

# PRODUCTS & SOLUTIONS



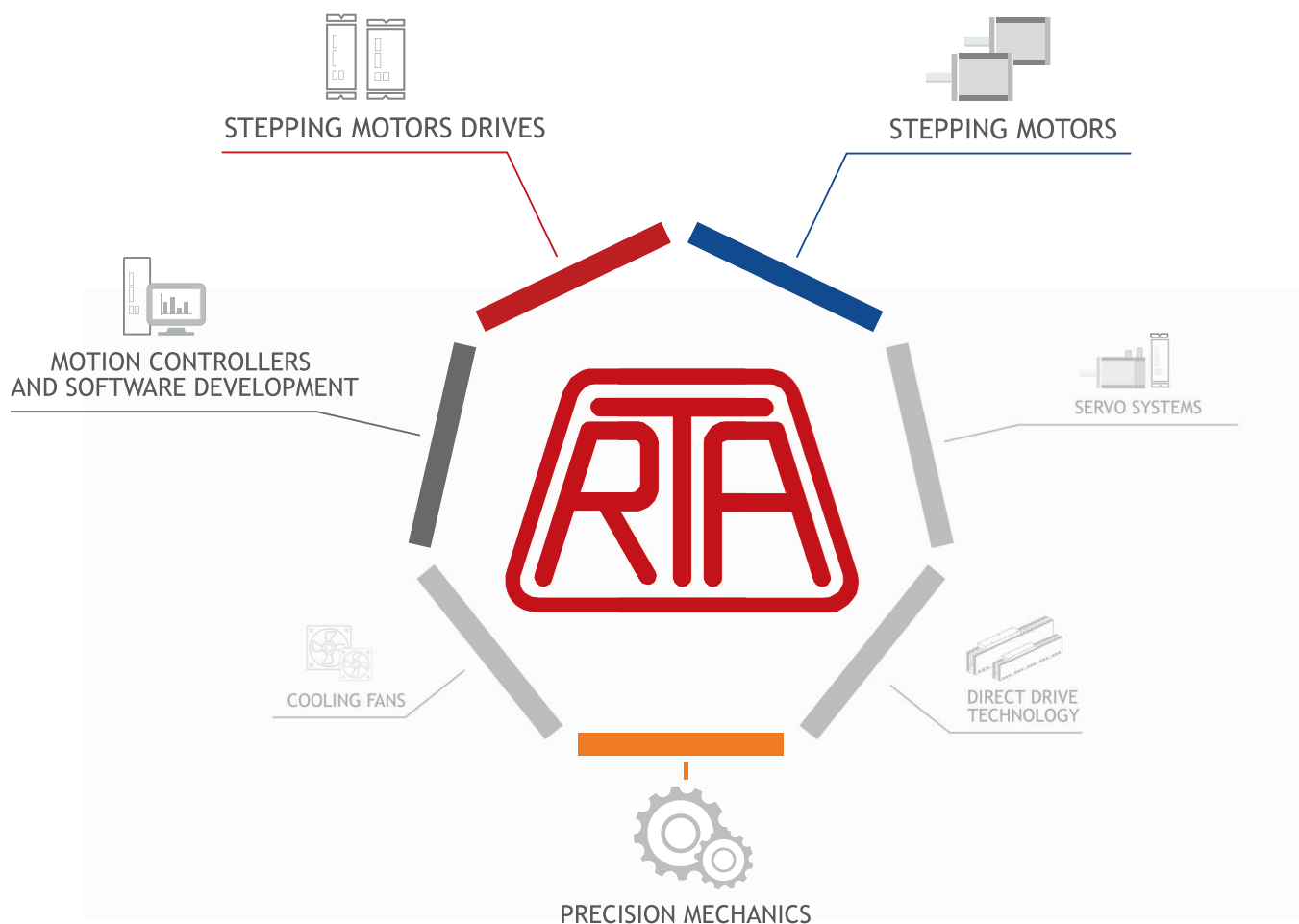
*Look Ahead!*

# R.T.A. GROUP

## A SUCCESSFUL PLAYER IN THE INDUSTRIAL AUTOMATION FIELD

Founded in 1976, R.T.A. is leading player in the Industrial Automation sector, with a specific excellence in the core business: **design and production of Stepping Motor Systems.**

