

## GENERAL INFORMATION, SPECIFICATIONS, FIXTURES and ACCESSORIES

### I. GENERAL SPECIFICATIONS

UNIVERSAL TOOL AND CUTTER GRINDERS have either a High Speed Standard Spindle (B360, BA960, B2060 and B6060) or a Heavy Duty Spindle (BA962, B2062 and B6062).

TOOL AND CUTTER GRINDERS have a Single Speed Motorized Spindle (Models B300, BA900 and B2000).

TABLE OF SPECIFICATIONS

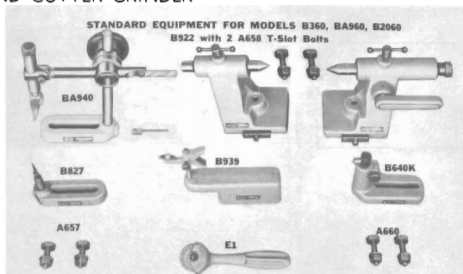
SPECIFICATIONS	B300   B360		BA900   BA960		B2000   B2060		B6060   B6062	
Distance Between Tailstocks	17"		22"		32"		32"	
Distance Between Centers Mounted in B943 and Tailstock	11"		16"		26"			
Distance Between Collet in B943 and Tailstock	12"		17"		27"			
Distance Between Centers Mounted in B6043/B9043 and Tailstock							26"   24"	
Distance Between Collet in B6043/B9043 and Tailstock							27"   25"	
Distance Between B946 Chuck Face and Tailstock <small>1" HOLE THROUGH CHUCK</small>	10½"		15½"		25½"		25½"   23½"	
Table Working Surface	3½" x 22½"		5½" x 27½"		5½" x 37½"		5½" x 37½"	
Sub Table	6½" x 26½"		8" x 36"		8" x 48"		8" x 48"	
Total Cross Feed & Feed Each Rev. of Handwheel (.001" graduation)	4½" — 100"		7½" — 100"		7½" — 100"		8" — 100"	
Table Traverse	10"		14"		20"		20"	
Fast Feed (Direct Drive)	2¼"		2¾"		2¾"		2¾"	
Slow Feed	3:1 RATIO ¾"		8:1 RATIO ¾"		8:1 RATIO ¾"		8:1 RATIO ¾"	
Swing Over Table (1" AND 2" RAISING BLOCKS AVAILABLE)	8¼"		8¼"		8¼"		12¼"	

Minimum Distance Centerline of Wheel Shaft to Top of Table	3 3/4"	3 3/4"	3 3/4"	5 3/4"
Maximum Distance Centerline of Wheel Shaft to Top of Table	10 1/4"	10 1/4"	10 1/4"	15 1/4"
Maximum Distance from Column to Outside of Straight Wheel; Dovetail Slide Not Extended, Spindle 90° to Table	4 1/8"   3 3/4"	3 3/4"   4 1/8"   4 1/2"	4 1/8"   4 1/2"	4 3/4"   6 3/4"
Maximum Distance from Column to Outside of Straight Wheel, Dovetail Slide Extended, Spindle 90° to Table	9 9/16"	9 9/16"   10 1/8"	9 9/16"   10 1/8"	9 3/4"   11 1/2"
Centerline Height of Fixtures to Top of Table	4.130"	4.130"	4.130"	6.130"
Table T-Slot	3/4"	3/4"	3/4"	3/4"
Table Swivels	225°	225°	225°	225°
Wheel Head Swivel	360°	360°	360°	360°
Column Diameter	4"	4"	4"	6"
Vertical Movement of Column	7" — .040"	7" — .040"	7" — .040"	10 1/2" — .050"
Motor Speed RPM (Tool Grinders and Universal Grinders)	3450	3450	3450	3450
Spindle Speed Range RPM (Universal Models Only)	3450-18,400	3450-18,400	3450-18,400	3450-17,250
Maximum I.D. Depth	HOLE SIZE 5/32" TO 2"	1 1/4" - 2 1/4"	1 1/4" - 2 1/4"	1 1/4" - 3 1/2"
Maximum Crossfeed Surface Grinding	HIGH SPEED SPINDLE 5" WHEEL	2 1/4"	BA960-2 1/4"	B2060-2 1/4"
Maximum Crossfeed Surface Grinding	HEAVY DUTY SPINDLE 7" OR 8" WHEEL		BA962-4 1/4"	B2062-4 1/4"
Maximum Crossfeed Surface Grinding	WITH STOBSCH QUILL WITH 7" WHEEL		5 1/4"	5 1/4"
Maximum Crossfeed Surface Grinding	TOOL GRINDER 6" x 1 1/2" WHEEL	B300-4 1/4"	BA900-4 1/4"	B2000-4 1/4"
Grinding Wheel Hole Size		3/8"   3/4"	3/8"   3/4" - 1 1/4"	3/8"   1 1/4"
Floor Space for Operating		32" x 37"	40" x 52"	46" x 60"
Maximum Height of Machine with Column Extended		60 1/2"   63 1/4"	60 1/2"   63 1/4"	63 1/4"
Net Weight (Pounds)		510   560	1080   1140	1120   1180
				1280

## II. MACHINE STANDARD EQUIPMENT

## A. UNIVERSAL TOOL AND CUTTER GRINDER

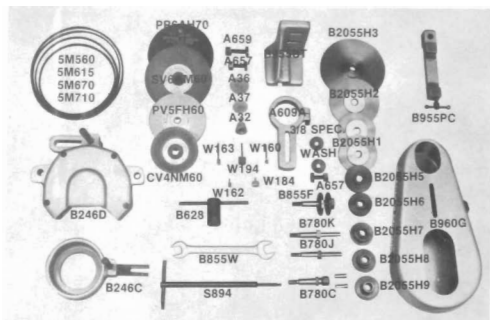
# **MODELS** **B360** **BA960** **BA962** **B2060** **B2062**



## STANDARD EQUIPMENT FOR MODELS B360, BA960, B2060

**A657** T-Slot Bolt, **A660** T-Slot Bolt, **B640K** Diamond Dresser, **B827** Plain Tooth Rest, **B922** Tailstocks (Matched Set), **B939** Center Gauge, **BA940** Universal Tooth Rest, **B955** Universal Head, **E1** Wheel Dresser.

