

# ***REVOLUTIONIZING GRINDING SOLUTION***



Formerly known as



## ABOUT US

Kiya Products Private Limited is a Rajkot-based manufacturer of precision grinding machines under the brand name “Kiya” with a legacy of **3 decades** of its heritage, **formerly known as Solco Grinders**. It provides a wide range of grinding machines built on proven design and technology, with more than **1400+ installations across PAN India**.

## MISSION

To design, develop and **deliver excellence** in grinding machines comprising of quality standards & latest technology innovations at a competitive price. We believe in cultivating a **cherished work environment** where our employees can meet their potential and thrive in their personal and professional growth.

## VISION

By 2030, to be a **benchmark organization** in providing **world-class grinding machines** to satisfy customers through continuous improvement. Also, to identify and nurture the **integrity, talent, teamwork & creativity** of employees leading to an exceptional work environment.

## VALUES

- Customer Centric Approach
- Passion Driven Team
- Quality Oriented Performance
- Honesty and Work Ethics

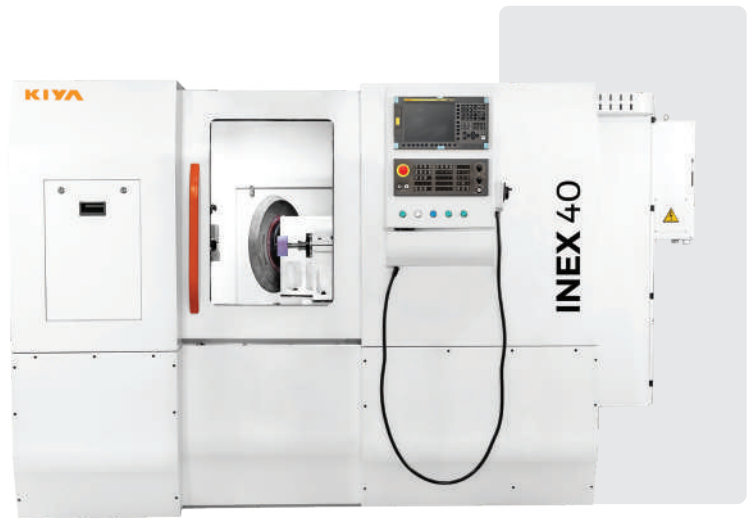
## **PRODUCT BASKET**

- CNC External Cylindrical Grinder (Straight / Angular)
- CNC External Bush / Track Grinder
- CNC Internal Grinder Long Series
- CNC Heavy External Grinder (Straight / Angular)
- CNC Centerless Plunge Grinder
- Hydraulic External Cylindrical Grinder
- CNC Hybrid Grinder (ID & OD)
- CNC Internal Cylindrical & Track Grinder
- Hydraulic Internal Cylindrical Grinder
- Centerless Grinder
- CNC LIP Grinder
- Horizontal Spindle Rotary Table Surface Grinder
- Special Purpose Grinder

## **APPLICATION**

- Automobile Components
- Engineering Components
- Textile Components
- Pumps and Motors
- Railways
- Agriculture
- Electricals
- Defence
- Hydraulic & Pneumatic Component Manufacturing
- Ceramic Components
- Carbide Components
- Bearing
- Die and Mould
- Toolroom
- Oil and Gas
- Aerospace
- Medical & Instrumentation
- Machine Tool & Equipment Manufacturing

**INEX Series**  
**CNC Hybrid  
Grinder**  
(ID / OD)



**Overview**

A combination of grinding operations—including internal, external, face, groove, radius, internal step, external step and taper grinding—can be performed in a single chucking. This significantly increases grinding efficiency and ensures superior concentricity and accuracy of the ground components.

The machine bed is made of one-piece, close-grained, specially graded cast iron with a box-type structure. The optimum ribbing provides high static and vibration-free dynamic rigidity to the machine. An artificial stress-relieving process is carried out for better dimensional stability.

Precision cross-roller guideways on X, Z, and Z1 Axis with centralized lubrication ensure smooth and highly accurate axis movement.

