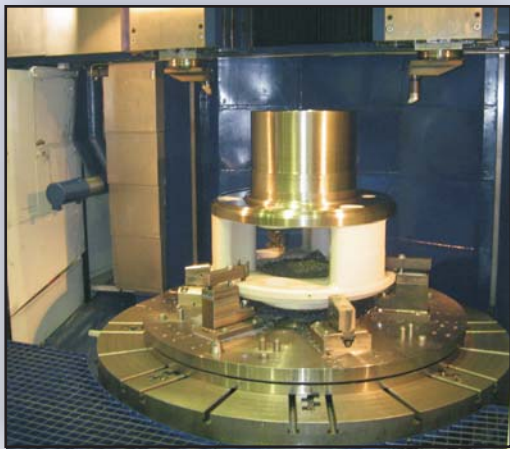




**S.C. UMARO S.A. ROMAN-ROMANIA**  
**TRADITION IN MANUFACTURING**  
**MACHINE-TOOLS SINCE 1916**



**SC UMARO SA ; 611118 ROMAN; MIHAI VITEAZUL NR.5; ROMANIA**  
**TEL: +40.233.741.485; +40.233.741.354; FAX: +40.233.741.354**  
**www.umaro.ro; e-mail:office@umaro.ro; export@umaro.ro**

# COMPANY PROFILE



- Over almost a century of good tradition and professional experience in delivering quality solutions demands, high technicality and complexity with modern facilities of great productivity of machine tools
    - conventional and CNC controlled vertical lathes (table diameter between 1.000-6.000 mm )
    - movable rotary tables
    - rotary tables
    - balls bearings working machines (for filling, grinding and lapping)
    - woodworking machines (over 30 types)
    - machines for metallurgical industry
    - machines and equipment according to the partner's documentation
    - after-sale service and spare parts
    - overhauls and modernization of machine tools
  - A full range of engineering services-starting with feasibility studies and detailed design, going through the fabrication, construction, erection and installation activities and ending with commissioning and training
  - A team of highly qualified and committed professionals capable of working out complete projects engineering.
  - Quality management System certified in accordance with the requirements of ISO 9001/2000 updated in March 2006.
- Our policy is based on the principle to offer only the finest quality solutions, products and services to our customers**
- Our goals are:**
- Full satisfaction of our customers requirements
  - Preservation of nature and provision of safe and healthy working conditions
  - Maintaining stable growth and expansion of our operations through continuous improvement of management and implementation of new technologies and expertise
  - Stimulation and motivation of our employees

## OVERVIEW

### Brief History

Our company was founded in 1916 in the town **Roman** as a state-owned production, erection and repair shop with a military character.

Since then, year by year it has been modernizing both its products and technical endowment.

At present our company executes products of high technicality and complexity with modern facilities of great productivity.

The staffs of 300 employees cover a large range of specialist's workers for machinings, welders, workers for heat treatment, dyers, technicians and engineers specialists.

Our society diagram comprises all compartments necessary for total autonomy from the point of view of technical conception and execution.

### Social Capital

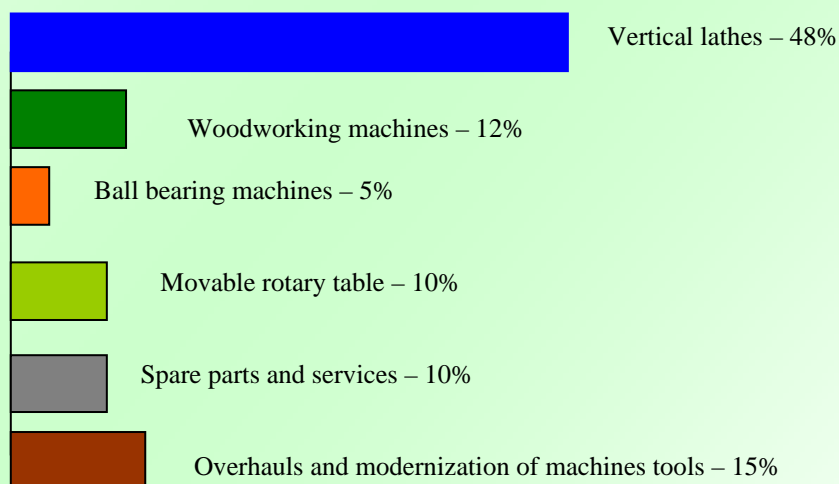
Type of capital: Private Romanian 100%

### Share Capital Structure & Ownership

89,541% - TCE 3 BRAZI SRL Piatra-Neamt/Romania

10,459% - Legal person's associates list

### Production Structure



## **BOARD OF DIRECTORS & MANAGEMENT STRUCTURE**

**PRESIDENT – Culita TARATA**

### **Board of Directors**

**Teodor Gh. Foldes– General Director**  
**Mihai Lipan– Technical Director**  
**Vasile Silviu Sava – Commercial Director**  
**Elena HUMA – Economical Director**

### **MESSAGE OF THE BOARD**

*Dear Partners,*

*In the conditions of intensive industrial development the Customers are looking for experienced and reliable professional partner who can satisfy the high requirements of modern production and be able to meet the actual standards for labour safety and environmental protection. For almost a century, UMARO has been building up its professional experience in order to offer quality technical solutions and provide to the customers a wide range of products and services that have already passed the test of time.*

*Today, our company is a reliable partner for both domestic and abroad companies having completed some of the most substantial investment projects.*

*Our team of high skilled and committed professionals is able to deliver complete project engineering including pre-commissioning and start-up operations.*

*From the references our clients have given us one can see that the various machine tools and installation works done so far meet the highest internationally acknowledged standards and regulations and the equipment turned out in our factory shows excellent performance characteristics.*

