

电机直连型滚珠丝杠 / 滑动丝杠篇 Direct Motor Drive Ball Screws / Lead Screws



是在驱动丝杠（滚珠丝杠或滑动丝杠）的轴端直接连接步进电机、不需要联轴器的紧凑型直线执行元件。

It's a Compact Linear Actuator series, what we call MoBo.
The MoBo is the combined product that Stepping Motor Shaft is directly mounted onto Drive Screw Shaft, and eliminated Coupling accordingly.

KSS以小型化为微型滚珠丝杠制造商的使命，不懈地追求产品的轻量小型化。其代表产品MoBo（电机直连型滚珠丝杠/滑动丝杠），是将电机轴与滚珠丝杠轴合二为一的组合产品，不需要联轴器，从而缩短了长边方向的尺寸。

KSS自2001年推出MoBo以来，不断增加进给丝杠和电机的种类，为用户提供更多的选择。本次，我们将电机直连型滚珠丝杠及滑动丝杠的各种产品汇集在一本产品目录中进行介绍，希望能加深用户对本公司MoBo系列产品的了解。

今后，我们将一如既往尽最大的努力满足用户的需求，开发出更多更好的产品，欢迎大家惠顾。

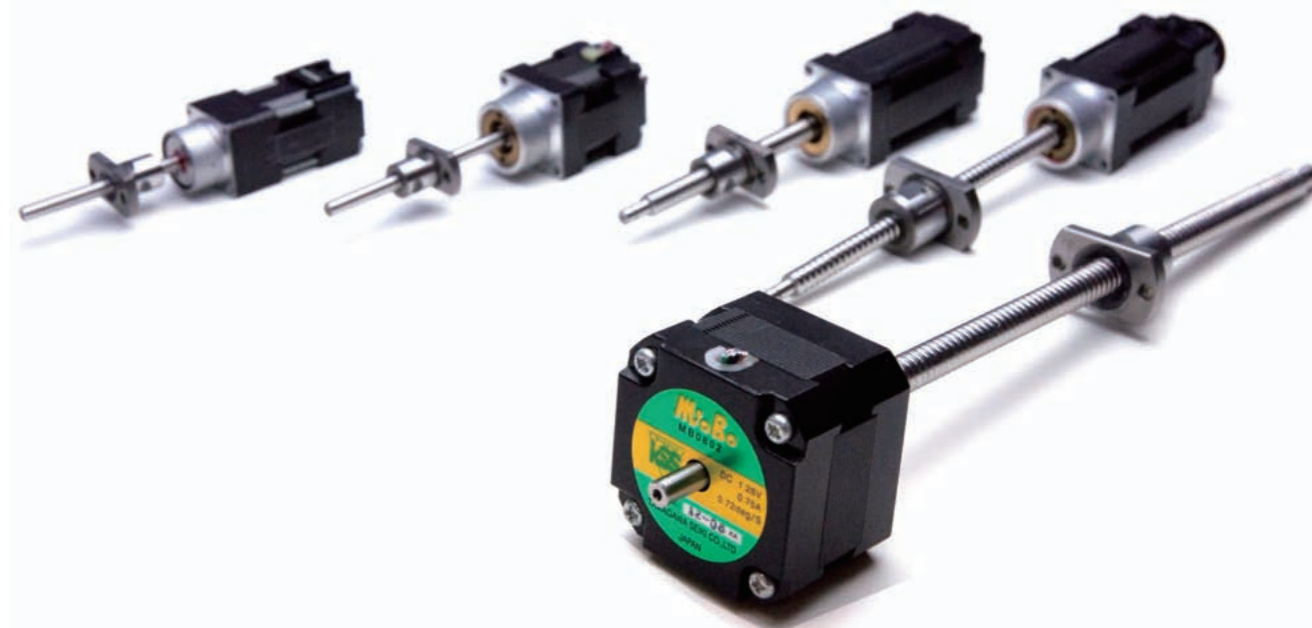
In KSS, we always pursue the downsizing of our products that is the mission of the Miniature Ball Screw manufacturer.

MoBo (Direct Motor Drive Ball Screws / Lead Screws) is one of our representative product, which combines a Motor Shaft and a Ball Screw / Lead Screw Shaft. MoBo is the combined product that can achieve shortening the longitudinal dimension by eliminating the Coupling.

Since KSS launched the first version of MoBo in 2001, we continued to add various type of MoBo on our line-up and provides the variety of choices to our customer.

This time KSS integrated all of our MoBo line-up into one catalogue to offer better understanding for the customer.

Now KSS will continue to meet the demand of the customer as much as possible, and will develop a better product in the future, thanking you in advance.



