ALEX
Machine Tools

ALEX MACHINE TOOLS
50+ YEARS
SINCE 1964

FULL LINE OF GRINDING SOLUTIONS

ACCURACY

PRODUCTIVITY

RELIABILITY

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Welcome to

ALEX Machine Tools

Customer Solutions Is Our Focus

Alex Machine Tools is the largest manufacturer of high-precision surface grinding machines in India.

Exceeding customer requirements and a commitment to accuracy, precision, and reliability are the principles that form the cornerstone of Alex Group. This has remained unchanged throughout our history and is why we are the leading manufacturer of surface grinding machines in India. Alex offers a full range of surface grinding machines, from hydraulically operated surface grinders to high-power rotary surface grinders to precision double disc grinders. We offer a wide variety of sophistication across our product range, from CNC controls to automatic in-process gauging. Whether it is feeding systems, dual spindle configurations, or automatic loading and unloading, our fantastic technical team has the ability to customize extensively to the customer's need and application.

Over the past 30 years, Alex has grown its manufacturing base to include three plants in India. Alex Machine Tools Pvt. Ltd., located at Gaiwadi Industrial Estate, Goregaon West, Mumbai, manufactures Reciprocating, Rotary, Double Disc, and Special Purpose Grinding Machines. Alex Grinders Pvt. Ltd., located at Shah Industrial Estate, Lonavala, and Allied Industrial Products in Kamshet, manufactures precision components and spare parts for Alex Machine Tools and companies all over the world. Alex also has an in-house service division dedicated to installation and after-sales service.

Our founder, Mr. Alex F. Lobo, made ALEX a leading force in grinding technology. Today, our directors, Nisha Lobo and Vernon Pontes, together with an incredibly experienced team of design, quality, sales, and customer support engineers, are propelling Alex into the future--a future of continued innovation, new products, and global presence. Alex enjoys a clientele of blue chip companies in all major sectors of the engineering industry. Over 5,000 Alex grinders are in successful operation all over the world. Countries include the United States, Germany, the U.K., Canada, Saudi Arabia, United Arab Emirates, Oman, Kenya, Nigeria, Sri Lanka, Nepal, Bangladesh, Singapore, Thailand, Indonesia, Malaysia, Australia, and New Zealand, among others. Everything that we have done has been the result of our strong team, relentless emphasis on satisfying the customer, and continuous development in design, quality, electronics, and automation.

Our Principles and Values Are:

- Safety – of the employee and user of our products will never be compromised.
- Respect for the individual – Treat others like you would like to be treated.
- Integrity – Do what we say and say what we do.
- Best Idea wins – ideas are encouraged company-wide.

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Surface & Profile Grinders (NH/BW/CF)

Description:

In our NH family, we have separated all movements in X, Y, and Z directions. Our objective is to attain a precision of 90°± 0° in all 3 axes and to preserve this precision at all times. This provides superior stability even at extreme ends of the working range.

The spindle runs in super-precision angular contact preloaded bearings with optimum concentricity and balance characteristics.

The spindle head travels in the vertical column in hand-scraped guideways with power elevation and manual infeed.

The transverse carriage carrying the column traverses firmly on the base on hand-scraped guideways via electromechanical drive. This provides intermittent cross-infeed.

The table carries out longitudinal traverse only so that the entire grinding area is at all times fully supported by the slideways of the front base, even when the table is in its end position.

The column carries out cross traverse only. This ensures the transverse guiding system is always uniformly supported by the rear base slideways regardless of column position. The spindle head only carries out vertical traverse, hence the grinding wheel is always at the same distance from vertical guideways regardless of working height, which in turn ensures absolute parallelism between the grinding wheel and the worktable.

For large working areas, high table loads, and very high rates of material removal we offer our BW Series which distinguishes itself by its heavy-duty construction. The spindle head, as well as vertical cross traverse and table guideways, are specially designed for heavy-duty cycles.

The Alex low-pressure hydraulic unit is located inside the base which establishes a defined thermal state in the machine frame.

Optional: All models are available with CNC controls for automatic grinding cycles including wheel dressing and compensation.

All models can be customized for specific applications to suit customer needs.

For Creep feed applications we offer our CF Series. These series focus on individual production solutions. All 3 axes X, Y, and Z are powered by servo motors and drive through precision ball screws. Feed rates start from a few millimeters to a very wide range on the upper end.

The spindle is of superior rigid construction to handle the heavy full-cut grinding load.

The coolant system is of very robust design to ensure adequate dissipation of heat.

The dressing system is designed to suit individual applications. (Fully automatic cycle to include rapid approach creep feed grinding, auto dressing, compensation, and return to the home position.)

