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As one of the biggest European exporters of universal and CNC lathes, for the past sixty years we have sold more than 115 000 lathes in more than 80 countries all over the world. All machines are manufactured in compliance with the specific climate zone and working conditions of the respective regions.

# ZMM BULGARIA HOLDING



ZMM Bulgaria Holding is a privately owned company, leading producer of universal and CNC lathes, electric motors and hydro generators in Bulgaria. ZMM Bulgaria Holding is established in 2001 as a holding company of enterprises with more than 60 years of production experience. We export our machines to more than 80 countries in the world.

For the time-being, the companies in the holding have produced more than 115,000 lathes, more than 500,000 electric motors and more than 210,000 hydro generators.

The main production facilities of the company are based in Bulgaria, in the cities of Sofia, Sliven and Nova Zagora where we employ 520 highly skilled workers and 230 engineers.

ZMM Bulgaria Holding is a group company of Industrial Holding Bulgaria. Industrial Holding Bulgaria is one of the biggest industrial groups in Bulgaria, operating mainly in the maritime transport businesses, ship building and ship repair, port activities, machine building and production of big electric motors and hydro generators.

For more information, please visit [www.bulgariaholding.com](http://www.bulgariaholding.com)



ZMM Sliven production plant



ZMM Nova Zagora production plant



Elprom ZEM production plant



## UNIVERSAL LATHES

Our universal lathes are finely balanced combination of brains and brawn. They include vast array of features and accessories. Universal lathes and lathes with infinitely variable spindle speed control have earned a reputation of most reliable machines. Standard on every machine is metric, inch, module and diametrical pitch threads. Our lathes are manufactured in ranges from 500mm to 10000mm between centers and 165mm to 705mm of center height.

Our lathes are affordable, rugged, reliable and easy to operate. They are also built to last and are known for consistent performance and durability even under the most demanding work conditions.

## OIL COUNTRY LATHES

Designed for turning pipes and pipe fittings for the the oil and gas industry. These machines can be used for a variety of turning operations, including cutting metric, inch, module and pitch threads. As standard machine include two four jaw independent chucks, taper turning attachment, two stands-one with fixed steady and one with rolling quills.

Our spindles are assembled with preloaded angular contact bearings from leading manufacturers as 'SKF' and 'FAG'.

All major components are manufactured from stainless steel, which ensures reliable operation and accuracy of the machine for many years.

## CNC LATHES AND CYCLIC CNC LATHES

Our CNC lathes are available with control systems and servo drives from Siemens, Heidenhain, Fanuc and Fagor. CNC lathes have a maximum turning diameter over bed 500, 890, 1090 and 1320mm. They are designed to perform wide range of turning operations on medium, large and oversized parts in small and medium series production.

Cyclic CNC lathes are with significantly lower price than CNC lathes, being almost not inferior to them in functionality and reliability. Longevity and ease of operation of our cyclic machines are the major advantages.

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We are one of the world's largest and most experienced producers of universal, oil country and CNC lathes and their modifications with infinitely variable spindle speed control. This is why we are absolutely aware of your needs and are able to render the necessary information, training or technical support at any time – directly or through our distributors. Our service engineers are available and ready to help you out. All you have to do is to ask for our machine tool service representative.

We won't leave you hanging when it comes to machine tool installation. All of our equipment comes fully assembled, clearly labeled and includes product manuals with detailed instructions. Our goal is to make installation as easy as possible so you can start producing.

Fast access to spare parts can help you keep your machines running, control costs, extend the life of your equipment and maintain production levels.

If you run into any problems after you receive your machine, contact us.

We're ready to help.





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# UNIVERSAL LATHES

## STANDART MACHINE SPECIFICATION

		Unit	CU325
CAPACITY	Height of centers	mm	165
	Swing over bed	mm	325
	Swing over cross slide	mm	190
	Swing in gap – only DBC 1000mm	mm	440
	Width of bed	mm	200
	Distance between centers	mm	500; 750; 1000
SPINDLE	Spindle nose DIN 55027	No	5
	Spindle bore	mm	32
	Spindle taper	Morse	No. 4,5
HEAD STOCK	Number of spindle speeds		12 ( 24 )
	Spindle speed ranges	rpm	85 – 2000 ( 42,5 – 2000 ) *
	Main motor power	kw	2,2
FEEDS	Number of feeds		48
	Longitudinal feed range	mm/rev	0,006 – 1,77
	Cross feed range	mm/rev	0,003 – 0,885
THREADS	Number of threads		As below
	Metric thread range	mm	( 48 ) 0,1 – 28
	Inch thread range	Tpi	( 53 ) 75 – 2,5
	Module thread range	Module	( 19 ) 0,1 – 1,75
	DP thread range	DP	( 19 ) 70 – 4
CARRIAGE	Cross slide travel	mm	150
	Top slide travel	mm	95
TAIL STOCK	Quill diameter	mm	40
	Quill taper	Morse	No.3
	Quill travel	mm	100
WEIGHT	For DBC 1000 mm	kg	770

\* Only for two-speed motor execution





# UNIVERSAL LATHES

STANDART MACHINE SPECIFICATION		Unit	C400TM
CAPACITY	Height of centers	mm	200
	Swing over bed	mm	400
	Swing over cross slide	mm	235
	Swing in gap	mm	550
	Width of bed	mm	320
	Distance between centers	mm	750; 1000; 1500
SPINDLE	Spindle nose DIN 55027	No	6
	Spindle bore	mm	52
	Spindle taper	Morse	No. 6
HEAD STOCK	Number of spindle speeds		12
	Spindle speed ranges	rpm	50 – 2240
	Main motor power	kw	4
FEEDS	Number of feeds		80
	Longitudinal feed range	mm/rev	0,015 – 0,6
	Cross feed range	mm/rev	0,0075 – 0,3
THREADS	Number of threads		40
	Metric thread range	mm	0,25 – 7,5
	Inch thread range	Tpi	120 – 4
	Module thread range	Module	0,0625 – 1,875
	DP thread range	DP	480 – 16
CARRIAGE	Cross slide travel	mm	235
	Top slide travel	mm	110
TAIL STOCK	Quill diameter	mm	50
	Quill taper	Morse	No.4
	Quill travel	mm	100
WEIGHT	For DBC 1500 mm	kg	1700



