

PRECISION DUPLEX GRINDER WITH VERTICAL / HORIZONTAL SPINDLE



50 Years Of
Grinding Excellence

ALEX
Machine Tools Pvt. Ltd.

www.alexmachinetools.com

DOUBLE DISK

DUPLEX GRINDER WITH HORIZONTAL SPINDLE (DDH)

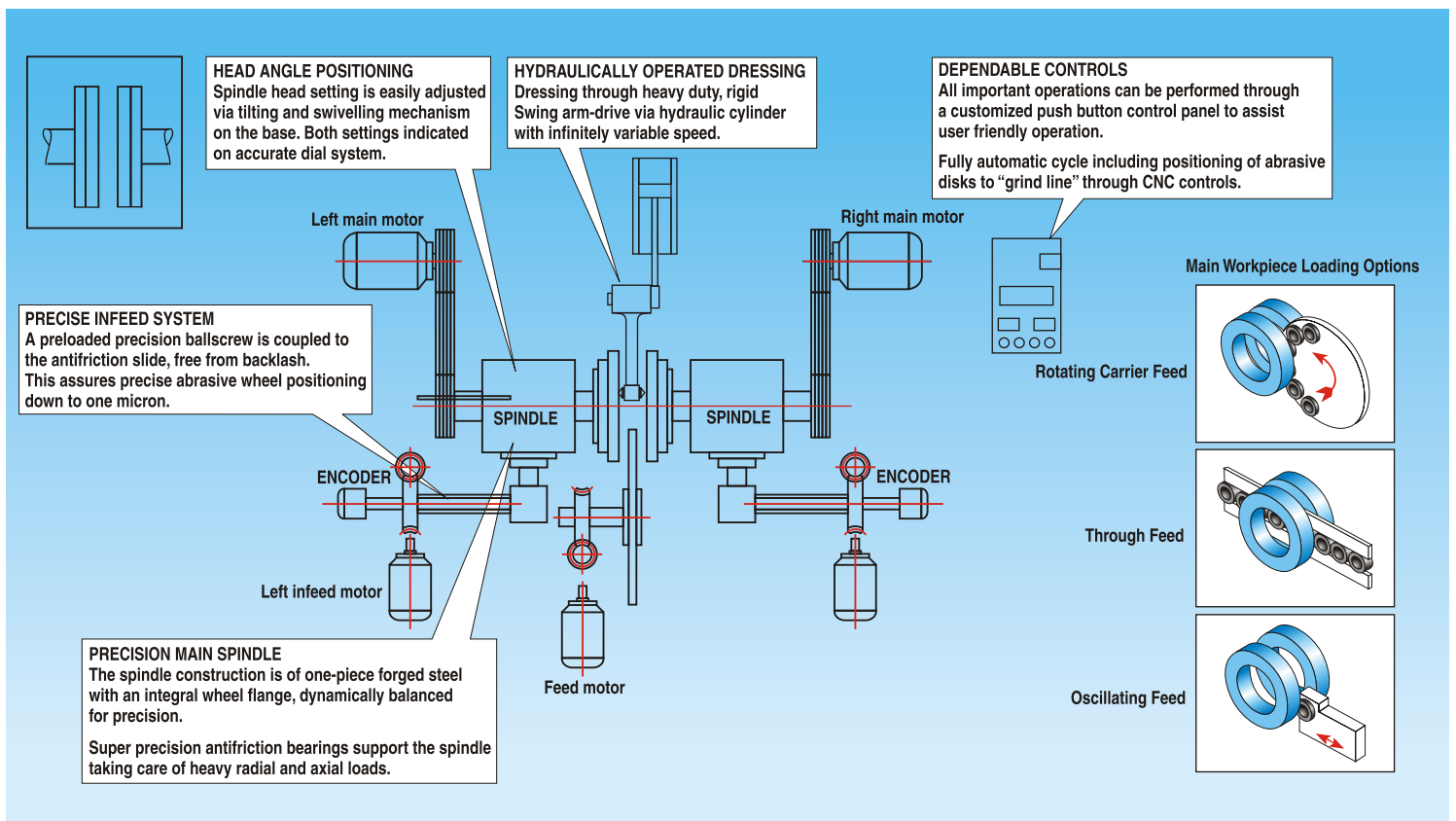
DESCRIPTION

- 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 need.
- 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 backlash through a precision ball screw, anti friction slide and digital control.
- Vertical tilting and horizontal swivelling of the spindle is effected conveniently through screw mechanism.
- Ample coolant supply via rotary union through two spindles.
- Swing arm wheel dresser is hydraulically operated.
- All controls within easy reach of operator.
- Optional CNC controls for fully automatic grinding cycle including dressing and compensation.
- Optional Auto loading & unloading arrangement.
- Optional Auto gauging and compensation provision.