Standard Equipment:

Grinding wheels (2): grinding wheel flange unit, wheel balancing mandrel; table guard; set of wrenches; hydraulic system; electric motors; all internal wiring and control gear

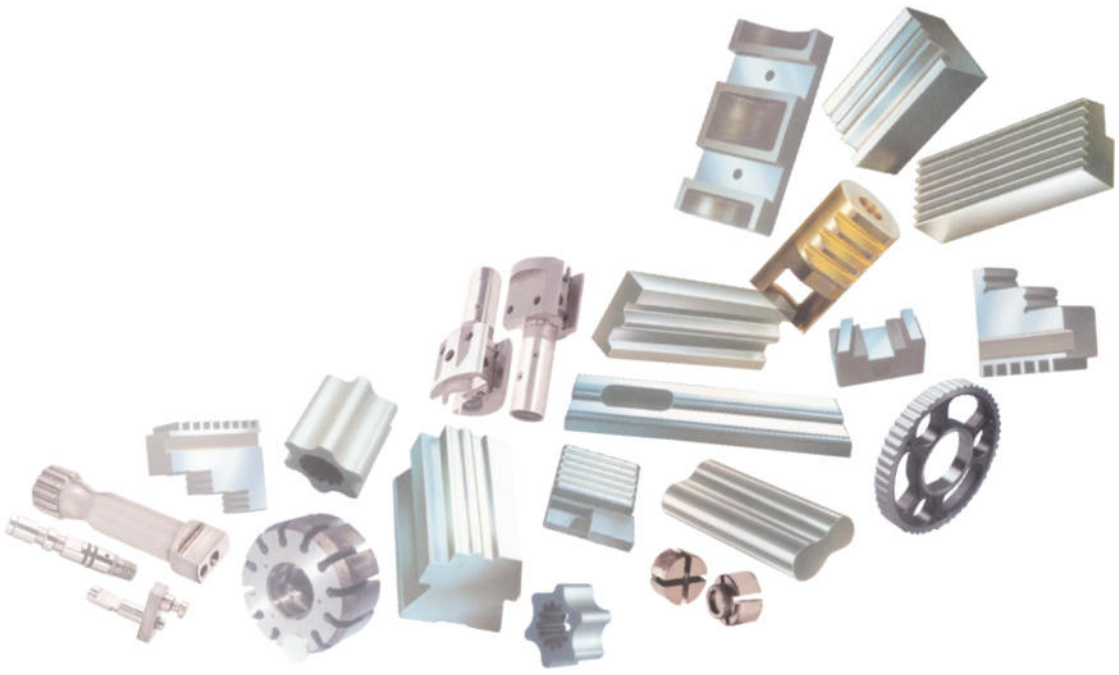
Optional Equipment:

Plain vice; Swivel vice; Universal vice; Sine vice; Wheel balancing stand; Radius & Angular wheel truing attachment; Head Wheel dresser; Wet grinding attachment; Magnetic Separator and/or Paperband filter; a Dust control unit; Demagnetizer - platen or aperture type; Nonelectric magnet; Electromagnetic chuck with or without built-in demagnetizer; dressing diamond; Machine lamp; Workpiece handling system; Spare grinding wheels; Re-circulating Ball Screws (free from backlash).

CNC & PLC Controls Options Available:

All machines can be provided with

- CNC control for automatic grinding cycle including wheel dressing and compensation.
- PLC control with Servo motor for Auto Down feed.



Technical Specifications:

Model			NH-500	NH-600	NH-750	NH-8040	NH-1000
Machining Range	Grinding Length*Width (Max)	MM (IN)	500*250 (20*10)	600*300 (24*12)	750*300 (30*12)	800*400 (32*16)	1000*250 (40*10)
	Distance between table spindle centre (Max)	MM (IN)	400 (16)	400 (16)	400 (16)	400 (16)	400 (16)
	Working Surface	MM (IN)	500*250 (20*10)	600*300 (24*12)	750*300 (30*12)	800*400 (32*16)	1000*250 (40*10)
	Weight Carrying Capacity of table (Max.)	KG (LB)	200 (440)	250 (500)	400 (880)	600 (1320)	500 (1100)
Table	Max. Longitudinal movement	MM (IN)	550 (22)	650 (26)	800 (22)	850 (22)	1050 (22)
	Max. Cross movement	MM (IN)	280 (11)	330 (13)	330 (13)	430 (17)	280 (11)
	T-slots (number*width)	MM (IN)	1*14 (1*0.55)	1*14 (1*0.55)	1*14 (1*0.55)	1*14 (1*0.55)	1*14 (1*0.55)
Longitudinal Movement	Max. Table Speed	m/min (ft/min)	20 (65)	20 (65)	20 (65)	20 (65)	20 (65)
Cross Movement	Auto cross feed at each Table reversal	MM/stroke (inch/stroke)	0.25-6 (0.01-0.24)	0.25-6 (0.01-0.24)	0.25-6 (0.01-0.24)	0.25-6 (0.01-0.24)	0.25-6 (0.01-0.24)
	Manual feed rate / turn	MM (IN)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)
	Least count of hand wheel	MM (IN)	0.01 (0.0004)	0.01 (0.0004)	0.01 (0.0004)	0.01 (0.0004)	0.01 (0.0004)
Vertical Movement	Manual feed rate / turn	MM (IN)	0.2 (0.0008)	0.2 (0.0008)	0.2 (0.0008)	0.2 (0.0008)	0.2 (0.0008)
	Least count of hand wheel	MM (IN)	0.002 (0.0001)	0.002 (0.0001)	0.002 (0.0001)	0.002 (0.0001)	0.002 (0.0001)
	Power elevation	MM (IN)	100 (4)	100 (4)	100 (4)	100 (4)	100 (4)
Grinding Wheel	Diameter*Thickness*Bore	MM (IN)	200*20*50.8 (8*0.75*2)	200*20*50.8 (8*0.75*2)	250*25*76.2 (10*1*3)	300*25*76.2 (12*1.5*3)	300*25*76.2 (12*1*3)
Motors	Speed	RPM	2800	2800	1400	1400	1400
	Grinding Spindle	HP (KW)	2 (1.5)	2 (1.5)	5 (3.75)	5 (3.75)	5 (3.75)
	Vertical Up Down	HP (KW)	0.25 (0.18)	0.25 (0.18)	0.25 (0.18)	0.25 (0.18)	0.25 (0.18)
	Cross Feed	HP (KW)	0.25 (0.18)	0.25 (0.18)	0.35 (0.26)	0.35 (0.26)	0.35 (0.26)
	Coolant Pump	HP (KW)	0.12 (0.1)	0.12 (0.1)	0.12 (0.1)	0.12 (0.1)	0.12 (0.1)
Machine Size	Length*Width*Height	MM (IN)	1250*1450*1650 (50*57*65)	1350*1640*1650 (57*81*65)	1450*2050*1650 (57*81*65)	1600*2150*1700 (63*85*67)	1450*2300*1650 (57*90*65)
Weight	Net Weight	KG (LB)	1200 (2640)	1500 (3300)	2800 (6160)	3200 (6600)	4000 (8800)
	Gross Weight	KG (LB)	1600 (3520)	1900 (4180)	3600 (7920)	3800 (8360)	4800 (10560)

