

**High quality motors**



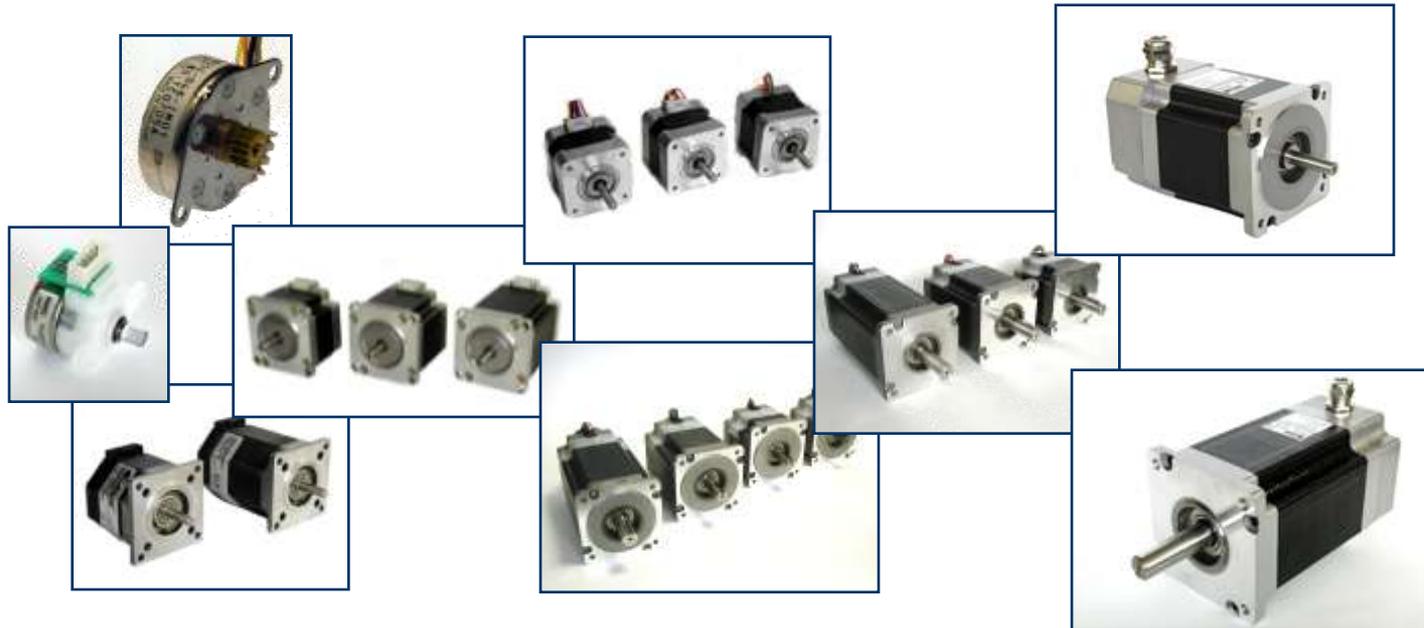
***Ever***  
**ELETRONICA**

***The clever drive  
since 1977***



# Ever Elettronica step motors

- Standard NEMA sizes
- Several shaft styles and dimensions
- Max torque up to 30 Nm
- Splash-proof, Heavy Duty and IP65 versions
- Customized winding to maximize the performances
- Best performance vs price ratio