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# UNIVERSAL LATHES

STANDART MACHINE SPECIFICATION		Unit	CU400	CU500
CAPACITY	Height of centers	mm	210	245
	Swing over bed	mm	440	500
	Swing over cross slide	mm	230	300
	Swing in gap	mm	620	670
	Width of bed	mm	360	
	Distance between centers	mm	1000; 1500; 2000	
SPINDLE	Spindle nose DIN 55027	No	8	
	Spindle bore	mm	62	
	Spindle taper	Metric	80	
HEAD STOCK	Number of spindle speeds		21	
	Spindle speed ranges	rpm	20 – 2000	
	Main motor power	kw	7,5	
FEEDS	Number of feeds		120	
	Longitudinal feed range	mm/rev	0,04 – 12	
	Cross feed range	mm/rev	0,02 – 6	
THREADS	Number of threads		64	
	Metric thread range	mm	0,5 – 120	
	Inch thread range	Tpi	60 – ¼	
	Module thread range	Module	0,125 – 30	
	DP thread range	DP	240 – 1	
CARRIAGE	Cross slide travel	mm	250	
	Top slide travel	mm	130	
TAIL STOCK	Quill diameter	mm	70	
	Quill taper	Morse	No.5	
	Quill travel	mm	180	
WEIGHT	For DBC 2000 mm	kg	2560	2630



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# UNIVERSAL LATHES

STANDART MACHINE SPECIFICATION		Unit	CU400M	CU500M	CU580M
CAPACITY	Height of centers	mm	220	250	290
	Swing over bed	mm	440	500	580
	Swing over cross slide	mm	240	300	380
	Swing in gap	mm	640	700	780
	Width of bed	mm	400		
	Distance between centers	mm	1000; 1500; 2000; 3000; 4000; 5000		
SPINDLE	Spindle nose DIN 55027	No	8		
	Spindle bore	mm	72		
	Spindle taper	Metric	80		
HEAD STOCK	Number of spindle speeds		21		
	Spindle speed ranges	rpm	20 – 2000		
	Main motor power	kw	7,5 ( 11 )		
FEEDS	Number of feeds		120		
	Longitudinal feed range	mm/rev	0,04 – 12		
	Cross feed range	mm/rev	0,02 – 6		
THREADS	Number of threads		64		
	Metric thread range	mm	0,5 – 120		
	Inch thread range	Tpi	60 – ¼		
	Module thread range	Module	0,125 – 30		
	DP thread range	DP	240 – 1		
CARRIAGE	Cross slide travel	mm	315		
	Top slide travel	mm	130		
TAIL STOCK	Quill diameter	mm	90		
	Quill taper	Morse	No.5		
	Quill travel	mm	230		
WEIGHT	For DBC 2000 mm	kg	2900	2950	3010



CE

# UNIVERSAL LATHES

## STANDART MACHINE SPECIFICATION

		Unit	C11MT
CAPACITY	Height of centers	mm	300
	Swing over bed	mm	600
	Swing over cross slide	mm	400
	Swing in gap	mm	800
	Width of bed	mm	400
	Distance between centers	mm	1000;1500;2000;3000;4000;5000
SPINDLE	Spindle nose DIN 55027	No	8
	Spindle bore	mm	80
	Spindle taper	Metric	90
HEAD STOCK	Number of spindle speeds		16
	Spindle speed ranges	rpm	11,5 – 2000
	Main motor power	kw	7,5
FEEDS	Number of feeds		160
	Longitudinal feed range	mm/rev	0,02 – 12
	Cross feed range	mm/rev	0,01 – 6
THREADS	Number of threads		80
	Metric thread range	mm	0,25 – 120
	Inch thread range	Tpi	120 – ¼
	Module thread range	Module	0,0625 – 30
	DP thread range	DP	480 – 1
CARRIAGE	Cross slide travel	mm	315
	Top slide travel	mm	130
TAIL STOCK	Quill diameter	mm	90
	Quill taper	Morse	No.5
	Quill travel	mm	230
WEIGHT	For DBC 2000 mm	kg	3100



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# UNIVERSAL LATHES

## STANDART MACHINE SPECIFICATION

		Unit	CU500MT	CU630	CU730
CAPACITY	Height of centers	mm	250	315	365
	Swing over bed	mm	500	630	730
	Swing over cross slide	mm	300	430	500
	Swing in gap	mm	700	830	930
	Width of bed	mm	400		
	Distance between centers	mm	1000; 1500; 2000; 3000; 4000; 5000		
SPINDLE	Spindle nose DIN 55027	No	11		
	Spindle bore	mm	103		
	Spindle taper	Metric	120		
HEAD STOCK	Number of spindle speeds		15	21	
	Spindle speed ranges	rpm	11,5-1400	12,5 - 1250	
	Main motor power	kw	7,5	11	
FEEDS	Number of feeds		120		
	Longitudinal feed range	mm/rev	0,04 – 12		
	Cross feed range	mm/rev	0,02 – 6		
THREADS	Number of threads		64		
	Metric thread range	mm	0,5 – 120		
	Inch thread range	Tpi	60 – ¼		
	Module thread range	Module	0,125 – 30		
	DP thread range	DP	240 – 1		
CARRIAGE	Cross slide travel	mm	315	390	
	Top slide travel	mm	130		
TAIL STOCK	Quill diameter	mm	90		
	Quill taper	Morse	No.5		
	Quill travel	mm	230		
WEIGHT	For DBC 2000 mm	kg	3250	3310	3500



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# UNIVERSAL LATHES

## STANDART MACHINE SPECIFICATION

		Unit	C10T	C10TM	C10TH
CAPACITY	Height of centers	mm	330	380	430
	Swing over bed	mm	660	760	860
	Swing over cross slide	mm	420	520	620
	Swing in gap	mm	850	950	1050
	Width of bed	mm	560		
	Distance between centers	mm	1500; 2000; 3000; 4000; 5000; 6000		
SPINDLE	Spindle nose DIN 55027	No	11		
	Spindle bore	mm	103	132	
	Spindle taper	Metric	120	140	
HEAD STOCK	Number of spindle speeds		15	17	
	Spindle speed ranges	rpm	9-1320	7,5 – 1015	
	Main motor power	kw	11	11 (15)	15
FEEDS	Number of feeds		150		
	Longitudinal feed range	mm/rev	0,039 – 18		
	Cross feed range	mm/rev	0,02 – 9		
THREADS	Number of threads		76		
	Metric thread range	mm	0,5 – 180		
	Inch thread range	Tpi	60 – 1/6		
	Module thread range	Module	0,125 – 45		
	DP thread range	DP	240 – 2/3		
CARRIAGE	Cross slide travel	mm	410	435	
	Top slide travel	mm	150		
TAIL STOCK	Quill diameter	mm	105		
	Quill taper	Morse	No.6		
	Quill travel	mm	225		
WEIGHT	For DBC 2000 mm	kg	4170	4470	4650



