



# RASCAMAT®

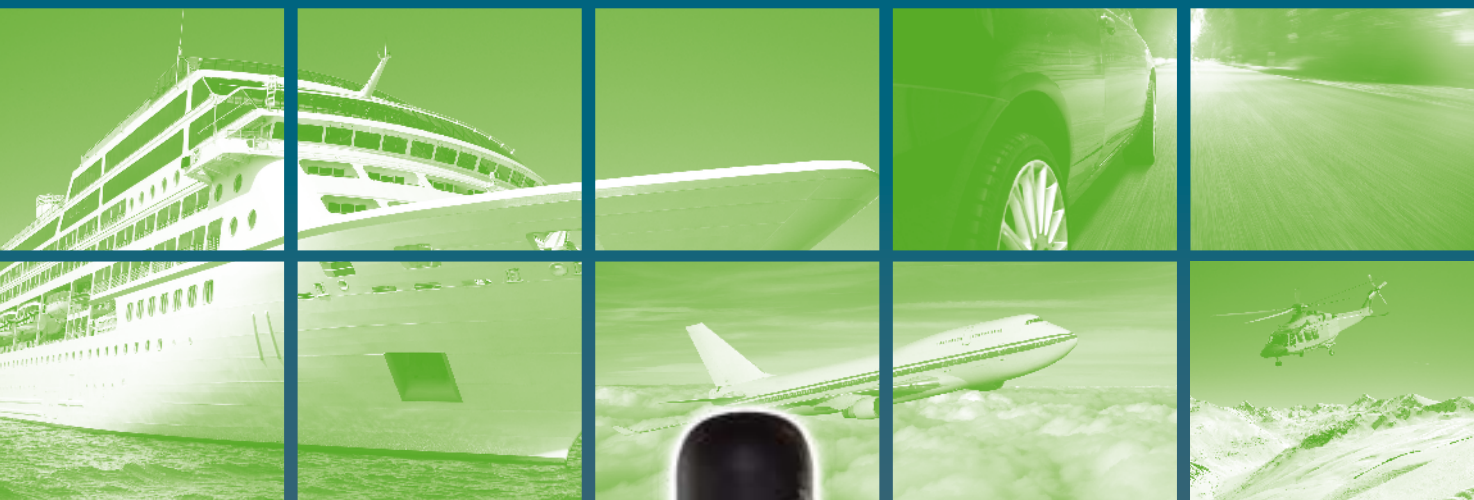
*REVOLUTIONARY TAPPING ARM MACHINES*



[www.roscomat.com](http://www.roscomat.com)

# Electric

SERIES: MOSQUITO, TIGER & SHARK



(90 kg./mm<sup>2</sup>)  
M16 (aluminium)

TAP UP TO  
**M14 9/16"**



## Model R·MOSQUITO

Reach 765 mm. - 30"  
Height 515 mm. - 20"

- Single Phase 220 V. – Available at 110 V.
- Heavy duty cast aluminium construction
- Base elevator
- High frequency Electric Motor
- Speed control
- Tap adaptors of size 19/1 for quick change

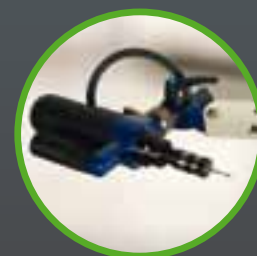
### OPTIONS AVAILABLE

- Vertical tapping
- Vertical & Horizontal tapping –VH- (4x90°)
- Automatic Tool Lubrication Control

Single Phase  
**220 VOLT**  
Available in 110 V



Description	Head orientation	Speed RPM	Capacity (Steel 90 kg./mm <sup>2</sup> )		Max Torque Nm
			Metric	Inch	
Mosquito 1 Speed – 300	Vertical	300	M2-M14	#0 – 9/16"	34
Mosquito 1 Speed - 600	Vertical	600	M2-M10	#0 – 3/8"	16
Mosquito 1 Speed – 300 VH	Vertical/Horizontal	300	M2-M14	#0 – 9/16"	34
Mosquito 1 Speed – 600 VH	Vertical/Horizontal	600	M2-M10	#0 – 3/8"	16
Mosquito 2 Speed – 300/600	Vertical	300/600	M2-M14	#0 – 9/16"	34
Mosquito 2 Speed – 300/600 VH	Vertical/Horizontal	300	M2-M14	#0 – 9/16"	34