MoBo系列是驱动丝杠（滚珠丝杠 / 滑动丝杠）和步进电机（2相 / 5相）一体化的组合型产品，备有多种产品可供选择（表 F-1、表 F-2）。

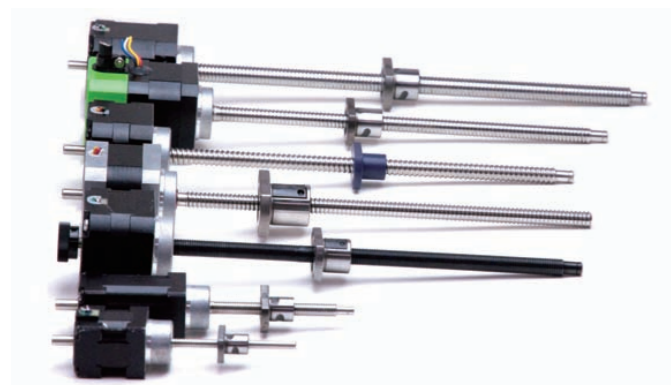
MoBo series can offer many variety of choices, based on its combination of Stepping Motor type (2-phase or 5-phase) and Drive Screw type (Ball Screw or Lead Screw). Please refer Table F-1 and Table F-2.

表 F-1 : 驱动丝杠和电机的组合 / Table F-1 ; Combination of Drive Screw and Stepping Motor

Type 种类	Drive Screw type / 驱动丝杠			Stepping Motor 步进电机		Additional Function 附属装置
	Precision Ball Screw 精密滚珠丝杠	Rolled Ball Screw 冷轧滚珠丝杠	Resin Lead Screw 树脂螺母滑动丝杠	2-phase 2相	5-phase 5相	
MB Precision type 精密型	○ JIS C3				○	
TMB Rolled type 冷轧型		○ JIS Ct7			○	
2TMB 2-phase Rolled type 2相冷轧型		○ JIS Ct7 equivalent 相当于JIS Ct7		○		
RM Resin type 树脂型			○ JIS Ct10 equivalent 相当于JIS Ct10	○		
SiMB Hybrid type 混合型	○ JIS C3 /C5			○		Encoder Memory chip 编码器 存储芯片

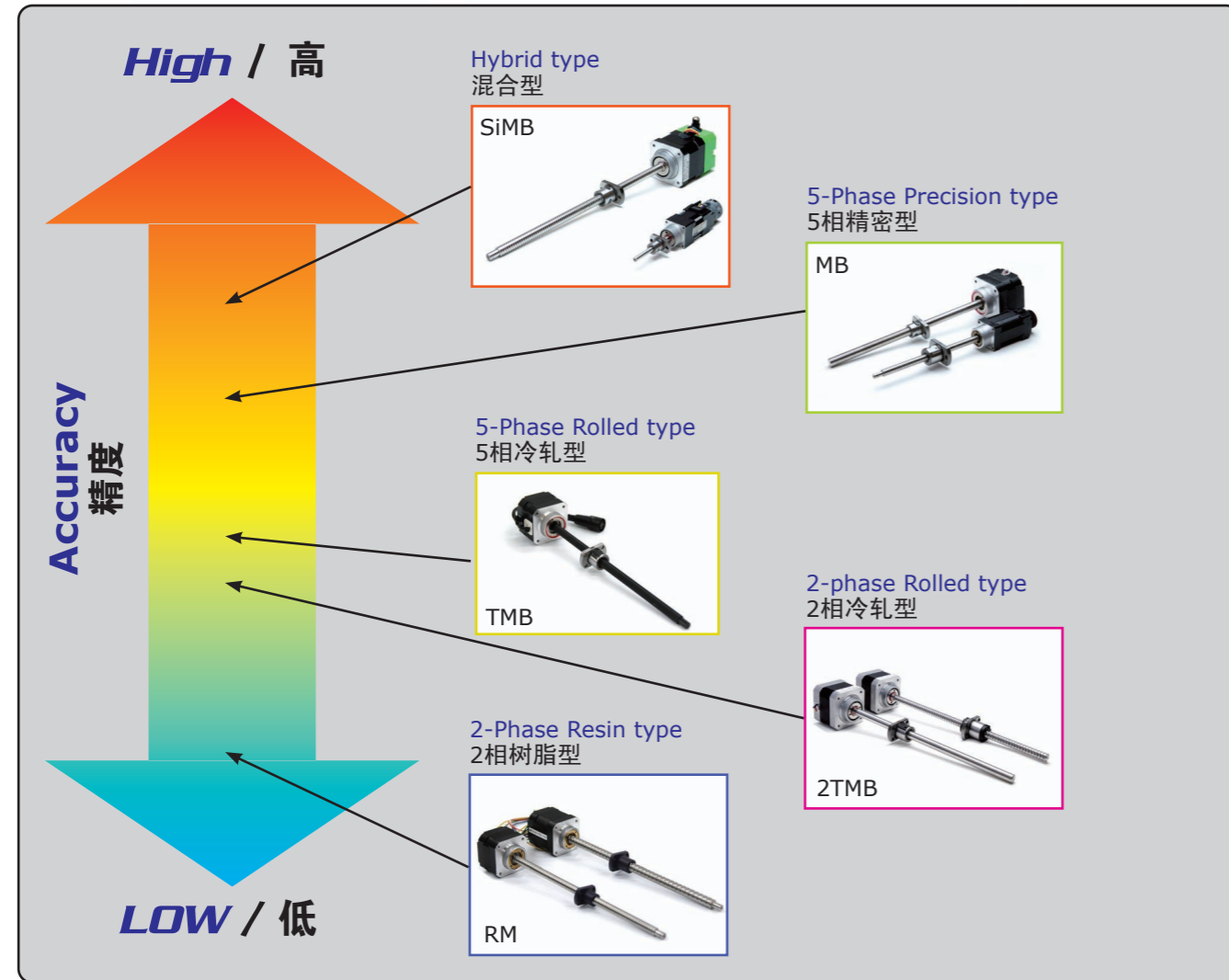
表 F-2 : 丝杠轴公称外径与导程的组合 / Table F-2 ; Combination of Shaft Nominal dia. & Lead Unit (单位) : mm

