### MULTISPINDLE AUTOMATIC LATHES MORI-SAY

### **PRODUCTION PROGRAM**







\$N.

#### MULTISPINDLE AUTOMATIC LATHES MORI-SAY MORI-SAY 620AC



- High accuracy at mass and series production
- 📀 High rigidity at machining
- 🤣 High thermal and dynamic stability
- Controlled feed and spindle motors
- Possibility of use of CNC options
- Solution to the variant for machining semi-products

Traditional cam automatic lathe with high accuracy, rigidity and quickness. It is intended for the mass and series production of precise components from the bar stock. The characteristics of the concept include high precision and flexibility with machining on six spindles with six independent longitudinal saddles, six cross saddles and four cross saddles. The machine enables the usage of various types of automatic bar stock feeders.

TECHNICAL DATA	620AC	620SAC
Number of spindles	6	6
Pitch diameter of spindles		
Speed range of spindles 500		
Speed range of spindles	NO	YES
Bar stock dimension		
Round cross section		Ø 20 mm
Hexagonal cross section	17 mm	17 mm
Square cross section		14 mm
Max. length of bar feeding	100 mm	100 mm
Working cycle		
Working time		
Idle time	0.7 s	0.7 s
Frontal slides – number	6	6
Range of working strokes of the stations I, II, IV and V $\hdots$		0 - 68 mm
Range of working strokes of the stations III and VI	0 - 90 mm	0 - 90 mm
Cross slides – number	6	6
Range of working strokes		
Adjustability	13 mm	13 mm
Compound slides - number	4	4
Range of working cross strokes	0 - 36 mm	0 – 36 mm
Range of working longitudinal strokes of the stations I, II		0 – 51 mm
Range of working longitudinal strokes of the stations IV, V	0 - 55 mm	0 – 55 mm
Motors		
Spindle motor (Siemens)	,	7 1011
Feed motor (Siemens)	6.5 Nm	6.5 Nm
Machine dimensions		
Machine total length with bar stock guide		6,142 mm
Machine total length without bar stock guide		3,000 mm
Machine height		2,197 mm
Machine width	,	1,370 mm
Machine weight including standard equipment		5,000 kg
Machine operational input	20.3 kVA	20.3 kVA