**Specification**

		<b>Model</b>
<b>Description</b>	<b>Unit</b>	<b>INEX-40</b>
MAX. Grinding ID X Depth	mm	Ø 300 X 300
MIN. Grinding ID	mm	Ø 30
MAX. Grinding OD	mm	Ø 400
Max. Weight of Workpiece with Chuck	kg	Ø 90
Max. Length of Workpiece	mm	300
Type of Wheelhead		Dual Independent Wheelhead

**EG/AG Series**  
**CNC External  
Cylindrical Grinders**  
(Straight / Angular)



**Overview**

Machine is suitable for high production of shaft type components and various OD grinding applications.

The Machine bed is made of one piece close special graded grain cast iron box structure design with optimum ribbing provides high static and vibration free dynamic rigidity to the machine. Artificial Stress relieving process carried for more dimensional stability.

Precision hand scraped V-Flat table guide ways for Z-axis and Cross Roller slide for X-axis with centralised lubrication.

Laser calibrated axis for high precise positioning Accuracy and Repeatability.

Machine is provided with Cartridge type Wheel spindle with two match pair sets of Angular Bearing for smooth performance while material cutting. Spindle is driven by induction motor and transmitted by Poly V belt.

**Specification**

		Model EG/AG				
Description	Unit	450	600	800	1000	1200
Admit between centres	mm	450	600	800	1000	1200
Work head Center Height	mm	150 (200 Optional)		150 (200 Optional)		
Grinding Diameter Max (O.D.)	mm	ø 275		ø 275		
Grinding Diameter Min (O.D.)	mm	ø 5		ø 15		
Max. Weight of Job Between Center	Kg	120		120		
Grinding wheel size	mm	ø 500 x 203.4 x 40 (width upto 80mm)				

**IG Series  
CNC Internal  
Cylindrical Grinder**



**Overview**

Machine is suitable for high production of bore grinding applications.

The Machine bed is made of one piece close special graded grain cast iron box structure design with optimum ribbing provides high static and vibration free dynamic rigidity to the machine. Artificial Stress relieving process carried for more dimensional stability.

The Precision hand scraped V-Flat table guide ways for X & Z-axis with centralised lubrication. Cross Roller linear guideways for both axis are available as optional.

Laser calibrated axis for high precise positioning Accuracy and Repeatability.

Machine is provided with cartridge type wheel spindle with two match pair sets of Angular bearing for smooth performance while material cutting. Spindle is driven by Induction motor & Transmitted by flat belt. High Frequency spindle is available as optional.

**Specification**

		Model
Description	Unit	IG 30
Max. Rotating Diameter	mm	ø 300
Min. Grinding Diameter (I.D. / Depth)	mm	ø 16 / 40
Max. Grinding Diameter (I.D. / Depth)	mm	ø 280 / 80
Maximum job weight with chuck	kg	50
Centre height from Slide	mm	212

**EBG Series  
CNC External  
Bush / Track Grinder**



**Overview**

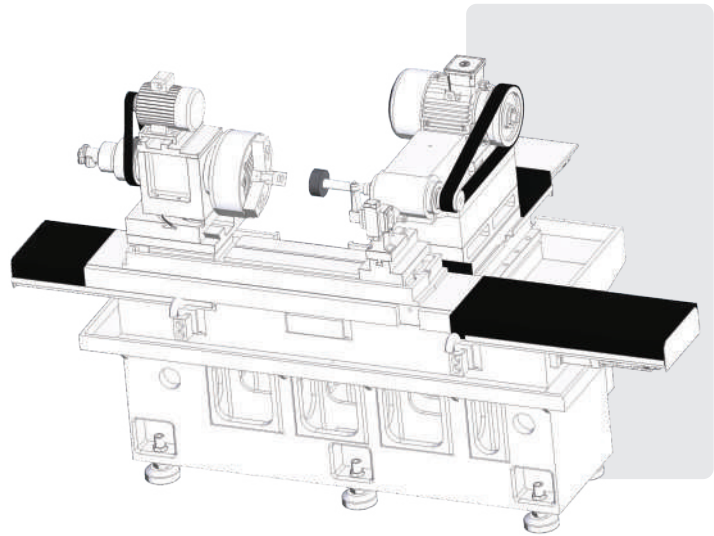
Machine is suitable for OD Grinding of various types of Bush Grinding and Track Grinding of Bearings.

The Machine bed is made of one-piece close special graded grain cast iron box structure design with optimum ribbing provides high static and vibration free dynamic rigidity to the machine. Precision cross roller slide for main X-axis and dresser unit mounted on X-Y axis table with cross roller slides operated with servo motors with centralised lubrication on main X-axis slide table for better profile grinding with interpolation. Wheel head with cartridge type spindle. The work head can be swivelled for taper grinding. Also available with hydraulic operated auto loading.