*The certificate of Compliance of our Quality Management System with the requirements of ISO 9001/2000 standard gives assurance of the quality of our work as well.*

*We are proud to emphasize that in recent years, thanks to the commitments and hard work of our employees, we have achieved remarkable results in the execution of all projects awarded to us.*

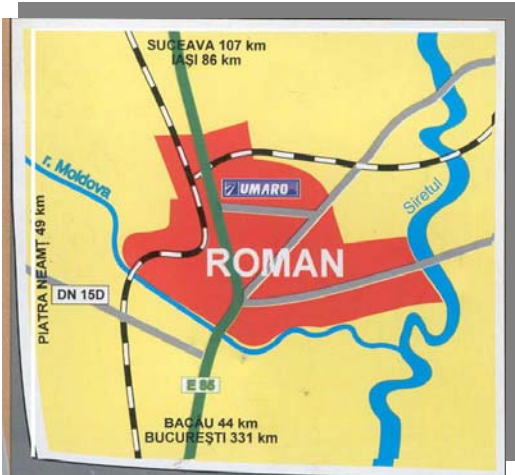
*We would like to thank our employees and business partners for their dedication and support.*

**Culita TARATA**  
President

**Teodor Gh. Foldes**  
General Director

## IDENTIFICATION DATA

Having the headquarters in Neamt County, Roman 611118, Mihai Viteazu Street  
Telephone: +40.233.741354; +40.233.741485; Fax. +40.233.742375  
e-mail: [office@umaro.ro](mailto:office@umaro.ro); [export@umaro.ro](mailto:export@umaro.ro); web site: [www.umaro.ro](http://www.umaro.ro)  
Registered in the Trade registry under the number J27/2/1991 from 1991-01-08  
Fiscal code: RO205387761 Organisation form: Joint Stock Company



**Roman** is a town located in the Northern-central parts of the region called Moldova, with an age certified by documents of over 600 years and an old industrial tradition.



## MAIN RANGE PRODUCTION

### CONVENTIONAL VERTICAL LATHES



• Conventional vertical turning lathes with the job maximum diameter between 1100 mm and 5300 mm, at request equipped with devices for: threading and taper turning, electromagnetic copying, grinding, mortising, with read-out display and various supports combinations (SC11, SC14, SC17, SC22, SC27, SC33, SC43, SC53)



#### STANDARD ACCESSORIES:

- Standard tool holders
- Devices for horizontality
- Special keys
- Lifting rings
- Set of 4 jaws
- Lighting installation
- Heavy duty pentagonal head manually locks
- Guards for table
- Set of Operation and Maintenance Manuals

#### SPECIAL ACCESSORIES:

- Taper turning and threading device
- Grinding device
- Electromagnetic copying device
- Cooling system
- Digital readout for 2 or 4 axes
- Feed interlocking device
- Full enclosure
- Chip conveyor
- Tool holders set (A ÷ P)
- Side head for SC11

#### OPTIONS:

- Balls screws for 2 or 4 axes
- Automatic turret head with 4 or 5 faces
- Left vertical working support for turning and milling operations and slow feed box for table with angle encoder for table
- Tool holders for milling
- Versions for max turning height
- Versions for max work piece weight
- The electrical, electronic, hydraulic and lubrication equipment can be made according to the request of the customer
- Faceplate with automatic gripping dies



TEHNICAL SPECIFICATION		unit	SC11	SC14	SC17
Max. swing diameter		mm	1100	1400	1650
Max. swing with side head			1000	1300	1550
Max. turning height (under the cross rail)					
<b>STANDARD</b>		<b>mm</b>	<b>800</b>	<b>1000</b>	<b>1200</b>
H (version)		mm	1050	1250	1450
2H(version)		mm	1300	1500	1700
3H (version)		mm	-	1750	1950
4H (version)		mm	-	-	2200
Table diameter		mm	900	1200	1450
Load capacity					
Tapered roller bearings (standard)		Kg	5000	6000	8000
Cross roller bearings (version)		Kg	-	9000	11000
Table speed range		r.p.m.	7-350	5-250	2-200
Power of main motor power		kW	(30);(45); 60	(45); 60	(45); 60
Right head vertical stroke		mm	760	760	760
Left head vertical stroke		mm	-	-	1000
Side head stroke:					
- horizontal		mm	510	650	700
- vertical		mm	680	1000	1100
Working feed range, axes X <sub>1</sub> , X <sub>2</sub> , Z <sub>1</sub> , Z <sub>2</sub>		mm/rot	0,05 ÷ 5	0,05 ÷ 5	0,05 ÷ 5
Cross rail vertical travel (standard)		mm	520	800	1000
Total weight of the machine		tons	11,5	16,5	20,5
Overall size (informative)		H L W	3800x 4100x 4000	4200x 4500x 4500	4500x 4500x 4700
HYDRAULIC COMPONENTS		-	REXROTH / ATOS / VICKERS / PARKER		
ELECTRICAL COMPONENTS		-	SIEMENS / SCHNEIDER - TELEMECANIQUE		

