

# MORI-SAY

# TMZ642CNC

SIX-SPINDLE AUTOMATIC LATHE



TAJMAC - ZPS

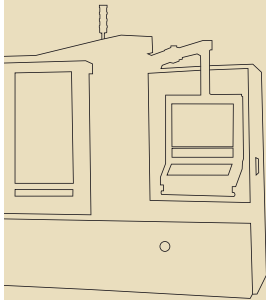


# OVERVIEW

- 02 | 03 Manufacturer | Parts
- 04 | 05 Machine | Introduction
- 06 | 07 Advantages | Technical data



Shaping of steel has always been our craft.  
We have managed to improve the craft further.



# TAJMAC

The TAJMAC group currently belongs to leaders in the field of machine tools manufacturing in Europe. MORI-SAY multi-spindle automatic equipment offers an extraordinary concept of machinery for economic manufacturing of parts in large batches. Complete know-how from engineering up to machinery construction and adjustment coming from a single point.

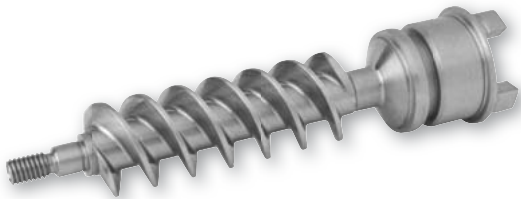
The outcome of this experience and continuous innovation is represented by the TMZ machinery series. Together with MORI-SAY TMZ867CNC, the MORI-SAY TMZ642CNC machine belongs to contemporary multi-spindle CNC machinery. Productivity, stability and flexibility make this six-spindle automatic CNC the best entry model on the market for multi-spindle automatic equipment, as far as the price-performance ratio is concerned.