Number of spindles66Pitch diameter of spindles276 mm276 mmSpeed range of spindles (AC)250 - 4,250 rpm250 - 3,350 rpmSpeed range of spindlesSAC - YESSAC - YESBar stock dimensionØ 32 mmØ 42 mmRound cross section27 mm36 mmSquare cross section22 mm29 mmMax. length of bar feeding125 mm125 mmWorking cycle1.4 - 90 s1.4 - 90 sWorking time1.4 - 90 s1.4 - 90 sIdle time1.0 s1.0 sFrontal slides - number66Range of total strokes45 - 120 mmRange of working strokes0 - 515 mmCompound slides - number66Range of working strokes0 - 555 mmAdjustability25 mm25 mmCompound slides - number (stations I, II, IV, V)44Range of working longitudinal strokes0 - 64 mmRange of working longitudinal strokes0 - 55 mmSpindle motor (Siemens)22 kW22 kWFeed motor (Siemens)38 NmMachine total length with bar stock guide6,884 mmMachine total length with bar stock guide6,884 mmMachine height2,570 mmMachine weight including standard equipment11,850 kgMachine weight including standard equipment11,850 kgMachine operational input40 kVA	TECHNICAL DATA	632AC/SA	642AC/SAC
Speed range of spindles (AC)250 - 4,250 rpm250 - 4,250 rpmSpeed range of spindles (SAC)250 - 3,350 rpm250 - 3,350 rpmSpeed range of spindlesSAC - YESSAC - YESBar stock dimensionØ 32 mmØ 42 mmRound cross section27 mm36 mmSquare cross section27 mm36 mmSquare cross section27 mm36 mmSquare cross section27 mm125 mmWorking cycleWorking time1.4 - 90 sWorking time1.0 s1.0 sIdle time1.0 s1.0 sFrontal slides - number66Range of total strokes45 - 120 mmRange of working strokes0 - 510 mmCross slides - number66Range of working strokes0 - 55 mmAdjustability25 mmCompound slides - number (stations I, II, IV, V)444Range of working trokes0 - 55 mm0 - 55 mm0 - 55 mm38 Nm38 NmSpindle motor (Siemens)22 kWFeed motor (Siemens)22 kW22 kW22 kWFeed motor (Siemens)38 Nm38 Nm38 NmMachine total length with bar stock guide6,884 mmMachine height2,570 mmMachine height2,570 mmMachine width1,770 mmMachine width1,770 mmMachine height2,570 mmMachine width1,770 mmMachine width1,770 mmMachine	Number of spindles	6	6
Speed range of spindles (SAC)250 - 3,350 rpm250 - 3,350 rpmSpeed range of spindlesSAC - YESSAC - YESBar stock dimensionØ 32 mmØ 42 mmHexagonal cross section27 mm36 mmSquare cross section22 mm29 mmMax. length of bar feeding125 mm125 mmWorking cycleVorking time1.4 - 90 s1.4 - 90 sWorking time1.4 - 90 s1.4 - 90 s1.0 sIdle time0 - 110 mm0 - 110 mm0 - 110 mmCross slides - number666Range of working strokes0 - 55 mm0 - 55 mmAdjustability25 mm25 mm25 mmCompound slides - number66Range of working strokes0 - 55 mm0 - 55 mmAdjustability25 mm22 kW22 kWSpindle motor (Siemens)22 kW22 kWFeed motor (Siemens)22 kW27 kmMachine height2,770 mm2,770 mmMachine width1,770 mm1,770 mmMachine width1,770 mm1,770 mmMachine weight including standard equipment11,850 kg	Pitch diameter of spindles	276 mm	276 mm
Speed range of spindlesSAC - YESSAC - YESBar stock dimensionØ 32 mmØ 42 mmRound cross sectionØ 77 mm36 mmSquare cross section22 mm29 mmMax. length of bar feeding125 mm125 mmWorking cycle1.4 - 90 sWorking time1.4 - 90 s1.4 - 90 sIdle time1.0 s1.0 sFrontal slides - number66Range of total strokes45 - 120 mmRange of working strokes0 - 110 mmCross slides - number66Range of working strokes0 - 55 mmAdjustability25 mmCompound slides - number (stations I, II, IV, V)4Anage of working cross strokes0 - 64 mmRange of working cross strokes0 - 55 mmOr 55 mm0 - 55 mmMotors38 NmSpindle motor (Siemens)22 kWSpindle motor (Siemens)22 kWFeed motor (Siemens)38 NmMachine total length with bar stock guide6,884 mmMachine total length without bar stock guide6,884 mmMachine height2,570 mmMachine width1,770 mmMachine width1,770 mmMachine weight including standard equipment11,850 kg11,850 kg11,850 kg			250 - 4,250 rpm
Speed range of spindlesSAC - YESSAC - YESBar stock dimensionØ 32 mmØ 42 mmRound cross sectionØ 77 mm36 mmSquare cross section22 mm29 mmMax. length of bar feeding125 mm125 mmWorking cycle1.4 - 90 sWorking time1.4 - 90 s1.4 - 90 sIdle time1.0 s1.0 sFrontal slides - number66Range of total strokes45 - 120 mmRange of working strokes0 - 110 mmCross slides - number66Range of working strokes0 - 55 mmAdjustability25 mmCompound slides - number (stations I, II, IV, V)4Anage of working cross strokes0 - 64 mmRange of working cross strokes0 - 55 mmOr 55 mm0 - 55 mmMotors38 NmSpindle motor (Siemens)22 kWSpindle motor (Siemens)22 kWFeed motor (Siemens)38 NmMachine total length with bar stock guide6,884 mmMachine total length without bar stock guide6,884 mmMachine height2,570 mmMachine width1,770 mmMachine width1,770 mmMachine weight including standard equipment11,850 kg11,850 kg11,850 kg	Speed range of spindles (SAC)	250 – 3,350 rpm	250 – 3,350 rpm
Round cross sectionØ 32 mmØ 42 mmHexagonal cross section27 mm36 mmSquare cross section22 mm29 mmMax. length of bar feeding125 mm125 mmWorking time1.4 - 90 s1.4 - 90 sIdle time1.0 s1.0 sFrontal slides - number66Range of total strokes45 - 120 mmRange of working strokes0 - 110 mmCross slides - number66Range of working strokes0 - 55 mmO - 110 mm25 mmCross slides - number66Range of working strokes0 - 55 mm0 - 55 mm0 - 55 mmAdjustability25 mmCompound slides - number (stations I, II, IV, V)444Range of working longitudinal strokes0 - 64 mm0 - 55 mm0 - 55 mm0 - 55 mm0 - 55 mmMotors38 NmSpindle motor (Siemens)22 kWFeed motor (Siemens)22 kW22 kW22 kWFeed motor (Siemens)38 NmMachine total length with bar stock guide6,884 mmMachine total length without bar stock guide4,501 mmMachine height1,770 mmMachine weight including standard equipment11,850 kg11,850 kg11,850 kg	Speed range of spindles	SAC - YES	SAC - YES
Hexagonal cross section27 mm36 mmSquare cross section22 mm29 mmMax. length of bar feeding125 mm125 mmWorking cycle1.4 - 90 s1.4 - 90 sWorking time1.0 s1.0 sIdle time1.0 s1.0 sFrontal slides - number66Range of total strokes45 - 120 mm45 - 120 mmRange of working strokes0 - 110 mm0 - 110 mmCross slides - number66Range of working strokes0 - 55 mm0 - 55 mmAdjustability25 mm25 mm25 mmCompound slides - number (stations I, II, IV, V)44Range of working longitudinal strokes0 - 64 mm0 - 64 mmRange of working cross strokes0 - 55 mm0 - 55 mmMotors38 Nm38 Nm38 NmMachine total length with bar stock guide6,884 mm6,884 mmMachine total length without bar stock guide4,501 mm4,501 mmMachine height1,770 mm1,770 mm1,770 mmMachine width1,770 mm1,770 mm1,770 mm	Bar stock dimension		