## MODELS B360, BA960, B2060



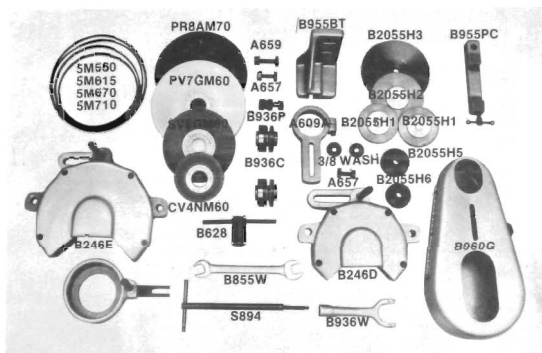
## STANDARD EQUIPMENT FOR B955 UNIVERSAL GRINDING HEAD

**A609A** T-Slot Arm, **A657** T-Slot Bolt, **A659** T-Slot Bolt, **B246C** Wheel Guard 4", **B246D** Wheel Guard 6", **B628** Wrench, **B780C** Collet Chuck Assembly, includes **B780CD** 1/4" and **B780CE** 1/2" Collets, **B780J** Wheel Arbor (5-40), **B780K** Wheel Arbor (1/4-28), **B855F** Pulley and Wheel Arbor Assembly (3/8" hole, wheels up to 3/8" wide), **B855W** Wrench, **B960C** Belt Guard, **B923C** Motor, **B9558T** Bracket for Wheel Guard or Tooth Rest, **B955PC** Dovetail Clamp Assembly, **B6055B** Quill Assembly, **B2055H1** V-Pulley 3 3/4" (2), **B2055H2** V-Pulley 4 1/2", **B2055H3** V-Pulley 6", **B2055H5** V-Pulley 2 3/4", **B2055H7** V-Pulley 1 1/2", **B2055H8** V-Pulley 1 1/4", **B2055H9** V-Pulley 1 1/8", **S894** Hex Wrench, **A32** Mounted Cup Wheel, **A36** Mounted Wheel, **A37** Mounted Wheel, **W160** Mounted Wheel, **W162** Mounted Wheel, **W163** Mounted Wheel, **W184** Mounted Wheel, **W194** Mounted Wheel, **CV4NM60** Cup Wheel, **PR6AH70** Cut Off Wheel, **PV5FH60** Straight Wheel, **SV6GM60** Saucer Wheel, **SM560** V-Belt 22", **SM615** V-Belt 24", **SM670** V-Belt 26", **SM710** V-Belt 28".

## II. MACHINE STANDARD EQUIPMENT

### A. UNIVERSAL TOOL AND CUTTER GRINDER (Cont.)

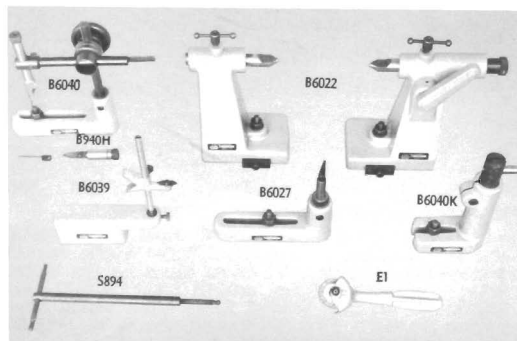
#### MODELS BA962 AND B2062



#### STANDARD EQUIPMENT FOR B955HD UNIVERSAL GRINDING HEAD

**A609A** T-Slot Arm, **A657** T-Slot Bolt, **A659** T-Slot Bolt, **B246C** Wheel Guard 4", **B246D** Wheel Guard 6", **B246E** Wheel Guard 8", **B628** Wrench, **B855W** Wrench, **B923C** Motor, **B936C** Collet (2), **B936CB** Body, **B936CS** Wheel Spacer, **B936CW** Collet Keyed Washer, **B936CN** Nut, **B936P** Puller, **B936W** Wrench, **B955BT** Bracket for Wheel Guard or Tooth Rest, **B955PC** Dovetail Clamp Assembly, **B960C** Belt Guard, **B2055H1** V-Pulley 3 $\frac{3}{4}$ " (2), **B2055H2** V-Pulley 4 $\frac{1}{2}$ ", **B2055H3** V-Pulley 6", **B2055H5** V-Pulley 2 $\frac{3}{4}$ ", **B2055H6** V-Pulley 2", **CV4NM60** Cup Wheel, **PR8AM70** Cut Off Wheel, **PV7GM60** Plain Wheel, **SV6GM60** Saucer Wheel, **S894** Hex Wrench, **S6055CL** Quill Assembly, **5M560** V-Belt 22", **5M615** V-Belt 24", **5M670** V-Belt 26", **5M710** V-Belt 28".

#### MODELS B6060 AND B6062



#### STANDARD EQUIPMENT FOR MODELS B6060 AND B6062

**B6022** Matched Tail Stock Set, **B6027** Plain Tooth Rest, **B6039** Center Gauge, **B6040** Universal Tooth Rest, **B6040K** Diamond Dresser, **B6055** Universal Grinding Head (B6060), **B6055HD** Univ. Grinding Head (B6062), **E1** Wheel Dresser, **S894** Hex Wrench.

