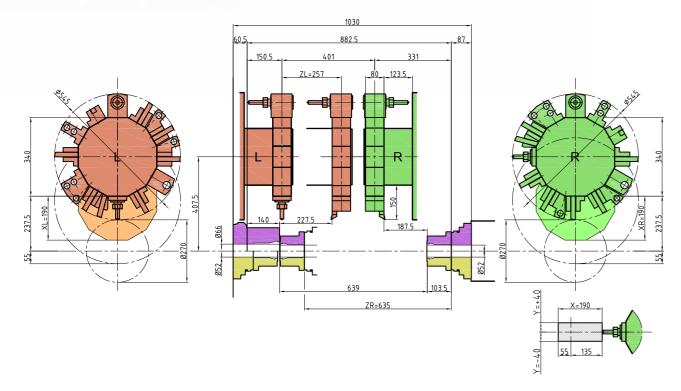


Travels & Interferences

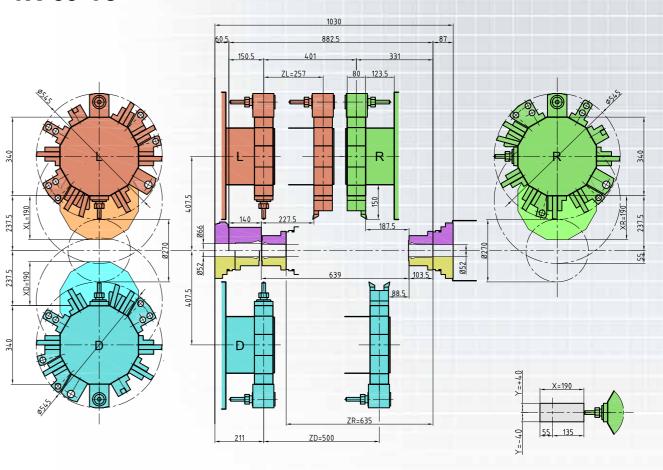
TX-66-Y2 Quattro



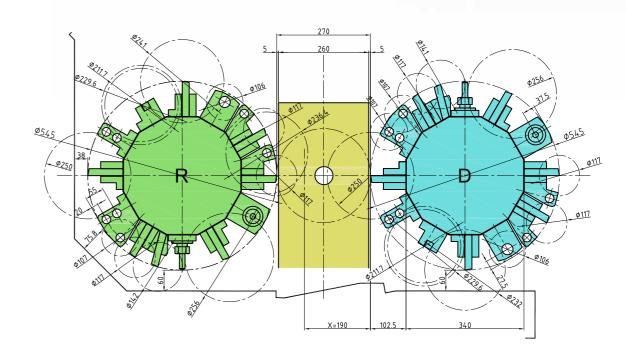
TX-66-Y2 Twin



TX-66-Y3



Tooling interferences



CMZ Machinery Group, S.A.

Automate your production with the CNC controlled automatic parts loader

Large capacity loader.

The loader arm is fitted with twin grippers that can carry two components up to 3kg each and up to 150mm diameter. Having twin grippers means that both the raw and finished part can be carried at the same time. This reduces the loading time and minimises the distance that the loader has to travel.

Loader with non-stop machining feature.

The innovative design of this loader allows a part to be loaded or unloaded from the either chuck without stopping the opposite spindle. Unlike a gantry loader where the cycle has to stop for loading, this system allows for continuous production. This feature ensures maximum machine utilisation and minimises cycle times.

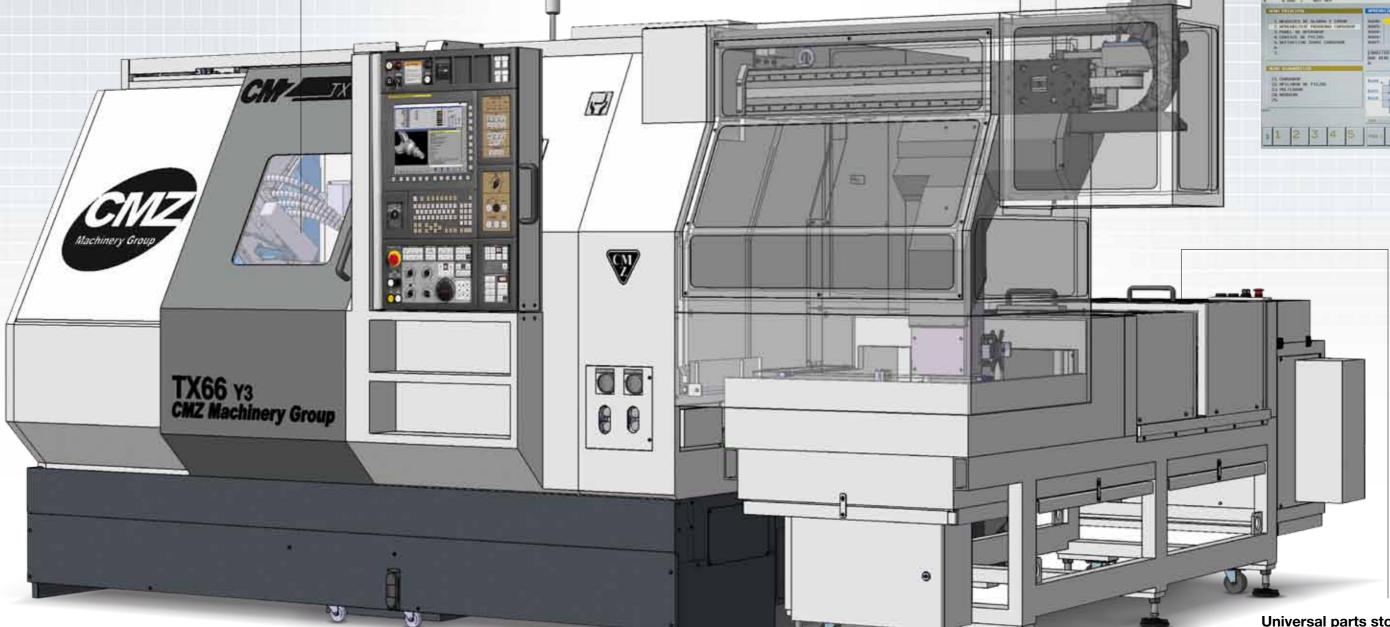
VERY EASY TO USE.