TEHNICAL SPECIFICATION		unit	SC22	SC27	SC33	SC43	SC53
Max. swing diameter		mm	2150	2630	3300	4250	5300
Max. swing with side head			2100	2600	3250	4200	5250
Max. turning height (under the cross rail)							
<b>STANDARD</b>		<b>mm</b>	<b>1500</b>	<b>1900</b>	<b>2300</b>	<b>2000</b>	<b>2000</b>
H (version)		mm	1750	2150	2550	2250	2250
2H(version)		mm	2000	2400	2800	2500	2500
3H (version)		mm	2250	2650	3050	2750	2750
4H (version)		mm	2500	2900	3300	3000	3000
5H(version)		mm	-	-	3550	3250	3250
6H(version)		mm	-	-	-	3500	3500
Table diameter		mm	2000	2500	3000	4000	4000 (5000)
Load capacity							
Tapered roller bearings (standard)		Kg	12000	15000	18000	18000	18000
Cross roller bearings (version)		Kg	25000	30000	30000	30000	30000
Hydrostatic sustentation bearing (version)		Kg	-	-	-	60000	80000
Table speed range		r.p.m.	1-140	1-112	1-90	1-90	1-90
Main motor power		kW	60	60; 71	60; 71	60; 71; 100	60; 71; 100
Right head vertical stroke		mm	760	760	760	760	760
Left head vertical stroke		mm	1200	1200	1200	1200	1200
Side head stroke:							
- horizontal		mm	700	900	1000	1000	1000
- vertical		mm	1400	1800	2200	1900	1900
Working feed range, axes X <sub>1</sub> , X <sub>2</sub> , Z <sub>1</sub> , Z <sub>2</sub>		mm/rot	0,05 ÷ 5	0,05 ÷ 5	0,05 ÷ 5	0,05 ÷ 5	0,05 ÷ 5
Cross rail vertical travel (standard)		mm	1200	1600	2000	1800	1800
Total weight of the machine		tones	32	40	48	56	62
Overall size (informative)		H L W	4600x 4300x 4200	5000x 4800x 4800	5400x 5300x 5600	5400x 5800x 6600	5400x 6300x 7700
HYDRAULIC COMPONENTS		-	REXROTH / ATOS / VICKERS / PARKER				
ELECTRICAL COMPONENTS		-	SIEMENS / SCHNEIDER - TELEMECANIQUE				

## **CNC CONTROLLED VERTICAL LATHES**

- **CNC vertical lathes for turning operations with turret head models SC11CNC/CR-SC53CNC/CR or with automatic tool changer ATC models SC11CNC/MS-SC53CNC/MS**



### **STANDARD ACCESSORIES:**

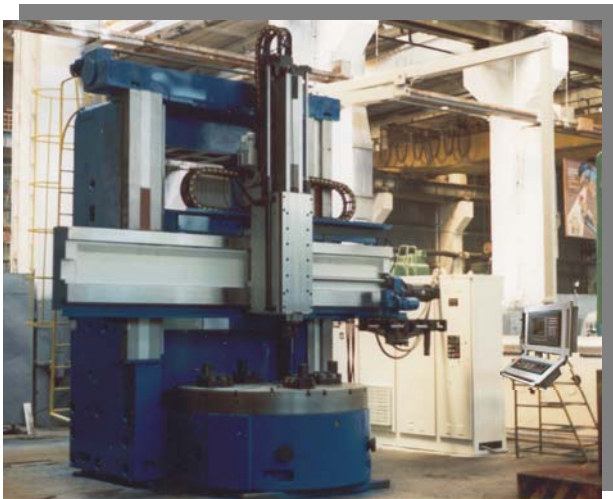
- Standard tool holders for turning
- Set of 4 jaws
- Guards for table
- Lighting installation
- Maintenance Manuals operators manual, CNC manual, programming instruction, electrical wiring diagram, PLC program

### **SPECIAL ACCESSORIES:**

- Special tool holders for turning
- External cooling system
- Cooling system through tools
- Lift platform
- Chip conveyor
- Grinding device
- Full enclosure
- Set of hard jaws
- Set of soft jaws
- Renishaw tool probe
- Renishaw part touch probe
- Tele-diagnostic service
- Guard for guide ways of the cross rail
- Guard for guide ways of the cross columns

### **OPTIONS:**

- Hidrostatic guideways for vertical working support
- Left vertical working support for turning with ATC-12 or 16 seats for SC27; 33; 43; 53 series
- Faceplate with automatic gripping dies for SC11; 14; 17; 22 series
- Automatic tool changers with 16 tools.
- Versions for max turning height; max work piece weight; table speed range; RAM travel; RAM section; main motor power
- Pallet system for SC 11; 14; 17 series.
- The electrical, electronic, hydraulic and lubrication equipment can be made according to the request of the customer.