Over the years the product portfolio and the technical expertise have expanded and today R.T.A. offers a **Complete Integrated Motion Solution.**

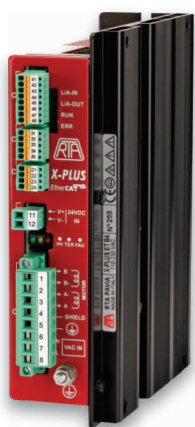


R.T.A. Headquarters **Pavia, ITALY**



A network of more than **60 Distributors** across 5 continents

# LEADERS IN STEPPING SOLUTIONS SINCE 1976



100% MADE IN ITALY



SINCE 1976

1

**N. 1 EUROPEAN INDEPENDENT GROUP**  
IN STEPPING SOLUTIONS



**50.000+ STEPPING MOTOR DRIVES**  
PRODUCED AND SOLD PER YEAR



**100% MADE IN ITALY SINCE 1976**  
A-TO-Z CONTROLLED SHORT SUPPLY CHAIN



**COMPUTERIZED TESTING LINE**  
100% DEFECT FREE PRODUCTION



**STOCK OF APPROX. 60.000 PRODUCTS**  
WORTH 6 MLN \$





20 Years after installation, we still grant the availability of our products.

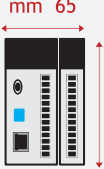



# MOTION CONTROLLERS


- SELECTED MODELS -

## A-SERIES PLC SYSTEM

CPU	Pulse/Train axes	Movement	Ethernet	 AH16S0P      A16XDP
AH16S0P	4	Single and multi-axes	Yes	
AT16S0P	2	Single axes	Yes	
MODULES	Digital I/O	Analog I/O	Thermocouple	
A16XDP	8	0	0	
A04XA	0	2	0	
A04TC	0	0	4	
HMI	Display size	Processor	Flash Memory	 C7H      C107
C7H - C10S	7" - 10"	512 Mb	4 Gb	


  
mm 65  
mm 95


  
ULTRA COMPACT SIZE


  
POSITIONING CONTROL  
made easy





## STEPPING MOTOR DRIVES

- SELECTED MODELS -

200+ MODELS

### TRADITIONAL INTERFACE

ADVANCED MICRO-STEP COMMAND

	Voltage	Current A	Resolution Step/Rev	 BSD 02.V      A-CSD 94      A-NDC 96  X-PLUS L2      X-PLUS C4.1      X-PLUS S4.1
BSD 02.V	24 - 48 Vdc	0.7 - 2.2	3,200	
A-CSD 94	24 - 48 Vdc	2.6 - 4.4	3,200	
A-NDC 96	24 - 85 Vdc	1.9 - 6.0	12,800	
X-PLUS L2	110-230 Vac	1.4 - 2.5	4,000	
X-PLUS C4.1 	110 - 230 Vac	2.4 - 4.0	3,200	
X-PLUS S4.1  	110 - 230 Vac	2.4 - 4.0	3,200	


## PROGRAMMABLE

NETWORK OR  
STAND-ALONE

RS 485

TEXT  
COMMANDS

I/O

	Voltage	Current A	Program lines	 CSD J4      PLUS K4
CSD J4	24 - 48 Vdc	2.6 - 4.4	128	
PLUS K4	55 - 100 Vac	3.4 - 6.0	128	

## ANALOG INPUT



64 PRE-SET SPEEDS  
(1-2000 rpm)

VCO SPEED  
COMMAND

RAMP  
SETTING

JOG CW/CWW  
MODE

SYNCHRO  
OUTPUT

	Voltage	Current A	Pre-set speed	Analog command Vco	 ADW 96
ADW 96 	24-75 Vdc	1.9 - 6	Y	Y	

# STEPPING MOTOR DRIVES - SELECTED MODELS -

200+  
MODELS

Since 2014 R.T.A. alone covers the whole EtherCAT proposal of most international players, with **the widest products portfolio on the market**, from 25W to 1000W power.






