

MORI-SAY

TMZ642CNC

SIX-SPINDLE AUTOMATIC LATHE



TAJMAC - ZPS

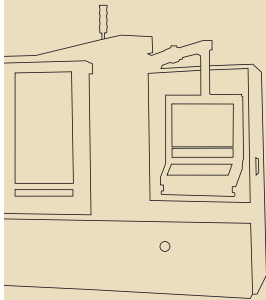


OVERVIEW

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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.

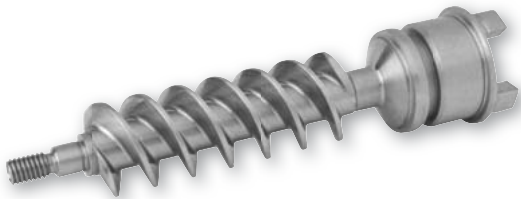
The outcome of this experience and continuous innovation is represented by the TMZ machinery series. Together with MORI-SAY TMZ867CNC, the MORI-SAY TMZ642CNC machine belongs to contemporary multi-spindle CNC machinery. Productivity, stability and flexibility make this six-spindle automatic CNC the best 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



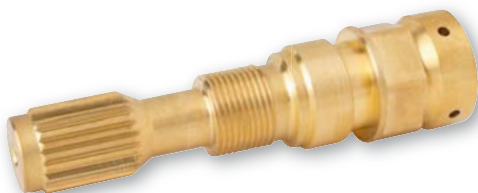
9SMn28 | Ø 25 mm | length 77 mm



44SMn28 | Ø 29 mm | length 20 mm



CuZn39Pb3 | Ø 15 mm | length 35 mm



CuZn3 | Si1 | Ø 25 mm | length 96 mm



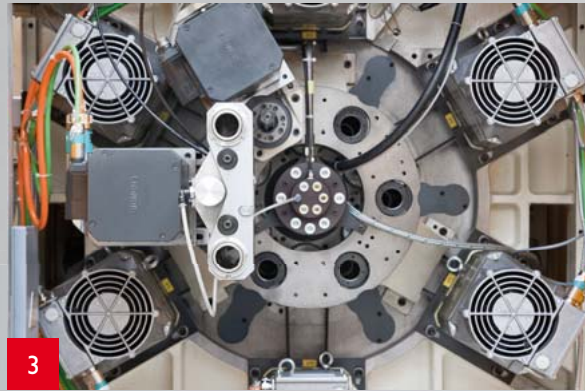
42CrMo4 | Ø 18 mm | length 82 mm



1
WORK SPACE



2
CNC CONTROL



3
SPINDLE DRIVE



MORI-SAY

TMZ642CNC

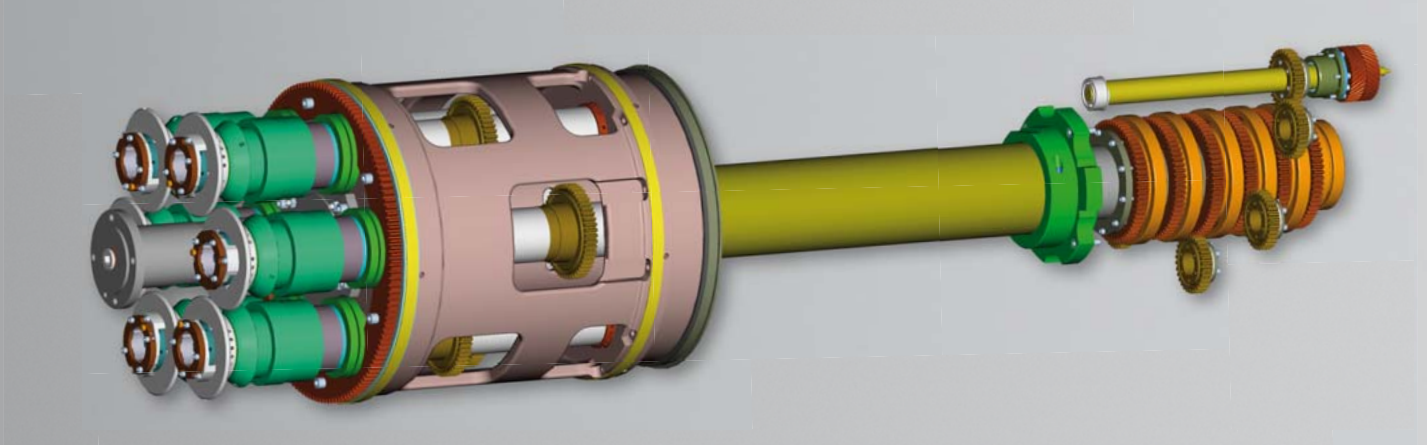
- 1** Machine work space enables sufficient access for adjustment and ensures good removal of chips as well as their transport from the machine work space.
- 2** Two systems Siemens 840D ensure reliable control of 24 main and 20 auxiliary axes.
- 3** Six independent AC drives for main spindles with output 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 GENERATION		
		TMZ642CNC	TMZ842CNC	TMZ867CNC
MAXIMUM BAR DIAMETER	with automatic loader	48 mm	48 mm	73 mm
	with bar guide	42 mm	42 mm	67 mm
SPINDLE	quantity	6	8	8
	spindles pitch	340 mm	480 mm	480 mm
	max. spindle speed	5,000 rpm	4,500 rpm	2,500 rpm
	output (100%/40%)	7.5/10.5 kW	7.5/10.5 kW	17.5/21 kW
	min. idle period	1 sec	1 sec	1 sec