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# UNIVERSAL LATHES

## STANDART MACHINE SPECIFICATION

		Unit	CU800	CU1000	CU1250
CAPACITY	Height of centers	mm	400	500	625
	Swing over bed	mm	890	1090	1320
	Swing over cross slide	mm	490	690	940
	Swing in gap	mm	1050	1250	1500
	Width of bed	mm	700		
	Distance between centers	mm	1500; 3000; 4000; 5000; 6000		
SPINDLE	Spindle nose DIN 55027	No		15	
	Spindle bore	mm		155	
	Spindle taper	Metric		160	
HEAD STOCK	Number of spindle speeds		24		
	Spindle speed ranges	rpm	6,3 -1250		5 -1000
	Main motor power	kw	22 (30)		
FEEDS	Number of feeds		160		
	Longitudinal feed range	mm/rev	0,032 – 38,9		
	Cross feed range	mm/rev	0,016 – 19,45		
THREADS	Number of threads		80		
	Metric thread range	mm	0,5 – 480		
	Inch thread range	Tpi	60 – 1/16		
	Module thread range	Module	0,125 – 120		
	DP thread range	DP	240 – ¼		
CARRIAGE	Cross slide travel	mm	525		685
	Top slide travel	mm	270		
TAIL STOCK	Quill diameter	mm	125		
	Quill taper	Morse	No.6		
	Quill travel	mm	260		
WEIGHT	For DBC 3000 mm	kg	7500	8050	8550



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# UNIVERSAL LATHES WITH VARIABLE SPINDLE SPEED CONTROL

STANDART MACHINE SPECIFICATION		Unit	CU325RD
CAPACITY	Height of centers	mm	165
	Swing over bed	mm	325
	Swing over cross slide	mm	190
	Swing in gap – only DBC1000mm	mm	440
	Width of bed	mm	200
	Distance between centers	mm	500; 750; 1000
SPINDLE	Spindle nose DIN 55027	No	5
	Spindle bore	mm	32
	Spindle taper	Morse	No. 4,5
HEAD STOCK	Number of spindle speeds		Infinitely variable in 2 sub-ranges
	Spindle variable speed sub-ranges	rpm	85 - 405; 470 – 2200
	Main motor power	kw	2,2
FEEDS	Number of feeds		48
	Longitudinal feed range	mm/rev	0,006 – 1,77
	Cross feed range	mm/rev	0,003 – 0,885
THREADS	Number of threads		As below
	Metric thread range	mm	( 48 ) 0,1 – 28
	Inch thread range	Tpi	( 53 ) 75 – 2,5
	Module thread range	Module	( 19 ) 0,1 – 1,75
	DP thread range	DP	( 19 ) 70 – 4
CARRIAGE	Cross slide travel	mm	150
	Top slide travel	mm	95
TAIL STOCK	Quill diameter	mm	40
	Quill taper	Morse	No.3
	Quill travel	mm	100
WEIGHT	For DBC 1000 mm	kg	770



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# UNIVERSAL LATHES WITH VARIABLE SPINDLE SPEED CONTROL

STANDART MACHINE SPECIFICATION		Unit	C400TS
CAPACITY	Height of centers	mm	200
	Swing over bed	mm	400
	Swing over cross slide	mm	235
	Swing in gap	mm	550
	Width of bed	mm	320
	Distance between centers	mm	750; 1000; 1500
SPINDLE	Spindle nose DIN 55027	No	6
	Spindle bore	mm	52
	Spindle taper	Morse	No. 6
HEAD STOCK	Number of spindle speeds		Infinitely variable in 4 sub-ranges
	Spindle variable speed sub-ranges	rpm	18-98; 48-265; 144-790; 385-2120
	Main motor power	kw	7,5
FEEDS	Number of feeds		80
	Longitudinal feed range	mm/rev	0,015 – 0,6
	Cross feed range	mm/rev	0,0075 – 0,3
THREADS	Number of threads		40
	Metric thread range	mm	0,25 – 7,5
	Inch thread range	Tpi	120 – 4
	Module thread range	Module	0,0625 – 1,875
	DP thread range	DP	480 – 16
CARRIAGE	Cross slide travel	mm	235
	Top slide travel	mm	110
TAIL STOCK	Quill diameter	mm	50
	Quill taper	Morse	No.4
	Quill travel	mm	100
WEIGHT	For DBC 1500 mm	kg	1700



# UNIVERSAL LATHES WITH VARIABLE SPINDLE SPEED CONTROL

STANDART MACHINE SPECIFICATION		Unit	CU400MRD	CU500MRD	CU580MRD
CAPACITY	Height of centers	mm	220	250	290
	Swing over bed	mm	440	500	580
	Swing over cross slide	mm	240	300	380
	Swing in gap	mm	640	700	780
	Width of bed	mm	400		
	Distance between centers	mm	1000; 1500; 2000; 3000; 4000; 5000		
SPINDLE	Spindle nose DIN 55027	No	8		
	Spindle bore	mm	72		
	Spindle taper	Metric	80		
HEAD STOCK	Number of spindle speeds		Infinitely variable in 3 sub-ranges		
	Spindle variable speed sub-ranges	rpm	25 - 100; 100 - 400; 500 - 2000		
	Main motor power	kw	11		
FEEDS	Number of feeds		120		
	Longitudinal feed range	mm/rev	0,04 - 12		
	Cross feed range	mm/rev	0,02 - 6		
THREADS	Number of threads		64		
	Metric thread range	mm	0,5 - 120		
	Inch thread range	Tpi	60 - ¼		
	Module thread range	Module	0,125 - 30		
	DP thread range	DP	240 - 1		
CARRIAGE	Cross slide travel	mm	315		
	Top slide travel	mm	130		
TAIL STOCK	Quill diameter	mm	90		
	Quill taper	Morse	No.5		
	Quill travel	mm	230		
WEIGHT	For DBC 2000 mm	kg	2900	2950	3010



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# UNIVERSAL LATHES WITH VARIABLE SPINDLE SPEED CONTROL

STANDART MACHINE SPECIFICATION		Unit	C11MTS
CAPACITY	Height of centers	mm	300
	Swing over bed	mm	600
	Swing over cross slide	mm	400
	Swing in gap	mm	800
	Width of bed	mm	400
	Distance between centers	mm	1000; 1500; 2000; 3000; 4000; 5000
SPINDLE	Spindle nose DIN 55027	No	8
	Spindle bore	mm	80
	Spindle taper	Metric	90
HEAD STOCK	Number of spindle speeds		Infinitely variable in 3 sub-ranges
	Spindle variable speed sub-ranges	rpm	8 - 62; 62 - 500; 250 - 2000
	Main motor power	kw	11
FEEDS	Number of feeds		160
	Longitudinal feed range	mm/rev	0,02 – 12
	Cross feed range	mm/rev	0,01 – 6
THREADS	Number of threads		80
	Metric thread range	mm	0,25 – 120
	Inch thread range	Tpi	120 – ¼
	Module thread range	Module	0,0625 – 30
	DP thread range	DP	480 – 1
CARRIAGE	Cross slide travel	mm	315
	Top slide travel	mm	130
TAIL STOCK	Quill diameter	mm	90
	Quill taper	Morse	No.5
	Quill travel	mm	230
WEIGHT	For DBC 2000 mm	kg	3100