Square cross section22 mm29 mmMax. length of bar feeding125 mm125 mmWorking cycle1.4 - 90 s1.4 - 90 sWorking time1.0 s1.0 sIdle time1.0 s1.0 sFrontal slides - number66Range of total strokes45 - 120 mmRange of working strokes0 - 110 mmCross slides - number66Range of working strokes0 - 55 mmAdjustability25 mmCross slides - number (stations I, II, IV, V)4Agne of working longitudinal strokes0 - 64 mmRange of working cross strokes0 - 55 mm0 - 55 mm0 - 55 mmAdjustability22 kW22 kW22 kWPeed motor (Siemens)22 kWSpindle motor (Siemens)22 kWSpindle motor (Siemens)38 NmMachine total length with bar stock guide6,884 mmMachine total length with bar stock guide4,501 mmMachine total length without bar stock guide4,501 mmMachine weight including standard equipment11,850 kg11,850 kg11,850 kg			Ø 42 mm
Max. length of bar feeding125 mm125 mmWorking cycle1.4 - 90 s1.4 - 90 sWorking time1.4 - 90 s1.4 - 90 sIdle time1.0 s1.0 sFrontal slides - number66Range of total strokes45 - 120 mm45 - 120 mmRange of working strokes0 - 110 mm0 - 110 mmCross slides - number66Range of working strokes0 - 55 mm0 - 55 mmAdjustability25 mm25 mm25 mmCompound slides - number (stations I, II, IV, V)44Range of working longitudinal strokes0 - 64 mm0 - 64 mmRange of working cross strokes0 - 55 mm0 - 55 mmMotorsSpindle motor (Siemens)22 kW22 kWFeed motor (Siemens)22 kW22 kWFeed motor (Siemens)38 Nm38 NmMachine total length with bar stock guide6,884 mm6,884 mmMachine total length without bar stock guide4,501 mm4,501 mmMachine width1,770 mm1,770 mm1,770 mmMachine weight including standard equipment11,850 kg11,850 kg	Hexagonal cross section	27 mm	36 mm
Working cycleWorking time1.4 - 90 sIdle time1.0 sFrontal slides - number6Range of total strokes45 - 120 mmRange of working strokes0 - 110 mmCross slides - number6Ange of working strokes0 - 110 mmCross slides - number6Ange of working strokes0 - 55 mmAdjustability25 mmCompound slides - number (stations I, II, IV, V)4Ange of working longitudinal strokes0 - 64 mmCompound slides - number (stations I, II, IV, V)4Ange of working cross strokes0 - 55 mmCompound slides - number (stations I, II, IV, V)4Adiustability22 kW22 kW22 kWPander of working cross strokes0 - 55 mmMotors38 NmSpindle motor (Siemens)22 kWFeed motor (Siemens)22 kWSpindle motor (Siemens)38 NmMachine total length with bar stock guide6,884 mmMachine total length without bar stock guide4,501 mmMachine height2,570 mmMachine width1,770 mmMachine weight including standard equipment11,850 kgMachine weight including standard equipment11,850 kg			29 mm
Working time1.4 - 90 s1.4 - 90 sIdle time1.0 s1.0 s1.0 sFrontal slides - number66Range of total strokes45 - 120 mm45 - 120 mmRange of working strokes0 - 110 mm0 - 110 mmCross slides - number66Range of working strokes0 - 55 mm0 - 55 mmAdjustability25 mm25 mm25 mmCompound slides - number (stations I, II, IV, V)44Range of working longitudinal strokes0 - 64 mm0 - 64 mmRange of working cross strokes0 - 55 mm0 - 55 mmSpindle motor (Siemens)22 kW22 kWFeed motor (Siemens)38 Nm38 NmMachine total length with bar stock guide6,884 mm6,884 mmMachine total length without bar stock guide4,501 mm4,501 mmMachine height2,570 mm2,570 mm2,570 mmMachine width1,770 mm1,770 mm1,770 mmMachine weight including standard equipment11,850 kg11,850 kg	Max. length of bar feeding	125 mm	125 mm
Idle time1.0 s1.0 sFrontal slides - number66Range of total strokes45 - 120 mm45 - 120 mmRange of working strokes0 - 110 mm0 - 110 mmCross slides - number66Range of working strokes0 - 55 mm0 - 55 mmAdjustability25 mm25 mm25 mmCompound slides - number (stations I, II, IV, V)44Range of working longitudinal strokes0 - 64 mm0 - 64 mmRange of working cross strokes0 - 55 mm0 - 55 mmSpindle motor (Siemens)22 kW22 kWFeed motor (Siemens)38 Nm38 NmMachine total length with bar stock guide6,884 mm6,884 mmMachine total length without bar stock guide4,501 mm4,501 mmMachine height2,570 mm2,570 mm2,570 mmMachine width1,770 mm1,770 mm1,770 mmMachine weight including standard equipment11,850 kg11,850 kg	Working cycle		
Frontal slides - number66Range of total strokes45 - 120 mm45 - 120 mmRange of working strokes0 - 110 mm0 - 110 mmCross slides - number66Range of working strokes0 - 55 mm0 - 55 mmAdjustability25 mm25 mm25 mmCompound slides - number (stations I, II, IV, V)44Range of working longitudinal strokes0 - 64 mm0 - 64 mmRange of working cross strokes0 - 55 mm0 - 55 mmSpindle motor (Siemens)22 kW22 kWFeed motor (Siemens)22 kW22 kWFeed motor (Siemens)38 Nm38 NmMachine dimensions4,501 mm4,501 mmMachine total length with bar stock guide6,884 mm6,884 mmMachine height2,570 mm2,570 mmMachine width1,770 mm1,770 mmMachine weight including standard equipment11,850 kg			
Range of total strokes45 - 120 mm45 - 120 mmRange of working strokes0 - 110 mm0 - 110 mmCross slides - number66Range of working strokes0 - 55 mm0 - 55 mmAdjustability25 mm25 mmCompound slides - number (stations I, II, IV, V)44Range of working longitudinal strokes0 - 64 mm0 - 64 mmRange of working cross strokes0 - 55 mm0 - 55 mmWotors955 mm0 - 55 mmSpindle motor (Siemens)22 kW22 kWFeed motor (Siemens)22 kW22 kWMachine dimensions38 Nm38 NmMachine total length with bar stock guide6,884 mm6,884 mmMachine total length without bar stock guide4,501 mm4,501 mmMachine width1,770 mm1,770 mm1,770 mmMachine weight including standard equipment11,850 kg11,850 kg	Idle time	1.0 s	1.0 s
Range of working strokes0 - 110 mm0 - 110 mmCross slides - number66Range of working strokes0 - 55 mm0 - 55 mmAdjustability25 mm25 mmCompound slides - number (stations I, II, IV, V)44Range of working longitudinal strokes0 - 64 mm0 - 64 mmRange of working cross strokes0 - 55 mm0 - 55 mmMotors90 - 55 mm0 - 55 mmSpindle motor (Siemens)22 kW22 kWFeed motor (Siemens)22 kW38 NmMachine dimensions38 Nm38 NmMachine total length with bar stock guide6,884 mm6,884 mmMachine total length without bar stock guide4,501 mm4,501 mmMachine width1,770 mm1,770 mm1,770 mmMachine width1,850 kg11,850 kg			
