



YC-800 / 1225

SPLINE ROLLING MACHINE

冷作滾造成型機

A new machine for cold-forming of splines, serrations, oil grooves, and precision threads.



昇晨機械股份有限公司
YIEH CHEN MACHINERY CO.,LTD

冷作滾造成型機 SPLINE ROLLING MACHINE

YC-80

經過多年研究開發，六星集團羿晨機械公司推出全新加工理念的冷作滾造成型機，是加工精密汽車，機車，農機，堆高機，氣壓，油壓及各類五金工具零件的最佳利器。無論是螺旋齒輪，正齒輪，栓槽、油溝槽，蝸桿，滾花及螺紋等皆可精密快速滾製。

這台特殊設計的冷作滾造成型機，具有獨特的高速加工特性，比傳統機械切削的加工在速度上快近30倍，且在齒形，導程，節距表面精度上均可達到高精度的要求，而且可確保工件材質上均勻性，若成型刀在640mm之間可確保測量量稍徑，跨齒厚均在0.015mm之內。

冷作滾造成型機具備有快速換刀設計，如工件材料均勻穩定，齒刀壽命大約加工可達100,000~200,000件，且YC-1225機種可同時夾持兩組齒刀在一個行程內可完成兩個部份以上的高效率加工，大幅提高齒條產能，完全符合本集團“給組織活力，給制度生命，給公司成長，給客戶滿意”的宗旨。

YIEH CHEN Machinery of "SIX STAR GROUP" presents this all new Spline Rolling Machine. The Spline rolling process is inherently accurate, with surface finishes of 3 to 6 micro-inches obtainable. Spline Rolling is best suited for long production runs or intermittent runs of a variety of parts. It's the fastest and most economical method of producing involute toothed forms.

Many different types of splines, serrations, oil grooves, worm gears, screws, knurls, threads and similar forms can be rolled in individually or in combination in just 3 to 7 seconds.

This process will generate excellent surface finishes, increase shear strength due to grain flow, and reduce material requirements due to "Chipless forming and achieve excellent mass-productivity. Forming racks is easily to change and conveniently accomplished.

It meets our group policy as "Give organization vitality, Give system life, Give company development and Give customers satisfaction."

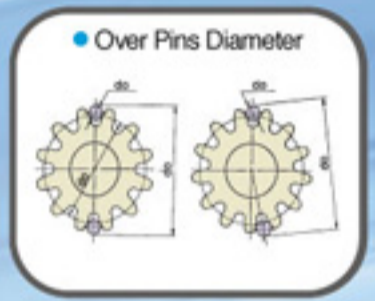
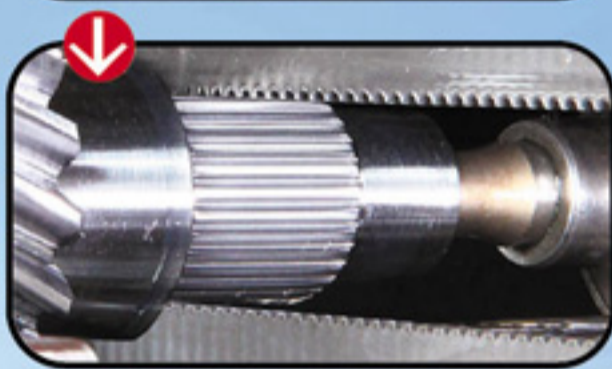
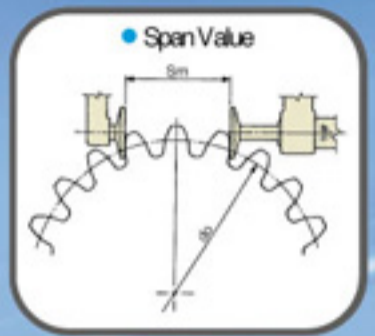
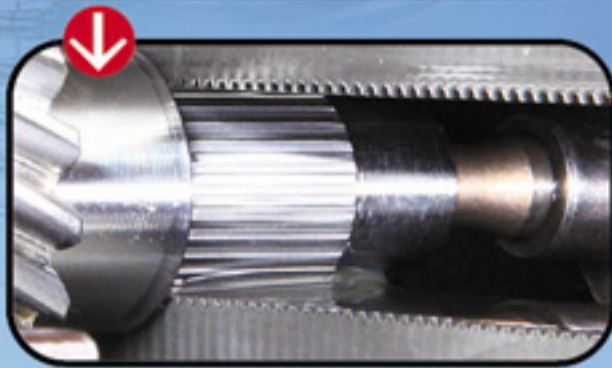
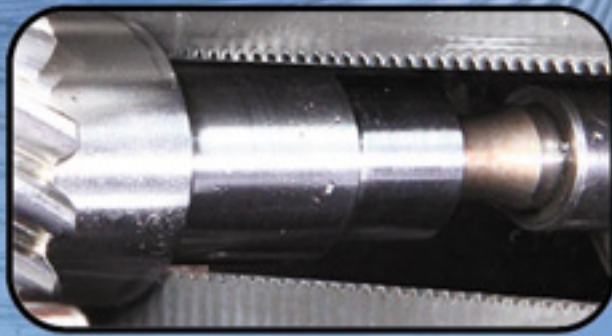
加工精密汽車、機車、農機、堆高機、氣壓、油壓、及各類五金工具零件的最佳利器。螺旋齒輪，正齒輪，栓槽、油溝槽，蝸桿，滾花及螺紋等皆可精密快速滾製。