## II. MACHINE STANDARD EQUIPMENT

## A. UNIVERSAL TOOL AND CUTTER GRINDER

## MODELS

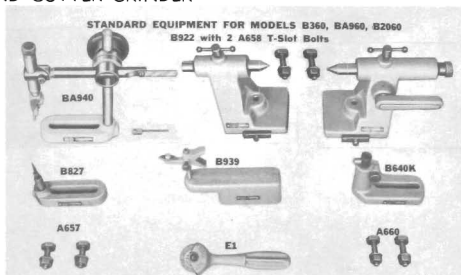
B360

BA960

BA962

B2060

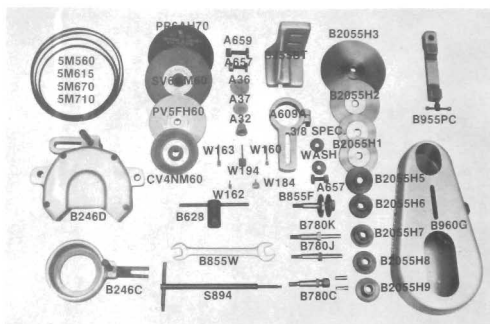
B2062



## STANDARD EQUIPMENT FOR MODELS B360, BA960, B2060

A657 T-Slot Bolt, A660 T-Slot Bolt, B640K Diamond Dresser, B827 Plain Tooth Rest, B922 Tailstocks (Matched Set), B939 Center Gauge, B940 Universal Tooth Rest, B955 Universal Head, E1 Wheel Dresser.

## MODELS B360, BA960, B2060



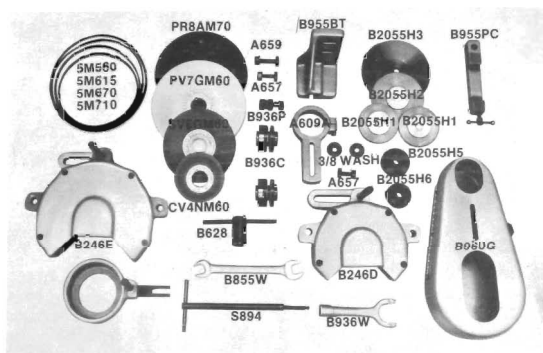
## STANDARD EQUIPMENT FOR B955 UNIVERSAL GRINDING HEAD

A609A T-Slot Arm, A657 T-Slot Bolt, A659 T-Slot Bolt, B246C Wheel Guard 4", B246D Wheel Guard 6", B628 Wrench, B780C Collet Chuck Assembly, includes B780CD 1/4" and B780CE 1/2" Collets, B780J Wheel Arbor (5-40), B780K Wheel Arbor (1/4-28), B855F Pulley and Wheel Arbor Assembly (3/4" hole, wheels up to 3/8" wide), B855W Wrench, B960C Belt Guard, B923C Motor, B955BT Bracket for Wheel Guard or Tooth Rest, B955PC Dovetail Clamp Assembly, B6055B Quill Assembly, B2055H1 V-Pulley 3 3/4" (2), B2055H2 V-Pulley 4 1/2", B2055H3 V-Pulley 6", B2055H5 V-Pulley 2 3/4", B2055H7 V-Pulley 1 1/2", B2055H8 V-Pulley 1 1/4", B2055H9 V-Pulley 1 1/8", S894 Hex Wrench, A32 Mounted Cup Wheel, A36 Mounted Wheel, A37 Mounted Wheel, W160 Mounted Wheel, W162 Mounted Wheel, W163 Mounted Wheel, W184 Mounted Wheel, CV4NM60 Cup Wheel, PR6AH70 Cut Off Wheel, PV5FH60 Straight Wheel, SV6CM60 Saucer Wheel, SM560 V-Belt 22", SM615 V-Belt 24", SM670 V-Belt 26", SM710 V-Belt 28".

## II. MACHINE STANDARD EQUIPMENT

## A. UNIVERSAL TOOL AND CUTTER GRINDER (Cont.)

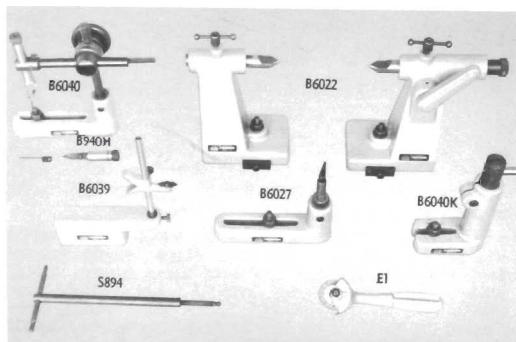
## MODELS BA962 AND B2062



## STANDARD EQUIPMENT FOR B955HD UNIVERSAL GRINDING HEAD

**A609A** T-Slot Arm, **A657** T-Slot Bolt, **A659** T-Slot Bolt, **B246C** Wheel Guard 4", **B246D** Wheel Guard 6", **B246E** Wheel Guard 8", **B628** Wrench, **B855W** Wrench, **B923C** Motor, **B936C** Collet (2), **B936CB** Body, **B936CS** Wheel Spacer, **B936CW** Collet Keyed Washer, **B936CN** Nut, **B936P** Puller, **B936W** Wrench, **B955BT** Bracket for Wheel Guard or Tooth Rest, **B955PC** Dovetail Clamp Assembly, **B960C** Belt Guard, **B2055H1** V-Pulley 3 1/2" (2), **B2055H2** V-Pulley 4 1/2", **B2055H3** V-Pulley 6", **B2055H5** V-Pulley 2 1/4", **B2055H6** V-Pulley 2", **CV4NM60** Cup Wheel, **PR8AM70** Cut Off Wheel, **PV7GM60** Plain Wheel, **SV6GM60** Saucer Wheel, **S894** Hex Wrench, **S6055CL** Quill Assembly, **5M560** V-Belt 22", **5M615** V-Belt 24", **5M670** V-Belt 26", **5M710** V-Belt 28".