Orientable Head V-H, 4x90°

**GREEN  
POWER**

**Reach 1020 mm. -40"**

**Height 535 mm. -21"**

- TAP UP TO M27 – 7/8"
- 220 V. Single Phase
- High frequency motor
- Electronic speed indicator
- Right & left rotation control
- 1 Motor 7 speed capabilities
- 7 interchangeable speed modules
- Heavy duty cast aluminium construction

**OPTIONS**

- Vertical tapping
- Vertical & Horizontal tapping -VH- (4x90°)
- Tool lubrication with timer
- Tapping depth control

**Model  
R-TIGER**

TAP UP TO  
**M27 7/8"**

(90 kg./mm2)  
M16 (aluminium)



Single Phase  
**220 VOLT**  
Available in 110 V

Description	Head Orientation	Speed RPM	Capacity (Steel 90 kg./mm2)	
			Metric	Inch
ROSCAMAT TIGER	Vertical	90 - 1050	M2-M27	#0 – 7/8"
ROSCAMAT TIGER VH	Vertical & Horizontal	90 - 1050	M2-M27	#0 – 7/8"

**Modules for Model R-TIGER. Next Page**



Orientable Head V-H  
For model R-Tiger & R-Shark

**Model R-SHARK**

**GREEN  
POWER**

**Reach 1020 mm. -48"**

**Height 535 mm. -32"**

- TAP UP TO M36 – 1 3/8"
- TAP UP TO M27 – 1" in horizontal
- 220 V. Single Phase
- High frequency motor
- Electronic speed indicator
- Right & left rotation control
- 1 Motor 6 speed capabilities

- 6 interchangeable speed modules
- Tool lubrication with timer
- Tapping depth control
- Heavy duty cast aluminium construction

**OPTIONS**

- Vertical tapping
- Vertical & Horizontal tapping -VH- (4x90°)

TAP UP TO  
**M36 1-3/8"**

TAP UP TO  
**M27 1"**  
in Horizontal

Single Phase  
**220 VOLT**  
Available in 110 V



Description	Orientation	Speed RPM	Capacity	
			Metric	Inch
ROSCAMAT SHARK	Vertical	40 - 900	M2-M36	#0 – 1 3/8"
ROSCAMAT SHARK VH	Vertical & Horizontal	40 - 900	M2-M36	#0 – 1 3/8"

**Modular System - Interchangeable Speed**



Module	Max. speed. (rpm)	Torque max.		Adapter Size	Tapping Capacity - Steel <90Kg	
		Nm	Ft•lb		Metric	Inches
40	40	340	251	ø 48/3	M27-M36	1/2" – 1 3/8"
75	75	185	136	ø 31/2	M18-M27	5/16" – 7/8"
140	140	95	70	ø 31/2	M18- M22	5/16" – 3/4"
320	320	44	32	ø 19/1	M2-M16	#0 – 9/16"
500	500	28	21	ø 19/1	M2-M12	#0 – 7/16"
900	900	15	11	ø 19/1	M2-M8	#0 – 5/16"

**Modules for Model R-SHARK**

# Pneumatic

## SERIES 200, 400, 500 & 500 RH



### Model R-200

Reach 935 mm. – 37"  
Height 660 mm. – 26"

- Tap up to M14 (M16 Al) - 9/16"
- Air motor engineered for tapping
- Heavy duty cast aluminium construction
- Base elevator
- Tap adaptors of Size 1 for quick change

**TAP UP TO**  
**M14-9/16"** (90 kg./mm<sup>2</sup>)  
M16 (aluminium)

#### OPTIONS

- Vertical tapping
- Vertical & Horizontal tapping –VH- (4x90°)
- 350 or 750 rpm single speed models

Description	Head orientation	Speed RPM	Capacity (Steel 90 kg./mm <sup>2</sup> )	
			Metric	Inch
Roscamat 200 – 350	Vertical	350	M2-M14	#0 – 9/16"
Roscamat 200 – 750	Vertical	750	M2-M10	#0 – 3/8"
Roscamat 200 VH – 350	Vertical/Horizontal	350	M2-M14	#0 – 9/16"
Roscamat 200 VH – 750	Vertical/Horizontal	750	M2-M10	#0 – 3/8"



Orientable Head V-H

### Model R-400

Reach 1100 mm. - 43"  
Height 680 mm. - 27"

- TAP UP TO M24 – 7/8"
- Speed Range (rpm) 90 - 2100
- Air motor engineered for tapping
- Heavy duty cast aluminum construction

