



M1432x1000mm Distance Universal Cylindrical Grinder Machine High Precision

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Luyoung
- Certification: CE
- Model Number: M1432
- Minimum Order Quantity: 1
- Price: USD6000-USD30000
- Packaging Details: non-fumigation wooden box
- Delivery Time: 45 working days
- Payment Terms: L/C, T/T
- Supply Ability: 30/SET



Product Specification

- Max.Dia Ground: 320
- Max.length Ground: 1000
- Max.load Weight Between Centers: 150kg
- Max.ground Hold Dia(ID): 125mm
- Center Height: 165mm
- Highlight: **Universal Cylindrical Grinder Machine, M1432x1000mm, High Precision Universal Cylindrical Grinding Machine**

Product Description

Introduction to Cylindrical Grinders

Cylindrical grinders are precision machine tools specifically designed for grinding the outer surfaces of workpieces. They are widely used in the mechanical manufacturing and processing industries. Below is a detailed introduction to cylindrical grinders:

Basic Structure

A cylindrical grinder mainly consists of the following components:

Headstock: Used to fix and drive the workpiece, ensuring stability during the grinding process.

Tailstock: Provides additional support, typically used for processing long workpieces.

Wheelhead: Houses the grinding wheel and is responsible for performing the actual grinding operation.

Working Principle

The cylindrical grinder removes excess metal material by having a rotating grinding wheel come into contact with the workpiece, thereby forming the desired shape and dimensions. The workpiece is clamped between the headstock and tailstock, while the grinding wheel rotates around its central axis for efficient grinding.

Features

High Precision: Capable of achieving extremely high machining accuracy, suitable for precision grinding of shafts, conical shapes, and other workpieces.

Versatility: Can accommodate various materials (such as aluminum and steel) based on different types of grinding wheels and configurations.

Ease of Use: Modern cylindrical grinders are often designed for easy loading and unloading of workpieces, with efficient automation features.

Excellent Surface Finish: Compared to other rough machining techniques, cylindrical grinders can provide a higher surface finish, reducing subsequent finishing time.

Specifications:

SPECIFICATIONS		Units	M1432x1000
Capacity	Max.Dia ground	mm	320
	Max.length ground	mm	1000
	Min.Dia ground	mm	10
	Max.load weight between centers	kg	150
	Max.ground hold dia(ID)	mm	125
	Max. grinding depth	mm	160
	Center Height	mm	165
	Max. length between centers	mm	1000
Worktable	Swivel angle CCW/CW	°	3/6
	Infinitely variable hydraulic speed control	m/min	0.1-3
	Max.travel	mm	1010
	Handwheel /revolution	mm	9.6
Workhead	Work head swiveling angle	°	CCW:60° ; CW:30°
	Spindle taper		Morse No.4
	Speed range	rpm	30,48,75,118,190,300
Tailstock	Center travel/Manual	mm	≥23
	Center travel/Hydraulic	mm	≥15
Internal grinding tool	Internal grinding spindle speed	r/min	14000
	Spindle taper		1:5
Motor	Compulsory lubrication motor	Kw	1.5
	Coolant motor		0.15
	Grinding wheel motor		5.5
	Wotkhead motor		0.75
	Internal grinding motor		1.1
Wheel head	Grinding wheel size (D x W x B)	mm	500*52*203
	Revolution angle(CW/CCW)	°	10/5
	Spindle speed	rpm	1316
	Fast travel speed	r/min	≥30
	Lateral manual stroke	mm	65
	Handwheel feed/revolution	mm	1

General Specification	Min feed	mm	0.002
	Wheelhead total feed travel	mm	150
	Machine size	mm	3400x1800x1800
	Machine weight	kg	3700

外圆磨床MI432

CYLINDRICAL GRINDING MACHINE



Application Areas

Cylindrical grinders are widely used in industries such as automotive, aerospace, and defense, especially in the production of components that require high precision and good surface quality, such as shafts, rolling bearings, and drill bits.



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