## MODELS B6060 AND B6062

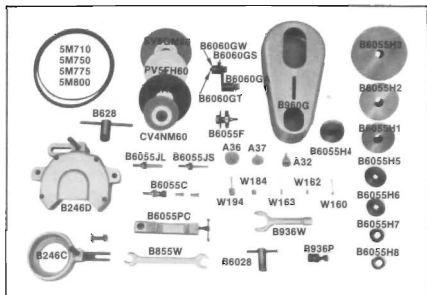


## STANDARD EQUIPMENT FOR MODELS B6060 AND B6062

**B6022** Matched Tail Stock Set, **B6027** Plain Tooth Rest, **B6039** Center Gauge, **B6040** Universal Tooth Rest, **B6040K** Diamond Dresser, **B6055** Universal Grinding Head (B6060), **B6055HD** Univ. Grinding Head (B6062), **E1** Wheel Dresser, **S894** Hex Wrench.

## II. MACHINE STANDARD EQUIPMENT

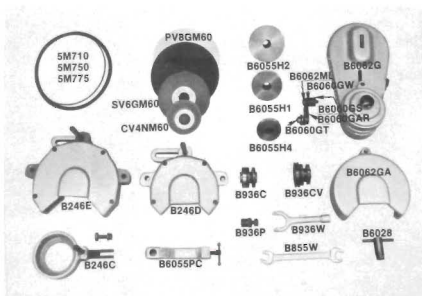
### A UNIVERSAL TOOL AND CUTTER GRINDER (Cont.)

**MODEL B6060**

### STANDARD EQUIPMENT FOR B6055 UNIVERSAL GRINDING HEAD

**B246C** Wheel Guard 4", **B246D** Wheel Guard 6", **B628** Wrench, **B855W** Wrench, **B936P** Wheel Puller, **B936W** Wrench, **B6028** Wrench, **B6055A** Quill Assembly, **B6055C** Collet Chuck Assembly, **B6055F** Puller and Wheel Arbor Assembly, **B6055H1** Pulley 3/4", **B6055H2** Pulley 4", **B6055H3** Pulley 6 1/4", **B6055H4** Pulley 2 1/4", **B6055H5** Pulley 2 1/4", **B6055H6** Pulley 2", **B6055H7** Pulley 1 1/2", **B6055H8** Pulley 1 1/4", **B6055J5** Wheel Arbor (5-40), **B6055J1** Wheel Arbor 1/4 NF, **B906G** Belt Cup, **B6056CP** Dovetail Clamp Assembly, **B6060CA** Arm, **B6060GS** Spacer, **B6060CT** Stud, **B6060GW** Washer with Shoulder, **B6223G** Motor Assembly, **5M710** V-Belt 28", **5M750** V-Belt 29", **5M775** V-Belt 30", **5M800** V-Belt 31", **A32** Mounted Cup Wheel, **A36** Mounted Wheel, **A37** Mounted Wheel, **W160** Mounted Wheel, **W162** Mounted Wheel, **W163** Mounted Wheel, **W184** Mounted Wheel, **W194** Mounted Wheel, **CV4NM60** Cup Wheel, **PR6AM70** Cut Off Wheel, **PV5FH60** Straight Wheel, **SV6GM60** Saucer Wheel.

**MODEL B6062**



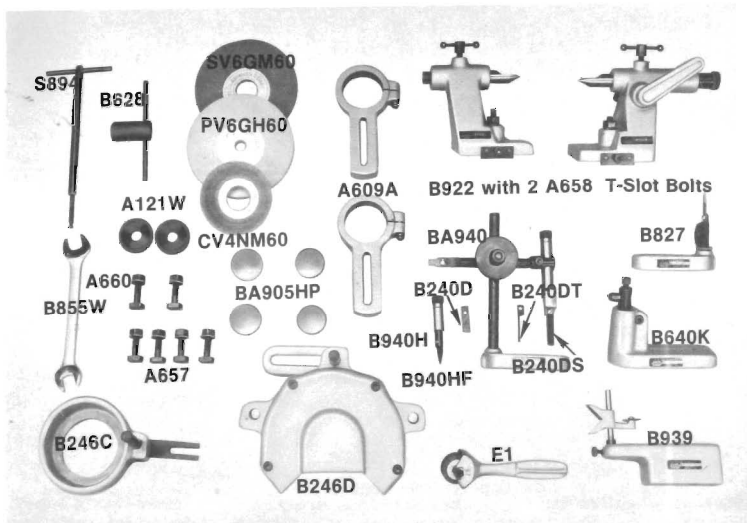
### STANDARD EQUIPMENT FOR B6055HD HEAVY DUTY UNIVERSAL GRINDING HEAD

**B246C** Wheel Guard 4", **B246D** Wheel Guard 6", **B246E** Wheel Guard 8", **B602B** Wrench, **B855W** Wrench, **B936C** Collet, **B936CV** Collet and Pulley, **B936P** Wheel Puller, **B936W** Wrench, **B055H1** Pulley 3/4", **B055H2** Pulley 1/2", **B055H4** Pulley 2 1/4", **B055PC** Dovetail Clamp Assembly, **B0602Z** Belt Guard includes **B0602GA** 7" Wheel Guard, **B0602GAR** Arm, **B0600CS** Spacer, **B0600CT** Stud, **B0600GW** Washer with Shoulder, **B0602A** Quill Assembly, **B0602ML** Special Screw, **B6223G** Motor Assembly, **5M710** V-Belt 28", **5M750** V-Belt 29", **5M775** V-Belt 30", **CV4NM60** Cup Wheel, **PR8AM70** Cut Off Wheel, **PV8GM60** Straight Wheel, **SV6GM60** Sancer Wheel,