Lead / 导程	0.5	1.0	2	4	5	6	10	12	20
Shaft Nominal dia. / 轴径									
4	MB	MB TMB SiMB							
5				TMB					
6		MB TMB	MB TMB			TMB			
8		MB TMB 2TMB SiMB	MB TMB 2TMB RM SiMB		TMB 2TMB RM SiMB			TMB 2TMB SiMB	
10			MB	MB			RM		RM



MoBo系列根据用户的精度要求，备有从高精度到通用品的各种类型的产品。

The MoBo series provides various types of combination for Screw & Motor ranging from high precision to multipurpose type depending on the customer requirement.



【精密滚珠丝杠型 / Precision Ball Screw type (MB)】



魔博
MoBo

采用精密滚珠丝杠+5相步进电机，是实现高性能和精密定位的驱动组件。精密滚珠丝杠的标准精度等级为C3。

This series is high performance, high accurate positioning drive unit with Precision Ball Screw and 5-phase Stepping Motor. C3 class Precision Ball Screws are adopted for this series.

【冷轧滚珠丝杠型 / Rolled Ball Screw type (TMB)】

冷轧魔博
Rolled MoBo



采用冷轧滚珠丝杠+5相步进电机组，可实现一般精度的定位。使用精度等级为Ct7的冷轧滚珠丝杠。

This series is all-round performance drive unit with Rolled Ball Screw and 5-Phase Stepping Motor. Ct7 class Rolled Ball Screws are built in this series.

【2相冷轧滚珠丝杠型 / 2-phase Motor & Rolled Ball Screw type (2TMB)】

2相冷轧魔博
2-phase Rolled MoBo

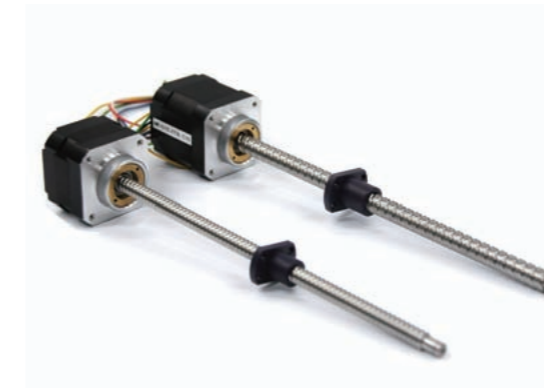


是将精度等级为Ct7的冷轧滚珠丝杠组装到2相步进电机的通用型产品。

Ct7 class Rolled Ball Screw is installed into 2-phase Stepping Motor. This type can achieve low cost and multiuse for various fields.

【树脂螺母滑动丝杠型 / Resin Lead Screw type (RM)】

树脂魔博
Resin MoBo



将树脂螺母滑动丝杠（树脂导程丝杠）组装到2相步进电机的产品。采用滑动特性优异的聚酰胺类MRH螺母，可免润滑使用，并能降低滑动时的噪音。

2-phase Stepping Motor is mounted directly onto the end of a Resin Lead Screw Shaft. MRH Nut of polyamide type Resin with good sliding properties is employed. It can be used without oil and lower noise can be achieved when operating.

【混合型 / Hybrid type (SiMB)】

Si-魔博
Si- MoBo



采用精密滚珠丝杠+Si-servo的混合型产品，可实现“完全等间距定位”、“无振动”、“无失调”。精密滚珠丝杠的标准精度等级为C3。

This series have high accurate positioning, ultra smooth drive, and closed loop operation by using Precision Ball Screw with C3 accuracy and Si-servo Motor.