Y9050B

BEVEL GEAR QUENCHING PRESS



TIANJIN NO.1 MACHINE TOOL WORKS

Y9050B 锥齿轮淬火机

一. 机床的性能和用途

本机床是对汽车、工程机械、拖拉机、冶金等行业锥齿轮进行淬火的热处理设备,同时对其它盘状零件也可以在本机上进行淬火。

本机床是由PLC控制,除工件装卸外,其它运动都可自动完成的淬火设备。该机床采用电、液相结合控制 机床的自动工作循环,有利于被淬火零件的精度控制和质量的稳定,又可减轻工人的劳动强度。

本机床工作台(下模)采用液压传动,可在上下料位置与工作位置间移动,将加热至淬火温度的零件逐个送 人本机床,在机床内冷却,完成淬火工序。

本机床具有如下结构性能,保证了淬火质量和变形控制。

- 淬火时零件的外环、内环和内孔可以分别施加压力 (分别可调)。
- 施加的压力可选固定压力或脉动压力 (脉动频率可调)。
- 工作台(下模)平面具有凹凸调整装置。
- 在淬火过程中可实现分段喷油冷却 (油量和时间可分别调整)。

Main Features and Usage of Machine

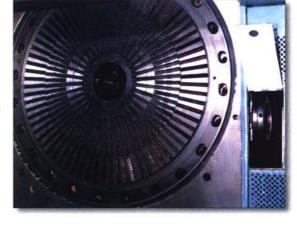
This machine is a kind of heat treatment equipment for quenching bevel gears used in automotive, construction machinery, tractor, metallurgic machinery and other industries. At the same time, the round and flat parts can also be hardened on this machine.

The machine is equipped with a PLC control. Except the workpiece loading and unloading, the machine can be put into operation automatically. Electric and hydraulic controls are used for the operation in an automatic quenching cycle so as to increase the accuracy and stabilize the quality of quenched parts, with the operators' labour being lightened.

The worktable (lower die) of machine moves between the loading position and working position of workpiece by hydraulic control, in order to transfer the workpiece heated to quenching temperature to the working position of machine one after another and to be cooled in the machine. After that, the quenching operation is finished.

For ensuring the quenching quality and controlling the distortion of workpiece, the machine is with following constructional features.

- When workpiece being quenched, outer ring, inner ring and hole will be pressured separately (separate setting).
- The pressure can be selected as fixed pressure or pulsing pressure which can be adjusted.
- A concave & convex setting equipment is provided on the worktable (lower die).
- During the quenching operation, cooling oil in different step can be realized with oil flow and time setting separately.



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二. 机床技术规格 Specifications of Machine

机床基本型主要技术参数
Specifications for Basic Type Machine

最大工件直径		
Max. diameter of work	mm	500
扩张器压杆安装基面至下模平面距离		
Distance between mounting surface of expander pressing rod and be	earing surface of le	ower die
最高		
Maximum	mm	280
最低		
Minimum	mm	250
内外压环安装基面至下模平面距离		
Distance between mounting surface of inner & outer rings and bear	ing surface of low	er die
最高	Ì	
Maximum	mm	165
最低		100
Minimum	mm	140
下模平面可凹凸调整直径范围		* 177
Range of diameter for adjusting concave & convex on lower die	mm	Ф 160- Ф 430
凹 (在Φ 160mm 直径处)		1100 1 100
Concave (at dia.160mm)	mm	0.6
凸 (在Φ 160mm 直径处)		0.0
Convex (at dia. 160mm)	mm	0.6
最大压力		0.0
Maximum pressure		
外压环		
Outer ring	kg	7500
内压环	1.8	7300
Inner ring	kg	7500
扩张器	n _b	1300
Expander	kg	3500
冷却油	118	3300
Cooling oil		
容量		
Volume	L	1300
流量		1500
Flow	L/sec	27.5
电动机	B/ GCC	27.3
Electric Motor		
液压泵用		
Hydraulic pump	Kw rpm	4 1440
冷却泵用	zz rpm	1 1110
Cooling pump	Kw rpm	7.5 2900
外形尺寸(长×宽×高)	IIII Ipiii	1.5 2700
Overall dimensions $(L \times W \times H)$	mm	2880 × 1237 × 2622
净重	111111	2000 ** 1231 ** 2022
Net weight	kg	5300

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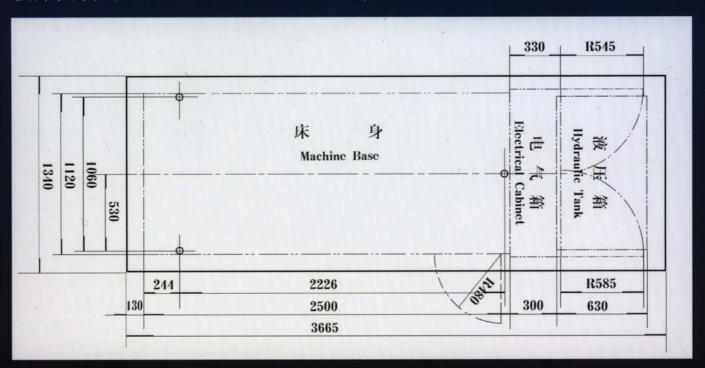
机床变型可选功能技术参数 Specifications for option function machine

最大工件直径 Max. diameter of work	mm	625	
最大压力			
Max. pressure			
外压环	lear	9800	
Outer ring	kg	9800	
内压环	kg	9800	
Inner ring	ng.	7000	
扩张器	kg	4500	
Expander			
下模平面可凹凸调整直径范围	mm	Φ 152- Φ 510	
Range of diameter for adjusting concave & convex on lower die	mm	Ψ 132- Ψ 310	

注: 随着产品技术不断提高, 以上规格仅供参考。

Note: The specifications are for you reference only, because of the continuous development of our product.

机床安装图 Machine Erection Drawing



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