**Specification**

		Model
Description	Unit	EBG 120
Maximum Grinding Diameter	mm	Ø 120
Workhead Motor Power	kW/HP	1.5 / 2
Wheelhead Motor Power	kW/HP	7.5 / 10
Grinding Wheel Size	mm	Ø 610 X 304.8 X 40 (80/100)
Discard Dia	mm	400
X-Axis Stroke	mm	180
X-Axis Ball Screw	mm	32 X 5
X-Axis Slide Cross Roller	mm	15 X 15
X-Axis Servo Motor	Nm	8
Dresser Slide Ball Screw	mm	20 X 5 (On both axis)
Dresser Slide Cross Roller	mm	9 X 9 (On both axis)
Dresser Slide Servo Motor	Nm	4 (On both axis)
Auto Loading Range	mm	Ø 30 - 120
Workhead Swivelled	Degree	22.5° (Cone Angle - 45°)
Machine Floor Space	mm	3020 X 1920

## **IGL Series CNC Internal Long Grinder**



### **Overview**

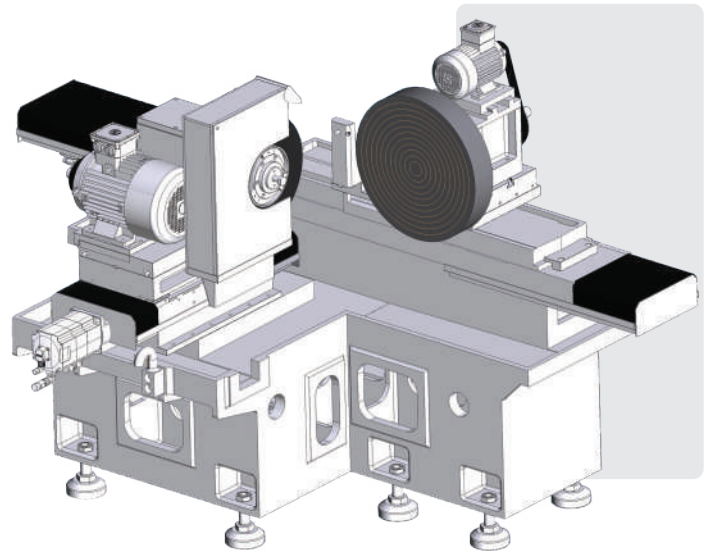
Machine is Suitable for Bore Grinding of Long Parts with Extra Grinding Length

The Machine bed is made of one piece close special graded grain cast iron box structure design with optimum ribbing provides high static and vibration free dynamic rigidity to the machine. Z-Axis table can swiveled and taper grinding can be done with steady rest. Machine is provided with cartridge type wheel spindle. Spindle is driven by induction motor and transmitted by flat belt. Frequency spindle available as optional. The work head can be swiveled for taper grinding.

### **Specification**

		<b>Model</b>	
<b>Description</b>	<b>Unit</b>	<b>IGL 400</b>	<b>IGL 550</b>
Maximum Job Length	mm	400	550
Maximum Job Dia.	mm	ø 250	ø 250
Maximum Grinding Depth	mm	200 (From Face)	200 (From Face)
Maximum Grinding Dia.	mm	ø 180	ø 180
Minimum Grinding Dia.	mm	ø 60	ø 60
Workhead Motor	kW/HP	2.2 / 3	2.2 / 3
Wheelhead Motor	kW/HP	5.5 / 7.5	5.5 / 7.5
Arm Type Dresser		Yes	Yes
Ball Screw Z-Axis	mm	ø 32 X 10	ø 32 X 10
Ball Screw X-Axis	mm	ø 32 X 5	ø 32 X 5
Z-Axis		V - Flat Turcite	
X-Axis		Cross Roller 15 X 15 mm	
X-Axis Stroke	mm	200	200

**LG Series  
CNC Lip Grinder**



**Overview**

Machine is with Horizontal Spindle with Vertical Rotary Table / Magnetic Centerless Shoe.

Machines is suitable for Surface Grinding of Flat parts or Lip / Face Grinding of Bush / Bearing type of Components.