# Ever Elettronica brushless motors

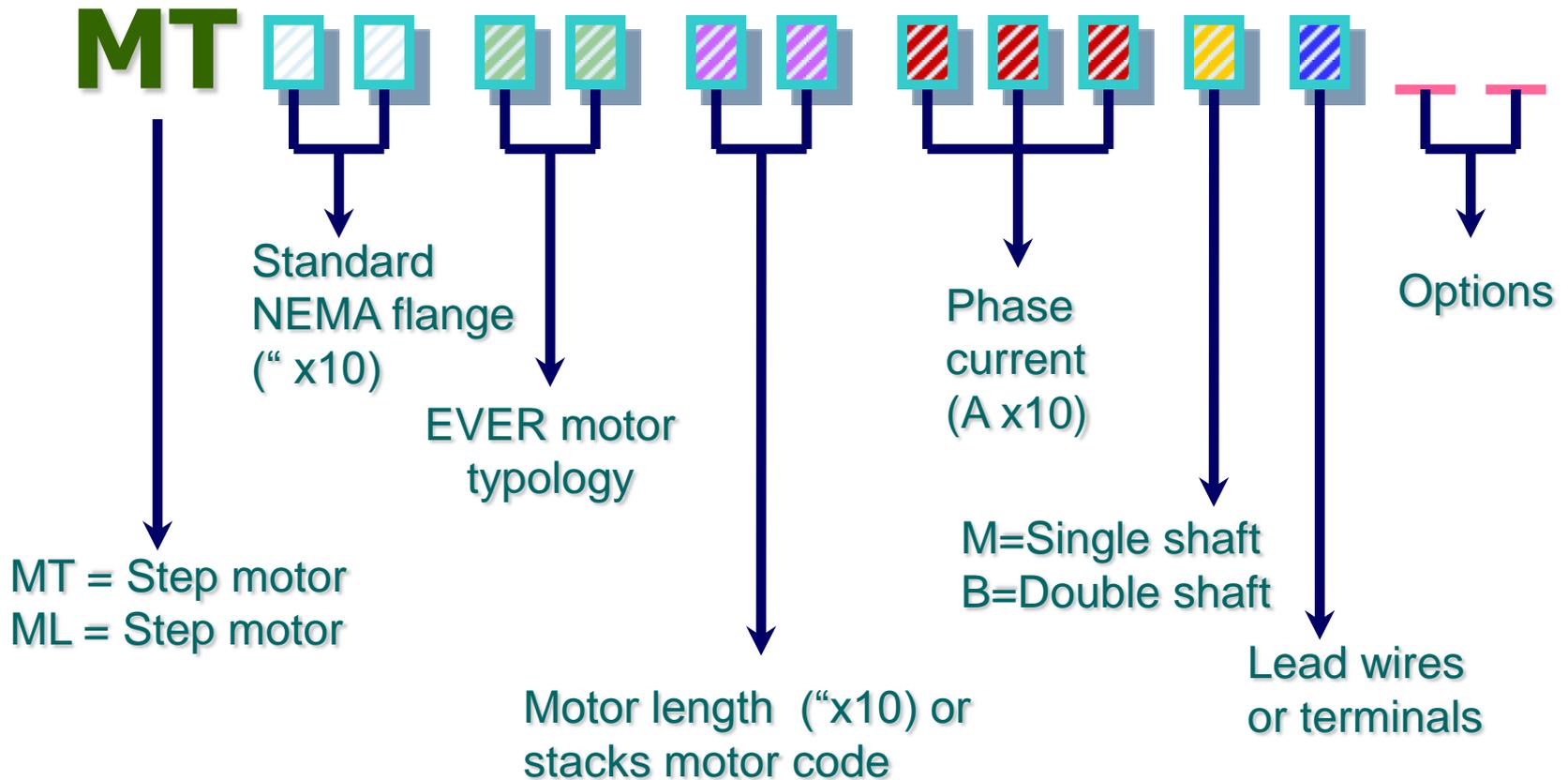
- Motors with round or square front end bell
- Wide range of "fractional" power
- Provided with hall sensors
- Models with integrated electronics available





# Motor codification

- Ever Elettronica motors coding table:





# Motor classification

- Due to the market requirements and the motors characteristics, Ever Elettronica classify the motors as follows:

## High Torque Hybrid Step (MP)

- **Motors for heavy duty suitable for:**

- Textile applications: loom, circular & linear knitting, ...
- Packaging: labelling, flow pack, bottling, ...
- Printing: serigraphic and flexo, ...
- Tooling machinery and robotic applications: XY tables, ...
- Ceramic applications

## Hybrid Step (MH)

- **Motors for standard performance suitable for:**

- Office Automation: badge reader, scanners, banknotes counter, ...
- Disco & show-lighting
- Textile application: hosiery machines, ...

## Permanent Magnet Step (PM)

- **Motors for standard performance suitable for:**

- Office Automation: printers, ...
- Spot-lighting



# The 'FN' step motor series

- Best quality and high performance motors.



- The 'FN' series is available with:

- 3,4" (86 mm) and 4,2" (110 mm) flanges
- 1/2, 1, 2, 3 and 4 stacks (3,4") and 1, 2 and 3 stacks (4,2")
- Holding torque from 3,4 Nm to 12,5 Nm (3,4 and from 11,5 Nm to 30,0 Nm (4,2"))
- IP65 protection with terminal box

## MT34FN Step Motors Technical Report

Tüv tech report requirements compliant

High quality materials rotor, stator, flanges and ball bearings

Class B or higher temperature rating of windings insulation.