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# UNIVERSAL LATHES WITH VARIABLE SPINDLE SPEED CONTROL

STANDART MACHINE SPECIFICATION		Unit	CU500MTRD	CU630RD	CU730RD
CAPACITY	Height of centers	mm	250	315	365
	Swing over bed	mm	500	630	730
	Swing over cross slide	mm	300	430	500
	Swing in gap	mm	700	830	930
	Width of bed	mm	400		
	Distance between centers	mm	1000; 1500; 2000; 3000; 4000; 5000		
SPINDLE	Spindle nose DIN 55027	No	11		
	Spindle bore	mm	103		
	Spindle taper	Metric	120		
HEAD STOCK	Number of spindle speeds		Infinitely variable in 3 sub-ranges		
	Spindle variable speed sub-ranges	rpm	16-63;63-250;355-1400	16-63; 63-250; 315-1250	
	Main motor power	kw	11		
FEEDS	Number of feeds		120		
	Longitudinal feed range	mm/rev	0,04 – 12		
	Cross feed range	mm/rev	0,02 – 6		
THREADS	Number of threads		64		
	Metric thread range	mm	0,5 – 120		
	Inch thread range	Tpi	60 – ¼		
	Module thread range	Module	0,125 – 30		
	DP thread range	DP	240 – 1		
CARRIAGE	Cross slide travel	mm	315	390	
	Top slide travel	mm	130		
TAIL STOCK	Quill diameter	mm	90		
	Quill taper	Morse	No.5		
	Quill travel	mm	230		
WEIGHT	For DBC 2000 mm	kg	3250	3310	3500





# UNIVERSAL LATHES WITH VARIABLE SPINDLE SPEED CONTROL

STANDART MACHINE SPECIFICATION		Unit	C10TS	C10TMS	C10THS
CAPACITY	Height of centers	mm	330	380	430
	Swing over bed	mm	660	760	860
	Swing over cross slide	mm	420	520	620
	Swing in gap	mm	850	950	1050
	Width of bed	mm	560		
	Distance between centers	mm	1500; 2000; 3000; 4000; 5000;6000		
SPINDLE	Spindle nose DIN 55027	No	11		
	Spindle bore	mm	103	132	
	Spindle taper	Metric	120	140	
HEAD STOCK	Number of spindle speeds		Infinitely variable in 3 sub-ranges		
	Spindle variable speed sub-ranges	rpm	9-55;37-220;220-1320	7-42;28-170;165-1015	
	Main motor power	kw	15		
FEEDS	Number of feeds		150		
	Longitudinal feed range	mm/rev	0,039 – 18		
	Cross feed range	mm/rev	0,02 – 9		
THREADS	Number of threads		76		
	Metric thread range	mm	0,5 – 180		
	Inch thread range	Tpi	60 – 1/6		
	Module thread range	Module	0,125 – 45		
	DP thread range	DP	240 –2/3		
CARRIAGE	Cross slide travel	mm	410	435	
	Top slide travel	mm	150		
TAIL STOCK	Quill diameter	mm	105		
	Quill taper	Morse	No.6		
	Quill travel	mm	225		
WEIGHT	For DBC 2000 mm	kg	4170	4470	4650



# UNIVERSAL LATHES WITH VARIABLE SPINDLE SPEED CONTROL

STANDART MACHINE SPECIFICATION		Unit	CU800RD	CU1000RD	CU1250RD
CAPACITY	Height of centers	mm	400	500	625
	Swing over bed	mm	890	1090	1320
	Swing over cross slide	mm	490	690	940
	Swing in gap	mm	1050	1250	1500
	Width of bed	mm	700		
	Distance between centers	mm	1500;3000;4000;5000;6000;7000;8000;9000;10000		
SPINDLE	Spindle nose DIN 55027	No	15		
	Spindle bore	mm	155		
	Spindle taper	Metric	160		
HEAD STOCK	Number of spindle speeds		Infinitely variable in 4 sub-ranges		
	Spindle variable speed sub-ranges	rpm	3,7-15,6; 14,7-62; 58-250; 235-1000		
	Main motor power	kw	30		
FEEDS	Number of feeds		160		
	Longitudinal feed range	mm/rev	0,032 – 38,9		
	Cross feed range	mm/rev	0,016 – 19,45		
THREADS	Number of threads		80		
	Metric thread range	mm	0,5 – 480		
	Inch thread range	Tpi	60 – 1/16		
	Module thread range	Module	0,125 – 120		
	DP thread range	DP	240 – ¼		
CARRIAGE	Cross slide travel	mm	525		625
	Top slide travel	mm	270		
TAIL STOCK	Quill diameter	mm	125		
	Quill taper	Morse	No.6		
	Quill travel	mm	260		
WEIGHT	For DBC 3000 mm	kg	7500	8050	8550



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# UNIVERSAL LATHES WITH VARIABLE SPINDLE SPEED CONTROL

STANDART MACHINE SPECIFICATION		Unit	CU1410RD
CAPACITY	Height of centers	mm	705
	Swing over bed	mm	1410
	Swing over cross slide	mm	1000
	Width of bed	mm	800
	Distance between centers	mm	2000; 3000; 4000; 5000; 6000; 7000; 8000; 9000
SPINDLE	Spindle nose DIN 55026	No	A 15
	Spindle bore	mm	205
	Spindle taper	Metric	215
HEAD STOCK	Number of spindle speeds		Infinitely variable in 4 sub-ranges
	Spindle variable speed sub-ranges	rpm	1,5-8; 5-31; 20-125; 80-500
	Main motor power	kw	45
FEEDS	Number of feeds		160
	Longitudinal feed range	mm/rev	0,032 – 38,9
	Cross feed range	mm/rev	0,016 – 19,45
THREADS	Number of threads		80
	Metric thread range	mm	0,5 – 480
	Inch thread range	Tpi	60 – 1/16
	Module thread range	Module	0,125 – 120
	DP thread range	DP	240 – ¼
CARRIAGE	Cross slide travel	mm	730
	Top slide travel	mm	350
TAIL STOCK	Quill diameter	mm	200
	Quill taper	Morse	No.7
	Quill travel	mm	300
WEIGHT	For DBC 3000 mm	kg	14000