## II. MACHINE STANDARD EQUIPMENT

## B TOOL AND CUTTER GRINDERS

**MODELS B300, BA900, B2000**



**A609A** T-Slot Arm, **A657** T-Slot Bolt (4), **A660** T-Slot Bolt (2), **B246C** Wheel Guard 4", **B246D** Wheel Guard 6", **B628** Wrench, **B640K** Diamond Dresser, **B827** Plain Tooth Rest, **B855W** Wrench, **B922** Tailstocks (Matched Set) with two A258 T-Slot Bolts, **B923G** Motor Assembly, **B939** Center Gauge, **B940** Universal Tooth Rest (B940H Micrometer Tooth Rest. Blades: B240D, B240DS, B240DT, B940HF), **I1** Wheel Dresser, **CV4NM60** Cup Wheel, **PV6GCH60** Straight Wheel, **SV6GCM60** Saucer Wheel.

## 2. ADDITIONAL STANDARD EQUIPMENT FOR HYDRAULIC MACHINES

**S891** Extension Wrench for Stop and Reversing Screws.

### III. TOOLING, FIXTURES AND ACCESSORIES

A. WORKHEADS FOR MODEL SERIES B300, B360, BA900, BA960, BA962, B2000, B2060, B2062:

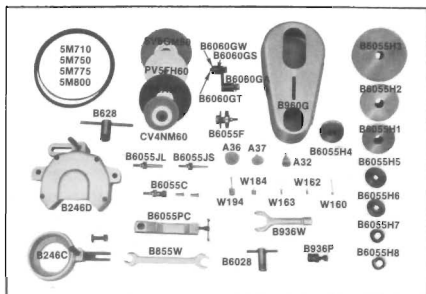
**B942** Sensitive Workhead with No. 11 B & S Spindle Taper, **B942XM** Sensitive Workhead with No. 5 Morse Spindle Taper, **B942XB** Sensitive Workhead with No. 12 B & S Spindle Taper, **B942XB11** Sensitive Workhead with No. 11 B & S Spindle Taper (Index Disc mounted at rear. Uses B641 Collet Fixture with 5C Collets), **B992** Large Sensitive Workhead with No. 50MM Spindle Taper (**B792F** No. 50MM to 40MM Adapter Sleeve, **B792C** No. 50MM to No. 11 B & S Adapter Sleeve), **B943** Motor (A.C.) Driven Workhead with No. 11 B & S Spindle Taper, **B943M5** Motor (A.C.) Driven Workhead with No. 5 Morse Spindle Taper, **B943B12** Motor (A.C.) Driven Workhead with No. 12 B & S Spindle Taper, **B2043** Variable Speed (@ 25-425 RPM) Motor (D.C.) Driven



## II. MACHINE STANDARD EQUIPMENT

## A. UNIVERSAL TOOL AND CUTTER GRINDER (Cont.)

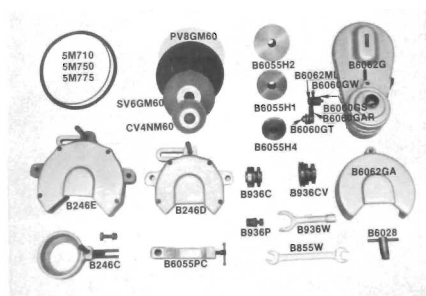
## MODEL B6060



## STANDARD EQUIPMENT FOR B6055 UNIVERSAL GRINDING HEAD

**B246C** Wheel Guard 4", **B246D** Wheel Guard 6", **B628** Wrench, **B855W** Wrench, **B936P** Wheel Puller, **B936W** Wrench, **B6028** Wrench, **B6055A** Quill Assembly, **B6055C** Collet Chuck Assembly, **B6055F** Pulley and Wheel Arbor Assembly, **B6055H1** Pulley 3½", **B6055H2** Pulley 4¼", **B6055H3** Pulley 6¼", **B6055H4** Pulley 2¾", **B6055H5** Pulley 2¾", **B6055H6** Pulley 2", **B6055H7** Pulley 1½", **B6055H8** Pulley 1¼", **B6055JS** Wheel Arbor (5-40), **B6055JL** Wheel Arbor ¼ NF, **B960C** Belt Guard, **B6055PC** Dovetail Clamp Assembly, **B6060CA** Arm, **B6060GS** Spacer, **B6060GT** Stud, **B6060GW** Washer with Shoulder, **B6223C** Motor Assembly, **5M710** V-Belt 28", **5M750** V-Belt 29", **5M775** V-Belt 30", **5M800** V-Belt 31", **A32** Mounted Cup Wheel, **A36** Mounted Wheel, **A37** Mounted Wheel, **W160** Mounted Wheel, **W162** Mounted Wheel, **W163** Mounted Wheel, **W184** Mounted Wheel, **W194** Mounted Wheel, **CV4NM60** Cup Wheel, **PR6AM70** Cut Off Wheel, **PV5FH60** Straight Wheel, **SV6GM60** Saucer Wheel.

