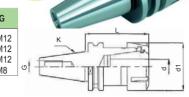
# **Tooling 7:24 Collet Chuck ER Wood Working Line Machines**

Used in CNC wood - working machine. Accuracy: 0.01mm Hardness:HRC 50~55°

Model No.	d	d1	L	K	G
CD30ER16	Ф1-Ф10	Ф28	45	ISO30	M12
CD30ER25	Ф1-Ф16	Φ42	45	ISO30	M12
CD30ER32	Ф2-Ф20	Ф50	50	ISO30	M12
CD25ER16	Ф1-Ф10	Ф28	35	ISO25	M8



With oscillating V-block

for tangent dressing

Model No.:PGF

# **Punch Formers & Radius Dressers**

### Features:

- · For concave and convex radius
- · Hardened tool steel construction
- · Radius dresser standard with
- both models
- · Compare to units costing 2 or 3 times as much
- · Complete with fitted carrying case

Grinding wheel Applications **Punch Forming** 

**Applications** 



Specification				
V-Block Tangential Travel(eith V-block Adjusting Sys	1-1/4"1-3/16" er side of center)25/32" temRack & pinion3-1/2"			
	24 every 15° ±10 seconds 0001" within .0001" in 4" within .0002" in 4"			

# **Visi-Dress Radius** and Angle Dresser

### Features:

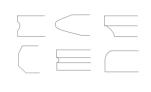
- · 1" Vernier markings for dressing angles
- · Magnification, through hole in the spindle, makes it possible for the operator to see how to dress the form on the grinding wheel
- · Dresser is tested and guaranteed for accuracy
- · Furnished with 90° phonopoint diamond in 1/8" shank
- · Case included

Specifications:	11/2
Overall Height	4"
Length	8-1/4"
Swing Arm	180*
Max. Size Grinding Wheel	8"
Max. Outside Radius(on wheel)	
Max. Inside Radius(on wheel)	1" approx. Model No.:RDFV
Spindle	1"O.D.
Weight	11 lbs.

## **Profile Wheel Dresser**

- · Extremely accurate, this radius and angle dresser can dress 2 angles tangent to a radius in one continuous motion to within .0001"(0.002mm)
- · Fast and easy setups without elaborate accessories; only tools needed are a micrometer and a hex key wrench
- Setup to dress 2 angles takes less than 15 seconds and 1 radius plus 2 angles approx. 3 minutes only
- Precise and sharp contours, concave or convex, are consistently obtained at a full 180° range
- · Made from hardened, ground and lapped alloy tool steel
- · No exposed wear surfaces, swivel on sealed bearings
- · Wheel dresser is furnished complete with base featuring one-inch adjustment
- Graduated micrometer knob provides fine adjustment to accurately dress small radius

**Profile Examples** 





Specifications			
Range of convex radius			
Range of concave radius Wheel dressing capacity			
Height to center of diamond			
Overall height	7"		
Dimensions	4-3/4 × 3-1/2 × 1-1/4"H		

# **Radius & Angle Dressers**

## Features:

- · Extremely accurate and versatile unit which may be used on all O.D., I.D. and surface grinding operations.
- · Knob-A controls radius dressing and Knob-B controls angle dressing.
- · At no time are the hands near the point of contact.
- All moving parts are tapped,
   and the unit has adjustable. and the unit has adjustable gibs for take-up of future wear.
- Accepts 3/8" diameter diamond dresser

### Accuracy:

Squareness of faceplate to dress arm per 2"	.0005"
Squareness of faceplate to base	.0006"
Center runout of dovetail groove to wheel center	.0006'

Specification	Model No.: RAD-10	RAD-12
Max. dia. of wheel	10"	12"
Convex radii	0-1-3/16"	0-1-5/8"
Concave radii		5/8-1-5/8"
Tangent travel either side of o		2"
Center line of tool		3.4"
Overall length	13.66"	16.61"

## **Sine Dresser**

- · Dresses grinding wheels to any angle from 0-60° with smoothness and accuracy
- Cross feed up to 50mm. center distance .01mm
- · Sine angle absolutely accurate
- · Weight:31 lbs



Model No.:SDR

## **5C End Mill Grinding Fixture**

### **Features**

- · Grinds 2,3,4,5,8 and 12 flute end mill and shell end mills, faces only
- · Clearance and relief handles are built into the base to assure accuracy
- Solid 2-1/2" x 4-1/2" base is ground on the bottom



