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**ACRA RC CENTERLESS GRINDERS**



**MACHINE BED**

- The Machine Bed Is Made of High Quality "MEEHANITE" Cast Iron And Has Aging Treatment. No Distortion. Machine Bed And Slides Are Also Heat Treatment And Precision Ground.

**GEAR BOX**

- All Gears Are Made Of SNCM220 Alloy Steel Having Been Normalized, Carburized Hardened And Precision Ground. No Vibration & Low Noise.

**REGULATING WHEEL DRESSING UNIT**

- The Angle Of The Regulating Wheel Dressing Unit Can Be Swiveled According To Workpiece Requirements In Order To Enhance Accuracy.

**UPPER SLIDE**

- The Upper Slide Can Be Rapidly And Precisely Swiveled Up To  $\pm 5$  Degree in Order To Grind Taper In Infeed Grinding And Provide Perfect Contact Between Workpiece And Grinding Wheel In Thrufed Grinding.

**SERVOMOTOR FOR REGULATING WHEEL**

- A Japanese Servo Motor Is Used As The Regulating Wheel Motor Which Provides Infinitely Variable Speed Change From 10~250 RPM And Can Be Adjusted To Ideal Linear Speed. The Servo Motor Is Driven Directly By Worm & Worm Gear. This Can Reduce Vibration During Grinding And Consequently Achieve The Best Roundness.

**HYDRAULIC DRESSING UNIT**

- Both Grinding Wheel And Regulating Wheel Dressing Units Are Hydraulic Traversed. Traverse Speed Is Infinitely Adjustable. Dressing Slides Are Made Of Special Allow Cast Iron And Hand Scraping. Assures Smooth Dressing And High Accuracy.

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**PRESSURE SWITCH**

- One Pressure Switch Is Provided In The Grinding Wheel Spindle Lubrication System So That The Spindle Motor Won't Rotate While The Lubrication Pressure Is Reduced. This Prevents The Spindle From Dry Running And Damages.

**HYDRAULIC OIL COOLING FAN**

- During Grinding, It Cools Down Hydraulic Oil Temperature And Therefore Reduce Size Vibration. It Also Enhance Grinding Wheel Spindle Life.

**STANDARD ACCESSORIES:**

- Grinding Wheel W/Flange
- Coolant
- Regulating Wheel W/Flange
- Diamond Dresser
- Thrufeed/Infeed Blade
- Spanner
- Thrufeed/Infeed Rest
- Work Lamp
- Tools

**OPTIONAL ACCESSORIES:**

- Wheel Balancing Stand & ARBPR
- Hydraulic Work Ejector For Infeed Grinding
- Manual Work Feeder For Infeed Grinding
- Automatic Infeed Attachment
- Profile Grinding Attachment (Inc'l 2 Pcs Profile Template & 1 Pcs Profile Blade)
- Automatic Loading Attachment For Thrufeed Grinding (Magazine Type)
- Supporter For Long Bar Grinding
- Magnetic Coolant Separator 10.56 Gal/Min
- Paper Filter 10.56 Gal/Min
- Hydrocyclone Coolant Filter HC-B1
- Automatic Loading & Unloading Attachment For Infeed Grinding
- Vibratory Feeder For Thrufeed Grinding
- Automatic Loading Attachment For Thrufeed Grinding (Hopper Type)
- Unloading Attachment For Thrufeed Grinding (Magazine Type)
- Magnetic Coolant Separator 5.28 Gal/Min. (RC12 Only)
- Paper Filter 5.28 Gal/Min (RC12 Only)

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**ACRA RC CENTERLESS GRINDERS**

SPECIFICATIONS	RC 12	RC 16	RC 18	RC 1810	RC 1812	RC 20
Std. Work Rest	1/25"~1 9/16"	1/25"~2"	1/25"~2"	1/25"~2"	1/25"~2"	1/25"~2"
Spl. Work Rest	1 3/16"~2 3/8"	1 9/16"~3 1/8"	1 9/16"~6"	1 9/16"~6"	1 9/16"~6"	1 9/16"~6"
Grinding Range (Dia)	0.04"~1.58"	0.04"~2"	0.04"~2"	0.04"~2"	0.04"~2"	0.04"~2"
Grinding Wheel Size (DiaXWxHole)	12" x 6" x 5"	16" x 8" x 8"	18" x 8" x 9"	18" x 10" x 9"	18" x 12" x 9"	20" x 8" x 12"
Regulating Wheel Size (DiaXWxHole)	8" x 6" x 3 9/16"	10" x 8" x 4 3/8"	10" x 8" x 4 3/8"	10" x 10" x 4 3/8"	10" x 12" x 4 3/8"	12" X 8" X 5"
Grinding Wheel Speed	1900 RPM	1450 RPM	1350 RPM	1350 RPM	1350 RPM	1200 RPM
Regulating Wheel Speed (#Steps)	21~333 RPM(7)	13~308RPM(10)	13~308RPM(10)	13~308RPM(10)	13~308RPM(10)	13~308RPM(10)
Grinding Wheel Motor	7 1/2 HP	10 HP	15 HP	15 HP	20 HP	20 HP
Regulating Wheel Motor	1 HP	2 HP	2 HP	2 HP	2 HP	3 HP
Hydraulic Pump Motor	1 HP	1 HP	1 HP	1 HP	1 HP	1 HP
Coolant Pump Motor	1/8 HP	1/4 HP	1/4 HP	1/4 HP	1/4 HP	1/4 HP
Upper Slide Feed Graduation (rev/gra)	3.5mm/0.05mm	4mm/0.05mm	4mm/0.05mm	4mm/0.05mm	4mm/0.05mm	4mm/0.05mm
Upper Slide Micro Feed Graduation (rev/gra)	0.1mm/0.001mm	0.1mm/0.001mm	0.1mm/0.001mm	0.1mm/0.001mm	0.1mm/0.001mm	0.1mm/0.001mm
Lower Slide Feed Graduation (rev/gra)	7mm/0.05mm	9mm/0.05mm	9mm/0.05mm	9mm/0.05mm	9mm/0.05mm	9mm/0.05mm
Lower Slide Micro Feed Graduation (rev/gra)	0.2mm/0.001mm	0.2mm/0.001mm	0.2mm/0.001mm	0.2mm/0.001mm	0.2mm/0.001mm	0.2mm/0.001mm
Dressing Device Graduation (rev/gra)	1.25mm/0.001mm	1.75mm/0.01mm	2mm/0.01mm	2mm/0.01mm	2mm/0.01mm	2mm/0.01mm
Regulating Wheel Tilt Angle	± 5°	± 5°	± 5°	± 5°	± 5°	± 5°
Regulating Wheel Swivel Angle	± 5°	± 5°	± 5°	± 5°	± 5°	± 5°
Voltage	220V AC / 3PH	220V AC / 3PH	220V AC / 3PH	220V AC / 3PH	220V AC / 3PH	220V AC / 3PH
Net Weight	3,300 LBS	4,630 LBS	5,720 LBS	5,720 LBS	7,055 LBS	7,700 LBS
Shipping Weight	3,860 LBS	4,850 LBS	6,380 LBS	6,380 LBS	7,930 LBS	8,370 LBS
Shipping Dimensions (LxWxH)	88.6"x43.3"x66.9"	88.6"x70.9"x66.9"	88.6"x78.7"x70.9"	88.6"x78.7"x70.9"	88.6"x84.6"x70.9"	96.4"x78.7"x70.9"

**NOTE:** The manufacturer reserves the right to modify the design, specifications, & mechanisms to improve the performances of the machines without notice. All specifications above are for your reference only.