



With the DDS1 series, LAM Technologies redefines the stepper motor drive with pulses control enhancing it with new characteristics and functionalities.

It is now possible to eliminate the loss of step, adjust the motor torque, handle the limit switches, control the motor with +/-10V reference and have many other features to use the stepper motor in applications so far precluded.

The DDS1 series is fully digitally controlled and ensures a smooth and precise rotation of the motor.

The family develops in 10 models different for functionality and power.

#### Family Development

Power Supply / Motor Current	5 Digital Inputs, 2 Digital Outputs 1 Analog Input	8 Digital Inputs, 3 Digital Outputs 1 Analog Input 1 Encoder Input A, B, I
24Vdc Auxiliary Power Supply		
20..50Vdc / 0.2..1.4Arms	<b>DDS1141</b>	<b>DDS1241</b>
20..50Vdc / 1.0..4.5Arms	<b>DDS1144</b>	<b>DDS1244</b>
20..50Vdc / 2.0..10.0Arms	<b>DDS1148</b>	<b>DDS1248</b>
24..90Vdc / 1.0..4.5Arms	<b>DDS1174</b>	<b>DDS1274</b>
24..90Vdc / 2.0..10.0Arms	<b>DDS1178</b>	<b>DDS1278</b>

The old concept of step and resolution has been abandoned in favor of the STEPLESS drive technology, that allows to freely define the relationship between the pulses applied and the position of the motor, surpassing the strict division imposed by the older drives.

Pairing the drive with a motor with encoder built-in eliminates the loss of step and improves the system efficiency. Additionally, the motor torque can finally be 100% used as it is no longer necessary to reserve a torque margin to prevent the loss of step.

In simpler applications, it is possible to command the motor in START/STOP, with speeds selectable by digital I/Os or analog input, with total control of the acceleration and deceleration ramps.

The DDS1 series drives define a new level of performance and functionality without penalizing the costs. They are compact and ensure easy and quick DIN rail mounting.



#### LAM Technologies

Viale Ludovico Ariosto, 492/D  
50019 Sesto Fiorentino (FI)  
Ph: 055 4207746 Fax: 055 4207651  
Email: [info@lamtechnologies.com](mailto:info@lamtechnologies.com)  
[www.lamtechnologies.com](http://www.lamtechnologies.com)