Technical Specifications:

Model			BW-800	BW-1000	BW-1200	BW-1500
Machining Range	Grinding Length*Width (Max)	MM (IN)	800*500 (32*20)	1000*500 (30*12)	1200*600 (32*16)	1500*700 (40*10)
	Distance between table spindle centre (Max)	MM (IN)	450 (18)	450 (16)	450 (16)	450 (16)
	Working Surface	MM (IN)	800*500 (32*20)	1000*500 (30*12)	1200*600 (32*16)	1500*700 (40*10)
	Weight Carrying Capacity of table (Max.)	KG (LB)	800 (1760)	1000 (880)	1200 (1320)	1500 (1100)
Table	Max. Longitudinal movement	MM (IN)	850 (34)	1050 (22)	1250 (22)	1550 (22)
	Max. Cross movement	MM (IN)	550 (21.65)	555 (11)	655 (11)	800 (11)
	T-slots (number*width)	MM (IN)	1*14 (1*0.55)	1*14 (1*0.55)	3*14 (1*0.55)	3*14 (1*0.55)
Longitudinal Movement	Max. Table Speed	m/min (ft/min)	20 (65)	20 (65)	20 (65)	20 (65)
Cross Movement	Auto cross feed at each Table reversal	MM/stroke (inch/stroke)	1-10 (0.01-0.24)	1-10 (0.01-0.24)	1-10 (0.01-0.24)	1-10 (0.01-0.24)
	Manual feed rate / turn	MM (IN)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)
	Least count of hand wheel	MM (IN)	0.01 (0.0004)	0.01 (0.0004)	0.01 (0.0004)	0.01 (0.0004)
Vertical Movement	Manual feed rate / turn	MM (IN)	0.2 (0.0008)	0.2 (0.0008)	0.2 (0.0008)	0.2 (0.0008)
	Least count of hand wheel	MM (IN)	0.002 (0.0001)	0.002 (0.0001)	0.002 (0.0001)	0.002 (0.0001)
	Power elevation	MM (IN)	100 (4)	100 (4)	100 (4)	100 (4)
Grinding Wheel	Diameter*Thickness*Bore	MM (IN)	350*50*127 (14"*2*5)	350*50*127 (14*2*5)	350*50*127 (14*2*5)	350*100*127 (14*4*5)
Motors	Speed	RPM	1440	1440	1440	1440
	Grinding Spindle	HP (KW)	10 (3.75)	10 (3.75)	10 (3.75)	10 (3.75)
	Vertical Up Down	HP (KW)	0.75 ()	0.75 ()	0.75 ()	
	Cross Feed	HP (KW)	0.75 ()	0.75 ()	0.75 (0.26)	0.75 (0.26)
	Coolant Pump	HP (KW)	0.12 (0.1)	0.12 (0.1)	0.12 (0.1)	0.12 (0.1)
Hydraulic System	Working Pressure	Kg/cm2	10	10	10	10
	Power of Hydraulic Pump Motor	HP (KW)	3 (11)	3 (11)	3 (11)	3 (11)
	Tank Capacity	litres	200	200	200	200
Machine Size	Length*Width*Height	MM (IN)	1350*1640*1650 (57*81*65)	1890*2900*1890 (57*81*65)	2290*3500*2090 (63*85*67)	2290*4100*1890 (57*90*65)
Weight	Net Weight	KG (LB)	1500 (3300)	4800 (6160)	5500 (6600)	7000 (8800)
	Gross Weight	KG (LB)	1900 (4180)	5500 (7920)	7000 (8360)	8000 (10560)

Rotary Surface Grinder With Vertical Spindle (RV)

Description:

This series is designed for flat grinding of one side of the job at a time for each table load.

Rotary work table operates on large, circular ways-well lubricated by means of an oil sump. It carries an electromagnetic chuck with circular poles.

Access to the work table is unique, in that a greater proportion of the work table is opened for easier and safer work handling. Being a fixed center table, the initial accuracies are maintained for the entire life of the machine.

Wheel Spindle Head is of extremely rigid construction, with precision bearings duly preloaded. The segmented wheel is directly mounted at the lower end.