ETG88 | Ø 30 mm | length 43 mm



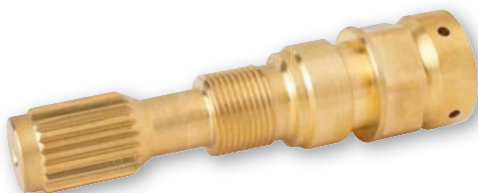
9SMn28 | Ø 25 mm | length 77 mm



44SMn28 | Ø 29 mm | length 20 mm



CuZn39Pb3 | Ø 15 mm | length 35 mm



CuZn3 | Si1 | Ø 25 mm | length 96 mm



42CrMo4 | Ø 18 mm | length 82 mm





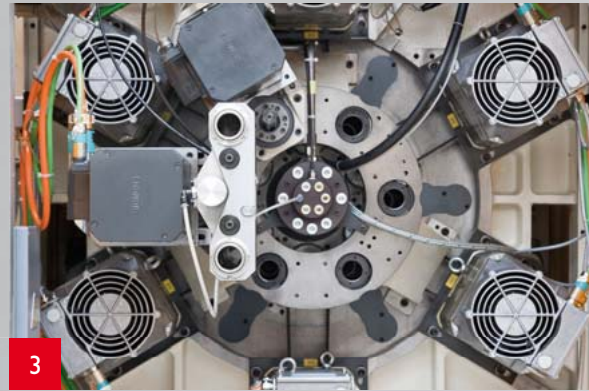
1

WORK SPACE



2

CNC CONTROL



3

SPINDLE DRIVE



1

# MORI-SAY

## TMZ642CNC

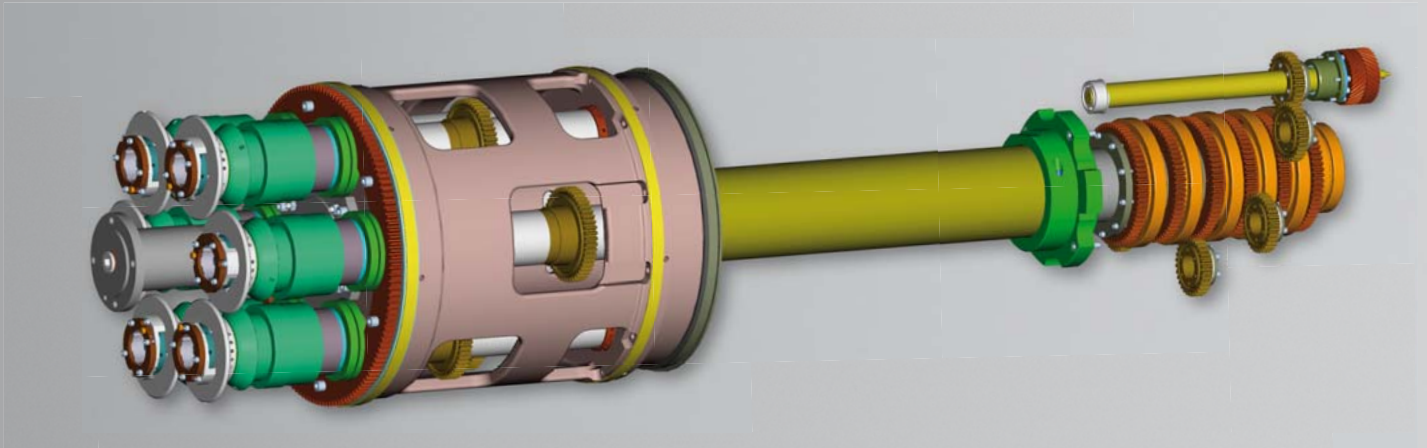
- 1** Machine work space enables sufficient access for adjustment and ensures good removal of chips as well as their transport from the machine work space.
- 2** Two systems Siemens 840D ensure reliable control of 24 main and 20 auxiliary axes.
- 3** Six independent AC drives for main spindles with output of 7 kW per spindle enable reliable machining even on materials hard to machine.



The six-spindle automatic lathe MORI-SAY TMZ642CNC enables automatic machining of rotary bar parts with high productivity, as well as machining of intermediates, (mouldings, castings, ...).

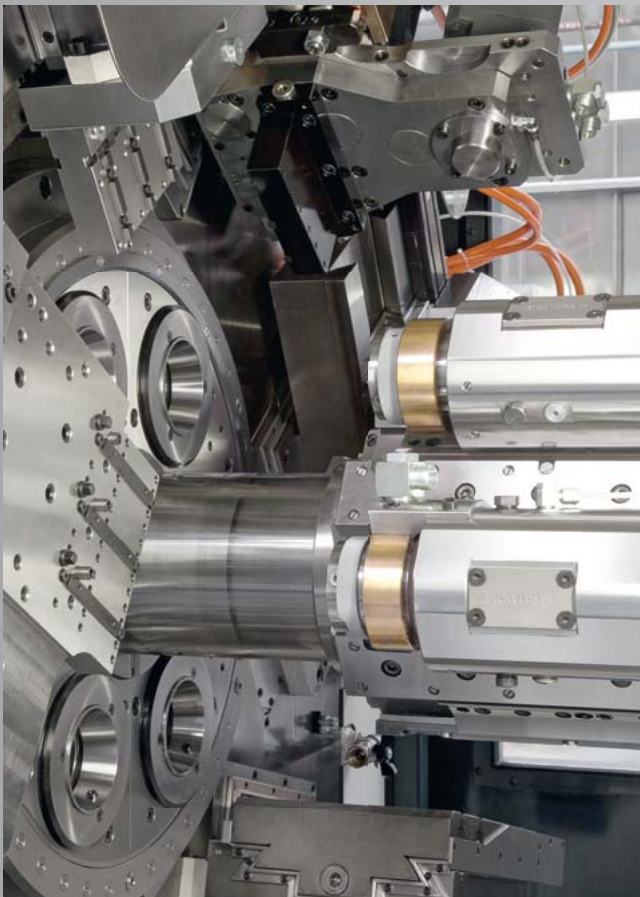
The machine combines advantages of high productivity provided by conventional, cam controlled multiple-spindle automatic equipment with complex CNC hardware.