TEHNICAL SPECIFICATION	unit	SC11 CNC/MS	SC14 CNC/MS	SC17 CNC/MS	SC22 CNC/MS	SC27 CNC/MS	SC33 CNC/MS	SC43 CNC/MS	SC53 CNC/MS
<b>STRUCTURE</b>		<b>SINGLE COLUMN</b>			<b>DOUBLE COLUMN</b>				
Max. swing diameter	mm	1100	1400	1650	2200	2650	3300	4300	5300
Max. turning height (under the cross rail)									
-2H (version)	mm	700	900	1100	1400	1800	2100	1800	1800
-H (version)	mm	900	1100	1300	1600	2000	2300	2000	2000
<b>STANDARD</b>	mm	<b>1200</b>	<b>1400</b>	<b>1600</b>	<b>1900</b>	<b>2300</b>	<b>2600</b>	<b>2300</b>	<b>2300</b>
H (version)	mm	-	1600	1800	2100	2500	2800	2500	2500
2 H (version)	mm	-	-	-	2400	2800	3100	2800	2800
3H (version)	mm	-	-	-	-	-	3300	3000	3000
4H (version)	mm	-	-	-	-	-	-	3300	3300
Table diameter	mm	900	1200	1450	2000	2500	3000	4000	4000 (5000)
Load capacity									
Tapered roller bearing (standard)	Kg	5000	6000	8000	12000	15000	18000	18000	18000
Crossed roller bearing (version)	Kg	7000	7000	11000	25000	30000	30000	30000	30000
Hydrostatic sustentation bearing	Kg	-	-	-	-	-	-	60000	80000
Table speed range (infinitely variable)									
- Standard	r.p.m.	3÷350	2÷250	2÷200	1÷143	1÷112	1÷90	1÷90	1÷90
- Optional	r.p.m.	3÷500	2÷400	2÷300	1÷250	1÷150	1÷120	1÷110	-
Power of main drive motor									
- Standard	kw	40;45	40;45	45;51	55	55	55;60	55;60	55;60
- Optional	kw	51;55;60	51;55;60	55;60	60	60	71	71;100	71;100;132
Vertical travel of RAM Z axis									
- Standard	mm	1000	1250	1250	1250	1250	1500	1500	1500
- Optional	mm	1200	1500	1500	1500	1500	1800	1800	1800
Section of RAM									
- Standard	mm	225x225	225x225	225x225	225x225	250x250	225x225	250x300	250x300
- Optional	mm	-	-	250x250	250x250	250x250	250x250	250x250	300x300
Feeds in X axis Z axis (infinitely variable)									
- Cutting feed range	mm/min	1÷6000	1÷6000	1÷6000	1÷6000	1÷6000	1÷6000	1÷6000	1÷6000
- Rapid feed in X axis Z axis	mm/min	1÷10000 (12000)	1÷10000 (12000)	1÷10000 (12000)	1÷8000 (12000)	1÷8000 (12000)	1÷8000 (12000)	1÷8000 (12000)	1÷8000 (12000)
Automatic tool changer storage legations	No	12	12	12(16)	12(16)	12(16)	12(16)	12(16)	12(16)
Total weight of the machine	Tons	12	16	22	32	39	45	55	62
Overall size (informative)	H L W	5100 4000 3600	5500 4500 4200	5800 5000 4500	6500 7000 6000	7000 7000 8000	7600 8000 9000	7300 10000 9000	7300 11000 9000
CNC	-	SIEMENS / GE - FANUC / FAGOR							
HYDRAULIC COMPONENTS	-	REXROTH / ATOS / VICKERS / PARKER							
ELECTRICAL COMPONENTS	-	SIEMENS / SCHNEIDER - TELEMECANIQUE							
FEED BACK SYSTEM	-	HEIDENHAIN							



## CNC VERTICAL BORING MILLS

- CNC vertical turning boring mills with CNC control, automatic tool changer ATC magazine and working head for turning and milling operation models SC11CNC/MSF, SC14CNC/MSF, SC17CNC/MSF, SC22CNC/MSF, SC33CNC/MSF, SC43CNC/MSF, SC53CNC/MSF

### **STANDARD ACCESSORIES:**

- Standard tool holders for turning and milling
- Set of 4 jaws
- Guards for table
- Slow feed box
- Lighting installation
- Maintenance Manuals operators manual, CNC manual, programming instruction, electrical wiring diagram, PLC program

### **SPECIAL ACCESSORIES :**

- Special tool holders for turning
- Tool holders for milling – boring
- Angular milling head
- Universal milling head
- Grinding device
- External cooling system
- Cooling system through tools
- Lift platform
- Chip conveyor
- Full enclosure
- Set of hard jaws
- Set of soft jaws
- Renishaw tool probe
- Renishaw part touch probe
- Guard for guide ways of the columns
- Pick-up station

### **OPTIONS:**

- Hidrostatic guideways for vertical working support.
- Left vertical working support for turning – milling – boring with ATC-12 or 16 seats for SC22; 27; 33; 43; 53 series
- Faceplate with automatic gripping dies for SC 11; 14; 17; 22 series
- Automatic tool changers with 16; 24; 48; 60 tools
- Versions for max turning height; max work piece weight; table speed range; RAM travel; RAM section; main motor power
- Main drive with Siemens “master-slave” system.
- Pallet system for SC 11;14;17series.
- The electrical, electronic, hydraulic and lubrication equipment can be made according to the request of the customer.



