

Company Introduction

Xinxiang SKF Machinery Co., LTD is a high-tech enterprise integrating research & development, production, sales and service. The Company, not only possessing senior engineering technicians engaged in R&D and production of machinery precision processing equipment but also owning advanced production and inspection equipment, is professional to produce GMM630, GMM700, GMM720 and GMM1000 series high-precision numerically-controlled double side grinding and lapping machines.

GMM series products, adhering core technology of German in double side grinding and lapping machine, can guarantee reliability, precision and repeated precision of processing parallel faces to the greatest extent, and can replace imported grinding machine. The products can be widely used for grinding the lapping in auto parts industry, compressor industry, pump compressor industry, hydraulic piece industry and electronic industry.

The company, complying with requirement of ISO-9000 quality management system, strictly controls working procedure quality and product quality, so as to guarantee stable quality.

Constantly following innovation and development, we work hard for customer satisfaction. We look forward to making progress and creating resplendence with you!

Double Side Grinding and Lapping Machine Equipment Overview

When the series equipment works, upper and lower grinding discs as well as a planet wheel rotate simultaneously, to drive work pieces to do reciprocating planet motion between the two grinding discs. Various grinding discs such a diamond CBN, cast iron, GC and the like can be adopted for different requirements of various products, so as to realize double-side precision and grinding on work pieces made from various materials. Our equipment adopts advanced probe side measurement way and SONY size measuring controller, to realize real-time online measurement control on processed work pieces.



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Double Side Grinding and Lapping Machine

Machine Features and Customer Benefits at a Glance:

Machine features	Customer benefits
Hardware	
Applicable to various processes	Configure machine depending on customers' demands on processing technology
High-strength cast iron machine body	Low vibration and low deformation during processing
High-precision bearing	Guarantee rigidity and precision of machine
Three independent adjustable driving motors are applied to upper disc, lower disc and inner ring	Guarantee optimal flatness, parallelism degree and surface finish
Upper working disc can be manually or automatically taken out	Rapid and convenient to load and unload work piece and to change working tray
Pneumatic control	Realize optional regulation and automatic conversion among pressures of primary, major and fine stages
High-precision pneumatic pressure system in low friction with upper working disc	Precisely conduct processing parameters required by procedures to guarantee excellent processing precision
Digital size control system	Realize online measurement of processed piece
Inner ring rotates under servo driving	Precise location, convenient for semi-automatically loading and unloading
A semi-automatic loading/unloading device can be configured (option)	To shorten working duration and improve working efficiency
Grinding disc of CBN grinding wheel	High efficiency and high precision
Constant-temperature cooling and filtering system	Prevent grinding disc from deforming and guarantee processing precision
Software	
Touch screen control interface	Simple, direct and convenient operation interface
Compressed protection for upper working disc	Protect working disc and work piece
Strong fault diagnosis function	Effectively eliminate fault in real time
A plurality of functions for selection, such as processing technology regulation, countdown timer, etc.	
Record rotating speed during processing through a program data recording system	
Other features	
No or less maintenance, simple and convenient operation	Quite low operation cost
Unique processing technology and professional technical knowledge	Customized processing solution, to improve production capacity

Application fields

Hydraulic element: blade pump, steering valve, plunger pump, gasoline pump, hydraulic motor, etc.;

Compressor part: air condition compressor blade, piston, cylinder, refrigerator compressor valve plate, etc.;

Engine part: internal combustor part, booster pump part, oil nozzle/oil pump part, etc.;

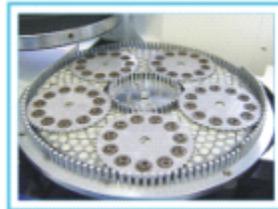
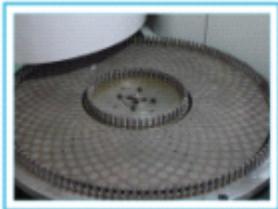
Various hard alloy blades, high-precision bearing, sealing piece, watch part, ceramic valve core, magnetic material, etc.

Parts of sample



Double Side Grinding and Lapping Machine

Technical parameters Parameter/model	GMM470	GMM530	GMM630	GMM700	GMM720	GMM810	GMM1000	GMM1200
Grinding disc diameter phi (mm)	Phi 470	Phi 530	Phi 630	Phi 700	Phi 720	Phi 810	Phi 1000	Phi 1200
Disc width (mm)	120/150	150/180	160	180	220	220/240	260/290	400
Maximum pressure (pa)	300	300	600	600	600	900	1000	1500
Upper disc motor power (KW)	0.75	2	5.5	5.5	5.5	7.5	9.2	11
Upper disc rotating speed (rpm)	70	70	105	105	105	80	80	85
Lower disc motor power (KW)	0.75	2	5.5	5.5	5.5	7.5	9.2	11
Lower disc rotating speed (rpm)	70	70	105	105	105	80	80	85
Inner ring motor power (KW)	0.37	1.1	2	2	2	3	3	5
Inner ring rotating speed (rpm)	40	50	75	75	75	75	65	65
Equipment dimension L*W*H (mm)	1500*1100 *2000	1500*1100 *2000	1800*1900 *2500	1800*1900* 2500	1800*1900* 2500	2100*180 0*2700	2500*2100 *2700	2600*3000*2300
Weight (kg)	1500kg	2000kg	2800kg	3000kg	3000kg	4000kg	4500kg	6000kg
Maximum height (mm) of work piece	30	50	65	75	75	80	100	100
Specifications and parameters can change depending on customers' demands								



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SKF Machinery

Precision Numerically-controlled Double Side Grinding and Lapping Machine

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