## MODEL B6062



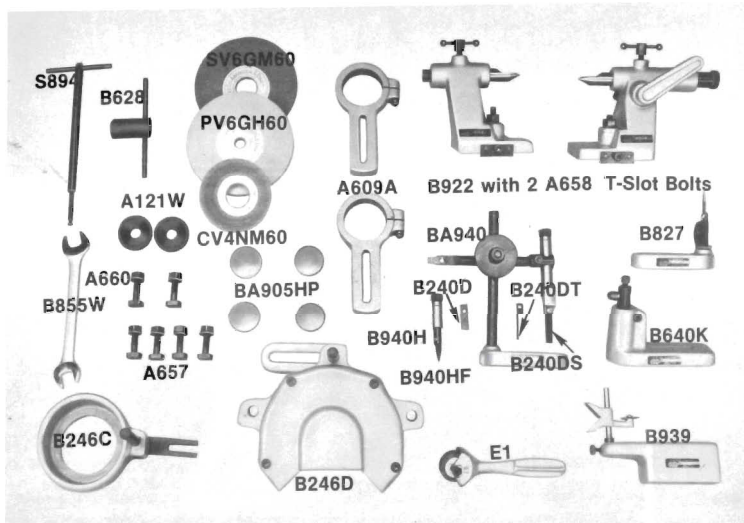
## STANDARD EQUIPMENT FOR B6055HD HEAVY DUTY UNIVERSAL GRINDING HEAD

**B246C** Wheel Guard 4", **B246D** Wheel Guard 6", **B246E** Wheel Guard 8", **B6028** Wrench, **B855W** Wrench, **B936C** Collet, **B936CV** Collet and Pulley, **B936P** Wheel Puller, **B936W** Wrench, **B6055H1** Pulley 3½", **B6055H2** Pulley 4¼", **B6055H4** Pulley 2¾", **B6055H5** Pulley 2¾", **B6055H6** Pulley 2", **B6055H7** Pulley 1½", **B6055H8** Pulley 1¼", **B6055JS** Wheel Arbor (5-40), **B6055JL** Wheel Arbor ¼ NF, **B960C** Belt Guard, **B6055PC** Dovetail Clamp Assembly, **B6062CA** Arm, **B6062GS** Spacer, **B6062GT** Stud, **B6062GW** Washer with Shoulder, **B6062A** Quill Assembly, **B6062ML** Special Screw, **B6223C** Motor Assembly, **5M710** V-Belt 28", **5M750** V-Belt 29", **5M775** V-Belt 30", **CV4NM60** Cup Wheel, **PR6AM70** Cut Off Wheel, **PV8GM60** Straight Wheel, **SV6GM60** Saucer Wheel.

## II. MACHINE STANDARD EQUIPMENT

### B. TOOL AND CUTTER GRINDERS

MODELS B300, BA900, B2000



**A609A** T-Slot Arm, **A657** T-Slot Bolt (4), **A660** T-Slot Bolt (2), **B246C** Wheel Guard 4", **B246D** Wheel Guard 6", **B628** Wrench, **B640K** Diamond Dresser, **B827** Plain Tooth Rest, **B855W** Wrench, **B922** Tailstocks (Matched Set) with two A258 T-Slot Bolts, **B923G** Motor Assembly, **B939** Center Gauge, **BA940** Universal Tooth Rest (B940H Micrometer Tooth Rest. Blades: B240D, B240DS, B240DT, B940HF), **E1** Wheel Dresser, **CV4NM60** Cup Wheel, **PV6GH60** Straight Wheel, **SV6GM60** Saucer Wheel.

### C. ADDITIONAL STANDARD EQUIPMENT FOR HYDRAULIC MACHINES

**S891** Extension Wrench for Stop and Reversing Screws.

## III. TOOLING, FIXTURES AND ACCESSORIES

### A. WORKHEADS FOR MODEL SERIES B300, B360, BA900, BA960, BA962, B2000, B2060, B2062:

**B942** Sensitive Workhead with No. 11 B & S Spindle Taper, **B942XM** Sensitive Workhead with No. 5 Morse Spindle Taper, **B942XB** Sensitive Workhead with No. 12 B & S Spindle Taper, **B942XB11** Sensitive Workhead with No. 11 B & S Spindle Taper (Index Disc mounted at rear. Uses B641 Collet Fixture with 5C Collets), **B992** Large Sensitive Workhead with No. 50MM Spindle Taper (**B792F** No. 50MM to 40MM Adapter Sleeve, **B792G** No. 50MM to No. 11 B & S Adapter Sleeve), **B943** Motor (A.C.) Driven Workhead with No. 11 B & S Spindle Taper, **B943M5** Motor (A.C.) Driven Workhead with No. 5 Morse Spindle Taper, **B943B12** Motor (A.C.) Driven Workhead with No. 12 B & S Spindle Taper, **B2043** Variable Speed (@ 25-425 RPM) Motor (D.C.) Driven

Workhead with No. 11 B & S Spindle Taper, **B2043M5** Variable Speed Motor (D.C.) Driven Workhead with No. 5 Morse Spindle Taper, **B2043B12** Variable Speed Motor (D.C.) Driven Workhead with No. 12 B & S Spindle Taper.