APPLICATION

Connecting Rod, Gudgeon Pin, Valve Seat, Bushes, Gears, UJ Cross, Bearing Races, Bearing Cages, Disc Brakes, Gerotor, Pump End Covers, etc.



DUPLEX GRINDER WITH VERTICAL SPINDLE (DDV)

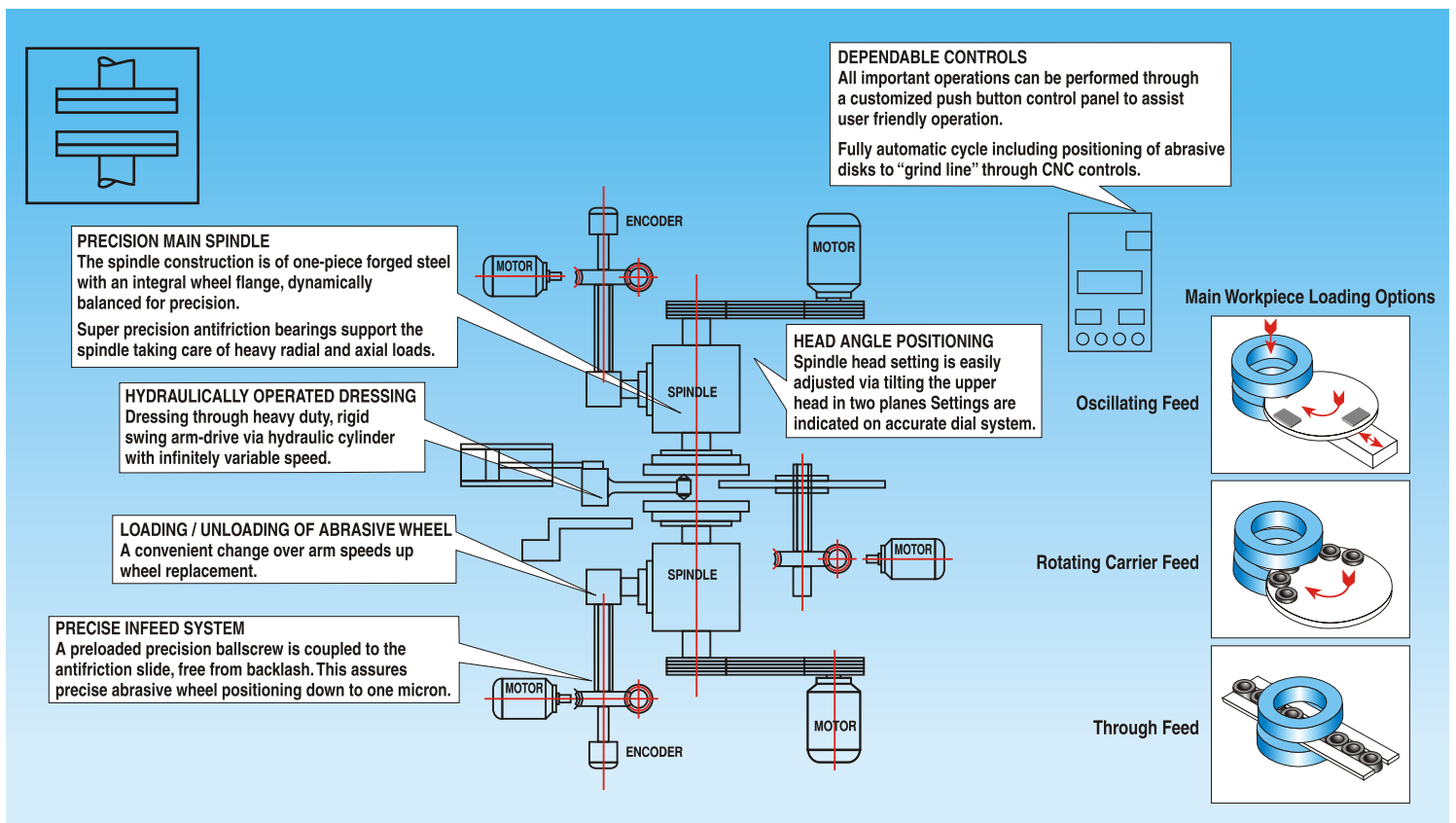
DESCRIPTION

- This series is designed specifically for thin components or to suit automation in work feeding.
- Optimum loading systems to suit customer need.
- 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 backlash through a precision ball screw, anti friction slide and digital control.
- Optimum entry angle for maximum accuracy through effective tilting of upper head with 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.



