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SCHAEFFLER (UK) LTD, SUTTON COLDFIELD

New linear synchronous motor ideal for large machining centres

The Schaeffler Group has launched a new range of synchronous linear motors that offer peak loads of 13,000N and deadweight of 45kg, ideal for use on large machining centres.

The Schaeffler Group has now extended its range of IDAM-branded direct drives technology with the launch of a new range of synchronous linear motors that offer peak forces of up to 13,000N and which achieve extreme guidance accuracies.

With the new IDAM L2U range of synchronous linear symmetrical motors, customers benefit from a fundamentally refined motor series that reaches peak forces of up to 13,000N, with deadweight of around 45kg. This means that customers can now equip large machining centres with these motors.

The primary advantage of this motor technology is that it compensates for any magnetic forces generated between motors and magnets. The resulting unloading force leads to a much longer service life.

In addition, accuracies are maintained for longer periods and friction-induced heat generation is reduced. Schaeffler has achieved this by using an iron-core linear AC synchronous motor with two symmetrically opposed secondary parts. The reduced iron content in the movable primary component further reduces the mass in the three-phase motor. The lower deadweight of the L2U motors, relative to the payload, has a positive effect for highly dynamic applications with relatively low payloads (up to ten times the mass of the primary part).

IDAM (INA Drives & Mechatronics) is part of Schaeffler Group Industrial. The company specialises in precision direct drive solutions. The range of solutions includes linear, rotary (torque) motors, planar drives, high performance servo drives and amplifiers.

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Schaeffler (UK) Ltd belongs to the Schaeffler Group.

With approx. 61,000 employees at more than 180 locations worldwide and consolidated sales of 7.3 bn Euro (2009), the Schaeffler Group is a leading global bearing manufacturer and automotive component supplier. Group members are Schaeffler Technologies GmbH & Co. KG with its two brands INA and FAG, headquartered in Herzogenaurach, and the LuK Group which is based in Bühl/Baden. The Industrial Division provides bearing solutions to some 60 different industrial segments via its Production Machinery, Heavy Industry, Power Transmission & Railway and Consumer Products business sectors.

CONTACT:

Schaeffler (UK) Ltd, Forge Lane
Minworth
Sutton Coldfield West Midlands B76 1AP
Tel. +44 121 313 5881
Fax +44 121 313 0080
E-Mail: Karen.Preston@schaeffler.com