Cross slides - number66Range of working strokes0 - 55 mm0 - 55 mmAdjustability25 mm25 mmCompound slides - number (stations I, II, IV, V)44Range of working longitudinal strokes0 - 64 mm0 - 64 mmRange of working cross strokes0 - 55 mm0 - 55 mmMotors0 - 55 mm0 - 55 mmSpindle motor (Siemens)22 kW22 kWFeed motor (Siemens)22 kW38 NmMachine dimensions38 Nm38 NmMachine total length with bar stock guide6,884 mm6,884 mmMachine total length without bar stock guide4,501 mm4,501 mmMachine height2,570 mm2,570 mm2,570 mmMachine width1,770 mm1,770 mm1,770 mmMachine weight including standard equipment11,850 kg11,850 kg	Range of total strokes	45 - 120 mm	45 - 120 mm
Range of working strokes0 - 55 mm0 - 55 mmAdjustability25 mm25 mmCompound slides - number (stations I, II, IV, V)44Range of working longitudinal strokes0 - 64 mm0 - 64 mmRange of working cross strokes0 - 55 mm0 - 55 mmMotors0 - 55 mm0 - 55 mmSpindle motor (Siemens)22 kW22 kWFeed motor (Siemens)38 Nm38 NmMachine dimensions4,501 mm4,501 mmMachine total length with bar stock guide6,884 mm4,501 mmMachine total length without bar stock guide4,501 mm4,501 mmMachine width1,770 mm1,770 mmMachine weight including standard equipment11,850 kg11,850 kg	Range of working strokes	0 - 110 mm	0 - 110 mm
Adjustability25 mm25 mmCompound slides - number (stations I, II, IV, V)44Range of working longitudinal strokes0 - 64 mm0 - 64 mmRange of working cross strokes0 - 55 mm0 - 55 mmMotors922 kW22 kWSpindle motor (Siemens)22 kW22 kWFeed motor (Siemens)38 Nm38 NmMachine dimensions4,501 mm4,501 mmMachine total length with bar stock guide6,884 mm6,884 mmMachine total length without bar stock guide4,501 mm4,501 mmMachine width1,770 mm1,770 mmMachine weight including standard equipment11,850 kg11,850 kg		•	•
Compound slides - number (stations I, II, IV, V)       4       4         Range of working longitudinal strokes       0 - 64 mm       0 - 64 mm         Range of working cross strokes       0 - 55 mm       0 - 55 mm         Motors       9       22 kW       22 kW         Spindle motor (Siemens)       22 kW       22 kW       22 kW         Feed motor (Siemens)       38 Nm       38 Nm       38 Nm         Machine dimensions       4,501 mm       4,501 mm       4,501 mm         Machine total length with bar stock guide       4,501 mm       4,501 mm       4,501 mm         Machine width       1,770 mm       1,770 mm       1,770 mm         Machine weight including standard equipment       11,850 kg       11,850 kg       11,850 kg			0 – 55 mm
Range of working longitudinal strokes       0 - 64 mm       0 - 64 mm         Range of working cross strokes       0 - 55 mm       0 - 55 mm         Motors       Spindle motor (Siemens)       22 kW       22 kW         Feed motor (Siemens)       38 Nm       38 Nm         Machine dimensions       4,501 mm       4,501 mm         Machine total length with bar stock guide       4,501 mm       4,501 mm         Machine height       2,570 mm       2,570 mm         Machine width       1,770 mm       1,770 mm         Machine weight including standard equipment       11,850 kg       11,850 kg	Adjustability	25 mm	25 mm
Range of working cross strokes       0 - 55 mm       0 - 55 mm         Motors       Spindle motor (Siemens)       22 kW       22 kW         Feed motor (Siemens)       38 Nm       38 Nm         Machine dimensions       38 Nm       4,804 mm         Machine total length with bar stock guide       6,884 mm       6,884 mm         Machine total length without bar stock guide       4,501 mm       4,501 mm         Machine height       2,570 mm       2,570 mm         Machine width       1,770 mm       1,770 mm         Machine weight including standard equipment       11,850 kg       11,850 kg			4
Motors         Spindle motor (Siemens)       22 kW         Feed motor (Siemens)       38 Nm         Machine dimensions         Machine total length with bar stock guide       6,884 mm         Machine total length without bar stock guide       4,501 mm         Machine height       2,570 mm         Machine width       1,770 mm         Machine weight including standard equipment       11,850 kg			0 - 64 mm
Spindle motor (Siemens)       22 kW       22 kW         Feed motor (Siemens)       38 Nm       38 Nm         Machine dimensions       38 Nm       6,884 mm         Machine total length with bar stock guide       6,884 mm       6,884 mm         Machine total length without bar stock guide       4,501 mm       4,501 mm         Machine height       2,570 mm       2,570 mm         Machine width       1,770 mm       1,770 mm         Machine weight including standard equipment       11,850 kg       11,850 kg	Range of working cross strokes	0 – 55 mm	0 – 55 mm
Feed motor (Siemens)38 Nm38 NmMachine dimensions			
Machine dimensions         Machine total length with bar stock guide       6,884 mm       6,884 mm         Machine total length without bar stock guide       4,501 mm       4,501 mm         Machine height       2,570 mm       2,570 mm         Machine width       1,770 mm       1,770 mm         Machine weight including standard equipment       11,850 kg       11,850 kg			22 kW
Machine total length with bar stock guide6,884 mm6,884 mmMachine total length without bar stock guide4,501 mm4,501 mmMachine height2,570 mm2,570 mmMachine width1,770 mm1,770 mmMachine weight including standard equipment11,850 kg11,850 kg	Feed motor (Siemens)	38 Nm	38 Nm
Machine total length without bar stock guide4,501 mm4,501 mmMachine height2,570 mm2,570 mmMachine width1,770 mm1,770 mmMachine weight including standard equipment11,850 kg11,850 kg	Machine dimensions		
Machine height2,570 mm2,570 mmMachine width1,770 mm1,770 mmMachine weight including standard equipment11,850 kg11,850 kg			6,884 mm
Machine width1,770 mm1,770 mmMachine weight including standard equipment11,850 kg11,850 kg			4,501 mm
Machine weight including standard equipment 11,850 kg 11,850 kg			,
		,	,
Machine operational input40 kVA40 kVA			
	Machine operational input	40 kVA	40 kVA