# ADVANTAGES



## COAXIAL DRIVE

The coaxial drive of MORI-SAY TMZ642CNC offers the following advantages: Drive motors with fixed static attachments. That means these are not linked to the spindle drum. The concept enables high transfer of output from individual motors and minimum heating of the spindle drum. This purely mechanical link between the motor and spindle (contactless / brushless), enables continuous rotation of the spindle drum.



## DOUBLE PICK-UP SPINDLES

Auxiliary axes enable installation of two part takers. The relevant CNC cross saddles then enable complex machining from backworking side. Optional solution comprises application of traverse machining driven tools.



## Y- SUPPORT

The machine MORI-SAY TMZ642CNC can be used with up to three auxiliary cross slides with Y-axis. These slides can be mounted with up to three tool holders. Optional solution comprises application of traverse machining driven tools.



## MILLING OF TEETH

The TMZ machinery series offers technical prerequisites for implementation and installation of special equipment. That allows for manufacture of tothing for worm drive directly on the machine.




**NEW**

		TMZ867CNC	TMZ642CNC	TMZ625CNC
MAXIMUM BAR DIAMETER	with automatic loader	73 mm	48 mm	32 mm
	with bar guide	67 mm	42 mm	–
SPINDLE	quantity	8	6	6
	spindles pitch	480 mm	340 mm	300 mm
	max. spindle speed	2,500 min <sup>-1</sup>	5,000 min <sup>-1</sup>	6,000 min <sup>-1</sup>
	max. output/spindle (100/40 %)	20/30 kW	7/10,5 kW	7 kW
	min. idle period	1 s	1 s	0,8 s
LONGITUDINAL SLIDES	quantity	8	6	6
	max. fast traverse	30 m/min	30 m/min	30 m/min
	traverse force	10,000 N	3,400 N	2,200 N
	stroke	340 mm	250 mm	250 mm
CROSS SLIDES Z/X	quantity	7	5	5
	max. fast traverse	15 m/min	15 m/min	15 m/min
	axial stroke (Z)	120 mm	120 mm	120 mm
	axial traverse force (Z)	3,700 N	3,700 N	3,600 N
	radial stroke (X)	80 mm	80 mm	75 mm
	radial traverse force (X)	3,700 N	3,700 N	3,500 N
PICK-UP CUT OFF SLIDE	max. fast traverse	15 m/min	15 m/min	15 m/min
	traverse force	2,900 N	2,900 N	1,700 N
	stroke	70 mm	66 mm	80 mm
MACHINE DIMENSIONS	length (without material guide)	4,230 mm	3,696 mm	4,785 mm
	width	2,185 mm	1,914 mm	2,300 mm
	height	2,993 mm	2,746 mm	2,900 mm
	weight	17,000 kg	10,750 kg	10,500 kg
	coolant volume	1,400 l	1,250 l	1,000 l
ELECTRIC BOX DIMENSIONS	length × width × height	5,000 × 600 × 2,200 mm	3,400 × 600 × 2,435 mm	–
	weight	1,924 kg	1,000 kg	–

## OPTIONS

Y-AXIS	in positions	2, 3, 4, 5, 6 or 7	2, 3, 4 or 5	2, 3, 4 or 5
	max. fast traverse	15 m/min	15 m/min	15 m/min
	traverse force	2,900 N	2,900 N	2,000 N
	stroke	110 mm	110 mm	110 mm
PICK-UP SPINDLE	max. speed	4,500 min <sup>-1</sup>	6,000 min <sup>-1</sup>	6,000 min <sup>-1</sup>
	max. torque	30 Nm	20 Nm	20 Nm
MACHINING FROM BACKWORKING SLIDE X	max. fast traverse	15 m/min	15 m/min	30 m/min
	traverse force	2,900 N	2,900 N	2,500 N
	stroke	90 mm	75 mm	120 mm
MACHINING FROM BACKWORKING SLIDE X/Y	max. fast traverse	15 m/min	15 m/min	15 m/min
	traverse force	2,900 N	2,900 N	3,500 N
	stroke (X)	75 mm	75 mm	80 mm
	stroke (Y)	106 mm	106 mm	106 mm

# WE ARE LOOKING FORWARD TO DIRECT CONTACT WITH YOU

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