The column has oversize vertical vee and flatways fully protected from grinding dust and coolant by sliding steel guards. Wheel feed can be applied by hand or power. Precision Screw gives positive down feed on the head for accurately controlling small increments of feed.

CONTROLS as Optional:

Automatic electronic gauging can be provided. It gives a continuous measurement of work during the grinding cycle and visual indications that the work is approaching size. When work reaches a preset dimension grinding stops, the machine sparks out and the Head retracts. Since the job is directly probed, wheel wear is directly compensated.

CNC controls for Vertical axis with servo drives via precision ball screw are also available as optional equipment.

Technical Specifications:

Model		R-20	R-30	R-40	R-50	R-60
Magnet Table Diameter	MM (IN)	500 (20)	750 (30)	1000 (40)	1200 (40)	1500 (60)
Segmental Wheel Diameter	MM (IN)	350 (14)	450 (18)	550 (22)	700 (28)	810 (32)
Segments per set	Nos	8	8	10	12	14
Maximum Wheel Clearance	MM (IN)	150 (6)	250 (10)	250 (10)	350 (14)	500 (20)
Spindle Speed	RPM	1200	960	750	500	460
Table Speed	RPM	10 & 20	7.5 & 15	6 & 12	5 & 10	4 & 8
Automatic Feeds per min (infinitely variable)	MM (IN)	0.05 - 1.0 (0.002-0.04)	0.05 – 1.0 (0.002 – 0.04)	0.05 – 1.0 (0.002 – 0.04)	0.05 – 1.0 (0.002 – 0.04)	0.05 – 1.0 (0.002 – 0.04)
Spindle Motor	HP (KW)	7.5 (5.5)	25 (18.5)	30 (22)	60 (45)	75 (55)
Table Motor	HP (KW)	1/1.5 (0.75/1.1)	2/3 (1.5/2.2)	3/4 (2.2/3.7)	4/5 (3/3.7)	5/7.5 (3.7/5.5)
Machine Size Length*Width*Height	MM (IN)	1750*1200*1500 (69*47*59)	2000*1600*1900 (80*63*75)	2000*1600*1900 (80*63*75)	2900*2200*2400 (115*87*95)	3200*3200*2700 (126 * 126 * 106)
Net weight of machine	Kg (Lb)	2000 (4400)	5000 (11000)	6500 (14500)	9000 (20000)	13000 (29000)
Gross Weight of machine	Kg (Lb)	3000 (6500)	6000 (13000)	7500 (17000)	10500 (23000)	15000 (33000)

Standard Equipment:

Segmental Chuck with two sets of grinding segments

Built-in Wheel Dressing Unit

Table Guard

Set of Wrenches

All Electric Motors

Internal Wiring and Control Gear

Electro Magnetic Chuck

Complete Coolant Equipment

Optional Equipment:

Vertical Position Indicator (DRO)

Cylinder Wheel Holder

Demagnetiser Platten Type or Aperture Type

Dimmerstat (For variable magnet power)

Built-in Table Demagnetiser (For easy removal of jobs)

Electronic Sizing Unit

CNC Control

Auto lubrication system

Coolant filteration systems

CNC & PLC Controls Options Available:

All machine can be provided with

- CNC control for automatic grinding cycle including wheel dressing and compensation.
- PLC control with Servo motor for Auto Down feed.

Rotary Surface Grinding Machine With Horizontal Spindle (RH)

Description:

This series features our well-proven program of surface grinders with rotary tables. These machines are particularly suitable for High Precision Surface grinding of thin parts of high accuracy & Circular parts where one piece is to be ground at a time flat or with a radial taper. Besides, in applications where batches of small parts are to be ground with a high degree of parallelism & high surface finish this type of machine is a better alternative to a reciprocating machine as production time will be much less. This is because the grinding wheel is in constant touch with the grinding pieces, the operating speed of the workpieces is higher and the workpieces move constantly in one direction only.

Standard Equipment:

Grinding wheels (2): grinding wheel flange unit, wheel balancing mandrel; table guard; set of wrenches; coolant system; electric motors; all internal wiring and control gear.

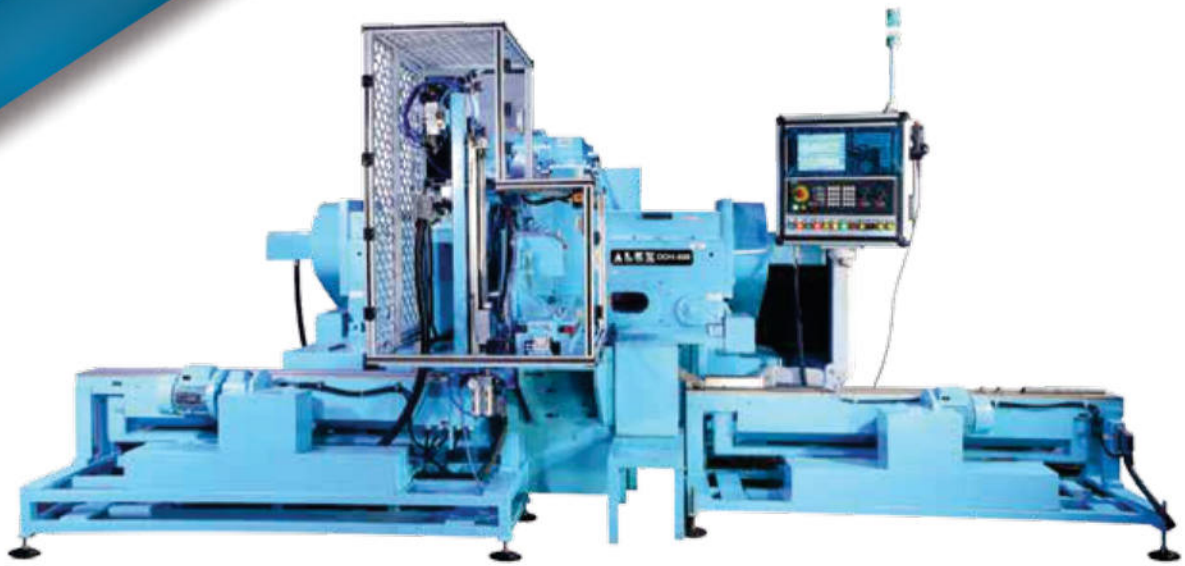
CNC & PLC Controls Options Available:

All machine can be provided with

- CNC control for automatic grinding cycle including wheel dressing and compensation.
- PLC control with Servo motor for Auto Down feed.
- Auto component gauging options can also be provided.

Technical Specifications:

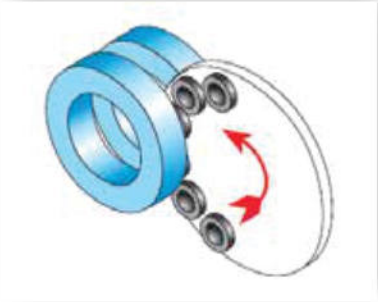
Model			RH-500	RH-650	RH-1000	RH-1500
Capacity	Magnetic Chuck Diameter	MM (IN)	500 (20)	650 (25)	1000 (40)	1500 (60)
	Vertical Range Upto	MM (IN)	200 (8)	250 (10)	300 (12)	650 (26)
Speed and Feeds	Table Speed	RPM	10-50	8-40	4-15	4-15
	Automatic Cross Feed	M/min (ft/MM)	50-200 (2-8)	100-500 (4-20)	100-500 (4-20)	100-500 (4-20)
	Each Revolution of Hand Wheel	MM (IN)	0.200 (0.008)	0.200 (0.008)	0.200 (0.008)	0.200 (0.008)
	Each Gradation of Hand Wheel	MM (IN)	0.002 (0.0001)	0.002 (0.0001)	0.002 (0.0001)	0.002 (0.0001)
	Power elevation	M/min (IN/MM)	100 (4)	100 (4)	100 (4)	100 (4)
Grinding Wheel	OD * H * ID	MM (IN)	250*25*76.2 (10*1*3)	250*25*76.2 (10*1*3)	350*50*127 (14*2*5)	350*50*127 (14*2*5)
Motors	Speed	RPM	1500	1500	1500	1500
	Grinding Wheel	HP (KW)	5 (3.7)	5 (3.7)	10 (7.5)	15 (12)
	Table Rotation	HP (KW)	1 (7.5)	3 (2.2)	5 (3.7)	10 (7.5)
	Cross feed	HP (KW)	0.5 (0.37)	1 (0.75)	1 (0.75)	2 (1.4)
	Power elevation	HP (KW)	0.25 (0.18)	0.25 (0.18)	0.75 (0.55)	1.5 (1.11)
	Coolant pump	HP (KW)	0.15 (0.12)	0.25 (0.18)	0.25 (0.18)	0.5 (0.37)
General	Length * Width * Height	MM (IN)	1400 * 1400 * 1650 (55 * 55 * 65)	1700 * 1400 * 1950 (67 * 55 * 77)	2700 * 1500 * 2000 (107 * 60 * 79)	2700 * 1500 * 2000 (107 * 60 * 79)
	Net Weight of Machine	Kg (Lb)	1900 (4180)	2500 (5500)	5500 (12100)	8000 (17637)
	Gross Weight of Machine	Kg (Lb)	2600 (5720)	3200 (7040)	6300 (13860)	8500 (18740)



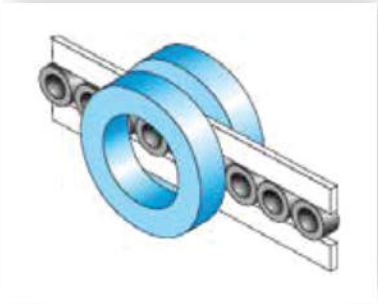
Duplex Grinder With Horizontal Spindle (DDH)

Description:

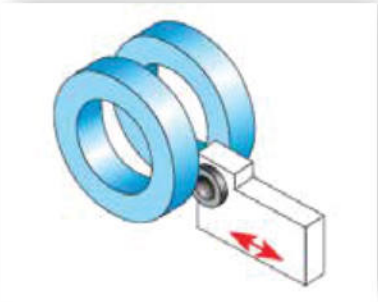
- This series uses powerful double disk grinding technology to simultaneously grind opposite and parallel surfaces flat, at unbelievable rates of production.
- Optimum loading systems to suit customer needs.
- Sturdy forged spindle supported by precision angular contact bearings provides accurate finishing even under heavy-duty loads.
- Robust spindle drive design through a splined sleeve and precision belt transmission to eliminate spindle deflection during grinding.
- Accurate positioning of grinding wheels with zero backlashes through a precision ball screw, anti-friction slide, and digital control.
- Vertical tilting and horizontal swiveling of the spindle is effected conveniently through a screw mechanism.
- Ample coolant supply via rotary union through two spindles.
- Swing arm wheel dresser is hydraulically operated.
- All controls within easy reach of the operator.
- Optional CNC controls for fully automatic grinding cycle including dressing and compensation.
- Optional Auto loading & unloading arrangement.
- Optional Auto gauging and compensation provision.