#### MULTISPINDLE AUTOMATIC LATHES MORI-SAY MORI-SAY 632AC / 642AC



- Version for machining of the bars with max. dia. 32 mm and 42 mm
- 🤣 High rigidity at machining
- 🕑 High thermal and dynamic stability
- Controlled feed and spindle motors
- Possibility of use of CNC options
- Possibility of machine modification to the variant for machining semi-products

This machine is comparable with other cam machines of the same size for the bar stock machining offered on the market. The important improvements of the constructional character with the emphasis on extension of the machine technological possibilities have been done without an interference with the conception of the MORI-SAY machines.

#### MULTISPINDLE AUTOMATIC LATHES MORI-SAY MORI-SAY 657AC / 667AC



- Service of the servic
- High rigidity at machining
- 🤣 High thermal and dynamic stability
- Controlled feed and spindle motors
- Possibility of use of CNC options
- Solution of the second second

The multi-spindle automatic lathe MORI-SAY 657AC, 667AC is conceptually congruent with the series of the TAJMAC-ZPS multi-spindle automatic lathes. It is intended for the mass and series production of the precise components from the bar stock. Machine is fully mechanical and equipped with speed motors for feeds and spindles controlled by the control system. The machine is able to produce two different components, so it can operate as two three-spindle machines.

