Q&A Session for Introduction to the Motorized Lead Screw

Date: Wednesday, October 22, 2014			
Q: Whi	Q: Which stepper motor bearings actually support axial loads greater than a few lbs/f?		
A: oversiz loads.	Standard stepper motors use radial bearings and a spring washer to preload. The MLS uses the bearings and have removed axial free play as the product is designed for lead screws and axial		
Q: Wh	at is the max load possible?		
A:	The NEMA 23 has a load capacity of 200 lbs. Refer to the brochure for other available sizes.		
Q: Can	the motors and screws be purchased separately for spares and field assembly?		
	Yes, this is one of the key features of the Taper-Lock design. Since the design isn't permanently l, we encourage trying multiple configurations for prototyping and holding minimum inventory for enance.		
	ocity smoothness – optimize motor windings for harmonic resonance? Numbers? How much than customers?		
applica	The resonance point in an application is a function of the MLS as well as the application eters and installation. Noise reduction is a feature but one that must be based on specific ation testing. Also for smoothness, this is can be dependent on the type of motor driver used and ze. Smaller step increments, or micro steps, will result in a smoother running system.		
Q: Are	drive electronics available?		
A:	Yes, please contact Thomson for recommendations.		
Q: Wh	at are the expected Lead-Times?		
	ndard product is stock but requires screw machining and therefore 1-2 weeks. Large quantity and customization will be reviewed by case.		

Q: Is t	the RN 'internal nut' field replaceable?	
A: thoug	No, the nut is integrated into the motor. We can replace the motor and sgh.	crew separately
Q: Ar	re there provisions for encoder mounting?	
A:	No, this is a future offering.	
Q: Do	oes Thomson offer external support bearings (pillow-block or flange) for all t ?	he different screw
A: availa	No, we do not offer standard supports for all units. BSA has a limited rangable, please contact Thomson or review catalog.	ge of end supports
	OW LARGE A DIAMETER WILL THE LEAD SCREW GET IN THE FUTURE? WILL T	HIS LINE BE LIMITED TO
A: will e	Current offering is NEMA 11 – NEMA 23 and the maximum lead screw disevaluate the market need for NEMA 34 and NEMA 42 as future sizes.	ameter is 10mm. We
Q: IS	THE STANDARD PRODUCT SELF LUBRICATING?	
A: applio	All lead nuts are self-lubricating. Thomson recommends using additional cations.	lubrication in most
Q: wi	ith power off, is the screw held stationary? Can you turn it by hand?	
A:	The stepper motor must be energized to have holding torque.	
	oes the outboard end of the screw need to be a fixed bearing config, or can telegraphic like the translated axial load?	the motor bearings
A:	The motor bearings are sized for the fully rated axial load. Thomson reco	mmends an outboard

bearing to increase life and system performance but it isn't necessary. \\

Q: Can you have multiple rotating nut style motors on a single lead screw?

A: Interesting idea and yes.