Rotating Carrier Feed



Through Feed



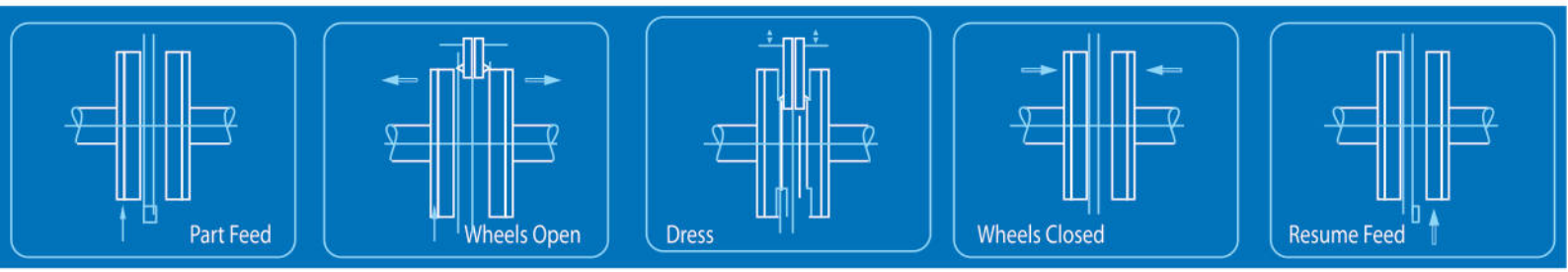
Oscillating Feed

Technical Specifications:

Model		DDH-400	DDH-500	DDH-600	DDH-760
Workpiece Diameter (max)	MM (IN)	70 (2.75)	90 (3.54)	120 (4.72)	150 (5.9)
Workpiece Thickness (max)	MM (IN)	20 (0.78)	25 (1)	50 (2)	80 (3.1)
Process Speed (Carrier)	RPM	1-5	1-5	1-5	1-5
Wheel Diameter	MM (IN)	400 (16)	500 (20)	600 (24)	760 (30)
Spindle Speed	RPM	1200	950	750	600
Spindle Motor (2 Units each)	HP (KW)	5 (3.7)	15 (11)	20 (15)	30 (22.3)
Machine Size Length*Width*Height	MM (IN)	1500*1900*1000 (59*75*40)	2000*2300*1550 (79*93*61)	2200*3000*1650 (87*119*65)	4000*2500*1800 (157*98*70)
Machine Net Weight	Kg (Lb)	4000 (8800)	6000 (13200)	10000 (22000)	14000 (30800)
Gross Weight of Machine	Kg (Lb)	5000 (11000)	7000 (15400)	11500 (25300)	16000 (35000)

Fully Automatic Dressing Cycle including positioning of Abrasive Disks to Grind Line, can be incorporated

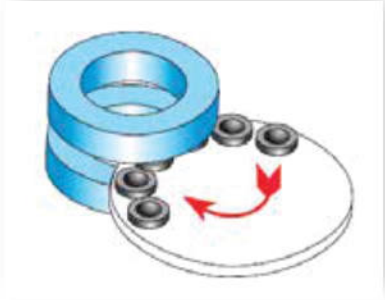
The dresser is programmed to make a specific number of dressing passes and define the amount of infeed per pass. Abrasive disks automatically infeed a preset increment at the completion of each dressing pass. Upon completion of the dressing cycle, both disks will automatically move to the original grind line, compensating for the dressed abrasives. The dressing is initiated by the operator pressing the "Dresser Start" button, or through the programmable control.



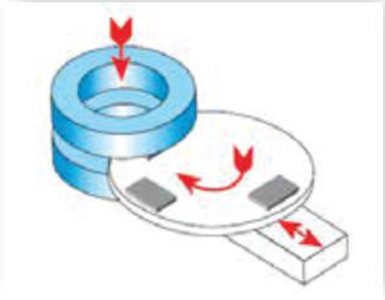
Duplex Grinder With Vertical Spindle (DDV)

Description:

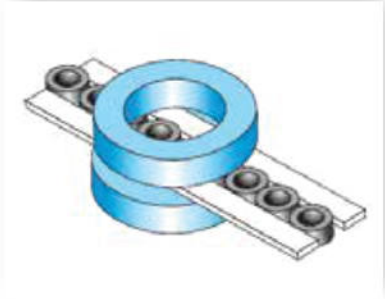
- This series is designed specifically for thin components or to suit automation in work feeding.
- Optimum loading systems to suit customer needs.
- Sturdy forged spindle supported by precision angular contact bearings provides accurate finishing even under heavy-duty loads.
- Robust spindle drive design is through a splined sleeve and precision belt transmission to eliminate spindle deflection during grinding.
- Accurate positioning of grinding wheels with zero backlashes through a precision ball screw, anti-friction slide, and digital control.
- Optimum entry angle for maximum accuracy through effective tilting of the upper head with the lower head in 2 directions.
- Ample coolant supply via rotary union through two spindles.
- Swing arm wheel dresser is hydraulically operated.
- All controls are within easy reach of the operator.
- Optional CNC Controls for Fully Automatic Grinding Cycle including dressing and compensation.
- Optional Auto loading & unloading arrangement.
- Optional Auto gauging and compensation provision.