APPLICATION

Piston Rings, Circlips, Washers, Valve Plates, Pump End Cover, Gerotor, Bearing Rollers, Carbon Seals, etc.



TECHNICAL SPECIFICATIONS - DDH SERIES



MODEL		DDH-500	DDH-600	DDH-760
Workpiece Diameter (max)	mm (inch)	90 (3.54)	120 (4.72)	150 (5.9)
Workpiece Thickness (max)	mm (inch)	25 (1)	50 (2)	80 (3.1)
Process Speed (Carrier)	rpm	1-5	1-5	1-5
Wheel Diameter	mm (inch)	500 (20)	600 (24)	760 (30)
Spindle Speed	rpm	950	750	600
Spindle Motor (2 Units each)	hp (KW)	15 (11)	20 (15)	30 (22.3)
Machine Size	mm	2000 x 2300	2200 x 3000	4000 x 2500
Length x Width x Height	(inch)	x 1550 (79 x 93 x 61)	x 1650 (87 x 119 x 65)	x 1800 (157 x 98 x 70)
Net Weight of Machine	Kg (Lb)	6,000 (13,200)	10,000 (22,000)	14,000 (30,000)
Gross Weight of Machine	Kg (Lb)	7,000 (15,400)	11,500 (25,300)	16,000 (35,000)

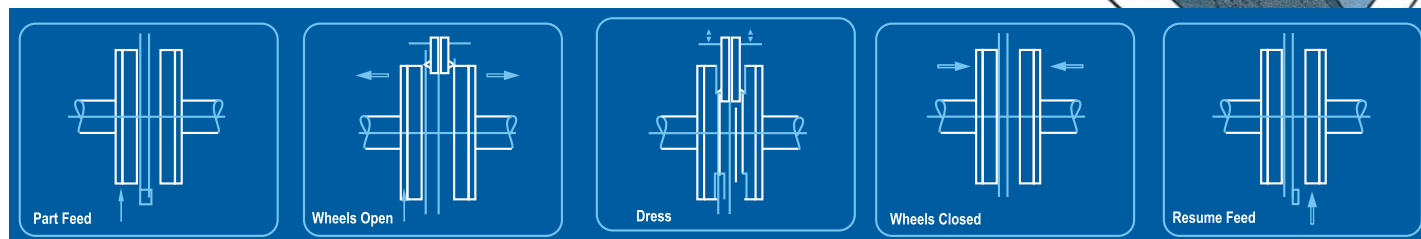
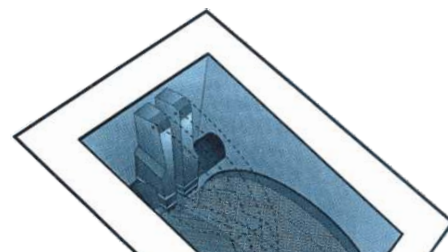
TECHNICAL SPECIFICATIONS - DDV SERIES

MODEL		DDV-400	DDV-500	DDV-600
Workpiece Diameter (max)	mm (inch)	70 (2.75)	90 (3.54)	120 (4.72)
Workpiece Thickness (max)	mm (inch)	20 (0.78)	25 (1)	50 (2)
Process Speed (Carrier)	rpm	1-5	1-5	1-5
Wheel Diameter	mm (inch)	400 (16)	500 (20)	600 (24)
Spindle Speed	rpm	1200	950	750
Spindle Motor (2 Units each)	hp (KW)	5 (3.7)	15 (11)	20 (15)
Machine Size	mm	1500 x 1000	2000 x 2350	2200 x 2600
Length x Width x Height	(inch)	x 1900 (59 x 40 x 75)	x 2450 (79 x 93 x 97)	x 3000 (87 x 103 x 119)
Net Weight of Machine	Kg (Lb)	4,000 (8,800)	6,000 (13,200)	10,000 (22,000)
Gross Weight of Machine	Kg (Lb)	5,000 (11,000)	7,000 (15,400)	11,500 (25,300)



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 definite amount of infeed per pass. Abrasive disks automatically infeed a preset increment at 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. Dressing is initiated by operator pressing "Dresser Start" button, or through the programmable control.



As Alex Machine Tools is constantly improving the design of its machines the appearances, specification, dimensions and weight are subject to change without notice.



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