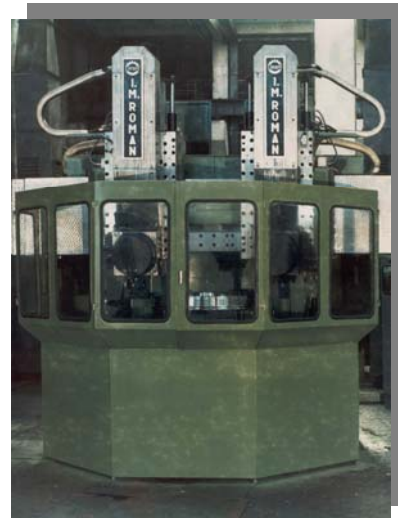
TEHNICAL SPECIFICATION	unit	SC11 CNC/MSF	SC14 CNC/MSF	SC17 CNC/MSF	SC22 CNC/MSF	SC27 CNC/MSF	SC33 CNC/MSF	SC43 CNC/MSF	SC53 CNC/MSF	
<b>STRUCTURE</b>		<b>SINGLE COLUMN</b>			<b>DOUBLE COLUMN</b>					
Max. swing diameter	mm	1100	1400	1650	2200	2650	3300	4300	5300	
Max. turning height (under the crossrail)										
-2H (version)	mm	700	900	1100	1400	1800	2100	1800	1800	
-H (version)	mm	900	1100	1300	1600	2000	2300	2000	2000	
<b>STANDARD</b>	<b>mm</b>	<b>1200</b>	<b>1400</b>	<b>1600</b>	<b>1900</b>	<b>2300</b>	<b>2600</b>	<b>2300</b>	<b>2300</b>	
H (version)	mm	-	1600	1800	2100	2500	2800	2500	2500	
2 H (version)	mm	-	-	-	2400	2800	3100	2800	2800	
3H (vercorzilecorzsiön)	mm	-	-	-	-	-	3300	3000	3000	
4H (version)	mm	-	-	-	-	-	-	3300	3300	
Table diameter	mm	900	1200	1450	2000	2500	3000	4000	4000 (5000)	
Load capacity										
Tapered roller bearing (standard)	Kg	5000	6000	8000	12000	15000	18000	18000	18000	
Crossed roller bearing (version)	Kg	7000	7000	11000	25000	30000	30000	30000	30000	
Hydrostatic sustentation bearing	Kg	-	-	-	-	-	-	60000	80000	
Table speed range (infinitely variable)										
- Standard	r.p.m.	3÷350	2÷250	2÷200	1÷143	1÷112	1÷90	1÷90	1÷90	
- Optional	r.p.m.	3÷500	2÷400	2÷300	1÷250	1÷150	1÷120	1÷110	-	
Table slow feed range	°/min	0,01-5	0,01-4,5	0,01-4	0,01-3,5	0,01-3	0,01-2,5	0,01-2	0,01-2	
Power of main drive motor										
- Standard	kW	40;45	40;45	40;51	55	55	55;60	55;60	55;60	
- Optional	kW	51;55;60	51;55;60	55;60	60;71	60;71	71	71;100	71;100;132	
Vertical travel of RAM Z axis										
- Standard	mm	1000	1250	1250	1250	1250	1500	1500	1500	
- Optional	mm	1200	1500	1500	1500	1500	1800	1800	1800	
Section of RAM										
- Standard	mm	225x225	225x225	225x225	250x250	250x250	250x300	250x300	250x300	
- Optional	mm	-	-	250x250	-	-	-	-	300x300	
Feeds										
- Cutting, in X and Z axis (infinitely variable)	mm/min	1÷6000	1÷6000	1÷6000	1÷6000	1÷6000	1÷6000	1÷6000	1÷6000	
- Rapid feed in X and Z axis	mm/min	1÷10000 (12000)	1÷10000 (12000)	1÷10000 (12000)	1÷8000 (12000)	1÷8000 (12000)	1÷8000 (12000)	1÷8000 (12000)	1÷8000 (12000)	
Live spindle (milling boring)										
- Cone	ISO(HS K100)50	ISO(HSK 100) 50	ISO(HSK 100) 50	ISO(HSK 100) 50	ISO(HSK 100) 50	ISO(HSK 100) 50	ISO(HSK 100) 50	ISO(HSK 100) 50	ISO(HSK100) 50	
- Spindle rotation speed standard	r.p.m.	2500	2500	2500	2500	2500	2500	2500	2500	
- Spindle rotation speed optional	r.p.m.	3000	3000	3000	3000	3000	3000	3000	3000	
- AC motor	kW	15(11;18)	15(11;18);2 2	18(22);28	18(22);28	18(22);28	18(22;28);3 2	18(22;28);3 32	18(22;28;32;37 )	
Automatic tool changer storage locations	No	12	12;(16)	12;(16)	12;(16)	12;(16)	12;(16)	12;(16)	12;(16)	
Total weight of the machine	tons	14	18	24	34	41	47	58	68	
Overall size (informative)	H L W	mm	5100x 4000x 3600	5500x 4500x 4200	5800x 5000x 4500	6500x 7000x 6000	7000x 7000x 8000	7600x 8000x 9000	7300x 10000x 9000	7300x 11000x 9000
CNC	-	SIEMENS / GE - FANUC / FAGOR								
HYDRAULIC COMPONENTS	-	REXROTH / ATOS / VICKERS / PARKER								
ELECTRICAL COMPONENTS	-	SIEMENS / SCHNEIDER - TELEMECANIQUE								
FEED BACK SYSTEM	-	HEIDENHAIN								



- Small vertical turning lathes families with one or two faceplates, conventional or CNC controlled, with the job maximum diameter between 320 mm and 800 mm
- Vertical turning lathes with one pillar, fixed or movable, with the job maximum diameter between 6300 and 12500 mm SCM63, SCM80, SCM100, SCM125 conventional with DRO or CNC controlled



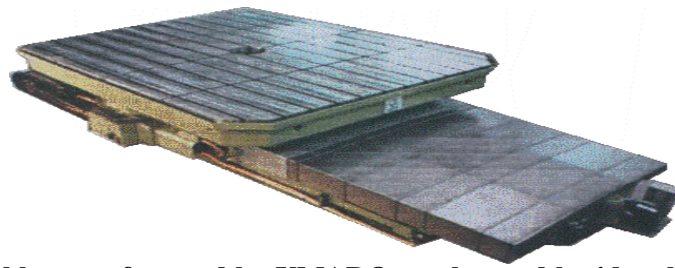
- CNC controlled vertical turning lathes with fixed cross rail for wagon wheels turning model SC17TF3/CNC or conventional with copying model SC17TF2/CO2



- CNC controlled Lathe for profiling wagon wheels mounted on the axle model SX1250CNC



## MOVABLE ROTARY TABLE



The movable rotary table manufactured by UMARO can be used beside a horizontal boring and milling machine independently or CNC controlled.