Model No :FMGF

# **Precision Duplex Dresser**

- up to 1-9/16"
- simultaneously dress wheel, precisely and without deformation
- Useful for thinning grinding wheels or dressing thin wheels

### **Specifications**

Max. Width of Wheel	40mm(1-9/16")
Max. Dressing Depth	
Min. Dressing Width	
Graduation	
Weight	

- · Use for dressing diamond and CBN wheels
- · Surface is treated with blaze-dried lacquer
- N.W 4kg

Model No.:FWD

- · Dress any custom width
- Designed to both sides of a grinding

### Model No.:DDP

72 lbs `

# **Brake Turning Unit**

- · Axis part is fixed with shaft bearing and rotates at high speed with great precision



- From Below
  - C6 Carbide-Tipped Boring Bar Set



55

				V 100 19
Model No.	Head Size	Tool Capacity	Shank Type	Boring Bar Set
BHS-2 BHS-2B	2"	1/2"	R8 3/4" Straight	9 Pc.
BHS-3 BHS-3B	3"	3/4"	R8 1" Straight	12 Pc.
BHS-4	4"	1"	R8	7 Pc.

# **End Mill Cutter/Sharpener**

Dia of shank of end mill	Out dia of cutter	Overall length	Width	Height of center
3/16,3/8",1/2"	11.81	330	146	152

- · Complete with all attachments, such as spindles, bushings, etc., to cover the full range of 3/16" up to 1-1/4" shank end mills
- · The end Mill sharpening Unit will accept cutters up to 12" · You can quickly sharpen cutters and end mills right in you own

shop on your regular tool or surface grinder

- · Only two spindles and four bushings cover the full range of 3/16.3/8.1/2.5/8.3/4.7/8.1 and 1-1/4" shank end mills
- · One unit can handle the complete sharpening needs for the shop
- · No need to send out tools for sharpening
- · Accepts Double End End Mills



Model No.:SFEM

# **Boring Heads & Sets Boring Heads**

- · Design assures superior rigidity for chatter-free boring and precise hole size accuracy
- · Bar holder moves freely and smoothly
- · When in place, it holds firmly against to cutting pressures
- Rugged construction and maximum bea surface between the sliding gib and the

ool aring e body	0
Thread Mount	Offset

Model No.	Head Size	Tool Capacity	Thread Mount	Offset
BH-2	2"	1/2"	7/8"-20	5/8"
BH-3	3"	3/4"	1-1/2"-18	3/4"
BH-4	4"	1"	1-1/2"-18	1-5/8"

## **Boring Head** Shanks

Shanks For 2" Boring Heads With 7/8"-20 Thread(Bh-2)

Model	Diameter
SKA-1/2	1/2"Straight Shank
SKA-5/8	5/8"Straight Shank
SKA-3/4	3/4"Straight Shank
SKA-7/8	7/8"Straight Shank
SKA-1	1"Straight Shank
SKA-R8	R8 Bridgeport Shank

	Wodel	Diameter
k	SKB-7/8 SKB-1 SKB-1-1/4 SKB-1-1/2 SKB-R8	7/8"Straight Shank 1"Straight Shank 1-1/4"Straight Shank 1-1/2"Straight Shank R8 Bridgeport Shank

With 1-1/2"-18 Thread

Shanks For 3" & 4" Boring Heads

# **Boring Head Sets**

## All Sets Include:

- · Boring Head
- · Choice of Shank



Model No.	Head Size	Tool Capacity	Shank Type	Boring Bar Set		
BHS-2 BHS-2B	2"	1/2"	R8 3/4" Straight	9 Pc.		
BHS-3 BHS-3B	3"	3/4"	R8 1" Straight	12 Pc.		
BHS-4	4"	1"	R8	7 Pc.		

# **Universal Facing** And **Boring Head**

Model No.	F212A	F213A	F214A
Max. facing and boring dia (mm)	150	350	450
Dia. of tool post holes in slide (mm)	18	22	22
Fine feed per graduation (mm)	0.005	0.005	0.005
Weight of head without shank (kg)	2.9	6.1	7.8
Max. stroke of slide (mm)	± 15	± 25	± 50
Self-acting feed per revolution (mm)	0.02 0.04 0.06	0.0	3 0.06 0.09
	0.08 0.10 0.12	0.12	2 0.15 0.18
Max. dia. of slide (mm)	90	120	168
Height of head without shank	87.5		118
The length of sliding block (mm)	75	105	160
The width of sliding block (mm)	70	90	90
Type of taper shank	R8,MT3/MT6/MW3	/MW6,TZ10,I	SO30,40,45,50,etc

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