

Re: searching brushless motor with sensors, 12V, 500–700Watt

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- *From:* Tim Wescott <tim@xxxxxxxxxxxxxxxxxxxx>
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Jamie wrote:

Wolfgang wrote:

Hello,

I search for an application with very high torque request at zero speed
a brushless motor with sensors. Parameters: 12V, 500–700Watt

Who can tell a manufacturer of such a motor?

Best regards

Wolfgang

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www.ibweinmann.de
brushless motor control

Look at stepper motors., they have a high torque rate of holding how ever, they work in degree's/ indexes per turn. the more you get the more expensive and at 700 Watts, that sounds very expensive.

On the second note how ever, they require no feed back.

On the third note:

- they're far bulkier for the torque than a brushless
- they consume far more power for the torque than a brushless
- if the load should exceed the torque capability of the motor the motor's average torque will go to zero, leading to a failure mode that is, at best, unrecoverable until things stop.

Stepper motors are good for simple applications when you can afford to significantly over specify. Other than

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that they're way more trouble than they're worth.

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Posting from Google? See <http://cfaj.freeshell.org/google/>

"Applied Control Theory for Embedded Systems" came out in April.
See details at <http://www.wescottdesign.com/actfes/actfes.html>

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