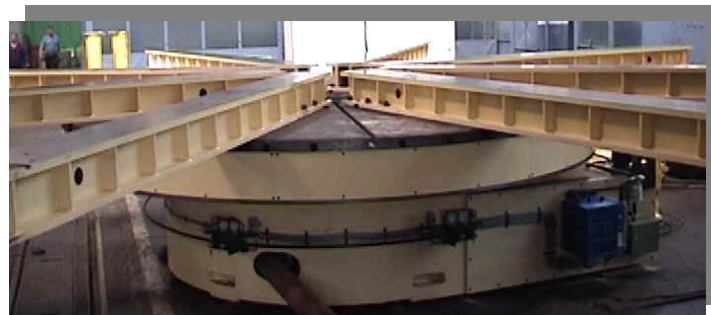
### Standard features

- HEIDENHAIN measuring systems for V and B axis
- Ball screw for V axis
- SIEMENS FANUC AC motors for V and B axis
- Hydraulic clamping devices on V and B axis

The main technical characteristics are:

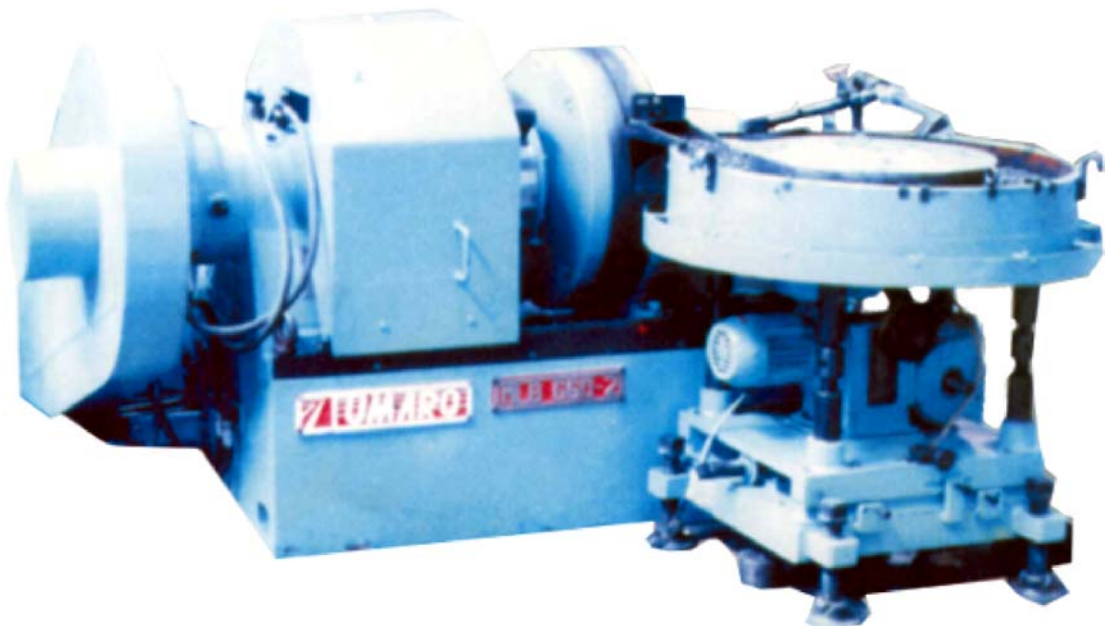
- Maximum load on table centre	to	40	60	100 (optional)
- Table size	mm	2500 x 2500	3000 x 3000	3500 x 3500 (4000x4000)
- Longitudinal travel of slide	mm	2500	2500	3000 (4500)
- Work feed on V axis	mm/min	4-4000	4-4000	4-4000
on B axis	mm/min	0,001-1,29	0,0001-1,15	0,0001-1
Rapid feed	mm/min	4000	4000	4000

## ROTARY TABLE



## BALL BEARING WORKING MACHINES

- Ball bearing working machines Ø3-Ø8: MPB500 (filing), MRB660 (grinding), MLP660 (lapping)
- Up-dated ball bearing working machines Ø3-Ø8: MPB660-2 (filing), MRB660-2 (grinding), MLP660-2 (lapping)
- Ball bearing working machines Ø6-Ø25,4: MPB800HM (filing), MRB800HM (grinding), MLB800HM (lapping)
- Ball bearing working machines Ø25,4-Ø50,8: MPB915 (filing), MRB915 (grinding), MLP915 (lapping)



## WOODWORKING MACHINES



- Combined machines for woodworking • Planing machines • Thicknessing machines • Spindle moulding machines • Routers • Horizontal boring and mortising machines • Circular saws • Band saws • Pendulum circular saws • Ripping circular saws • Planer moulders • Wood lathes • Sanding machines • Particle exhaustors • Vertical mill saws • Multiblades circular saws • Parquet working lines • Multiple boring machines • Board gluing presses • Saw blades sharpening machines • Furniture panel working machines • Veneer peeling and cutting out machines

## OVERHAULS AND MODERNIZATION OF MACHINE TOOLS

- Our company executes overhauls and modernizations any kind of machine tools.
- Based on our customers request the overhauls and modernizations activities are performed using well-made mechanical parts and latest hydraulic, electric, electronic components and CNC controls from world known companies such as REXROTH, SIEMENS, SCHNEIDER, RITTAL, HEIDENHEIN and CNC controls SIEMENS-SINUMERIK 840D or FANUC.

### BEFORE



### AFTER





## CERTIFICATE FOR EXHIBITIONS PARTICIPATION



## REFERENCE LIST

To Whom It May Concern

Please find below the reference list with Customers to whom UMARO make Vertical Turning Lathes have been supplied in the last years.