Special for precision parts of vehicle, motorcycle, agricultural machine, filter, pneumatic, hydraulic & various hardware tools, etc. Splines, Serrations, Oil grooves, Worm gears, Screws, Knurls, Threads and similar forms. "Chipless forming to achieve excellent mass-productivity.



MACHINE

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項目 ITEM	型式 MODEL	YC-800	YC-1225
最小栓槽軸直徑 Min. component diameter	mm	16 (0.63")	16 (0.63")
最大栓槽軸直徑 Max. spline diameter	mm	40 (1.57")	50 (1.97")
最大栓槽軸長度 Max. spline length	mm	110 (4.33")	110 (4.33")
最小工作長度 Minimum component length	mm	100 (3.94")	100 (3.94")
最大工作長度 Maximum component length	mm	1000 (39.37")	1200 (47.24")
最大栓槽軸模數 Max. spline module		1.25	1.5
標準齒刀 Standard length of spline forming rack		640mm (24")	915mm (36") (Option 1220mm, 48")
標準牙刀 Standard length of thread forming rack		360mm (14.17")	360mm (14.17")
油壓馬達 Hydraulic motor		40HP(6P)	50HP(6P)
冷凍機 Cooler pump		5HP	5HP
控制器 PLC control Ssystem		Mitsubishi	Mitsubishi
佔地面積 Floor space (LxWxH)	mm	2700x4200x2100	3700x4200x2100
裝箱材積 Packing measurement (LxWxH)	mm	4000x5000x3000	5000x5000x3000
機械淨重 Net weight	Kgs	12,000 kgs	15,000
裝箱毛重 Gross weight	Kgs	12,500 kgs	15,600

▲本公司不斷進行研究改善工作，因此本型錄內所有的尺寸設計與特性如有變更，恕不另行通知。

▲We reserve the right to change design, color or specification without notice.

Spline Rolling Machine

冷作滾造成型機

標準附件：

- 1.機械安全裝置
- 2.工件定位裝置
- 3.潤滑裝置
- 4.冷卻裝置
- 5.電器控制裝置
- 6.作業工具及工具箱
- 7.操作維護說明書

Standard Accessories:

- 1.Machine Safety Device
- 2.Parts Setter
- 3.Lubrication System
- 4.Cooling System
- 5.Electrical Control Unit
- 6.Tooling & Tool Box
- 7.Operation & Maintain Manual

特殊附件：

- 1.各型齒刀
- 2.自動裝填裝置
- 3.特殊中心頂針
- 4.接受特殊訂製

Optional Accessories:

- 1.Various Forming Racks
- 2.Auto Loading System
- 3.Special Center
- 4.Customer-made acceptable



Forming racks



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