Special cover to protect the windings and to increase insulation at high voltages

Clearance and creepage distances compliant to high Vdc operation voltages

Long life high performances ball bearings

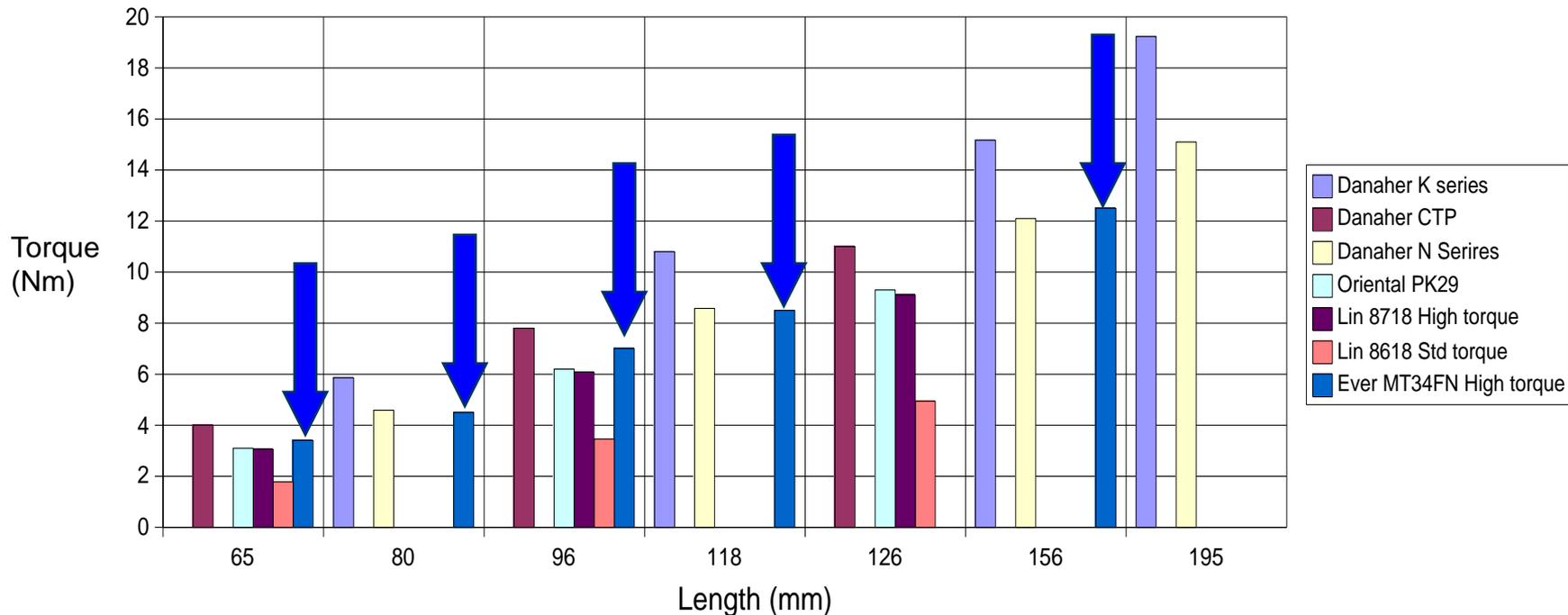
Heavy duty flanges



# Competitors comparison

- '34FN' series vs other manufacturers' step motors comparison:
- Holding torque

The figure indicates for the 34FN a medium-high performance in any regular stack sizes (Danaher's K series motors are provided with additional magnets inside the stator).

