

PRODUCTS & SOLUTIONS



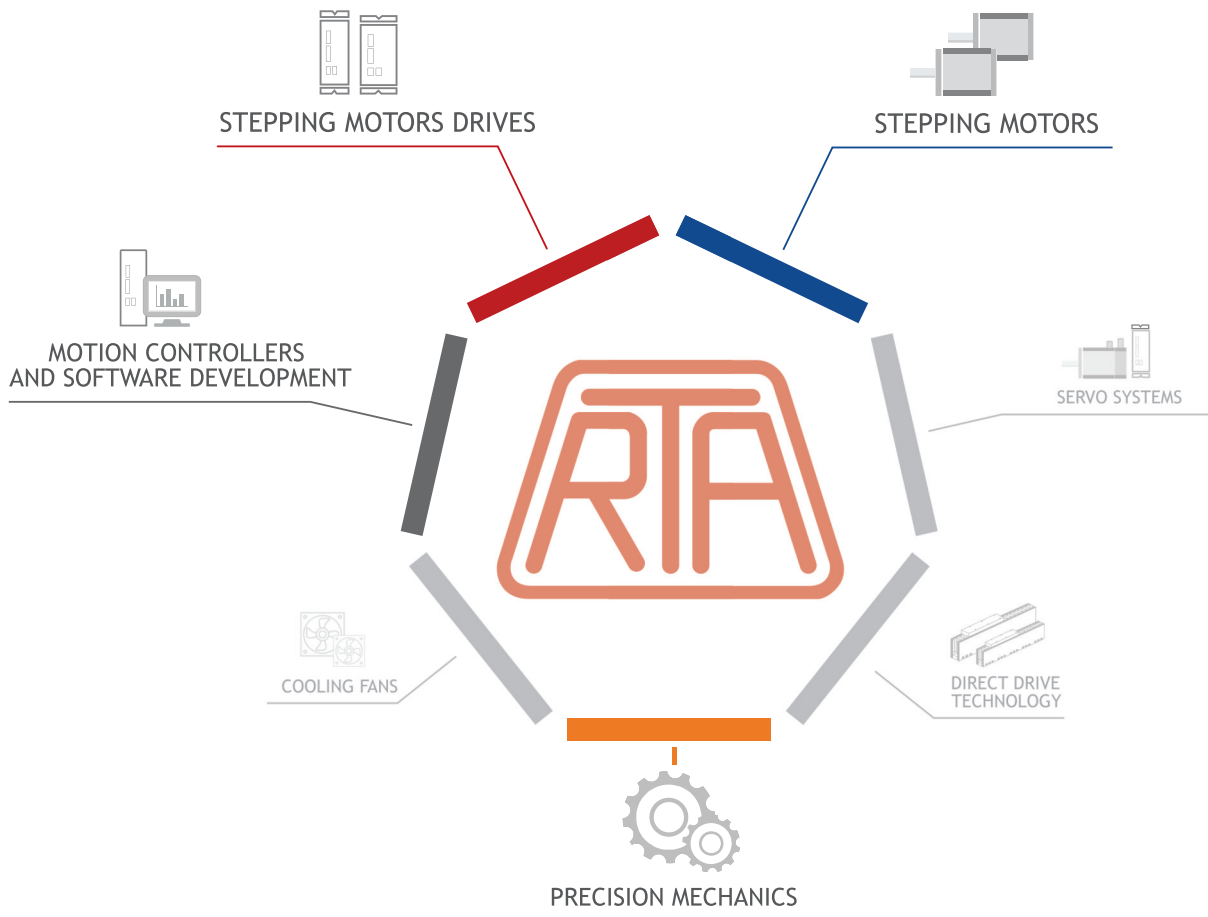
Look Ahead!