**B. WORKHEADS FOR MODEL SERIES B6060 AND B6062:**

**B7042** Sensitive Workhead with No. 11 B & S Spindle Taper, **B7042XM** Sensitive Workhead with No. 5 Morse Spindle Taper, **B7042XB** Sensitive Workhead with No. 12 B & S Spindle Taper, **B7042XB11** Sensitive Workhead with No. 11 B & S Spindle Taper (Index Discs mount at rear; B641 Collet Fixture for 5C Collets), **B9092M** Sensitive Workhead with 50MM and No. 5 Morse Spindle Tapers (**B792F** 50MM to 40MM Adapter Sleeve, **B792G** 50MM to 11 B & S Adapter Sleeve), **B9092B&S** Sensitive Workhead with No. 50MM and No. 12 B & S Spindle Tapers, **B6043** Motor (A.C.) Driven Workhead with No. 11 B & S Spindle Taper, **B6043M5** Motor (A.C.) Driven Workhead with No. 5 Morse Spindle Taper, **B6043B12** Motor (A.C.) Driven Workhead with No. 12 B & S Spindle Taper, **B7043** Variable Speed (@ 50-450 RPM) Motor (D.C.) Driven Workhead with No. 11 B & S Spindle Taper, **B7043M** Variable Speed 50-450 RPM) Motor (D.C.) Driven Workhead with No. 5 Morse Spindle Taper, **B7043B12** Variable Speed (@ 50-450 RPM) Motor (D.C.) Driven Workhead with No. 12 B & S Spindle Taper, **B9043M** Motor (A.C.) Driven Workhead with No. 50MM and No. 5 Morse Spindle Taper, **B9043B&S** Motor (A.C.) Driven Workhead with No. 50MM and No. 12 B & S Spindle Taper (**B9043M** and **B9043B&S** have standard speed of 250 RPM. Other speeds available on request.) **B10043M** Variable Speed (@ 10-370 RPM) Motor (D.C.) Driven Workhead with No. 50MM and No. 5 Morse Spindle Tapers, **B10043B&S** Variable Speed (@ 10-370 RPM) Motor (D.C.) Driven Workhead with No. 50MM and No. 12 B & S Spindle Tapers.

**C. Coolant Systems (may be retro-fitted by customer; state model, serial number, and voltage):**

**B935** Coolant Attachment (wheels up to 7" x ½"), fits all BA900, BA960, and BA962 series. **B2035** Coolant Attachment (wheels from 5" to 7" x ½"), fits all B2000, B2060, and B2062 series. **B6035** Coolant Attachment (wheels from 5" to 7" x ½"), fits all B6060 and B6062 series. **B6035HD** Heavy Duty Coolant Attachment (wheels up to 8" x ¾"), fits all B6062 series.

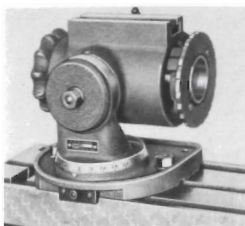
**D. B876** 3" Column Extension for machines with 4" column.

**E. Special Toothrest Slide Blade and Arm for use with formed cutters with low helix — up to @ 20°; B670RB Blade; B670T Arm. See Photo 38, page 51, for use with BA940 or B6040 toothrests.**

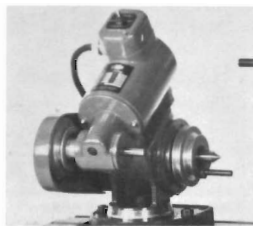
**F. Special wheel guards available on request.**

### III. TOOLING, FIXTURES AND ACCESSORIES

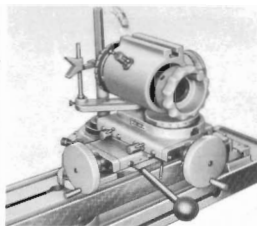
Consult the Universal Tool and Cutter Grinding Catalog for complete listings of all Models and Sizes.



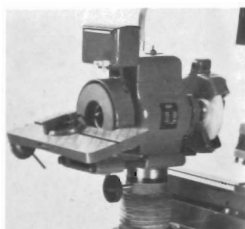
**B942  
SENSITIVE WORKHEAD**



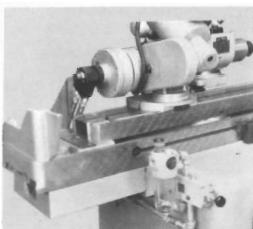
**B943  
MOTOR DRIVEN WORKHEAD**



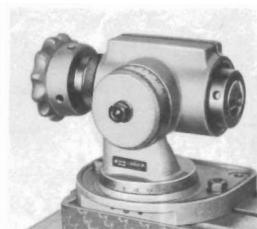
**BA986  
RADIAL GRINDING FIXTURE**



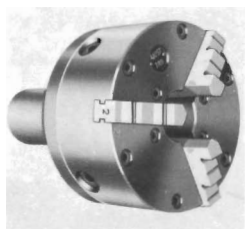
**B945 TILTING  
TABLE ATTACHMENT**



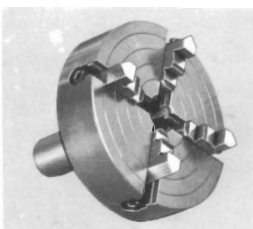
**B1094HS  
AIR COLLET CLOSURE**



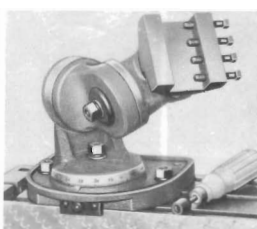
**B947  
TAP GRINDING FIXTURE**



**CHUCKS  
B944 4" 6-JAW ADJUSTRU  
B946 4" 3-JAW ADJUSTRU**



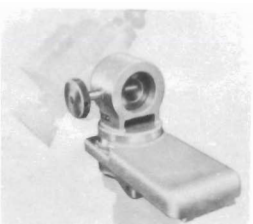
**B844E 6" INDEPENDENT  
4-JAW CHUCK  
NO. 11 B & S ARBOR**



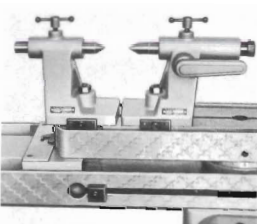
**B989 UNIVERSAL  
WORK HOLDING FIXTURE  
STD. VISE 1-1/2"**



**B992  
SENSITIVE WORKHEAD**



**B979 UNIVERSAL  
ANGULAR MOTOR MOUNT**



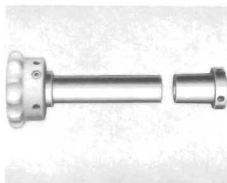
**B922 TAILSTOCKS  
(MATCHED SET)**

### III. TOOLING, FIXTURES AND ACCESSORIES

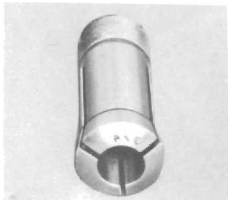
Consult the Universal Tool and Cutter Grinding Catalog for complete listings of all Models and Sizes.