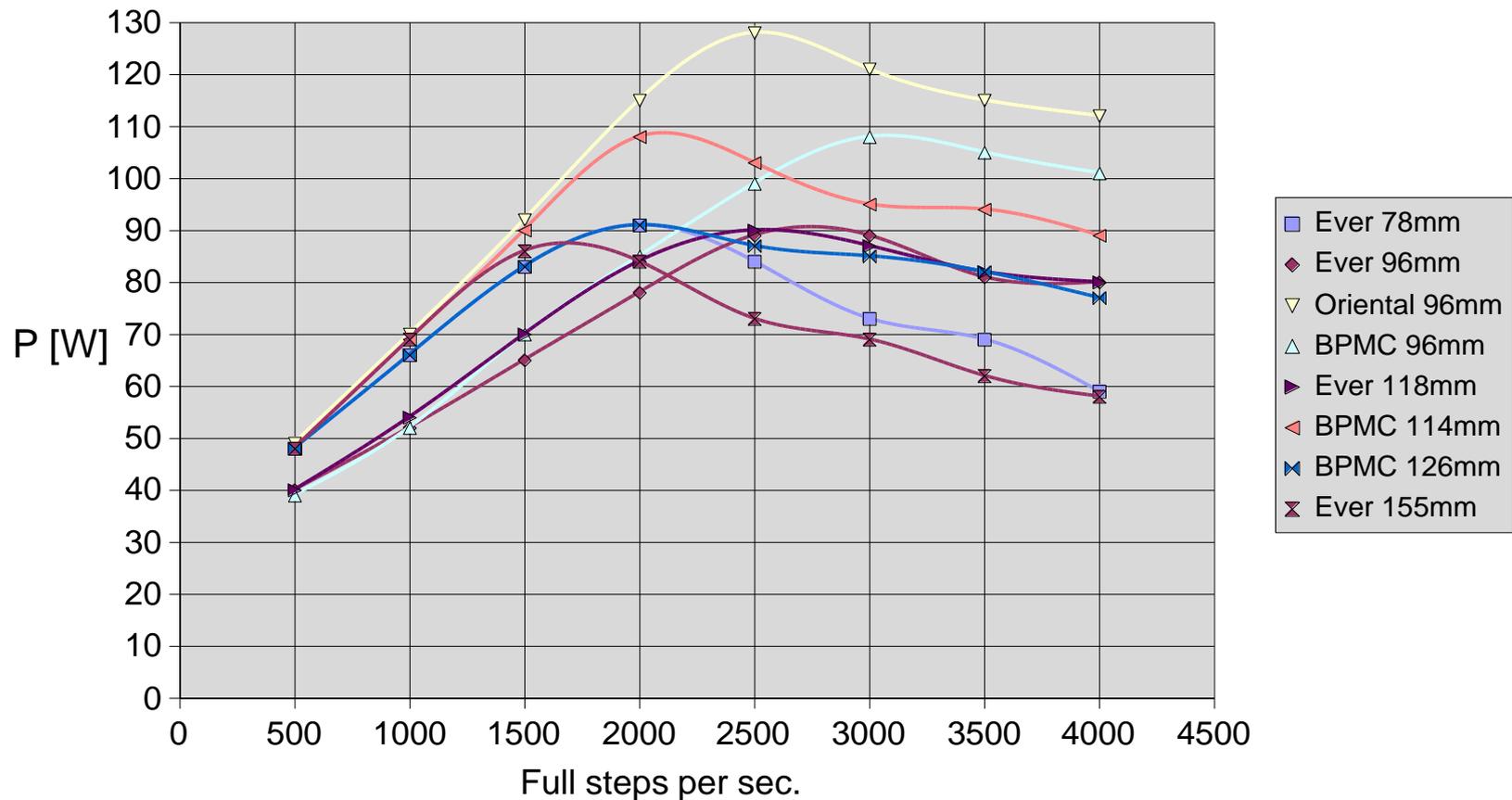




# Competitors comparison

- Power consumption

Power consumption of 75 Vdc drive + motor free running with no shaft load.