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.**



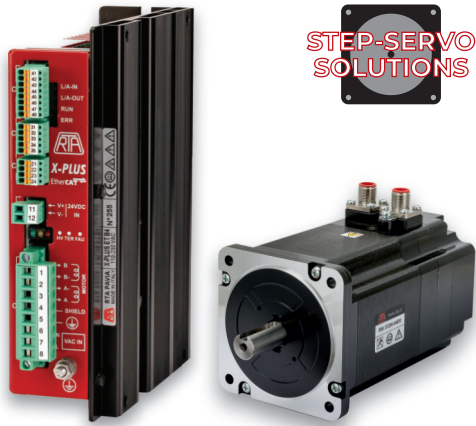
R.T.A. Worldwide

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



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

LEADERS IN STEPPING SOLUTIONS SINCE 1976



STEP-SERVO
SOLUTIONS

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.





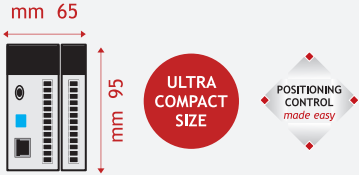
MOTION CONTROLLERS

- SELECTED MODELS -

EtherCAT[®] CONTROLLER

	Axes	Cycle Time	Processor		FLEX-6 NANO
FLEX-6 NANO	Up to 64 axes	As low as 125 µsec	Dual core 1 GHz		

A-SERIES PLC SYSTEM

CPU	Pulse/Train axes	Movement	Ethernet	
AH16S0P	4	Single and multi-axes	Yes	AH16S0P A16XDP
AT16S0P	2	Single axes	Yes	
MODULES	Digital I/O	Analog I/O	Thermocouple	
A16XDP	8	0	0	A16XDP
A04XA	0	2	0	
A04TC	0	0	4	
HMI	Display size	Processor	Flash Memory	
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	24 - 48 Vdc	0.7 - 2.2	3,200	BSD 02.V A-CSD 94 A-NDC 96
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	X-PLUS L2 X-PLUS C4.1 X-PLUS S4.1

STEPPING MOTOR DRIVES - SELECTED MODELS -

200+ MODELS



EtherCAT® STAND ALONE

DOUBLE POWER SUPPLY

PLUG & RUN

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



EtherCAT® SMART MOTORS

ABSOLUTE/INCREMENTAL ENCODER

	Voltage	Current A	Resolution Pos/Rev	AUTO SYNC FUNCTION	FULL CLOSED LOOP
R-MOD ET	24 - 48 Vdc	Combo (0-120%)	12,800	 R-MOD ET HI-MOD ETS	 NEMA 23 NEMA 34
HI-MOD ETS	32 - 75 Vdc	Combo (0-120%)	12,800		



EtherCAT® MODULAR

FITTING THE FLEX-SLICE ARCHITECTURE

	Voltage	Current A	Sensor Feedback	AUTO SYNC FUNCTION
FLEX-DRIVE MSB 204	24 - 48 Vdc	2.5	Open loop	 MSB 204 MSE 408
FLEX-DRIVE MSE 408	24 - 48 Vdc	4	Open/Closed loop	



Modbus TCP/IP STAND ALONE

ETHERNET-BASED PROTOCOL

	Voltage	Current A	Resolution Pos/Rev	AUTO SYNC FUNCTION
CSD MT S4	24-48 Vdc	4	12,800	 CSD MT 94 X-PLUS MT S4
X-PLUS MT S4	110-230 Vac	4	12,800	

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	 CSD J4 PLUS K4	
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	 ADW 96