# OIL COUNTRY LATHES

STANDART MACHINE SPECIFICATION		Unit	C10T.10	C10T.12
CAPACITY	Height of centers	mm	400	
	Swing over bed	mm	800	
	Swing over cross slide	mm	560	
	Swing in gap	mm	990	
	Width of bed	mm	560	
	Distance between centers	mm	1500;2000;3000;4000;5000;6000	
SPINDLE	Spindle nose DIN 55026 – ANSI B5.9	No	A20 – A2.20	
	Spindle bore	mm	260	315
	Spindle taper	Metric	318	
HEAD STOCK	Number of spindle speeds		12	
	Spindle speed ranges	rpm	8-400 (10-480)	
	Main motor power	kw	11 (15)	
FEEDS	Number of feeds		152	
	Longitudinal feed range	mm/rev	0,039 – 15	
	Cross feed range	mm/rev	0,02 – 7,5	
THREADS	Number of threads		76	
	Metric thread range	mm	0,5 – 150	
	Inch thread range	Tpi	60 – 1/5	
	Module thread range	Module	0,125 – 37,5	
	DP thread range	DP	240 – 4/5	
CARRIAGE	Cross slide travel	mm	410	
	Top slide travel	mm	150	
TAIL STOCK	Quill diameter	mm	105	
	Quill taper	Morse	No.6	
	Quill travel	mm	225	
WEIGHT	For DBC 2000 mm	kg	6000	6100



CE



# CNC LATHES

## STANDART MACHINE SPECIFICATION

		Unit	LT580
CAPACITY	Height of centers	mm	290
	Swing over bed	mm	580
	Swing over cross slide	mm	380
	Width of bed	mm	400
	Distance between centers	mm	885;1385;1885;2885;3885;4885
SPINDLE	Spindle nose DIN 55027	No	8
	Front bearing diameter	mm	120
	Spindle bore	mm	72
	Spindle taper	Metric	80
HEAD STOCK	Number of spindle speed		3
	I-Range	rpm	25 – 100
	II-Range	rpm	100 - 400
	III-Range	rpm	500 - 2000
TRAVELS AND FEEDS	Longitudinal feed (Z-axis)	m/min	8 (max)
	Lateral feed (X-axis)	m/min	8 (max)
	Rapid traverse (Z and X-axis)	m/min	8 (max)
	Cross slide maximum travel	mm	290
BALL SCREW	Z-axis	mm	50x10
	X-axis	mm	32x5
TAILSTOCK	Quill Diameter	mm	90
	Quill Travel	mm	230
	Quill internal taper	Morse	5
DRIVES	Main drive power	kW	11kW ( AT160M4 )
	Z-axis servo drive power	kW/N.m	16 N.m ( 3,3kW ) ( 1FK7083 )
	X-axis servo drive power	kW/N.m	11 N.m ( 2,29kW ) ( 1FK7063 )
	Spindle maximum torque	N.m	1120
	Z-axis tow strength	daN	1450
	X-axis tow strength	daN	1050
TOOL HOLER	Quick change type		MC
CNC SYSTEM			Siemens
WEIGHT	For DBC 1885 mm	kg	3800

CNC System and servo drives available also: Heidenhain;Fanuc;Fagor



CE

# CNC LATHES

## STANDART MACHINE SPECIFICATION

		Unit	LT660	LT760	LT860
CAPACITY	Height of centers	mm	330	380	430
	Swing over bed	mm	660	760	860
	Swing over cross slide	mm	420	520	620
	Width of bed	mm	560		
	Distance between centers	mm	1410;1910;2910;3910;4910;5910	1350;1850;2850; 3850;4850;5850	
SPINDLE	Spindle nose DIN 55027	No	11	11	
	Front bearing diameter	mm	140	170	
	Spindle bore	mm	103	132	
	Spindle taper	Metric	120	140	
HEAD STOCK	Number of spindle speed		3	3	
	I-Range	rpm	9 – 55	7- 42	
	II-Range	rpm	37 - 220	8 – 7028 - 1700	
	III-Range	rpm	220-1320	8 – 700165 1015	
TRAVELS AND FEEDS	Longitudinal feed (Z-axis)	m/min	8 (max)		
	Lateral feed (X-axis)	m/min	8 (max)		
	Rapid traverse (Z and X-axis)	m/min	8 (max)		
	Cross slide maximum travel	mm	430		
BALL SCREW	Z-axis	mm	50x10		
	X-axis	mm	32x5		
TAILSTOCK	Quill Diameter	mm	105		
	Quill Travel	mm	225		
	Quill internal taper	Morse	6		
DRIVES	Main drive power	kW	15Kw (AT160L4)	18,5kW(AT180M4)	
	Z-axis servo drive power	Kw/N.m	18 N.m ( 3,77kW ) ( 1FK7100 )		
	X-axis servo drive power	kw/N.m	11 N.m ( 2,29kW ) ( 1FK7063 )		
	Spindle maximum torque	N.m	2000	2250	
	Z-axis tow strength	daN	1250		
	X-axis tow strength	daN	1050		
TOOL HOLER	Quick change type		MC		
CNC SYSTEM			Siemens		
WEIGHT	For DBC 3000 mm	kg	5700	6060	6300

CNC System and servo drives available also: Heidenhain;Fanuc;Fagor



CE

# CNC LATHES

STANDART MACHINE SPECIFICATION		Unit	LTC10T.10	LTC10T.12
CAPACITY	Height of centers	mm	400	
	Swing over bed	mm	800	
	Swing over cross slide	mm	560	
	Width of bed	mm	560	
	Distance between centers	mm	1500;2000;3000;4000;5000;6000	
SPINDLE	Spindle nose DIN 55026	No	A 20 / A2 20	
	Front bearing diameter	mm	380	
	Spindle bore	mm	260	315
	Number of spindle speed		4	
HEAD STOCK	I-Range	rpm	8 – 40	
	II-Range	rpm	16 – 80	
	III-Range	rpm	40 - 200	
	IV-Range	rpm	80 - 400	
TRAVELS AND FEEDS	Longitudinal feed (Z-axis)	m/min	8 (max)	
	Lateral feed (X-axis)	m/min	8 (max)	
	Rapid traverse (Z and X-axis)	m/min	8 (max)	
	Cross slide maximum travel	mm	390	
BALL SCREW	Z-axis	mm	50x10	
	X-axis	mm	32x5	
TAILSTOCK	Quill Diameter	mm	105	
	Quill Travel	mm	225	
	Quill internal taper	Morse	6	
DRIVES	Main drive power	kW	18,5kW ( AT180M4 )	
	Z-axis servo drive power	Kw/N.m	18 N.m ( 3,77Kw ) ( 1FK7100 )	
	X-axis servo drive power	kw/N.m	11 N.m ( 2,29kW ) ( 1FK7063 )	
	Spindle maximum torque	N.m	3500	
	Z-axis tow strength	daN	1250	
	X-axis tow strength	daN	1050	
TOOL HOLER	Quick change type		MC	
CNC SYSTEM			Siemens	
WEIGHT	For DBC 3000 mm	kg	6100	