LONGITUDINAL SLIDES	quantity	6	8	8
	max. fast traverse	30 m/min	30 m/min	30 m/min
	traverse force	3,400 N	3,400 N	5,600 N
	stroke	360 mm	425 mm	425 mm
CROSS SLIDES Z/X	quantity	5	7	7
	max. fast traverse	15 m/min	15 m/min	15 m/min
	axial stroke Z	–	200 mm	200 mm
	axial stroke Z1-Z2	160 mm	–	–
	axial stroke Z3-Z5	120 mm	–	–
	force – axial feed Z1-Z2	3,700 N	5,600 N	5,600 N
	force – others axial feed Z	2,900 N	2,900 N	2,900 N
	radial stroke X	80 mm	80 mm	80 mm
	force – radial feed X1-X2	3,700 N	3,700 N	3,700 N
	force – others radial feed X	2,900 N	2,900 N	2,900 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	2,900 N
	stroke	66 mm	70 mm	70 mm
MACHINE DIMENSIONS	length (without material guide)	4,296 mm	4,538 mm	4,538 mm
	width	2,024 mm	2,352 mm	2,352 mm
	height	2,771 mm	3,240 mm	3,240 mm
	weight	13,500 kg	16,000 kg	16,500 kg
	coolant volume	1,250 l	1,400 l	1,400 l
ELECTRIC BOX DIMENSIONS	length × width × height	3,400 × 600 × 2,260 mm	4,000 × 600 × 2,260 mm	4,000 × 600 × 2,260 mm
	weight	1,000 kg	2,000 kg	2,200 kg

OPTIONS				
XY AXIS	in positions	2, 3, 4, 5	2, 3, 4, 5, 6, 7	2, 3, 4, 5, 6, 7
	max. fast traverse XY	12.5 m/min	12.5 m/min	12.5 m/min
	traverse force XY	1,800 N	1,800 N	1,800 N
	stroke X	110 mm	110 mm	110 mm
	stroke Y	80 mm	80 mm	80 mm
PICK-UP SPINDLE	max. speed	6,000 rpm	4,500 rpm	4,500 rpm
	max. torque	20 Nm	20 Nm	27 Nm
MACHINING FROM BACKWORKING SLIDE X	max. fast traverse	15 m/min	15 m/min	15 m/min
	traverse force	2,900 N	3,200 N	3,200 N
	stroke	80 mm	90 mm	90 mm
MACHINING FROM BACKWORKING SLIDE XY	max. fast traverse XY	12.5 m/min	12.5 m/min	12.5 m/min
	traverse force XY	1,800 N	1,800 N	1,800 N
	stroke X	80 mm	90 mm	90 mm
	stroke Y	106 mm	106 mm	106 mm

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