Easy to use and to program, CMZ have developed a conversational programming system that makes it very easy to set and use the automatic parts loader.



Universal parts stocker.

The parts stocker allows a wide range of component types and sizes to be stored in the pre-machined and finished state. Blanks up to 150mm and 3kg can be accommodated by the automatic loader and stocker. Shafts up to 300mm long can also be handled.



Z axis speed (longitudinal): 180 m/min.
X axis speed (vertical): 120 m/min.

CMZ offer a wide range of products for automation. Contact us for more information.

Latest generation control systems

Manual Guide i. Conversational programming simplifies programming and program proving.





Nano CNC.

The CNC makes internal calculations for the servos in 1/1000 of a micron (in nanometres - 0.000001mm).

0.0001 mm resolution& 1 g acceleration.

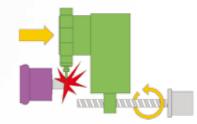
With 1 million pulse encoders, better precision, surface finish and aceleration are achieved.

Manual handle retrace function.

With this function you can retrace (forward and reverse) the programmed tool path of all 3 turrets using the electronic handwheel. This function can greatly reduce the setup time of the machine.

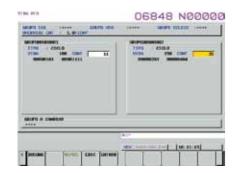
Electronic detection of colisions.

This function detects any abnormal torque on machine motors caused by mechanical impacts, immediately stopping machine heads and axes, which prevents further damage.



Tool life management Tool lo (optional). (option

40 groups of up to 8 tools per group can be established so that when the life of the tool is over, either through the number of times that this has been called up or through cutting time, the machine automatically changes to the following tool from that group.



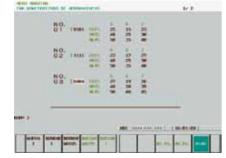
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Screen for displaying the state of tool life.

Tool load monitoring (optional).

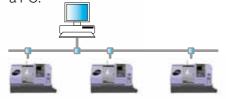
This function memorises the power consumption of each tool when the tool is new. Any change in power consumption is used to detect either a worn tool or a broken tool. This reduces the danger of accidents and rejects when working unattended jobs.



Screen for typing values of tool wear and breakage.

Ethernet connection.

Connect the machine to your network using the CNC's FTP client to load and unload programs from a PC.



Introduce a memory card and use it as a hard drive.

Insert a memory card then save and execute programs from it.

The memory card can be installed permanently into the covered slot on the front panel. Once fitted, the cover can be closed for protection.







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Tooling system:

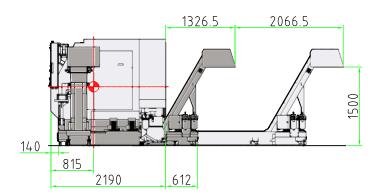


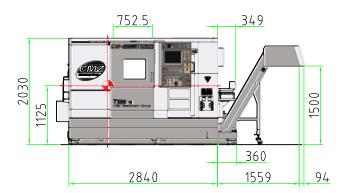
	Technical Data		TX66 Y3	TX52 Y3	TVCC V2 Quattra	TX52 Y2 Quattro	TX66 Y2 Twin	TX52 Y2 Twin
			255	255	TX66 Y2 Quattro	255	255	255
Basic functions	Ø Maximum turning diameter (mm) Ø Maximum swing over carriage (mm)		270	270	270	270	270	270
	Distance between collet chucks (mm)		639	649	639	649	639	649
	Ø Inside diameter of left spindle (mm)		66	52	66	52	66	52
	Ø Inside diameter of right spindle (mm)		52	52	52	52	52	52
	b inside diameter of right s		190	190	JZ	32	190	190
	Strokes upper L Turret	XL (mm)	300	300	-	-	300	300
		ZL (mm)			-	-		
		YL (mm)	±40	±40	-	-	±40	±40
	Strokes upper R Turret	XR (mm)	190	190	190	190	190	190
		ZR (mm)	635	635	500	500	635	635
		YR (mm)	±40	±40	±40	±40	±40	±40
	Strokes Lower D Turret	XD (mm)	190	190	190	190	-	-
		ZD (mm)	500	500	500	500	-	-
	0 0	YD (mm)	±40	±40	±40	±40	-	-
	Strokes Right Spindle		635	635	635	635	635	635
	Rapid feed XL, XR & XD (m/min)		16	16	16	16	16	16
	Rapid feed ZL, ZR & ZD (m/min)		20	20	20	20	20	20
	Rapid feed YL, YR &YD (m/min)		12	12	12	12	12	12
	Rapid feed Right Spindle		30	30	30	30	30	30
	Axis acceleration		1 g (1g=9,8 m/sec2)					
Lelft-Headstock	Spindle speed (rpm)		4.000	5.000	4.000	5.000	4.000	5.000
	Ø Bearings external diameter (mm)		180	150	180	150	180	150
	Ø Bearings internal diameter (mm)		120	100	120	100	120	100
	Spindle nose		ASA 8″ A2	ASA 6″ A2	ASA 8″ A2	ASA 6″ A2	ASA 8″ A2	ASA 6″ A2
	Ø Inside diameter of spindle (mm)		77	61	77	61	77	61
	Ø Maximum bar size (internal diameter of drawtube)(mm)		66	52	66	52	66	52
	Ø Chuck diameter/bore size (mm)		210/66	175/56	210/66	175/56	210/66	175/56
	Spindle power (30 min/S1)		15/11 Kw					
	Spindle torque (30 min/S1)		136/100 Nm	115/84 Nm	136/100 Nm	115/84 Nm	136/100 Nm	115/84 Nm
Right-Headstock	Spindle speed (rpm)		5.000	5.000	5.000	5.000	5.000	5.000
	Ø Bearings external diameter (mm)		150	150	150	150	150	150
	Ø Bearings internal diameter (mm)		100	100	100	100	100	100
	Spindle nose		ASA 6″ A2					
	Ø Inside diameter of spindle (mm)		61	61	61	61	61	61
	Ø Maximum bar size (internal diameter of drawtube)(mm)		52	52	52	52	52	52
	Ø Chuck diameter/bore size (mm)		175/56	175/56	175/56	175/56	175/56	175/56
	Spindle power (30 min/S1)		7,5/5,5 Kw					
	Spindle torque (30 min/S1)		68/50 Nm					
Driven Tools Turret	Number of tool stations (each turret)		12	12	12	12	12	12
	Number of index positions		24	24	24	24	24	24
	Tools section		□20/□25	□20/□25	□20/□25	□20/□25	□20/□25	□20/□25
	Tool index time		0,1 sec					
	Number of driven tool positions (each turret)		12	12	12	12	12	12
	Maximum speed		6.000	6.000	6.000	6.000	6.000	6.000
	Power (max.)		18 Kw					
	Torque (max.)		52 Nm					
Varios	Capacity of coolant tank - lateral type chip conveyor (litres)		350	350	350	350	350	350
	Capacity of coolant tank - rear type chip conveyor (litres)		250	250	250	250	250	250
	Capacity of hydraulic oil tank (litres)		10	10	10	10	10	10
	Capacity of lubrication oil tank (litres)		4	4	4	4	4	4
	Fully installed power (KVA)		65	65	65	65	65	65
	Installation voltage		400 V 50 Hz ± 5%					
	Max. ambient temperature		35º C					
	Weight		9.600 Kg	9.500 Kg	9.300 Kg	9.200 Kg	9.300 Kg	9.200 Kg
	Dimensions (mm)		2840x2190x2030	2840x2190x2030	2840x2190x2030	2840x2190x2030	2840x2190x2030	2840x2190x2030

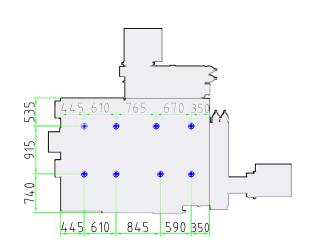
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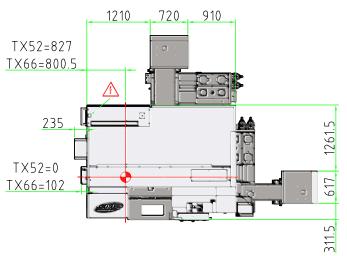
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TX Series-Dimensions











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