CNC System and servo drives available also: Heidenhain;Fanuc;Fagor



CE

# CNC LATHES

## STANDART MACHINE SPECIFICATION

		Unit	LT800	LT1000	LT1250
CAPACITY	Height of centers	mm	410	510	635
	Swing over bed	mm	890	1090	1320
	Swing over cross slide	mm	490	690	940
	Width of bed	mm	700		
	Distance between centers	mm	1500;3000;4000;5000;6000		
SPINDLE	Spindle nose DIN 55027	No	15		
	Front bearing diameter	mm	200		
	Spindle bore	mm	155		
	Spindle taper	Metric	160		
HEAD STOCK	Number of spindle speed		4		
	I-Range	rpm	3,7 – 15,6		
	II-Range	rpm	14,7 – 62		
	III-Range	rpm	58 – 250		
	IV-Range	rpm	235 - 1000		
	Longitudinal feed (Z-axis)	m/min	8 (max)		
	Lateral feed (X-axis)	m/min	8 (max)		
	Rapid traverse (Z and X-axis)	m/min	8 (max)		
BALL SCREW	Cross slide maximum travel	mm	525	650	
	Z-axis	mm	63x10		
	X-axis	mm	40x10		
TAILSTOCK	Quill Diameter	mm	125		
	Quill Travel	mm	250		
	Quill internal taper	Morse	6		
DRIVES	Main drive power	kW	30kW ( AT180LL4 )		
	Z-axis servo drive power	kW/N.m	27 N.m ( 4,87kW ) ( 1FK7101 )		
	X-axis servo drive power	kW/N.m	11 N.m ( 2,29kW ) ( 1FK7063 )		
	Spindle maximum torque	N.m	5000		
	Z-axis tow strength	daN	1600		
	X-axis tow strength	daN	800		
TOOL HOLER	Quick change type		MD1		
CNC SYSTEM			Siemens		
WEIGHT	For DBC 3000 mm	kg	8800	9300	9800

CNC System and servo drives available also: Heidenhain;Fanuc;Fagor



CE



# CNC LATHES

STANDART MACHINE SPECIFICATION		Unit	LCC800	LCC1000	LCC1250
CAPACITY	Height of centers	mm	410	510	635
	Swing over bed	mm	890	1090	1320
	Swing over cross slide	mm	490	690	940
	Width of bed	mm	700		
	Distance between centers	mm	1500;3000;4000;5000;6000		
SPINDLE	Spindle nose DIN 55027	No	15		
	Front bearing diameter	mm	200		
	Spindle bore	mm	155		
	Spindle taper	Metric	160		
HEAD STOCK	Number of spindle speed		2		
	I-Range	rpm	2 – 180		
	II-Range	rpm	8 - 700		
	Longitudinal feed (Z-axis)	m/min	8 (max)		
	Lateral feed (X-axis)	m/min	8 (max)		
	Rapid traverse (Z and X-axis)	m/min	8 (max)		
	Cross slide maximum travel	mm	525	650	
BALL SCREW	Z-axis	mm	63x10		
	X-axis	mm	40x10		
TAILSTOCK	Quill Diameter	mm	125		
	Quill Travel	mm	250		
	Quill internal taper	Morse	6		
DRIVES	Main drive power	kW	30kW ( 1PH7163 )		
	Z-axis servo drive power	kW/N.m	27 N.m ( 4,87kW ) ( 1FK7101 )		
	X-axis servo drive power	kW/N.m	11 N.m ( 2,29kW ) ( 1FK7063 )		
	Spindle maximum torque	N.m	5000		
	Z-axis tow strength	daN	1600		
	X-axis tow strength	daN	800		
TOOL HOLER	Quick change type		MD1		
CNC SYSTEM			Siemens		
WEIGHT	For DBC 3000 mm	kg	8800	9300	9800