TECHNICAL DATA	657AC/SA	C 667AC
Number of spindles	6	6
Pitch diameter of spindles	340 mm	340 mm
Speed range of spindles (AC)		200 – 2,750 rpm
Speed range of spindles (SAC)	200 – 2,750 rpm	
Speed range of spindles	SAC - YES	NO
Bar stock dimension		
Round cross section	Ø 57 mm	Ø 67 mm
Hexagonal cross section		58 mm
Square cross section		47 mm
Max. length of bar feeding	145 mm	145 mm
Working cycle		
Working time	1.4 – 90 s	1.4 – 90 s
Idle time	1.1 s	1.36 s
Frontal slides – number	6	6
Range of total strokes	45 - 150 mm	45 - 150 mm
Range of working strokes		
Cross slides - number	6	6
Range of working strokes (stations I, II)	0 - 66 mm	0 - 66 mm
Range of working strokes (stations III, IV, V, VI)	0 - 57 mm	0 – 57 mm
Adjustability	25 mm	25 mm
Compound slides - number (stations I, II, IV,		
Range of working longitudinal strokes (stations I,		
Range of working longitudinal strokes (stations IV	, V) 0 – 100 mm	0 - 100 mm
Cross strokes of the compound saddles are ide with the strokes of cross saddles	ntical	
Motors		
Spindle motor (Siemens)		30 kW
Feed motor (Siemens)	38 Nm	38 Nm
Machine dimensions		
Machine total length with bar stock guide		7,420 mm
Machine total length without bar stock guide	5,380 mm	5,380 mm
Machine height	2,437 mm	2,437 mm

2.200 mm

15.650 ka

51 kVA

2.200 mm

15.700 ka

51 kVA

Machine width

Machine operational input

Machine weight including standard equipment

TECHNICKÉ PARAMETRY	832AC/SAC	842AC/SAC
Number of spindles	8	8
Pitch diameter of spindles		360 mm
Speed range of spindles (AC)	270 – 3,750 rpm	270 – 2,750 rpm
Speed range of spindles (SAC)	270 – 3,200 rpm	
Speed range of spindles		SAC - YES
Bar stock dimension		
Round cross section	Ø 32 mm	Ø 42 mm
Hexagonal cross section	27 mm	36 mm
Square cross section	22 mm	39 mm
Max. length of bar feeding	125 mm	125 mm
Working cycle		
Working time	1.4 – 90 s	1.4 – 90 s

10 s

Frontal slides – number	8		8
Range of total strokes	45 - 120 mm	4	5 - 150 mm
Range of working strokes	0 - 110 mm		0 - 110 mm
Cross slides – number	8		8
Range of working strokes in the stations I, II, V, VI	0 – 50 mm		0 – 50 mm
Range of working strokes in the stations III, IV, VII, V	III 0-41 mm		0 – 41mm
Adjustability	25 mm		25 mm
Compound slides - number (stations I, II, V, VI)	4		4
Range of working longitudinal strokes	0 - 64 mm		0 - 64 mm
Cross strokes of the compound saddles are identic	al		
with the strokes of cross saddles			

#### Motors

Idle time

Spindle motor (Siemens)	29 kW	29 kW
Feed motor (Siemens)	38 Nm	38 Nm

#### **Machine dimensions**

Machine total length with bar stock guide	6,208 mm	6,208 mm
	3,463 mm	3,463 mm
Machine height	2,616 mm	2,616 mm
Machine width	1,932 mm	1,932 mm
Machine weight including standard equipment	11,320 kg	11,320 kg
Machine operational input	60 kVA	60 kVA

#### MULTISPINDLE AUTOMATIC LATHES MORI-SAY MORI-SAY 832AC / 842AC



- Service of the servic
- High rigidity at machining

1.36 s

- Controlled feed and spindle motors
- Possibility of use of CNC options
- Solution of the second second

#### MORI-SAY 832AC, 842AC is the most successful representative of the contemporary generation of the cam multi-spindle automatic lathes manufactured in TAJMAC-ZPS.

It is intended for the mass and series production of precise components from the bar stock. The conception characteristics of the high accuracy and rigidity at machining.

#### MULTISPINDLE AUTOMATIC LATHES MORI-SAY MORI-SAY TMZ518CNC PENTA



- Version for machining of the bars with max. dia. 19 mm
- High rigidity at machining
- 🤣 High thermal and dynamic stability
- Independent speeds of spindles
- Solution to the variant for machining semi-products

MORI-SAY TMZ518CNC PENTA is the new five-spindle automatic lathe complete concept, composed of multi-spindle CNC lathe, bar loader, oil treatment system, chiller and chip conveyor.

The innovative design allows installation of machine and of all its systems in a shorter time, thanks to the electrical cabinet integrated into the base of the machine. The wide working area allows easy and operator-friendly setup, together with the VDI quick-change tooling system. Machined parts and bar remains are collected in two different containers at the back side of the machine.