The Machine bed is made of one-piece close special graded grain cast iron box structure design with optimum ribbing provides high static and vibration free dynamic rigidity to the machine. Machine is provided with cartridge type wheel spindle. Heavy work head spindle with live center.

**Specification**

		Model	
Description	Unit	LG 300	LG 500
Minimum - maximum job height	mm	5 - 120	5 - 120
Magnetic rotary table	mm	N/A	Ø 500
Magnetic centerless shoe	mm	Ø 100 / 200 / 300	N/A
Grinding wheel size	mm	Ø 508 X 203.2 X 40 mm	Ø 508 X 203.2 X 40 mm (80 mm Opt.)
X-axis stroke	mm	200	200
X-axis ball screw	mm	Ø 32 X 5	Ø 32 X 5
Workhead Motor	kW/HP	1.5 / 2	1.5 / 2
Wheelhead Motor	kW/HP	5.5 / 7.5	5.5 / 7.5

## HCG Series

### Hydraulic Cylindrical Grinders



#### Overview

The Machine bed is made of one piece close special graded grain cast iron box structure design with optimum ribbing provides high static and vibration free dynamic rigidity to the machine. Artificial Stress relieving process carried for more dimensional stability.

The Precision hand scraped V-Flat table guide ways with continuous lubrication. Longitudinal hand travel of the table is by rack and pinion arrangement and automatic travel by hydraulic mechanism.

The Hydro Dynamic wheel head spindle is made of case hardened Nickel Chrome alloy steel ground and micro finished & runs in adjustable White metal bush bearing to achieve vibration free rotation with high accuracy and long life. Drive to the wheel head is transmitted by poly V-belts.

#### Specification

Description	Unit	Model				
		HCG-E 450	HCG-E 600	HCG-E 800	HCG-E 1000	HCG-E 1200
Admit between centres	mm	450	600	800	1000	1200
Work head Center Height	mm	150 (200 optional)		150 (200 optional)		
Grinding Diameter Max (O.D.)	mm	Ø 275 (375)		Ø 275 (375)		
Grinding Diameter Min (O.D.)	mm	Ø 5		Ø 15		
Grinding Diameter Max (I.D. / Depth)	mm	Ø 100/80				
Grinding Diameter Min (I.D. / Depth)	mm	Ø 12/20				
Max. Weight of Job Between Center	kg	70		120		

*\*Machine also available with External Single axis CNC. Hydraulic Cylindrical Internal Grinder is also available.*

**CL Series**

**Hydraulic  
Centerless Grinder**



**Overview**

The Machine bed is made of one piece close grained cast iron box structure design with optimum ribbing provides high static and vibration free dynamic rigidity to the machine. Artificial Stress relieving process carried for more dimensional stability.

The cantilever Grinding wheel spindle Head is fixed to the bed and is of sturdy design to ensure maximum Rigidity and smooth operation. Grinding wheel spindle is made of special alloy steel especially heat treated ground and lapped to achieve very high dimensional stability, accuracy and long life. Hydro Dynamic Grinding wheel spindle runs in phosphorus bronze bush bearings with oil lubrication system. Drive from main motor to spindle is through V-belts and V-grooved pulleys.

**Specification**

		<b>Model</b>
<b>Description</b>	<b>Unit</b>	<b>CL 100</b>
Min. Grinding diameter	mm	Ø 3
Max. Grinding diameter	mm	Ø 100
Grinding wheel Size (OD x ID x Width)	mm	Ø 400 x Ø228.5 x 150
Regulating wheel Size (OD x ID x Width)	mm	Ø 250 x Ø127 x 150
Floor Space	mm	2200 x 1700
Machine Weight	kg	3000

*\*Machine also available with Single axis CNC and Hydraulic Plunge Mechanism.*

**KIYA****is the new**[kiyaproducts.com](http://kiyaproducts.com)**KIYA PRODUCTS PRIVATE LIMITED**

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**Note:**Minimum and Maximum grinding diameter as specified above may vary based on specific requirement. Work head spindle is with Live and Dead center operating provision. Features and Specification may vary as specific job requirement. Colour as shown in picture may not match with actual machine colour. Machine Guard May Change as per Job Specification and Accessary used. Admit between center, Grinding length,Wheel utilisation will change depending upon swivel angle. Please discuss suitability to your requirement before ordering to us. As a part of Continuous Improvement Process, design and specification subjected to change without prior notice and information.