**EtherCAT** 



## EtherCAT STAND ALONE

DOUBLE POWER SUPPLY

PLUG & RUN

	Voltage	Current A	Resolution Pos/Rev	
<b>CSD ET 94</b> 	24 - 48 Vdc	4 (0-120%)	12,800	
<b>PLUS ET B3</b>	28 - 62 Vac	6 (0-120%)	12,800	
<b>X-PLUS ET S4</b> 	110 - 230 Vac	4 (0-120%)	12,800	

CSD ET 94

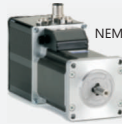


PLUS ET B3

X-PLUS ET S4



## EtherCAT SMART MOTORS

ABSOLUTE/INCREMENTAL ENCODER

	Voltage	Current A	Resolution Pos/Rev	
<b>R-MOD ET</b>	24 - 48 Vdc	Combo (0-120%)	12,800	
<b>HI-MOD ETS</b> 	32 - 75 Vdc	Combo (0-120%)	12,800	



NEMA 24

NEMA 34



R-MOD ET

HI-MOD ETS



## EtherCAT MODULAR

FITTING THE FLEX-SLICE ARCHITECTURE

	Voltage	Current A	Sensor Feedback	
<b>FLEX-DRIVE MSB 204</b>	24 - 48 Vdc	2.5	Open loop	
<b>FLEX-DRIVE MSE 408</b>	24 - 48 Vdc	4	Open/Closed loop	







MSB 204

MSE 408



## STAND ALONE

ETHERNET-BASED PROTOCOL

	Voltage	Current A	Resolution Pos/Rev	
<b>CSD MT S4</b> 	24-48 Vdc	4	12,800	
<b>X-PLUS MT S4</b> 	110-230 Vac	4	12,800	



CSD MT 94

X-PLUS MT S4

# STEPPING MOTORS

- SELECTED MODELS -

## STANDARD & ENCODER VERSIONS


RTA-BRANDED

LOW VIBRATION

LOW HEATING

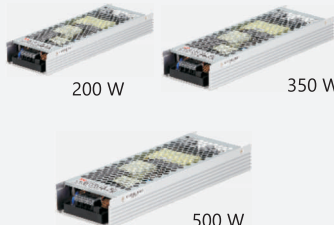
	Nema□	mm	Current A	Torque Ncm	Encoder version	Encoder resolution	
VM0K1M	11	28	0.7	7.0	VM 0K1M-04D0	400 cpr	 Nema 17
VM0K2M	11	28	0.7	14.4	VM 0K2M-04D0	400 cpr	
VM1K0M	17	42	0.7	26.0	VM 1K0M-0HE0	4000 cpr, INDEX	
VM 1K2H	17	42	2.0	50.0	VM 1K2H-0HE0	4000 cpr, INDEX	 Nema 23
VM 1K2M	17	42	1.0	50.0	VM 1K2M-0HE0	4000 cpr, INDEX	
VM 2K1E	23	56	2.0	88.0	//	//	
VM 2K1L	23	56	2.2	110.0	VM 2K1L-0HE0	4000 cpr, INDEX	 60 mm
VM 2K1M	23	56	4.0	113.0	VM 2K1M-0HE0	4000 cpr, INDEX	
VM 2K2M	23	56	4.2	170.0	VM 2K2M-0HE0	4000 cpr, INDEX	
VM 2K2L	23	56	2.2	165.0	VM 2K2L-0HE0	4000 cpr, INDEX	 Nema 34
VM 2K3E	23	56	2.0	200.0	//	//	
VM 6K2M	60 mm	60	4.0	290.0	VM 6K2M-0HE0	4000 cpr, INDEX	
VM 3K1H	34	86	6.0	370.0	VM 3K1H-0HE0	4000 cpr, INDEX	
VM 3K2H	34	86	6.0	710.0	VM 3K2H-0HE0	4000 cpr, INDEX	
VM 3K3H	34	86	6.0	930.0	VM 3K3H-0HE0	4000 cpr, INDEX	
SP 2563-500 IP65 PROTECTION DEGREE	23	56	1.0	100.0	//	//	<b>110-230 VAC MODELS</b>    <b>DIRECTLY FROM THE MAIN !</b>
VM 3K2M	34	86	4.0	700.0	//	//	
VM 3K3M	34	86	4.0	920.0	//	//	
RM 3R1M	34	86	4.0	360.0	RM 3T1M-0HE0	4000 cpr, INDEX	
RM 3R2M	34	86	4.0	700.0	RM 3T2M-0HE0	4000 cpr, INDEX	
RM 3R3M	34	86	4.0	920.0	RM 3T3M-0HE0	4000 cpr, INDEX	

