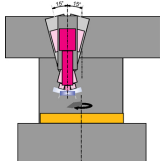


Single column technical specifications

Modulo MRV Series

		MRV 50	MRV 75	MRV 100	MRV 120	MRV 160
Working capacity	Max Grinding external diameter x height (standard wheel) mm	600X600	850X600	1100X600	1300X600	1700X600
	Min Int grinding diameter x depth (standard wheel) mm	600x600 (with no extension)				
	Min Grinding diameter x depth with extensions mm	100x350 ÷ 200x450 ÷ 300x500 (different extensions on request)				
	Max. Grinding end face height (std wheel) mm	800				
Vertical Spindle Head	Power Kw	5,5		7,5		
	STD wheel dimension Min. - max diameter mm	140 ÷ 200		180 ÷ 250		
	Wheel dimension with extension Min. - max diameter mm	22 ÷ 100		40 ÷ 125		
	Speed (min. - max.) rpm	3000 ÷ 18000		2000 ÷ 10000		
Rotary table	Diameter mm	500	750	1000	1250	1500
	Speed (automatically adjustable with relation to position of the Y axis) rpm	10 ÷ 200		5 ÷ 150		5 ÷ 100
	Load max (without magnetic chuck) Kg	650	1100	1600	2000	2400
	Load max (with magnetic chuck) Kg	500	750	1000	1250	1500
Cross axis head	Rapid speed m/min	15				
	Min. Programmable step feed mm	0,001				
	Working travel mm	1300		2050		
	Max travel mm	1375		2125		
Vertical axis head	Rapid speed m/min	15				
	Min. Programmable step feed mm	0,001				
	Working travel mm	800 ÷ 1200 option				
	Max travel mm	825 ÷ 1225 option				
Dimensions	LENGTH mm	2550		3050		3300
	WIDTH mm	1875		2125		2250
	HEIGHT mm	3500		3900		4400
	MACHINE WEIGHT Kg. (approx)	7500	8500	10000	12000	14000
	POWER REQUIREMENT Kw. (approx)	40		50		

Dimensions, Weight, and Power may vary subject to optional equipment.

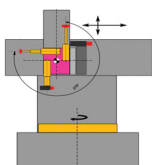


Single column technical specifications

Modulo MRV/S Series

		MRV/S 50	MRV/S 75	MRV/S 100	MRV/S 120	MRV/S 160
Working capacity	Max Grinding external diameter x height (standard wheel) mm	600X600	850X600	1100X600	1300X600	1700X600
	Min Int grinding diameter x depth (standard wheel) mm	600x600 (with no extension)				
	Min Grinding diameter x depth with extension mm	100x350 ÷ 200x450 ÷ 300x500 (different extensions on request)				
	Max. Grinding end face height (std wheel) mm	800				
Vertical Spindle Head	Power Kw	5,5		7,5		
	STD wheel dimension Min. - max- external diameter mm	140 ÷ 200		180 ÷ 250		
	Wheel dimension with extension Min. - max- external grinding mm	22 ÷ 100		40 ÷ 125		
	Speed (min. - max.) rpm	3000 ÷ 18000		2000 ÷ 10000		
Rotary table	Diameter mm	500	750	1000	1250	1500
	Speed (automatically adjustable with relation to position of the Yaxis) rpm	10 ÷ 200		5 ÷ 150		5 ÷ 100
	Load max (without megnetic chuck) Kg	650	1100	1600	2000	2400
	Load max (with magnetick chuck) Kg	500	750	1000	1250	1500
Cross axis head	Rapid speed m/min	15				
	Min. Programmable steep feed mm	0,001				
	Working travel mm	1525		2025		2275
	Max travel mm	1375		2125		2350
Vertical axis head	Rapid speed m/min	15				
	Min. Programmable step feed mm	0,001				
	Working travel mm	800 ÷ 1200 option				
	Max travel mm	825 ÷ 1225 option				
	Angle Swivelling degrees	+/- 20°				
	Min. Indexing angle degrees	0° 10'				
Dimensions	LENGTH mm	2950		3450		3700
	WIDTH mm	1875		2125		2250
	HEIGHT mm	3500		3900		4400
	MACHINE WEIGHT Kg. (approx)	8000	9000	10500	12500	14500
	POWER REQUIREMENT Kw. (approx)	45		55		

Dimensions, Weight, and Power may vary subject to optional equipment.