**B648D INDEX DISCS**  
24 UP TO 60 DIVISIONS  
B948 SERIES CUTTER AND  
HOB GRINDING ARBORS



**B641 COLLET FIXTURE**  
FOR B943, B2043, B6043  
B941 COLLET FIXTURE  
FOR B942 AND B6042



**B641C 5C COLLETS**  
FOR B641 & B941 FIXTURES



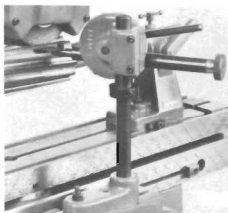
**B641K**  
STRAIGHT SLEEVES  
11 B & S O.D. TAPER



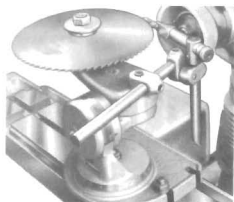
**B918 SET OF 1"**



**B9018C 1" RAISING BLK.**  
**B9018C2 2" RAISING BLK.**  
**B9018C3 3" RAISING BLK.**



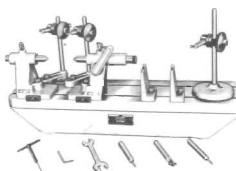
**B1070 SPIRAL**  
GRINDING FIXTURE



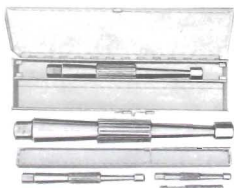
**B988 UNIVERSAL**  
PLAIN CUTTER HOLDER



**SHELL END MILL**  
AND CUTTER ARBOR  
5/8" TO 1-1/2"



**B63 BENCH CENTER AND**  
SURFACE PLATE



**EXPANDING MANDRELS**  
HOLES 3/8" TO 5-1/2"



**B642K ADAPTER**  
NO. 11 B & S O.D.



**B642T TAPER SLEEVES**  
NO. 11 B & S TAPER O.D.



**B936 ARBOR TO FIT ALL**  
MOTOR SHAFTS TO ADAPT  
1-1/4" WHEEL COLLETS



**B936B ARBOR TO ADAPT**  
B255, B955 QUILL FOR  
1-1/4" WHEEL COLLETS

#### IV. MACHINE ADAPTABILITY

- A. ADAPTING A MACHINE WITH HEAVY DUTY GRINDING HEAD TO USE A HIGH SPEED SPINDLE. (See K. O. Lee Univ. Tool & Cutter Grinder Catalog or Grinding Wheel Sheet for listing of available wheel sizes and shapes.)

##### FOR BA962 AND B2062 SERIES ORDER:

1 B6055B Spindle	1 B2055H9 Pulley
1 B855F Pulley and Wheel Arbor	1 B780J I.D. Arbor $\frac{1}{4}$ " Wheel
1 B2055H7 Pulley	1 B780K I.D. Arbor $\frac{1}{4}$ " Wheel
1 B2055H8 Pulley	1 B780C Arbor & Collet for $\frac{1}{4}$ ", $\frac{1}{4}$ " Wheel

##### FOR B6062 SERIES ORDER:

1 B6055A Spindle	1 B6055H3 Pulley
1 B6055F Pulley and Wheel Arbor	1 B6055H5 Pulley
1 B6055C Collet Chuck Assembly $\frac{1}{8}$ ", $\frac{1}{4}$ " Wheels	1 B6055H6 Pulley
1 B6055JS I.D. Arbor $\frac{1}{4}$ " Wheels	1 B6055H7 Pulley
1 B6055JL I.D. Arbor $\frac{1}{4}$ " Wheels	1 B6055H8 Pulley

- B. ADAPTING A MACHINE WITH A STANDARD GRINDING HEAD TO USE A HEAVY DUTY SPINDLE. (See K. O. Lee Univ. Tool & Cutter Grinder Catalog or Grinding Wheel Sheet for listing of available wheel sizes and shapes.)

##### FOR BA960 AND B2060 SERIES ORDER:

1 S6055CL Spindle	1 B246E 8" Guard
1 B936CL Collet	1 B936W Wrench
1 B936P Puller	

##### FOR B6060 SERIES ORDER:

1 B6062A Spindle	1 B246E 8" Guard
1 B936CV Collet and Pulley $2\frac{3}{4}$ "	1 B936C Collet (right hand thread)

- C. ADAPTING A TOOL AND CUTTER GRINDING MACHINE TO BECOME A UNIVERSAL GRINDER.

##### FOR B300, BA900, B2000 SERIES ORDER:

- 1 B955 Universal Grinding Head less present motor — B923( ) — on machine.  
— or —  
1 B955HD Heavy Duty Universal Grinding Head less present motor — B923( ) — on the machine.

#### V. REPAIR KITS AND ORDERING PARTS

HYDRAULIC CYLINDER REPAIR KITS FOR MACHINE MODELS BA900, BA960, BA962, B2000, B2060, B6060, B6062 SERIES: ORDER (1) B4034RK; B5034RK (obsolete cylinders).

INSTRUCTIONS FOR ORDERING PARTS WHEN CONTACTING THE FACTORY OR A DISTRIBUTOR, YOU WILL RECEIVE BETTER SERVICE IF YOU:

1. State the model and serial number of the machine, and the date of purchase.
2. Give the part number, description and quantity for each item as determined from our catalog parts list and price sheets. For motor operated units, state voltage, phase and speed range desired.
3. State the shipping address and the method of transportation desired.