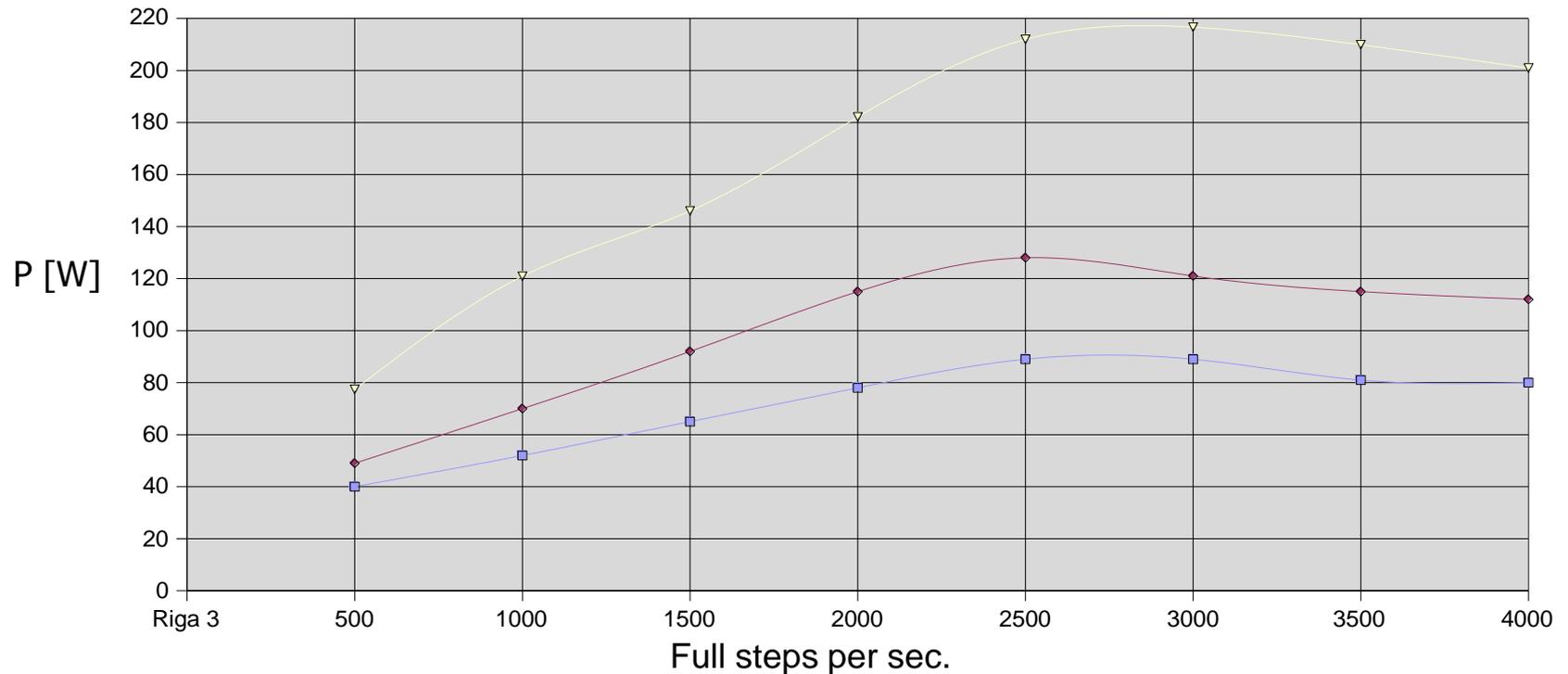
# Competitors comparison

- Efficiency

Ever Elettronica and Oriental Motor steppers' shaft power (yellow)

Oriental Motor stepper's power losses (red)

Ever Elettronica stepper's power losses (blue)





# Motors/Drives table

- The following table indicates the best step motor/drive matching suggested by Ever Elettronica:

Step motors' code and current rating	MT08Ax	MT23AKx	MT24FKx	MT34FNx	MT34FNx	MT42FNx	MT42FNx
	MT10Ax MT14Ax MT16Ax MT16FP MT17AP MT17FP	MT23ALx MT23FKx MT23FLx MT23PMx MT23PPx					
Drives models (current rating)	<2A/ph	<3A/ph	<3.5A/ph	<3.5A/ph	<6.0A/ph	<7.5A/ph	<11A/ph
LW1x / SW1x 2042 series (4.0 Arms/ph)	•	•	•	•			
LW1x 3050 series (5.0 Arms/ph)	•	•	•	•	•		
LW1x / SW1x 4080 series (8.0 Arms/ph)	•	•	•	•	•	•	•
LW1x / SW1x 9060 series (6.0 Arms/ph)	•	•	•	•	•	•	
SDI C403 (1.5 Apeak/ph)	•						
M5A (5.0 Apeak/ph)	•	•	•				
SDxWx130 (5.0 Arms/ph)	•	•	•	•			
SDxWx160 (8.0 Arms/ph)			•	•	•	•	•
SDxWx170 (8.0 Arms/ph)			•	•	•	•	•
SDxWx180 (5.0 Arms/ph)	•	•	•	•			