CNC System and servo drives available also: Heidenhain;Fanuc;Fagor

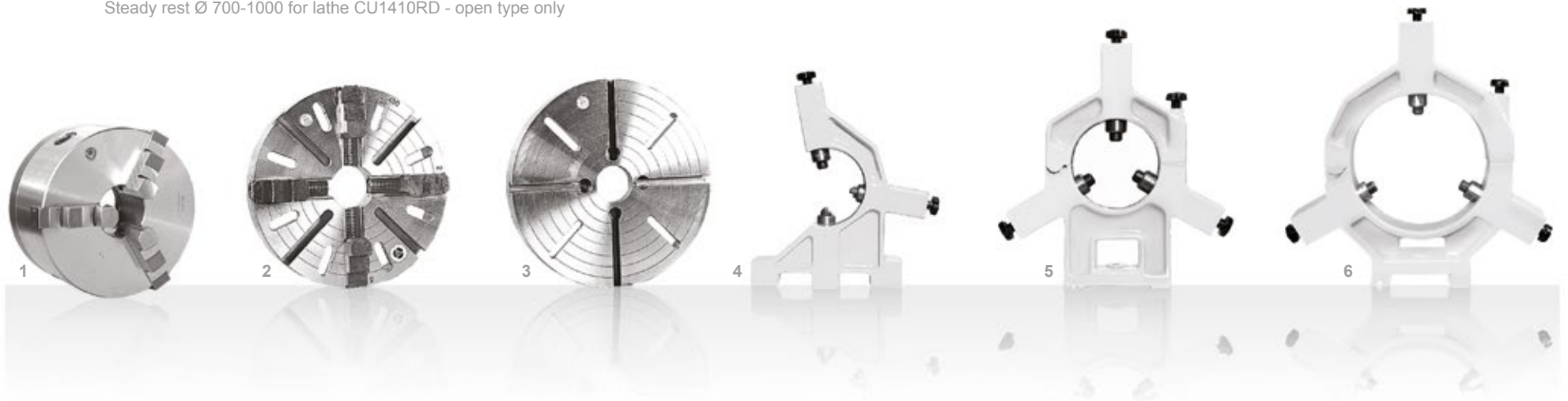
# LATHE MACHINE OPTIONAL ACCESSORIES

N	OPTIONAL ACCESSORY	SPECIFICATIONS	CU325 CU325RD	C400TM C400TMS	CU400	CU500	CU400M CU400MRD	CU500M CU500MRD	CU580M CU580MRD
1	3-JAW SELF-CENTERING CHUCK	Diameter (mm)	160	200	250	250	250	250	250
2	INDEPENDENT 4-JAW CHUCK	Diameter (mm)	250	320	400	500	400	500	500
3	FACE PLATE	Diameter (mm)	296	320	400	480	400	480	480
4	FOLLOWE REST	Range (mm)	10-70	10-80	15-160	15-200	15-160	15-200	15-200
5	STEADY REST, SMALL SIZE	Range (mm)	10-70	10-100	15-150	15-160	15-160	15-160	15-200
6	STEADY REST, BIG SIZE	Range (mm)	No	No	No	140-280	No	140-280	180-340
7	TAPER TURNING ATTACHM.	+10°	Yes	Yes	Yes	Yes	Yes	Yes	Yes
8	ONE-POSITION LONG. STOP		Yes	Yes	Yes	Yes	Yes	Yes	Yes
9	THREAD DIAL		Yes	Yes	Yes	Yes	Yes	Yes	Yes
10	DRIVE PLATE FOR SPINDLE NOSE DIN 55027		Yes	Yes	Yes	Yes	Yes	Yes	Yes
11	SET OF LATHE DOGS	Ø20; Ø30; Ø40; Ø50; Ø60; Ø80; Ø100	20; 50;	20;30;40;50;60	Full	Full	Full	Full	Full
12	LIVE CENTER	Morse	M3	M4	M5	M5	M5	M5	M5
13	DRILL CHUCK WITH ARBOR	Drill diam. (mm)	13	20	20	20	20	20	20

Remarks : Yes = Available for this model; No = Not available for this model

Steady rest Ø720mm for lathe CU1000 – open type only

Steady rest Ø 700-1000 for lathe CU1410RD - open type only



C11MT C11MTS	CU500MT CU500MTRD	CU630 CU630RD	CU730 CU730RD	C10T C10TS	C10TM C10TMS	C10TH C10THS	C10T.10 C10TS.10	C10T.12 C10TS.12	CU800 CU800RD	CU1000 CU1000RD	CU1250 CU1250RD	CU1410RD
250	315	315	315	315	400	400	500	500	500	500	500	630
500	500	600	600	600	760	760	580 Standard	630 Standard	760	1000	1000	1250
480	500	600	600	600	760	760	x	x	760	1000	1000	No
15-200	15-200	15-200	15-200	20-200	20-200	20-200	20-200	20-200	80-300	80-300	80-300	80-300
15-200	15-160	15-200	15-200	20-200	20-200	50-250	20-200	20-200	50-300	50-300	50-300	80-300
180-340	140-280	180-340	180-430	180-430	180-430 200-520	220-450 420-620	180-430	180-430	270-520	270-520 480-720	270-520 480-720 700-950	270-520 470-720 700-1000
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes Standard	Yes Standard	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes Standard	Yes Standard	Yes	Yes	Yes	No
Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No
Full	Full	Full	Full	Full	Full	Full	No	No	No	No	No	No
M5	M5	M5	M5	M6	M6	M6	M6	M6	M6	M6	M6	MK 7
20	20	20	20	20	20	20	No	No	No	No	No	No



# ZMM SLIVEN



ZMM Sliven company is established in 1971. It is specialized in designing and production of universal metal cutting lathes, CNC lathes, equipment and spare parts.

Products of ZMM Sliven are well known all over the world.

ZMM Sliven belongs to the ZMM Bulgaria Holding LTD, which is part of Industrial Holding Bulgaria.

All products of ZMM Sliven have indication CE as a prove of conformity with regulations of the Directory Norm of European Community.

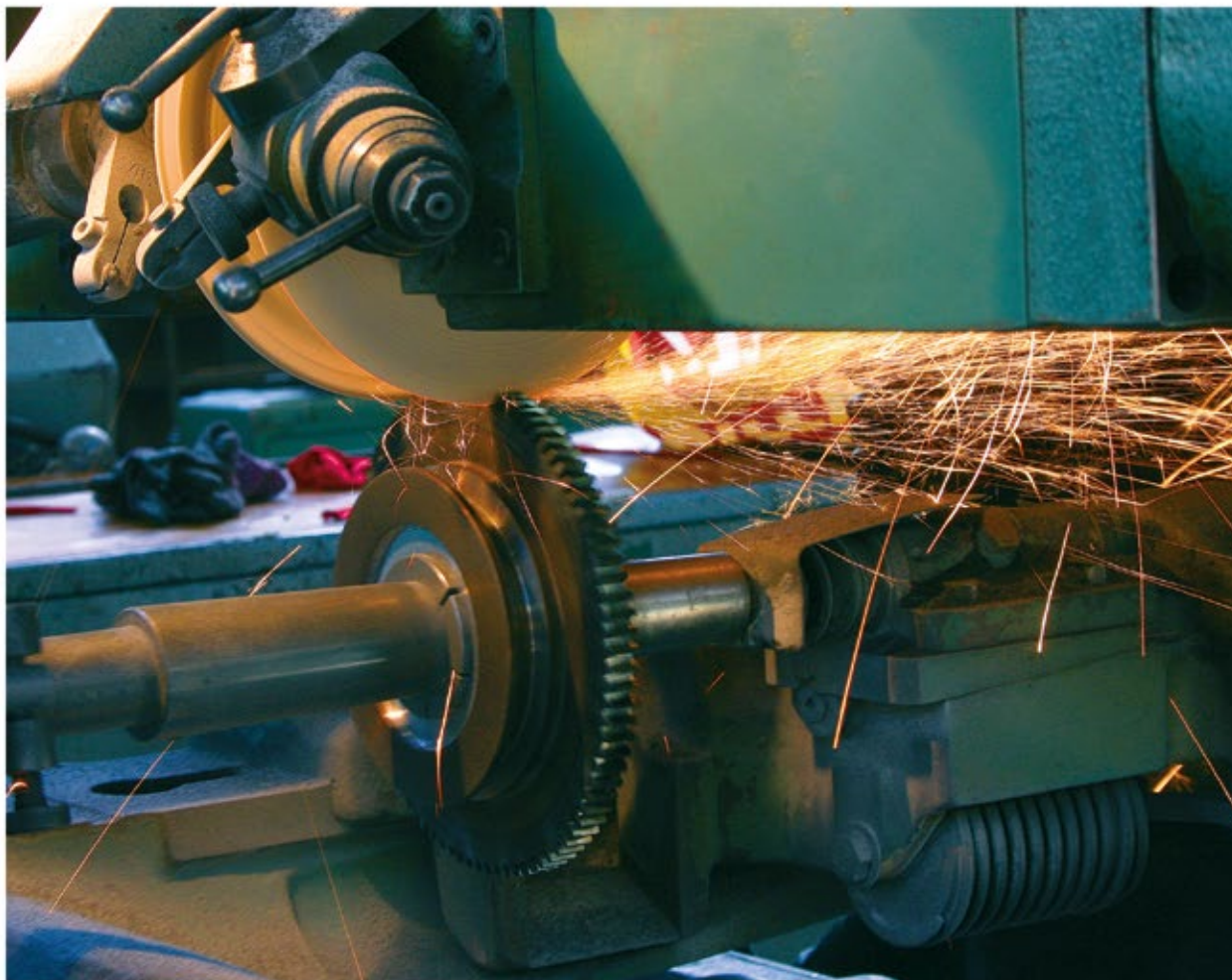
ZMM Sliven has adopted and certificated system for managing of quality, in accordance with requirements of EN ISO 9001.