**TAP UP TO**  
**M24-7/8"** (90 kg./mm<sup>2</sup>)  
M27 (aluminium)

#### OPTIONS AVAILABLE

- Vertical tapping
- Vertical & Horizontal tapping –VH- (4x90°)
- Tool lubrication system -E-

- Utilizes size 19/1 & 31/2 tap adaptors for quick change
- 1 Motor 7 speed capabilities
- 7 interchangeable speed modules
- Drilling Module up to ø8 mm. - 5/16" (soft materials)

Description	Head orientation	Capacity (Steel 90 kg./mm <sup>2</sup> )	
		Metric	Inch
ROSCAMAT 400 V	Vertical	M2-M24	#0 – 7/8"
ROSCAMAT 400 V –E-	Vertical	M2-M24	#0 – 7/8"
ROSCAMAT 400 VH	Vertical & Horizontal	M2-M24	#0 – 7/8"
ROSCAMAT 400 VH –E-	Vertical & Horizontal	M2-M24	#0 – 7/8"



Reach 2180 mm. - 83"

Height 1110 mm. - 44"

- TAP UP TO M24- 7/8"
- Speed Range (rpm) 90 - 2100
- Air motor engineered for tapping
- Heavy duty cast aluminum construction
- Utilizes size 19/1 & 31/2 tap adaptors for quick change
- 1 Motor 7 speed capabilities
- 7 interchangeable speed modules
- Drilling Module up to ø8 mm. - 5/16" (soft materials)

**OPTIONS AVAILABLE**

- Vertical tapping
- Vertical & Horizontal tapping -VH- (4x90°)
- Multiposition, tap in any angle (RH series)
- Tool lubrication system -E-

# Model R-500/ R-500 VH/R-500 RH

TAP UP TO  
**M24-7/8"**

(90 kg./mm<sup>2</sup>)  
M27 (aluminium)

The **RH series** can Tap at any angle!

Description	Head Orientation	Tapping Capacity (Steel 90 kg./mm <sup>2</sup> )	
		Metric	Inch
ROSCAMAT 500 V	Vertical	M2-M24	#0 - 7/8"
ROSCAMAT 500 V -E-	Vertical	M2-M24	#0 - 7/8"
ROSCAMAT 500 VH	Vertical & Horizontal	M2-M24	#0 - 7/8"
ROSCAMAT 500 VH -E-	Vertical & Horizontal	M2-M24	#0 - 7/8"
ROSCAMAT 500 RH	Multiposition	M2-M24	#0 - 7/8"
ROSCAMAT 500 RH E	Multiposition	M2-M24	#0 - 7/8"



R-500 RH



R-500



## Modular System - Interchangeable Speed

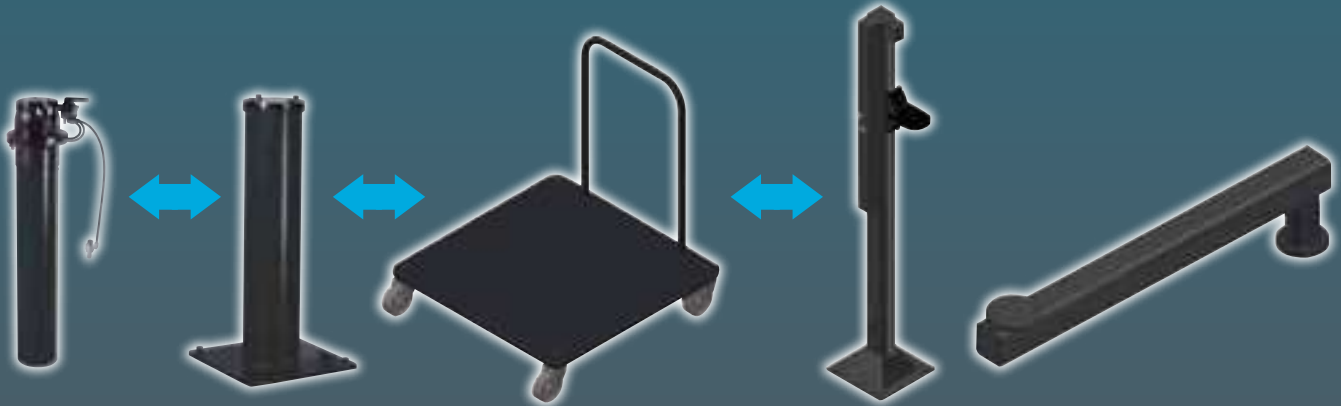
Module	Max. speed. (rpm)	Torque max.		Adapter Size	Tapping Capacity - Steel <90Kg	
		Nm	Ft•lb		Metric	Inches
90	90	150	66	ø 31/2	M18-M27	5/16"-3/8"
170	170	79	58	ø 31/2	M18-M22	5/16"-5/8"
300	300	44	32	ø 19/1	M2-M16	#0-9/16"
550	550	24	18	ø 19/1	M2-M12	#0-1/2"
750	750	17	13	ø 19/1	M2-M8	#0-3/8"
1.050	1.050	12,5	9	ø 19/1	M2-M6	#0-5/16"
2.100	2.100	6	4	B16	Drill up to ø 8 - 5/16" Aluminum, Cast Iron	

