



Motion Control Systems



COMPANY PROFILE

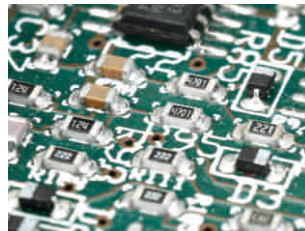
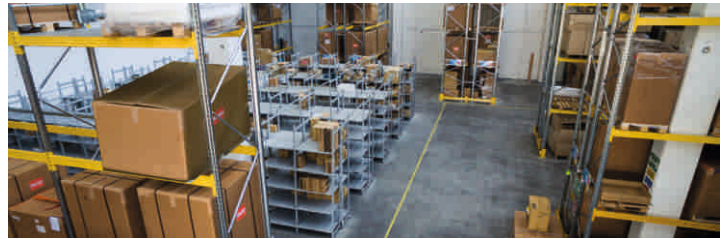
INTRODUCING GROUP

A SUCCESSFUL PLAYER IN THE INDUSTRIAL AUTOMATION INDUSTRY

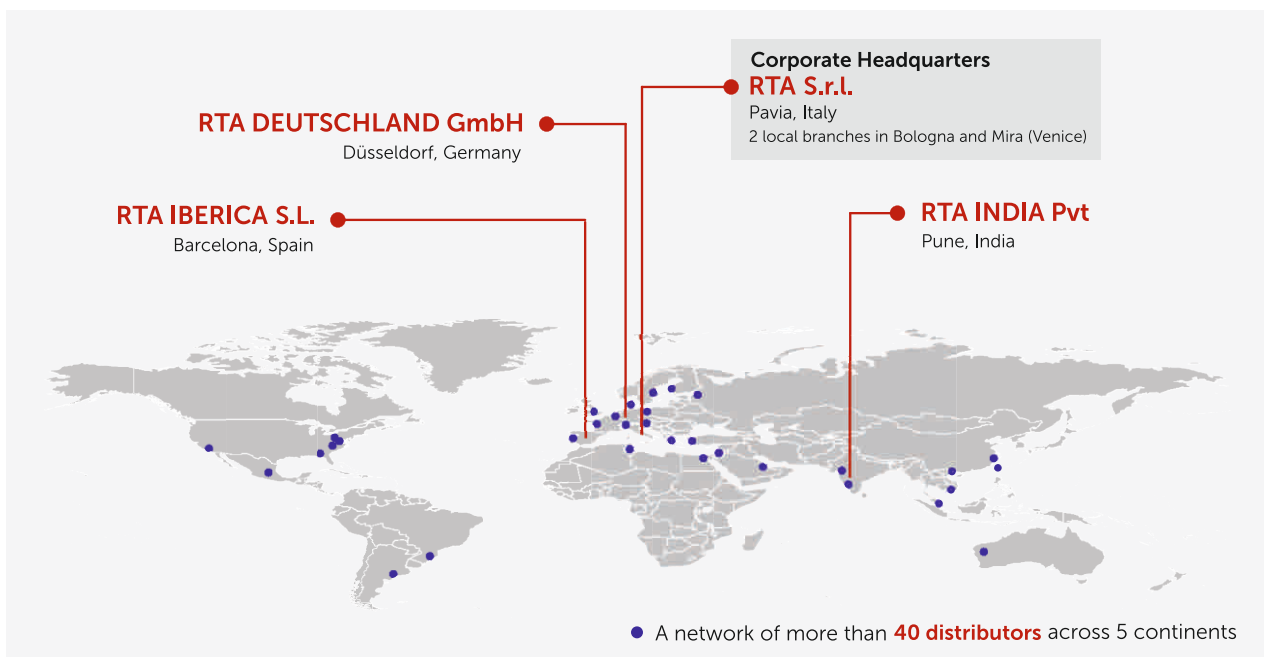
Founded in 1976 in Italy, today RTA is N.1 independent European group in the steppingmotor drives segment(source:IHS Markit).

High quality production, continuous technological innovation and commitment to internationalization make RTA a leading player in the industrial automation sector, offering a wide range of products and technologies.

Thanks to its design and manufacturing capability, combined with more than 40 years of industrial automation experience, RTA is the perfect partner for motion control applications.