# ZMM NOVA ZAGORA

ZMM Nova Zagora was established in 1970, under the name of Plant for the production of axles, shafts and gears wheels, to supply those parts to other companies producing metal and wood working machines.

In its development so far the company has gone through various stages of implementation, production and sale of parts, units, CNC machines and automated complexes with the engineering participation of companies within country and abroad.



ZMM Nova Zagora belongs to the ZMM Bulgaria Holding LTD, which is part of Industrial Holding Bulgaria.

ZMM Nova Zagora has extensive experience in the production of parts and units for machine tools. Its products list also includes complete units according to customers' specifications, as well as their own products with application in the woodworking industry, agriculture and machine building.

At the moment ZMM Nova Zagora is the county's leading manufacturer of chip conveyors for various CNC lathes and centers. They are characterized by reliability, their own drive and the options for individual or central control by the machine.

In 1998 ZMM Nova Zagora was certified according to ISO 9001 Quality Management System.

# LEYARMACH



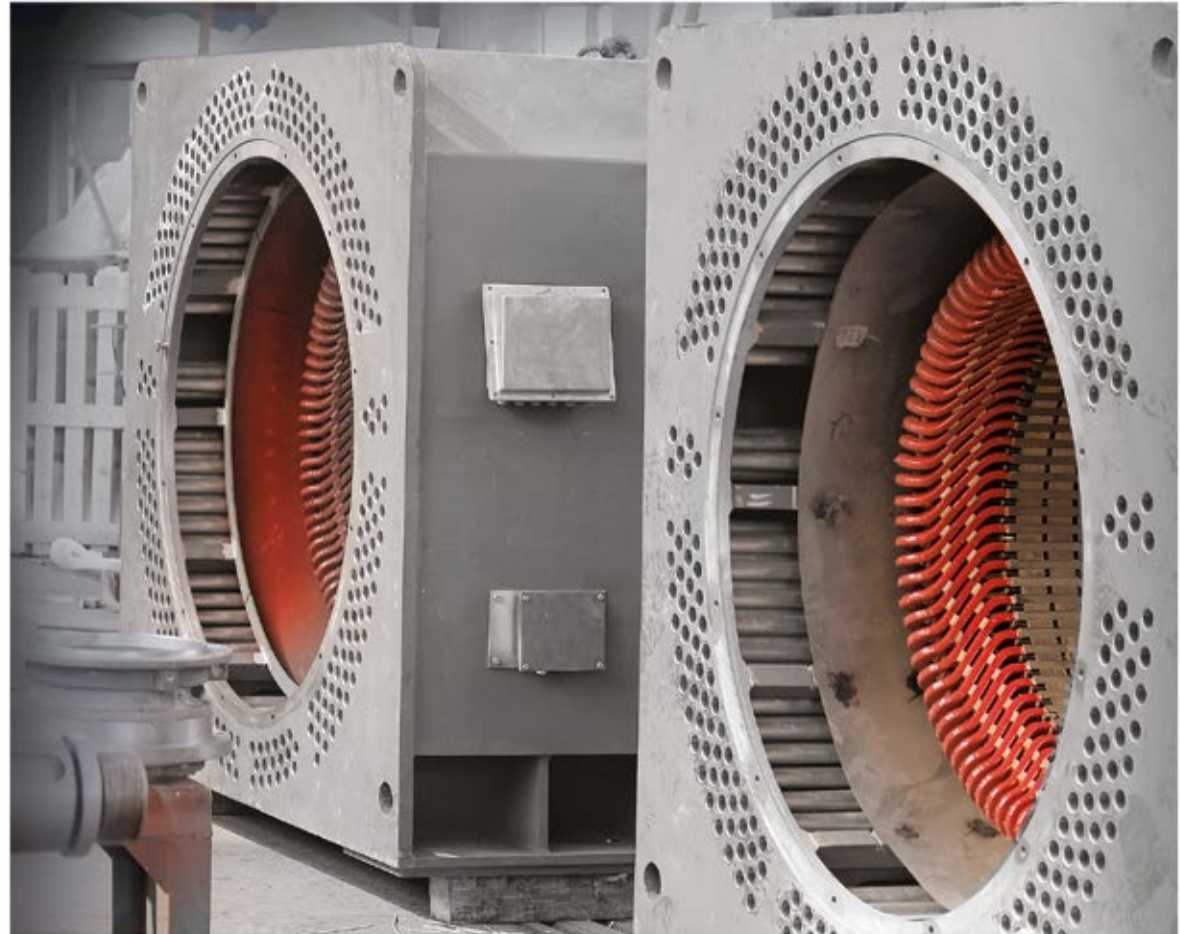
Leyarmach JSC – Sofia is a joint stock company with majority shareholder ZMM Bulgaria. It was founded in 2001.

Leyarmach JSC produces large variety of castings which constitute the full range of components for machine tools like bodies, bed slides, columns, tailstocks, boxes etc. After the reconstruction and modernization in 2008 of the melting facility with new inductotherm furnaces, Leyarmach is fully equipped with modern technologies. The production capacity of the foundry is 6000 tons per year.

Leyarmach JSC is specialized in production of high quality gray cast iron with a single weight from 50 to 10 000kg and castings of nodular cast iron with a single weight up to 5000kg and high degree of complexity.



# ELPROM ZEM



Elprom ZEM JSC is a global supplier of hydro generators, electric motors, turn-key electro-mechanical equipment and services for hydro power plants, pumping stations and irrigation systems. One of the founders of the electric industry and the largest manufacturer of rotating electric machines in Bulgaria, the company is your worldwide reliable partner. Continuous improvement, reliability, innovation, flexibility are just a few to describe our vision for success.



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