### CNC CONTROLLED VERTICAL LATHES

- NUOVA LOMBARMET Spa (Italy)  
Model SC33CNC/MS - delivered 1997
- FERBOSSA S.L. (Spain)  
Model SC27CNC - delivered 1998-2003
- RECTIVAL (France)  
Model SC22CNC/MS - delivered 2000
- MACHINE TOOLS Srl (Italy)  
Model SC17CNC/MS-H - delivered 2001
- RILE GMBH. (Germany)  
Model SC27CNC/MS2-H - delivered 2008
- PROMUS SP.ZO.O. (Poland)  
Model SC33CNC/MS - delivered 2009
- PROMUS SP.ZO.O. (Poland)  
Model SC53CNC/MS - delivered 2009

### CNC VERTICAL BORING MILLS

- INDUSTRIA DOHMEN (Austria)  
Model SC43CNC/MSF-2 - delivered 2002
- AH BOLTE A/S (Denmark)  
Model SC43CNC/MSF-2 - delivered 2003
- CHIMREMONTSTROY JSC. for NEK EAD PLOVDIV (Bulgaria)  
Model SC43CNC/MSF - delivered 2005
- PETROS BEKIARIS S.A. (Greece)  
Model SC17CNC/MSF - delivered 2007
- ENERCON GMBH. (Germany)  
Model SC22CNC/MSF2 - delivered 2008

### CONVENTIONAL VERTICAL LATHES

- MITSUBIHI HEAVY INDUSTRIES, ELECTRICITY OF VIETNAM (Vietnam)  
Model SC14CC - delivered 2000
- METAL-CARBON (Hungary)  
Model SC27-2H - delivered 2001
- METAL-CARBON (Hungary)  
Vertical Lathe type SC33-2H - delivered 2006
- METAL-CARBON (Hungary)  
Vertical Lathe type SC33CC - delivered 2007
- GEMCO INTERNATIONAL B.V. (Netherlands)  
Model SC27 - delivered 1999
- ARAB POTASH CO. LTD. (Jordan)  
Model SC27/33H-F - delivered 1998
- MARIO CARNAGHI Spa (Italy)  
Model SC43-6H - delivered 1999
- ENGRANAJES CASTILIA S.L. (Spain)  
Model SC33CC - delivered 2002
- TORNERIA R & B SNC (Italy)  
Model SC22-SH – delivered 2002
- MACH. TOOLS DI MOSCARDI (Italy)  
Model SC22-SH – delivered 2002
- PETROLERA AMERIVEN, MAQUINARIAS FELCO C.A. (Venezuela)  
Model SC17CC - delivered 2003 and 2004
- TEHERAN SUFA Co. Ltd. (Iran)  
Model SC14/SH, SC17-2H/SH and SC 27/SH

- FERBOSSA S.L. (Spain)  
Model SC33 (2 sets) and SC43 (2 pcs.) - delivered 1998-2003
- PETRO PARS CO. (Iran)  
Model SC14CC - delivered 2004
- EKC-ERNST KOMROWSKI (Germany)  
Model SC14CC - year 2004
- INDENTO PRIVATE LTD. as agent (India)  
Model SC11CC, SC-17CCMGH, SC17CCH, SC17 and SC33H - delivered 1993 -1995
- AUDCO INDIA LTD. (India)  
Model SC33 - delivered 2003
- AUDCO INDIA LTD. (India)  
Model SC33-2H - delivered 2004
- TENAGA NASIONAL BERHAD, Power Plant, Port Dixon (Malaysia)  
Model SC14CC - delivered 2004
- MARIO CARNAGHI Spa. (Italy)  
Model SC22 - delivered 2004
- SKET MASCHINEN-und ANLAGENBAU GMBH. (Germany)  
Model SC22CC - delivered 2007
- SKET MASCHINEN-und ANLAGENBAU GMBH. (Germany)  
Model SC53CC - delivered 2008

#### **SINGLE COLUMN VERTICAL BORING & TURNING LATHES**

Model SCM63CNC (3 sets, CNC machine) during 1986 - 1987

Model SC40/65TF2-CNC ( 3 sets, CNC machine) during 1987

- STANKOIMPORT (Russia)  
Model SCM100 (2 sets) - delivered 1984 (turning dia. 10000 mm; workpiece 100 tons)
- C.I.T.I. Srl (Italy)  
Model SCM80 - delivered 1995 (turning dia. 8000 mm; workpiece 100 tons)
- BAZAN FACTORIA NAVAL CTRA (Spain)  
Model SCM100CNC/F (CNC machine) delivered 2000
- ENGEF BANGALORE (India)  
Model SCM63 - delivered 1991 (turning dia. 6300 mm; workpiece weight 100 tons)

#### **VERTICAL TURNING LATHES & MACHINES ON SPECIAL REQUEST**

##### ITALY

- SC22CNC/MS-G (machine prepared to get CNC put on) – delivered 1999
- SC43-6H (complete mechanical part) – delivered 1999
- SC40/50 TF-GE (complete mechanical part) – delivered 2002
- SC17CNC/MS-G (machine prepared to get CNC put on) – delivered 2003
- SC22-4S (mechanical part) – delivered 2004
- SC43CC-4H (mechanical part) – delivered 2004
- Vertical Lathe type TGP50/65 for MARIO CARNAGHI s.p.a. – delivered 2005

##### U.K.

- CNC Rotary table PHV-ACNE 8/800 – delivered 2001
- CNC Rotary table PHV-ACNE 8/1000 – delivered 2001
- CNC Rotary table PHV-ACNE 8/1000/SQ – delivered 2001

##### GERMANY

- CNC Rotary table RT50CNC – delivered 2001

##### GREECE

- Wheels profiling VTL model SX 1250 CO2 – delivered 2005

##### INDIA

- CNC Vertical Boring Mills type SC14CNC/MSF – delivered 2005
- CNC Vertical Boring Mills type SC18CNC/MSF – delivered 2005
- CNC Rotary table type RT150CNC – delivered 2006
- CNC Rotary table type RT150CNC-S – delivered 2006

##### HUNGARY

- Conventional Vertical Lathe type SC33-2H – delivered 2006

##### AUSTRIA KLINGER Fluid Control GmbH. Am Kanal 8-10, A-2352 Gumpoldskirchen

- Rotating pieces machine ROT.1500 – delivered 2005

## TECHNICAL ENDOWMENTS

### Boring and Milling machine WOTAN B180

- table size: 2.500 x 3.000 mm;
- max. weight in the table: 30 to.