#### **TECHNICAL DATA**

#### **TMZ518CNC PENTA**

Number of spindles	5
Pitch diameter of spindles	-
Maximum spindle speed	
Rated spindle motor power (TMZ)	
Max. bar stock dimension	
Round cross section with collets 9007E (SCHÜTTE)	Ø 18 mm
Round cross section with collets DAVENPORT	
Hexagonal cross section	
Max. length of bar feeding	
Idle time (drum indexing time)	0.4 s
Frontal slides axes W1 - W4	
Number	
Max. working stroke	250 mm
Compound slides	
Number (stations I, II, III, IV, V)	
Working stroke, X1 – Z1 axes	70 mm - 130 mm
	70 mm - 125 mm - 130 mm
Working stroke, X3 – Z3 axes	60 mm - 90 mm
	70 mm - 125 mm - 165 mm
<b>J</b>	70 mm - 95 mm
Pick-Up S05	( 000
Max. speed	
Max. motor power	
Pick-Up W5 Working stroke in W5 axis	200 mm
Pick-Up U5 tool slide rest	390 11111
Toll holder type, station V	Ø 12 mm / Ø 16 mm
Number	
Working stroke, U5 axis	
Frontal driven attachments (axes S01 to S04)	103 1111
Number	
Max. speed	
Machine dimensions	-1
Total machine length with bar loader (4m)	8,351 mm
Machine height	2,329 mm
Machine width	
Machine weight	9,500 kg
Stock guideways and chips disposal system	4,700 kg

#### **TECHNICAL DATA**

#### TM620CNC / SCNC

0.7 s

Number of spindles	6
Pitch diameter of spindles	100 11111
Max. spindles speed (identical on all spindles)	0,000 ( ) ( ) ( ) ( ) ( )
Max. spindles speed (identical on all spindles)	4,500 rpm (S CNC)
Rated motor power	11 kW
Speed range of spindles	With CNC - YES
Max. bar stock dimension	
Round cross section	Ø 20 mm
Hexagonal cross section	17 mm
Max. length of bar feeding	100 mm

#### Idle time

#### Frontal slides (axes W1 to W6)

Number		
Max. stroke (W1	to W5)	110 mm
Max. stroke W6		310 mm

#### Compound slides axes X1 - X6, Z1 - Z6

Number (stations I, II, III, IV, V, VI)	
Radial stroke (axes X1 to X5)	60 mm
Radial stroke (axis X6)	50 mm
Axial stroke (axes Z1 to Z5)	70 mm

#### Pick-Up SO6

Max. speed 6,00	)0 rpm
Max. power output	2,2 kW
Pick-Up W6	
Working stroke in W6 axis 31	10 mm
Pick-Up tool slide rest, U6, V6	
Max. number	2
Working stroke of U6, U61 axes 8	30 mm

#### **Machine dimensions**

Machine total length with bar stock guide	8,049 mm
Machine total length without bar stock guide	3,834 mm
Machine height	2,794 mm
Machine width	1,434 mm
Machine weight	8,000 kg

#### MULTISPINDLE AUTOMATIC LATHES MORI-SAY MORI-SAY TM620CNC



- Number of spindles: 6
- Maximum diameter of bar: 20 mm
- Max. length of bar feeding: 100 mm
- 😎 Spindle speed: max. 6,000 rpm
- Section 2012 Possibility of machine modification to the variant for machining semi-products

## Six-spindle fully CNC-controlled automatic lathe of high accuracy, rigidity and speed. It is designed for mass and serial production of precision components from bar material up to a maximum of ø 20 mm (ø 24 mm).

High productivity is enabled by a total of 21 CNC-controlled axes and another 13 available for special accessories and 6 spindles with a maximum speed of 6,000 rpm. Spindle drum indexing: 0.7 s. The Fanuc i30-B plus control system and two operator panels ensure comfortable and friendly machine operation. Accessories identical with those of MORI-SAY 620AC.

## MULTISPINDLE AUTOMATIC LATHES MORI-SAY MORI-SAY TMZ642CNC



- High accuracy at mass and series production
- High rigidity comparable to cam-operated machines
- 6 independent AC drives for spindles
- CNC control system Siemens SINUMERIC 840D sl
- 📀 Own technological Tmis software
- Solution to the variant for machining semi-products

The innovative technical solution developed by our engineers and protected by provisions of law, allows to independently control the speed of each spindle and to calibrate the power of each AC spindle motor in accordance with the requirements of the specific machining operations performed by each customer.

At the same time, the absolute independence of each spindle makes it possible to perform any type of machining, including machining operations requiring spindle stopping or C-axis spindle orienting, thus making of the TMZ a real and complete turning and milling centre.

#### **TECHNICAL DATA**

#### TMZ642CNC

Number of spindles	6
Pitch diameter of spindles	340 mm
Max. speed	5,000 rpm
Nominal power output	7 kW

#### Max. bar stock capacity

Round cross section	Ø 42 mm
Hexagonal cross section	36 mm
Max. length of bar feeding	180 mm

#### Max. bar capacity (with automatic bar loader)

For HAINBUCH SK52BZI clamping collets	48 mm
For SCHÜTTE clamping collets 42 type 9112E	45 mm
For SCHÜTTE clamping collets 32 type 9070E	37 mm
Idle time	0.7 – 1 s

#### Frontal slides (axes W1 to W6)

Number	
Max. stroke	360 mm
Compound slides (axes X1 to X5 and Z1 to Z5)	
Number (stations I, II, III, IV, V)	5
Axial stroke (axes Z1 to Z2)	160 mm
Axial stroke (axes Z3 to Z5)	120 mm
Radial stroke (axes X1 to X5)	80 mm
Cut-off slide (standard axis X6)	
Stroke	66 mm