## FRONT BRAKES

	Motor Flange	Torque Ncm	Lenght mm	Current A	Power W	
FB-M12-17-02-00000	Nema 17	20	49	0.17	4.1	 FRONT BRAKES SERIES
FB-M12-23-08-00000	Nema 23	80	57	0.34	8.1	
FB-M12-24-15-00000	Nema 24	150	62	0.46	11	
FB-M12-34-24-00000	Nema 34	350	75.5	0.46	11	

# ACCESSORIES

## SWITCHING POWER SUPPLIES

	Power W	Voltage input	Voltage output	Current output A	
<b>R-UHP 200-24/48</b>	200	90-264 Vac	24/48 Vdc	8.4/4.2	
<b>R-UHP 350-24/48</b>	350	90-264 Vac	24/48 Vdc	14.6/7.3	
<b>R-UHP 500-24/48</b>	500	90-264 Vac	24/48 Vdc	20.8/10.4	

## PLANETARY GEARBOXES - SG Series


### STEPPER GEARBOXES

«i» FROM 3 TO 25

IP 64

PLUG & GO!

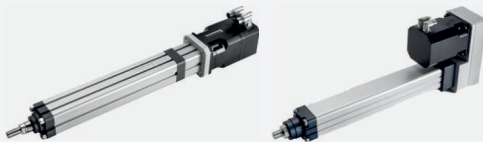
LOW BACKLASH  
VERSIONS

	«i» Ratio	Max velocity Rpm	Backlash	Emergency Torque Nm	Motor Flange	
<b>SG-P11-050-003-12-HH-712X</b>	3	4,000	12'	28	Nema 23	
<b>SG-P11-050-003-12-HH-782X</b>	3	4,000	12'	28	Nema 24	
<b>SG-P11-070-003-12-SM-286X</b>	3	4,000	12'	60	Nema 34	
<b>SG-P12-040-005-15-HH-52XX</b>	5	5,000	<15'	30	Nema 17	
<b>SG-P11-050-005-12-HH-712X</b>	5	5,000	12'	30	Nema 23	
<b>SG-P11-050-005-12-HH-782X</b>	5	5,000	12'	30	Nema 24	
<b>SG-P11-070-005-12-SM-286X</b>	5	5,000	12'	70	Nema 34	
<b>SG-P11-050-009-12-HH-712X</b>	9	6,000	12'	28	Nema 23	
<b>SG-P12-040-010-15-HH-52XX</b>	10	5,000	<15'	25	Nema 17	
<b>SG-P11-070-010-12-HH-782X</b>	10	6,000	12'	60	Nema 24	
<b>SG-P11-090-010-12-SM-286X</b>	10	6,000	12'	150	Nema 34	

## ELECTRIC CYLINDERS

### FOR STEPPER MOTORS

WIDE CUSTOMIZATION POSSIBILITIES

<b>SIZE</b>	According to ISO (32,40,50,63,80,100,125)	
<b>SCREW</b>	Lead screw, ball screw, roller screw	
<b>MOUNTING</b>	In line or parallel	
<b>ANTIROTATION DEVICE</b>	Available	
		<div>IN LINE MOUNTING</div> <div>PARALLEL MOUNTING</div>
<b>Full compatibility with R.T.A. stepping motors NEMA 17, NEMA 23, NEMA 24 and NEMA 34 flange</b> <b>With Encoder / brake /gearbox</b>		

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SINCE 1976