RTA PRESENCE WORLDWIDE

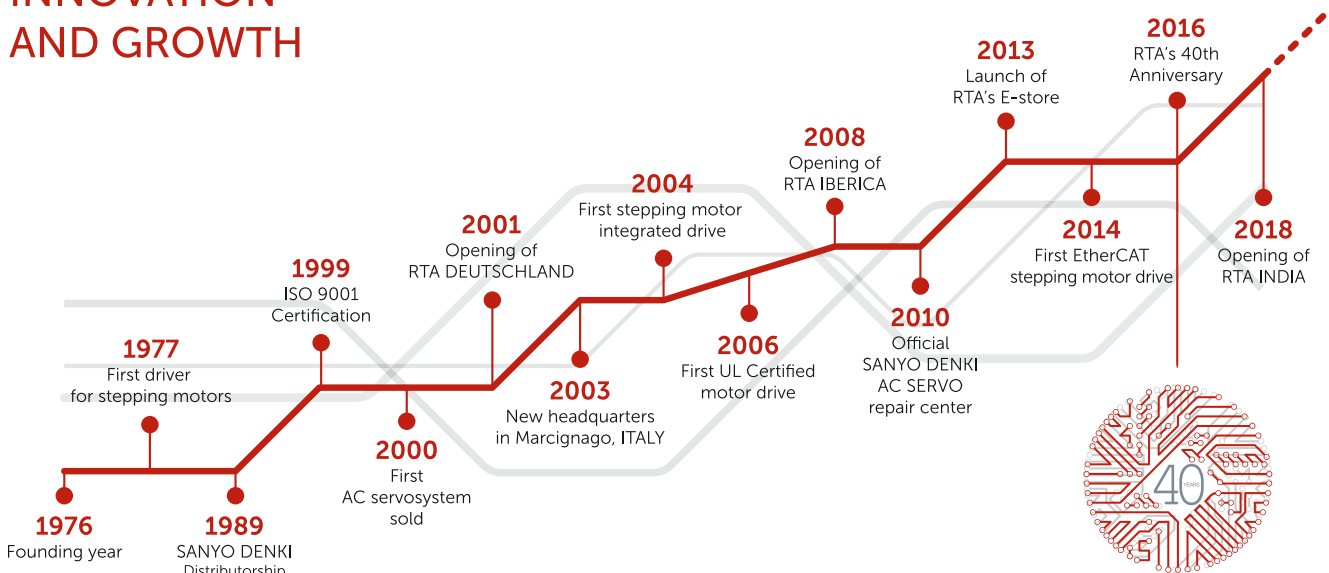




EXCELLENCE AND RELIABILITY

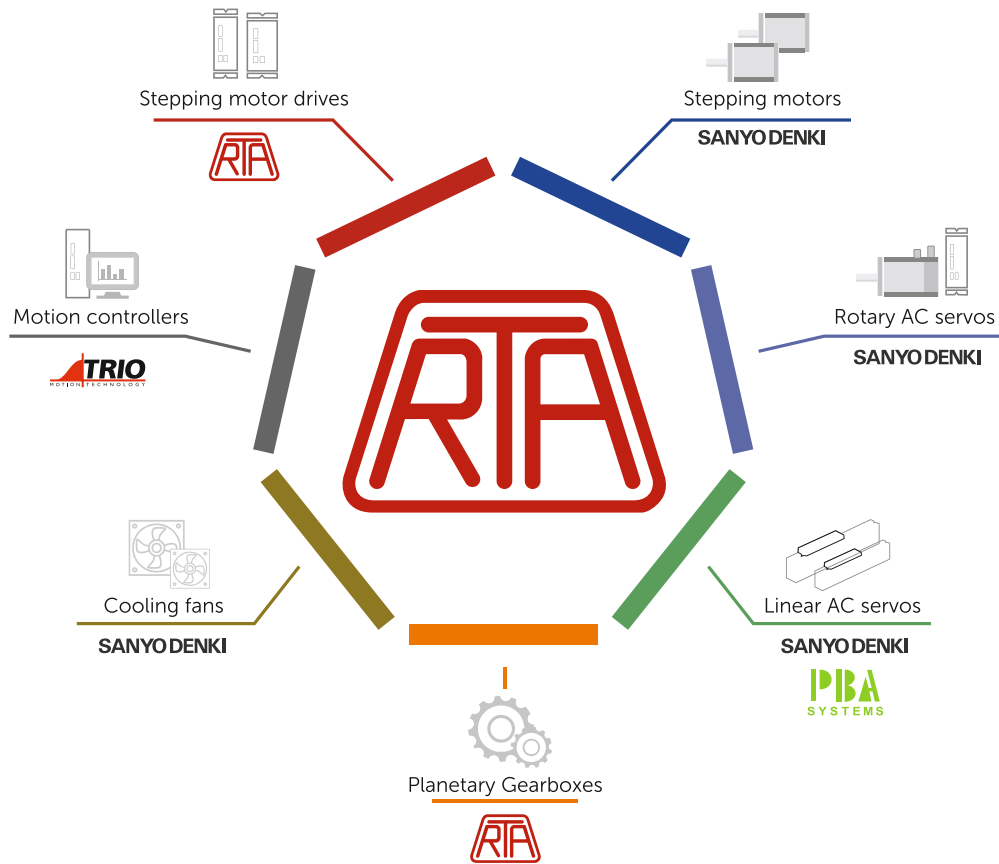
- Since 1976, over 1.000.000 stepping motor drives sold worldwide.
- Highly reliable production thanks to fully computerized testing procedures.
- ISO 9001-2015 certified Quality System.
- A team of highly qualified engineers employed in R&D and field application.
- Wide warehouse of more than 50.000 products, granting extremely quick delivery time.