**Modules for Model ROSCAMAT TIGER (Electric, 220 V)**  
**Modules for Models ROSCAMAT R400, R500 and R500RH (Pneumatic)**

# Accessories



Description	Dimensions		Series					
	mm	Inch	200	400	500	Mosquito	Tiger	Shark
Knee table	500 x 500 x 900 mm	19 11/16" x 19 11/16" x 35 7/16"	•	•		•		
Small table	700 x 700 x 850 mm	27 9/16" x 27 9/16" x 33 7/16"	•			•		
Medium table	850 x 850 x 850 mm	33 7/16" x 33 7/16" x 33 7/16"		•	•	•	•	•
Large table	1100 x 850 x 850 mm	43 5/16" x 33 7/16" x 33 7/16"		•	•	•	•	•



Description	Dimensions		Series					
	mm	inch	200	400	500	Mosquito	Tiger	Shark
Pneumatic Lifter 550 mm	550	21 5/8"	•	•	•	•	•	•
Column	740	13 3/4" x 13 3/4" x 29 1/2"	•	•	•	•	•	•
Trolley	40	27 9/16" x 27 9/16" x 9/16"	•	•	•	•	•	•
Lifter 2000 mm.-Pneumatic	2000	13 25/32" x 13 25/32" x 76 5/32"	•	•	•	•	•	•
Radial Extension	1000	39 3/8" x 10 7/8"	•	•	•	•	•	•



Description	Dimensions		Series					
	mm.	Inch.	200	400	500	Mosquito	Tiger	Shark
Small Clamp	N/A	N/A	•	•		•	•	
Large Clamp	N/A	N/A	•	•	•	•	•	•
Magnetic support	150x150		•					
Magnetic support	Ø200			•		•		
Magnetic support	Ø250			•	•		•	

# Toolholders applications



## Torque Control Tapholders



## Rigid Tapholders

Rigid tapholders are best suited for getting tools like chamfers, drills, reamers or screwing devices.

Metric	Coupl. ø	Tap Fitting DIN ø x	Norm
M3	19/1	3,5 x 2,7	DIN 371
M4	19/1	4,5 x 3,4	DIN 371
M5	19/1	6 x 4,9	DIN 371
M6	19/1	6 x 4,9	DIN 376
M7	19/1	7 x 5,5	DIN 376
M8	19/1	8 x 6,2	DIN 376
M10	19/1	10 x 8	DIN 376
M12	19/1	9 x 7	DIN 376
M14	19/1 & 31/2	11 x 9	DIN376
M16	19/1 & 31/2	12 x 9	DIN 376
M18	31/2	18 x 14,5	DIN 376
M20	31/2	16 x 12	DIN 376
M22	31/2	18 x 14,5	DIN 376
M24	31/2 & 48/3	18 x 14,5	DIN 376
M27	31/2 & 48/3	20 x 16	DIN 376
M30	31/2 & 48/3	22 x 18	DIN 376
M33	48/3	25 x 20	DIN 376
M36	48/3	28 x 22	DIN 376
M39	48/3	32 x 24	DIN 376
M42	48/3	32 x 24	DIN 376



## Helicoil fittings

use those special stems according to size for helicoil inserts. Available in Metric, UNC & UNF



## Coupling Size 19/1 Length = 80 mm.

Tool extension to reach difficult deep points



## Drill Chuck

Single solution for drilling soft materials without big drilling effort



## Reduction Cup

Used to adapt different tapholders coupling dimensions.

3 types:

Reductor 48/31 • Reductor 31/19 • Reductor 48/19



## Die thread holder

Different sizes according the diameter of the die or Metric size

Coupl. ø Tapping depth

M5-M6	ø 19/1	100 mm.
M8	ø 19/1	100 mm.
M10	ø 19/1	120 mm.
M12-M14	ø 19/1	150 mm.
M16-M20	ø 31/2	150 mm

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