Oscillating Feed



Rotating Carrier Feed



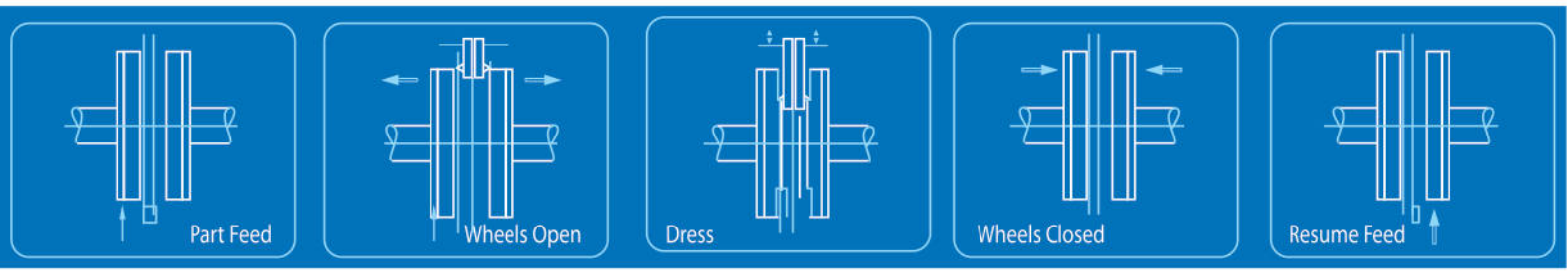
Through Feed

Technical Specifications:

Model		DDV-350	DDV-400	DDV-500	DDV-600
Workpiece Diameter (max)	MM (IN)	50 (2)	70 (2.75)	90 (3.54)	120 (4.72)
Workpiece Thickness (max)	MM (IN)	20 (0.78)	20 (0.78)	25 (1)	50 (2)
Process Speed (Carrier)	RPM	1-5	1-5	1-5	1-5
Wheel Diameter	MM (IN)	350 (14)	400 (16)	500 (20)	600 (24)
Spindle Speed	RPM	1200	1200	950	750
Spindle Motor (2 Units each)	HP (KW)	5 (3.7)	5 (3.7)	15 (11)	20 (15)
Machine Size Length*Width*Height	MM (IN)	2200*2600*3000 (87*103*119)	1500*1000*1900 (59*40*75)	2000*2300*2450 (79*93*97)	2200*2600*3000 (87*103*119)
Machine Net Weight	Kg (Lb)	2500 (5512)	4000 (8800)	6000 (13200)	10000 (22000)
Gross Weight of Machine	Kg (Lb)	3500 (7717)	5000 (11000)	7000 (15400)	11500 (25300)

Fully automatic dressing cycle including positioning of Abrasive Disks to Grind Line

The dresser is programmed to make a specific number of dressing passes and define the amount of infeed per pass. Abrasive disks automatically infeed a preset increment at the completion of each dressing pass. Upon completion of the dressing cycle, both disks will automatically move to the original grind line, compensating for the dressed abrasives. The dressing is initiated by the operator pressing the "Dresser Start" button, or through the programmable control.



Reciprocating Surface Grinder With Vertical Spindle (NV)

Description:

We have separated all movements in X, Y and Z direction.

Our objective is to attain a precision of 90° ± 0° in all 3 axes and to preserve this precision through the life of the machine.

Technical Specifications:

Model		NV-500	NV-750	NV-1000
Max. Longitudinal Table Travel	MM (IN)	550 (22)	800 (32)	1050 (42)
Max. Wheel Clearance above Table	MM (IN)	200 (8)	250 (10)	250 (10)
Working Surface over Magnet	MM (IN)	500 x 200 (20 x 8)	750 x 250 (30 x 10)	1000 x 250 (40 x 0)
Max. Table Speed	M/min ft/min	15 (50)	15 (50)	15 (50)
Power Elevation	MM/min IN/min	100 (4)	100 (4)	100 (4)
Least Count of Vertical Feed Hand Wheel	MM (IN)	0.002 (0.0001)	0.002 (0.0001)	0.002 (0.0001)
Size of Cup Wheel	MM (IN)	200 x 63 x 76.2 bore (8 x 2.5 x 3 bore)	250 x 63 x 76.2 bore (10 x 2.5 x 3 bore)	300 x 63 x 76 .2 bore (12 x 2.5 x 3 bore)
Power of Spindle Motor	HP (KW)	2 (1.5)	5 (3.7)	20
Power of Elevation Motor	HP (KW)	0.25 (0.18)	0.25 (0.18)	0.25 (0.18)
Power of Coolant Motor	HP (KW)	0.13 (0.09)	0.13 (0.09)	0.13 (0.09)
Speed of Grinding Spindle	RPM	2880	1440	1440
Working Pressure	KG/CM² (Lb/IN²)	10 (140)	15 (210)	15 (210)
Power of Hydraulic Pump Motor	HP (KW)	1 (0.75)	2 (1.5)	2 (1.5)
Tank Capacity	liters	50	60	60
Machine Size (Length*Width*Height)	MM (IN)	1250 x 1450 x 1650 (50 x 57 x 65)	1450 x 2050 x 1650 (57 x 81 x 65)	3500 x 1500 x 2000 (138 x 59 x 79)
Net Weight of Machine	Kg (Lb)	1200 (2640)	2800 (6160)	3500 (7716)
Gross Weight of Machine	Kg (Lb)	1600 (3520)	3600 (7920)	4300 (9479)