STEPPING MOTORS

- SELECTED MODELS -

STANDARD & ENCODER VERSIONS

RTA-BRANDED

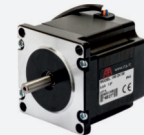
LOW VIBRATION

LOW HEATING

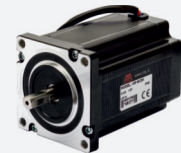
	Nema □	mm	Current A	Torque Ncm	Encoder version	Encoder resolution
VK 0K1M	17	42	0.7	7.0	VK 0K1M-04D0	400 cpr
VK 0K2M	17	42	0.7	14.4	VK 0K2M-04D0	400 cpr
VK 1K0M	17	42	0.7	26.0	VK 1K0M-0HE0	4000 cpr, INDEX
VM 1K2H	17	42	2.0	50.0	VM 1K2H-0HE0	4000 cpr, INDEX
VM 1K2M	17	42	1.0	50.0	VM 1K2M-0HE0	4000 cpr, INDEX
VM 2K1E	23	56	2.0	88.0	//	//
VM 2K1L	23	56	2.2	110.0	VM 2K1L-0HE0	4000 cpr, INDEX
VM 2K1M	23	56	4.0	113.0	VM 2K1M-0HE0	4000 cpr, INDEX
VM 2K2M	23	56	4.2	175.0	VM 2K2M-0HE0	4000 cpr, INDEX
VM 2K2L	23	56	2.2	175.0	VM 2K2L-0HE0	4000 cpr, INDEX
VM 2K3E	23	56	2.0	200.0	//	//
VM 3K1H	34	86	6.0	371.0	VM 3K1H-0HE0	4000 cpr, INDEX
VM 3K2H	34	86	6.0	721.0	VM 3K2H-0HE0	4000 cpr, INDEX
VM 3K3H	34	86	6.0	948.0	VM 3K3H-0HE0	4000 cpr, INDEX
VM 3K2M	34	86	4.0	700.0	//	//
VM 3K3M	34	86	4.0	920.0	//	//
SP 2563-500 IP65 PROTECTION DEGREE	23	56	1.0	100.0	//	//
VM 6K2M	60 mm	60	4.0	309.0	VM 6K2M-0HE0	4000 cpr, INDEX
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



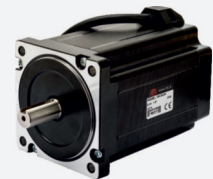
Nema 17



Nema 23



60 mm



Nema 34



Nema 34

MORE ENCODER OPTIONS AVAILABLE



110-230 VAC



110-230 VAC



110-230 VAC



110-230 VAC



110-230 VAC



110-230 VAC



110-230 VAC

FRONT BRAKES

	Motor Flange	Torque Ncm	Length mm	Current A	Power W
FB-M12-17-02-00000	Nema 17	20	49	0.17	4.1
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



FRONT BRAKES SERIES

ACCESSORIES

SWITCHING POWER SUPPLIES

	Power W	Voltage input	Voltage output	Current output A	
R-UHP 200-24/48	200	90-264 Vac	24/48 Vdc	8.4/4.2	
R-UHP 350-24/48	350	90-264 Vac	24/48 Vdc	14.6/7.3	
R-UHP 500-24/48	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	
SG-P11-050-003-12-HH-712X	3	4,000	12'	28	Nema 23	
SG-P11-050-003-12-HH-782X	3	4,000	12'	28	Nema 24	
SG-P11-070-003-12-SM-286X	3	4,000	12'	60	Nema 34	
SG-P12-040-005-15-HH-52XX	5	5,000	<15'	30	Nema 17	
SG-P11-050-005-12-HH-712X	5	5,000	12'	30	Nema 23	
SG-P11-050-005-12-HH-782X	5	5,000	12'	30	Nema 24	
SG-P11-070-005-12-SM-286X	5	5,000	12'	70	Nema 34	
SG-P11-050-009-12-HH-712X	9	6,000	12'	28	Nema 23	
SG-P12-040-010-15-HH-52XX	10	5,000	<15'	25	Nema 17	
SG-P11-070-010-12-HH-782X	10	6,000	12'	60	Nema 24	
SG-P11-090-010-12-SM-286X	10	6,000	12'	150	Nema 34	

ELECTRIC CYLINDERS

FOR STEPPER MOTORS

WIDE CUSTOMIZATION POSSIBILITIES

SIZE	According to ISO (32, 40,50,63,80, 100,125)	
SCREW	Lead screw, ball screw, roller screw	
MOUNTING	In line or parallel	
ANTIROTATION DEVICE	Available	
		<p>IN LINE MOUNTING PARALLEL MOUNTING</p>

Full compatibility with R.T.A. stepping motors NEMA 17, NEMA 23, NEMA 24 and NEMA 34 flange
With Encoder / brake / gearbox

ITALY - Corporate Headquarters

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100% MADE IN ITALY



SINCE 1976

