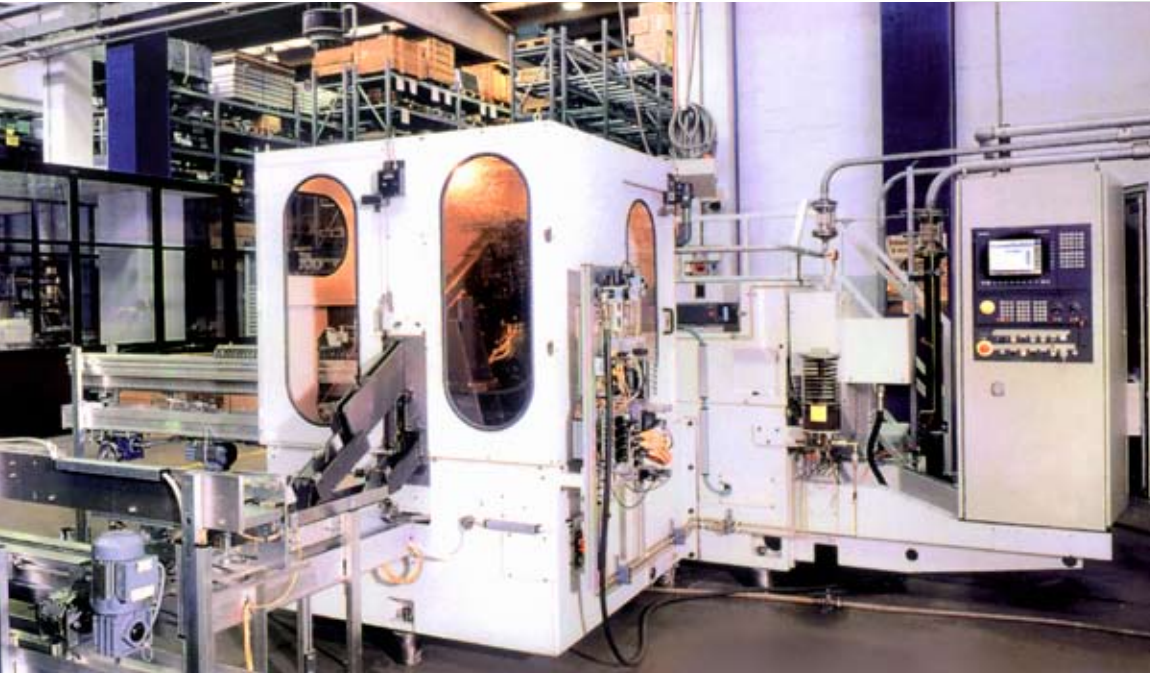




fives cinetic

Landis Giustina Double Disc Grinders



The World's Most Advanced Double Disc Grinders

The Landis Giustina double disc grinding machines scale new heights in processing precision flat and parallel surface parts, with unrivaled quality and cycle time standards.

As world leaders in double disc grinding technology, Cinetic Landis has over 150 years of experience at our disposal. This experience has been applied in a new direction resulting in the Landis Giustina Series double disc grinders.

Design:

The design brief was simple create a compact, technologically advanced machine to meet customer requirements of quality, reliability, footprint and cost constraints. Finite Element Analysis methods were used to ensure a rigid, thoroughly stable machine of high system stiffness, housed within the minimum footprint.

Years of R&M data from existing customer installations and value engineering techniques to reduce the number of parts used provide increased reliability and machine availability for your most demanding production applications.



Some various working modes:

- Rotary
- Through-feed
- Reciprocating - Continuous
- Plunge grinding mode

High production equipment



LEFT:
Double disc grinder type R242: for con rods

RIGHT:
Machine type R 220: plunge grinder for rings

More than 150 years experience in designing and manufacturing production grinders and special grinding machines for the international manufacturing marketplace

Double disc grinders with horizontal or vertical axis, wheel diameter from 450 to 1067 mm and spindle power up to 75 KW.

A Large Range of Double Disc Grinders:

- Rotary plunge feed for rough and finish grinding of con rods (R242)
- Rotary through feed for super-finishing of gearbox faces (R242)
- Combined machine (through and plunge work) for connecting rod faces (through-mode) and crank or pin end reduction (R242)
- Plunge grinding for rings or gear faces of automatic transmission (R220)

High Quality Equipment For Better Performances

- Reduced machine dimensions
- Cast iron machine bed
- Rotary feed carrier
- Wheelheads, fixed on machine bed, swiveling on vertical and horizontal planes
- Wheel spindles fixed on axially sliding quills
- Constant temperature of spindles through coolant flow
- Diamond dressing system mounted on wheel cover
- Thermal deformation compensation through special materials

Features & Technology

- Servo-controlled precision ball-screw feed system
- Parallel wheel setting for plunge process ensures optimal grind characteristics
- Change plunge speed by changing carrier rotation speed
- Wheel change in less than 30 minutes or less
- Compact design saves valuable floor space



Double disc grinder type R220: detail of component clamping for gears

Machine Comparison						
Horizontal		R220	Giustina R224	R230	R242	
Work Piece Diameter	Through Feed	2mm - 100mm	2mm - 200mm	No	12mm - 250mm	
	Rotary	4mm - 95mm	4mm - 150mm	4mm - 150mm	4mm - 200mm	
Work Piece Thickness	Through Feed	1mm - 50mm	1mm - 80mm	No	1mm - 95mm	
	Rotary	4mm - 50mm	4mm - 80mm	4mm - 80mm	4mm - 95mm	
Speed M/Min	Through Feed	1mm - 20mm	1mm - 20mm	No	1mm - 20mm	
	Rotary	0.5mm - 7mm	0.5mm - 7mm	0.5mm - 9mm	0.5mm - 9mm	
Abrasive Diameter		508mm / 610mm	660mm / 760mm	760mm	760mm / 915mm	
Abrasive Speed	rpm	1130 / 940	870 / 755	755	755 / 625	Peripheral Wheel Speed 30m/s
Motors	KW	15 - 22 DC	37 AC	28 DC	75 DC	Peripheral Wheel Speed 30m/s
	HP	20 - 30	50	40	100	
Weight	kg	6000	8000	8000	12000	
Size	M	3 x 2.3	3.5 x 3	4 x 2.3	4.5 x 4	
Applications	Feed Through	Yes	Yes	No	Yes	
	Rotary	Yes	Yes	Yes	Yes	
	Rot/Plunge	Yes	Yes	Yes	Yes	
	Swing Arm	Yes	Yes	Yes	Yes	
	Special	Yes	Yes	Yes	Yes	
	Recip	Yes	Yes	Yes	Yes	