RESEARCH, INNOVATION AND GROWTH



ONE PARTNER FOR MULTIPLE INTEGRATED SOLUTIONS

7 PRODUCT LINES



Deep, consolidated cross-sectional know-how.

State of the art customer support in every phase of the project.

High end service combined with quick delivery from stock of all product lines.



STEPPING MOTOR DRIVES

6 product families:



23 drive series, 210 models

Current range: from 0,7 A to 10 A

Voltage range: from 24 VDC to 230 VAC

Closed loop function

24 months international warranty

Wide selection of switching power supplies available



THE WIDEST **EtherCAT**®
PRODUCT PORTFOLIO WORLDWIDE

5 drive series
Voltage range: from 24 VDC to 230 VAC



STEPPING MOTORS

2 product families: STANDARD and INDUSTRIAL

5 motor series, more than 250 models

Flange size: from 14 mm to 106 mm

Holding torque: from 0,65 Ncm to 2460 Ncm



STANDARD

OPEN LOOP STEPPING MOTORS

140 models

STEPPING MOTORS WITH ENCODER

60 models

Standard signal: differential

Various encoder resolutions available

STEPPING MOTORS WITH BRAKE

11 models



INDUSTRIAL

RM SERIES

16 models

M12 connectors

High efficiency, high protection degree

Open loop and versions with encoder

SP SERIES

25 models

M12 connectors

High efficiency, high protection degree



ROTARY AC SERVOS

AC SERVODRIVES

4 product families:



3 product series, 16 models

Voltage range: from 230 VAC to 400 VAC



FULL LINE-UP OF FLEXIBLE AND FIXED CHAIN CABLES

DESIGNED, PRODUCED AND 100% TESTED BY RTA

AC SERVOMOTORS

2 product families:

INCREMENTAL ENCODER and BATTERYLESS ABSOLUTE ENCODER

14 models

Nominal power: from 100 W to 15000 W

Nominal torque: from 0,32 Nm to 96 Nm



LINEAR AC SERVOS

2 product families: IRONLESS, IRONCORE

3 product series, 15 models

Continuous force: from 58 N to 303 N

Peak force: from 289 N to 1515 N

Max speed: 5 m/s Max acceleration: > 5 G

Encoder resolution: $\pm 1.0 \mu\text{m}$

Repeatability: $\pm 2.0 \mu\text{m}$

Zero backlash



IRONLESS
LINEAR MOTOR

«ZERO» COGGING WITH MINIMAL VELOCITY RIPPLE

IRONCORE
LINEAR MOTOR

HEAVY LOAD CAPACITY MOTION WITH MINIMAL COGGING

PLANETARY GEARBOXES - SG Series

2 product families:

STEPPER and SERVOS

Wide range of standard models on stock



STEPPER

Body size: from 40 mm to 90 mm
Standard reduction ratio «i» from 3 to 25

SERVOS

Body size: from 40 mm to 120 mm
Standard reduction ratio «i» from 5 to 25

CUSTOM RATIOS AVAILABLE

LOW BACKLASH VERSIONS



PLUG & GO!



MOTION CONTROLLERS

3 product families: **MOTION CONTROLLERS, I/Os and HMIs**

Interfaces available:     EtherCAT 

Control of 1 to 128 axes of stepper, servo and linear motors

Boxed version or DIN rail mounted modular system

FREE Windows base interface for easy and quick configuration



EASY ON-THE-FLY AXES SYNCHRONIZATION

ANTROPOMORPHIC, DELTA ROBOT AND H-BOT SOFTWARE

COOLING FANS

13 product families, more than 5000 models

All fans equipped with dual ball bearings

Size: 36 mm to 270 mm

Air flow from 0,18 to 28,1 m³/min

Voltage Range: from 5 VDC to 48 VDC



IP 68

PWM SPEED CONTROL

ITALY

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