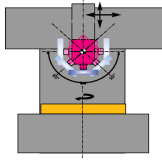


Single column technical specifications

Modulo MRV/T Series

			MRV/T 100	MRV/T 120	MRV/T 150
Working capacity	Max. Diameter	mm	1100	1300	1600
	Max. Height	mm	600		
Horizontal spindle Head	Power	Kw	15		
	Speed	rpm	1400 ÷ 2500		
	Wheel external diameter	mm	406		
	Width	mm	100		
Spindle Head for external - Internal Diameters	Grinding external diameter	mm	0 ÷ 1100	0 ÷ 1300	0 ÷ 1600
	MIN. internal diameter	mm	550		
	MAX depth	mm	600		
	Power	Kw	11		
	Speed	rpm	1400 ÷ 2800		
	Wheel external diameter	mm	406		
	Width	mm	100		
Spindle Head for Internal Diameters	MIN. internal diameter	mm	175		
	MAX depth	mm	600		
	Power	Kw	7,5		
	Speed	rpm	2500 ÷ 5000		
	Wheel external diameter	mm	200		
	minim diameter	mm	125		
Spindle Head for Internal small diameters	MIN. internal diameter	mm	125		
	MAX depth	mm	300		
	Power	Kw	7,5		
	Speed	rpm	4000 ÷ 8000		
	Wheel external diameter	mm	125		
	minim diameter	mm	90		
	width	mm	40		
Rotary table	Diameter	mm	1000	1200	1500
	Speed (automatically adjustable with relations to position of the Y axis)	rpm	5 ÷ 150		5 ÷ 100
Table load capacity Hydrostatic	Load max (without magnetic chuck)	Kg	4000	4800	
	Load max (with magnetic chuck)	Kg	3500	4000	
Table load capacity Mech. Bearings	Load max (without magnetic chuck)	Kg	1400	2300	
	Load max (with magnetic chuck)	Kg	900	1500	
Cross axis head	Rapid speed	m/min	10		
	Grinding feed infinitely variable	mm/min	0 ÷ 2000		
	Min. Programmable step feed	mm	0,001		
	Working travel	mm	1200	1600	2000
	Max travel	mm	1250	1650	2050
Vertical axis head	Rapid speed	m/min	5		
	Min. Programmable step feed	mm	0,001		
	Working travel	mm	800 ÷ 1200 opzionale		
	Max travel	mm	825 ÷ 1225 opzionale		
Dimensions	LENGTH	mm	4125		
	WIDTH	mm	2610		
	HEIGHT	mm	4920		
MACHINE WEIGHT		Kg. (approx)	21000	25000	29000
POWER REQUIREMENT		Kw. (approx)	60		

Dimensions, Weight, and Power may vary subject to optional equipment.

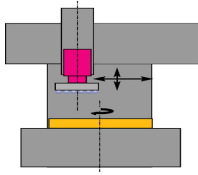


Single column technical specifications

Modulo MRV/U series

		MRV/U 50	MRV/U 75	MRV/U 100	MRV/U 120	MRV/U 160
Working capacity	Max Grinding external diameter x height (standard wheel) mm	600X600	850X600	1100X600	1300X600	1700X600
	Min Int grinding diameter x depth (standard wheel) mm	900x300 (with no extension) 900x500 (with extension 200 mm length)				
	Min Grinding diameter x depth with extension mm	100x350 ÷ 200x450 ÷ 300x500 ÷ 400x600				
	Max. Grinding end face height (std wheel) mm	800				
Universal Spindle Head	Power Kw	11	15			
	Angle Swivelling degrees	+/- 110°				
	Min. Indexing angle degrees	1°				
	Dimensions of standard wheel for universal head Diam. by width mm	350 x 100		406 x 150		
	Speed (Min. - Max.) (higher as option) rpm	1000 ÷ 8500		1000 ÷ 8500		
	Maximum lenght of extension mm	620				
	For smaller wheels and extensions refer to different layout					
Rotary table	Diameter mm	500	750	1000	1200	1600
	Speed (Automatically adjustable with relation to the position of the Y axis) rpm	10 ÷ 200		5 ÷ 150		5 ÷ 100
Table load capacity Hydrostatic	Without magnetic chuck Kg	1200	1800	4000	4800	
	With magnetic chuck Kg	1000	1500	3500	4000	
Table load capacity Mech. Bearings	Without magnetic chuck Kg	800	1000	1400	2300	
	With magnetic chuck Kg	600	700	900	1500	
Cross axis head	Rapid speed m/min	15				
	Min. programmable step feed mm	0,001				
	Working travel mm	2200	2450	2700	3000	3400
	Max travel mm	2225	2475	2725	3025	3425
Vertical axis head	Rapid speed m/min	15				
	Min. programmable step feed mm	0,001				
	Working travel mm	800 ÷ 1200 option				
	Max travel mm	825 ÷ 1225 option				
Dimensions	LENGTH mm	4600	4850	5100	5300	5700
	WIDTH mm	2200		2500		
	HEIGHT mm	4300 ÷ 4700				
	MACHINE WEIGHT Kg. (approx)	15000	17000	20000	24000	28000
	POWER REQUIREMENT Kw. (approx)	40		50		

Dimensions, Weight, and Power may vary subject to optional equipment.



Single column technical specifications

Modulo MRV/V series

			MRV/V 100	MRV/V 120	MRV/V 140
Working capacity	Max. Grinding Diameter	mm	1200	1400	1600
	Max. Grinding height	mm	500		
Vertical head	Power	Kw	40		
	Grinding wheel size diameter	mm	450		
	Wheel speed	rpm	1000		
Rotary axis table	Speed	rpm	8,5 ÷ 42		
	Load capacity (Max. without magnetic chuck)	Kg	900	1500	
	Working surface diameter	mm	1000	1200	1400
Cross axis head	Max. rapid speed	m/min	5		
	Grinding head infinitely variable	mm/min	0 ÷ 2000		
	Min. programmable increment	mm	0,001		
	Working travel	mm	700	800	1000
	Max. travel	mm	785		
Vertical axis head	Max. rapid speed	m/min	1,5		
	Min. programmable increment	mm	0,001		
	Working travel	mm	620		
	Max. travel	mm	650		
Dimensions	LENGTH	mm	3950		
	WIDTH	mm	4700		
	HEIGHT	mm	2955		
MACHINE WEIGHT		Kg. (approx.)	9600	10000	13000
POWER REQUIREMENT		Kw. (approx.)	60		

Dimensions, Weight, and Power may vary subject to optional equipment.