## Frontal driven attachments (axes S01 to S06) Number 6 Max. speed 6,000 rpm

#### **Machine dimensions**

Machine total length with bar stock guide and without electric cabinet	7,142 mm
Machine total length without bar stock guide and electric cabinet	4,296 mm
Machine height	2,771 mm
Machine width	2,024 mm
Machine weight	10,750 kg
Electric cabinet weight	1,000 kg
Electric cabinet dimensions 3,400 x 2,260	) x 600 mm

#### **TECHNICAL DATA**

**TM7842CNC** 

8

Number of spindles	8
Pitch diameter of spindles	480 mm
Max. speed	4,500 rpm
Nominal power output	7 kW

#### Max. bar stock capacity

Round cross section	Ø 4	2 r	mm
Hexagonal cross section	- 3	6 r	mm
Max. length of bar feeding	18	0 r	mm

#### Max. bar capacity (with automatic bar loader)

For clamping collets SK52 BZI HAINBUCH	52 mm
For clamping collets SCHÜTTE 42 type 9112E	49 mm
For clamping collets SK56 BZI HAINBUCH	52 mm
Idle time	1 s

#### Frontal slides (axes W1 to W8)

Number	
Max. stroke	425 mm
Compound slides (axes X1 to X7 and Z1 to Z7)	
Number (stations I, II, III, IV, V, VI, VII)	7
Axial stroke (axes Z1 to Z7)	200 mm
Radial stroke (axes X1 to X7)	80 mm

#### Cut-off slide (US axis)

Stroke	66 mm

#### Frontal driven attachments (axes SO1 to SO8) Number 6,000 rpm Max. speed

#### Machine dimensions

Machine total length with bar stock guide and without electric cabinet	6,983 mm
Machine total length without bar stock guide and electric cabinet	4,438 mm
Machine height	3,238 mm
Machine width	2,352 mm
Machine weight	16,600 kg
Electric cabinet weight	2,400 kg
Electric cabinet dimensions 5,000 x 2,265	x 600 mm

#### MULTISPINDLE AUTOMATIC LATHES MORI-SAY **MORI-SAY TMZ842CNC**



- High accuracy at mass and series production
- High rigidity comparable to cam-machines
- 8 independent AC spindle drive units
- Control CNC system Siemens SINUMERIC 840D sl
- Own technological software Tmis
- Possibility of machine modification to the variant for machining semi-products

#### This eight-spindle automatic lathe is designed for mass and series production of turned parts up to diameter 42 mm.

The main products which are produced on these machines are mostly spin components for the automotive industry. In addition, the machine produces components for the production of bearings, fittings, valves, components for the aircraft industry, etc.

## MULTISPINDLE AUTOMATIC LATHES MORI-SAY MORI-SAY TMZ867CNC



- High accuracy at mass and series production
- High rigidity comparable to cam-machines
- 8 independent AC spindle drive units
- Control CNC system Siemens SINUMERIC 840D sl
- 📀 Own technological software Tmis
- Solution to the variant for machining semi-products

### Eight-spindle automatic lathe MORI-SAY TMZ867CNC represents a facing machine with horizontal axis of rotation of spindle drum.

The machine enables automatic, highly productive and complex machining mostly of rotary parts from bar material and semi-products as are precise casts and forged pieces. The machine joins the advantages of high productivity of cam multi-spindle automatic machines and complex machining of parts on standard facing machining centres when minimizing demands on built-up area. The machine significantly broadens technological possibilities of machining. After additional assembly of special accessories, the machine can manufacture also two various simple parts- it works as two time four-spindle.

#### **TECHNICAL DATA**

#### TMZ867CNC

Number of spindles Pitch diameter of spindles Max. speed	
Pitch diameter of spindles	
Nominal power output	
Max. bar stock capacity	
Round cross section	₩ Ø 67 mm
Hexagonal cross section	
Max. length of bar feeding	200 mm
Max. bar capacity (with automatic bar loader)	
For clamping collets SK80 BZI HAINBUCH	77 mm
r	
Idle time	1 s
Frontal slides (axes W1 to W8)	
Number	
Max. stroke	
Max. Sti uke	42J 11111
Cross slides (axes X1 to X7 and Z1 to Z7)	
Number (stations I, II, III, IV, V, VI, VII)	
Axial stroke (axes Z1 to Z7)	
Radial stroke (axes X1 to X7)	80 mm
Cut-off slide (U8 axis)	
Stroke	70 mm
Frontal driven attachments (axes SO1 to SO8)	
Number	•
Max. speed	6,000 rpm
Machine dimensions	
Machine total length with bar stock guide and without electric cabinet	6,983 mm
Machine total length without bar stock guide and electric cabinet	4,538 mm
Machine height	3,238 mm
Machine width	
Machine weight	16,600 kg
Electric cabinet weight	2,400 kg
Electric cabinet dimensions 5,000 x 2 20	5 x 600 mm

# MORI-SAY



## **MORI-SAY**

TAJMAC–ZPS, a. s. | třída 3. května 1180 | 763 02 Zlín, Malenovice | CZECH REPUBLIC Phone: +420 577 532 072 | www.tajmac-zps.cz | e-mail: info@tajmac-zps.cz