Special Solutions:

- We have the capacity and capability to arrange, design, and specially build "turn-key" grinding systems to precisely meet your specific requirements.
- ALEX MACHINE TOOLS Pvt. Ltd. has built a wide range of special-purpose machines that are explicitly engineered with state-of-the-art technology in diverse sectors such as Automobiles, Auto Ancillaries, Defense, General Engineering, Ferrites, etc.
- Based on a thorough understanding of the customer's components, tolerance, surface finish, and production requirements, we will recommend the optimum grinding solutions including the type of grinding method, handling systems, and controls. Our complete line offering and ability to customize our equipment gives us this competitive advantage.
- The high quality of our solutions is a result of over 30 years of grinding experience and our expertise in design and manufacturing innovation.

Our Road to the Future

- Continuous development to keep pace with changing technology
- Capability to provide high-technology grinding systems
- Optimum solutions through expert application engineering and a full line offering
- High quality from planning right through to delivery
- Reliable inputs satisfying global standards
- Testing to global standards of accuracy
- Competent and responsive after-sales service

Join the many renowned companies that have already used our machines and knowledge base to enhance their productivity and create value.

Our Surface Grinders List

Horizontal Surface Grinding - Reciprocating Table

Model	Max. Surface Ground (mm)	(in)	Std. Grinding Wheel Dia (mm)	(in)	Spindle Motor (hp)	(kw)
NH 500	500*250	(20*10)	200	(8)	2	(1.5)
NH 600	600*300	(24*12)	200	(8)	2	(1.5)
NH 750	750*300	(30*12)	250	(10)	5	(3.75)
NH 8040	800*400	(32*16)	300	(12)	5	(3.75)
NH 1000	1000*250	(40*10)	300	(12)	5	(3.75)
BW 800	800*500	(32*20)	350	(14)	10	(7.5)
BW 1000	1000*500	(40*20)	350	(14)	10	(7.5)
BW 1200	1200*600	(48*24)	350	(14)	10	(7.5)
BW 1500	1500*600	(60*24)	350	(14)	15	(11.2)

Creep Feed Grinding - Reciprocating Table

Model	Longitudinal Travel (mm)	(in)	Std. Grinding Wheel Dia (mm)	(in)	Main Motor (hp)	(kw)
750 CF	800	(32)	300	(11.8)	5	(3.7)
BW 800 CF	900	(35)	350	(14)	15	(11.2)

Horizontal Surface Grinding - Rotary Table

Model	Table Dia (mm)	(in)	Std. Grinding Wheel Dia (mm)	(in)	Spindle Motor (hp)	(kw)
RH 500	500	(20)	250	(10)	5	(3.7)
RH 650	650	(25)	250	(10)	5	(3.7)
RH 1000	100	(40)	350	(14)	10	(7.5)
RH 1500	1500	(60)	350	(14)	10	(7.5)

Vertical Surface Grinding - Rotary Table

Model	Table Dia (mm)	(in)	Segmental Wheel Dia (mm)	(in)	Spindla Motor (hp)	(kw)
R 20	500	(20)	350	(14)	7.5	(5.5)
R 30	750	(30)	450	(18)	25	(18)
R 40	1000	(40)	550	(22)	30	(22)
R 50	1250	(50)	700	(28)	60	(45)
R 60	1500	(60)	810	(32)	75	(55)

Through - Feed Surface Grinding - Rotary Table

Model	Table Dia (mm)	(in)	Speed Range rpm	Std. Grinding Wheel Dia (mm)	(in)	Spindle Motor (hp)	(kw)
R 20A	550	(22)	1-2	300	(12)	5	(3.75)
R 30A (Single Spindle)	750	(30)	1-2	450	(18)	15	(11)
R 30A2 (Twin Spindle)	750	(30)	1-2	400*2	(16*2)	10*2	(7.5*2)
R 40A2	1000	(40)	1-2	400*2	(16*2)	10*2	(7.5*2)

Duplex Surface Grinding - Vertical and Horizontal Spindle

Model	Workpiece Dia (mm)	(in)	Std. Grinding Wheel Dia (mm)	(in)	Spindle Motor (hp)	(kw)
DDV 350	50	(2)	350	(14)	5*2	(3.7 x 2)
DDV 400	75	(3)	400	(16)	5*2	(3.7 x 2)
DDV 500	100	(4)	500	(20)	15*2	(11 x 2)
DDV 600	120	(4.72)	600	(24)	20*2	(15 x 2)
DDH 400	50	(2)	400	(16)	5*2	(3.7 x 2)
DDH 500	75	(3)	500	(20)	15*2	(11 x 2)
DDH 600	100	(4)	600	(24)	20*2	(15 x 2)
DDH 660	100	(4)	660	(26)	25*2	(19 x 2)
DDH 760	150	(6)	760	(30)	30*2	(22 x 2)

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