### Boring and Milling machine WOTAN B120

- table size: 1.000 x 1.250 mm;
- max. weight in the table: 20 to.



### Boring and Milling machine MITSUBISHI type MAF280

- table size: 3.500 x 3.500 mm;
- max. weight in the table: 30 to.

### Boring and Milling machine AF150

- table size: 1.500 x 1.800 mm;
- max. weight in the table: 15 to.

### Boring and Milling machine AF125

- table size: 1.250 x 1.250 mm;
- max. weight in the table: 4 to.

### Boring and Milling machine AF160YN

- table size: 1.600 x 1.800 mm;
- max. weight in the table: 10 to.

### Drilling machine DEVLIEG type DE672

- table size: 900 x 1.800;
- max. weight in the table: 5 to.

### Milling machine TOS KURIM type FC63SCA-H = 2 pcs.

- table size: 630 x 2.240 mm;
- vertical travel head: 1.110 mm;
- horizontal travel head: 4.000 mm;



### Milling machine TOS KURIM

- table size: 1.000 x 4.000 mm;
- vertical travel head: 630 mm;
- horizontal travel head: 1.500 mm;

### Milling machine FLP1000 KOLLMANN Licence = 3 pcs.

- table size: 5.440 x 1.000
- max. weight in the table: 5 to.

### Boring and Milling machine SKODA type W200

- max. horizontal travel of the head: 1.600 mm;
- max. vertical travel of the head: 4.000 mm;

**Milling frame machine LINNE type SL232F80**

- table size: 2.500 x 8.000 mm;
- max. weight in the table: 80 to.

**Milling frame machine LINNE type SL236F100**

- table size: 3.200 x 10.000 mm;
- max. weight in the table: 100 to.

**Milling frame machine LINNE type SL232F100**

- table size: 4.000 x 10.000 mm;
- max. weight in the table: 30 to.

**Machining centre for boring and milling CERUTTI**

- palette table system;
- tools magazine with 64 pos.
- V axis travel: 600 mm;
- W axis travel: 1.000/1.500 mm;
- Z axis travel: 900 mm;



**Gear wheels machine SHIBAURA**

- max. diam. 3.500 mm;
- max. module: 20

**Gear wheels machine TOSHIBA type HH250**

- max. diam. 2.500 mm;
- max. module: 30



**Gear wheels in circle Oerlikon**

- max. diam. 500 mm
- max. module: 10

**Grinding machine for guideways Waldrich Coburg**

- table size: 4.000 x 8.000 mm.
- max. weight in the table: 20 to.

**Grinding machine for guideways FAVRETO Italy**

- max. grinding length: 4.000 mm.
- distance between columns: 1.520 mm.

**Grinding machine for gear wheels Reishauer**

- max. diam. 500 mm;
- max. module: 20

**Grinding machine for gear wheels NILLES type ZSTZ315**

- max. diam. 450 mm;
- max. module: 10

**Vertical Lathe BERTHIEZ**

- table diam. 8.000 mm;
- max. weight in the table: 160 to.

**Special Lathe for threading SCHAERER type UD630**

- turning diameter: 500 mm;



- max. length turning: 4.000 mm;

**Special Lathe for threading BURGSMULLER type WM220**

- max. turning diameter: 220 mm;
- max. turning length: 5.000 mm;

**Machine for depth boring MGA250**

- max. boring diameter: 250 mm;
- max. boring length: 4.000 mm;



**Vertical turret Lathe UMARO type SC22CC**

- max. swing diameter: 2.150 mm;
- max. turning height: 1.500 mm;

**Vertical turret Lathe with CNC, UMARO type SC22CNC/MS**

- max. swing diameter: 2.150 mm;
- max. turning height: 1.500 mm;

**Vertical Lathe with fixed crossrail UMARO type SV1,5 = 2 Pcs.**

- max. turning diameter: 500 mm;
- max. turning height: 200 mm;

**Vertical Lathe with fixed crossrail UMARO type SV2,5 = 2 Pcs.**

- max. turning diameter: 700 mm;
- max. turning height: 400 mm;

**Machining centre YBM Hungary**

- table size: 1.000 x 1.000 mm;
- X axis travel: 1.200 mm;
- Y axis travel: 1.000 mm;
- Z axis travel: 1.000 mm;

**Machining centre FOREST France, type CU8ALM**

- table size: 1.000 x 1.000 mm;
- X axis travel: 1.250 mm;
- Y axis travel: 1.000 mm;
- Z axis travel: 800 mm;
- max. weight in the table: 3 to.

**Machining centre with rotary table NC, type CPFH500**

- table diameter: 630 mm;
- X axis travel: 700 mm;
- Y axis travel: 600 mm;
- Z axis travel: 600 mm;
- max. weight in the table: 0,83 to.



**Normal Universal horizontal lathes = 25 pcs.**

- max. turning diameter: 800 mm;
- max. turning length: 4.000 mm;

**Universal grinding machines: 5 pcs.**

**Universal milling machines: 10 pcs.**



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