



# GRINDING & FINISHING

For a high-quality finish every time, the pros rely on JET grinders, sanders and finishing machines. Because your complete satisfaction is our main objective, JET Bench Grinders, Sanders and Finishing machines are built to last and exceed your expectations. Professionally-written manuals enable more efficient use, and every JET machine is backed by our industry-leading two-year warranty .



# A HIGH-QUALITY FINISH EVERY TIME



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# INDUSTRIAL COMBINATION BELT AND DISC FINISHING MACHINE

High-speed precision and amazing versatility. This rugged piece of equipment has a belt that operates at any angle, and conforms to curves, angles or circular finishing and grinding operations. Machinists who take great pride in their work prefer the JET Industrial Combination Belt & Disc Finishing Machine.



414551

## FEATURES

- Belt operates at any angle
- Powered by a heavy-duty 1-1/2HP TEFC motor
- Fully machined, balanced disc runs vibration free
- Contour finishing, mitering, flat finishing, beveling and precision finishing
- Plain and compound miters are easily obtained by using the standard die cast aluminum miter gauge

## STANDARD EQUIPMENT

- Removable upper guard for contour finishing
- Completely enclosed drums and a guarded sanding belt
- Adjustable heavy-duty cast iron removable platen
- Variable position locks, belt head adjusts vertically, horizontally and in between
- Large cast iron slotted table
- Adjustable dust collector and dust chute
- Heavy-duty one piece steel stand



REMOVABLE UPPER GUARD FOR CONTOURING



LARGE LOCKING NUT AND TABLE ANGLE SCALE

STOCK NUMBER	414551	414552	414553
Model Number	J-4200A	J-4200A-2	J-4202A
Disc Speed (RPM)	1,960	1,960	1,960
Belt Size (in./W x L)	6 x 48	6 x 48	6 x 48
Belt Speed (SFPM)	2,850	2,850	2,850
Disc Table Size (in./L x W)	12 x 16-3/8	12 x 16-3/8	12 x 16-3/8
Table Slots (in.)	3/8 x 3/4	3/8 x 3/4	3/8 x 3/4
Disc Table Tilt (deg.)	45° out and 20° in	45° out and 20° in	45° out and 20° in
Motor	1-1/2HP, 115V, 1Ph	1-1/2HP, 230V, 1Ph	1-1/2HP, 230V, 3Ph
Overall Dimensions (in./ L x W x H)	26 x 19 x 58	26 x 19 x 58	26 x 19 x 58
Net Weight (lbs.)	250	250	250

# 6" x 48" BELT AND 10" DISC MACHINE

This JET Combination Belt and Disc Machine offers every user a desirable combination of power, precision and versatility. Belt changes are quick and easy, and mitering applications are no problem for a superior finish to every job.



## FEATURES

- Two cast iron tilting tables for mitering applications
- Quick-release tension mechanism makes belt changes quick and easy
- Enclosed base protects motor from dust and debris
- 6" x 48" Belt
- 10" Disc
- Full access to the belt when tilted in the horizontal position
- Dust collection shrouds on belt and disc
- Removable safety key switch

## STANDARD EQUIPMENT

- Miter gauge
- Heavy-duty one piece steel stand



BELT TENSIONING LEVER



2" DUST CHUTE

STOCK NUMBER	414550K
Model Number	J-4210K
Disc Speed (RPM)	2,100
Belt Size (in./W x L)	6 x 48
Belt Speed (SFPM)	1,650
Disc Table Size (L x W/in.)	7-1/2 x 13
Table Slots (in.)	5/8
Disc Table Tilt (deg.)	45 out
Motor	1HP, 115V, 1Ph
Overall Dimensions (in./ L x W x H)	23 x 26 x 61
Net Weight (lbs.)	170

# 1" x 42" BENCH BELT AND DISC SANDER

Every shop needs a combination Sander capable of delivering premium finishes every time. The JET-J4002 is a powerful and versatile machine, performing the work of a jig saw, coping saw or hand file removing material and creating a superior finish at the same time. Deluxe miter gauge, removable platen and cast iron construction are among the features that draw pros to this JET machine.



## FEATURES

- Deluxe miter gauge turns and locks for common angles 45° left and right
- Removable platen allows for sanding, grinding or finishing of outside curves or odd shaped work pieces on the belt
- Hinged idler wheel cover
- Abrasive belt unit does the work of a jig-saw, coping saw or hand file while removing material and finishing at the same time, allows the operator to get into small openings plus handle odd shapes and angles

## STANDARD EQUIPMENT

- Deluxe miter gauge
- Cast iron tilting table
- Cast construction
- Heavy-duty steel base and rubber feet
- Removable platen
- Adjustable dust deflector and dust chute



HEAVY-DUTY STEEL BASE AND RUBBER FEET



REMOVABLE PLATEN

STOCK NUMBER	577003
Model Number	J-4002
Disc Speed (RPM)	1,725
Belt Size (in./W x L)	1 x 42
Belt Speed (SFPM)	3,000
Disc Table Size (in.)	4 x 10
Table Slots (in.)	5/8
Disc Table Tilt (deg.)	45 out
Motor	1/3HP, 115VAC, 1Ph
Overall Dimensions (in./ L x W x H)	21 x 22 x 14
Net Weight (lbs.)	62

# 2" x 42" BENCH BELT AND 8" DISC SANDER

Another JET combination Bench Belt and Disc Sander designed to deliver the superior finish. The design of this machine permits sanding, grinding and finishing of outside curves or odd-shaped pieces. Heavy-duty base, cast construction and cast iron tilting table means you are getting the very best JET has to offer.



## FEATURES

- Deluxe miter gauge that turns and locks for common angles, 45° both left and right
- Allows for sanding, grinding or finishing of outside, curves or odd shaped work pieces on the belt
- Hinged idler wheel cover
- Abrasive belt unit does the work of a jig saw, coping saw or hand file while removing material and finishing at the same time, allows the operator to get into small openings, plus handle odd shapes and angles

## STANDARD EQUIPMENT

- Miter gauge
- Cast iron tilting table
- Cast construction
- Heavy-duty steel base and rubber feet
- Removable platen
- Dust deflector and chute

STOCK NUMBER	577004
Model Number	J-41002
Disc Speed (RPM)	3,450
Belt Size (in./W x L)	2 x 42
Belt Speed (SFPM)	3,100
Disc Table Size (in.)	10-3/4 x 7-1/2
Disc Table Tilt (deg.)	45
Motor	3/4HP, 115V, 1Ph
Overall Dimensions (in./L x W x H)	20-1/2 x 22-3/4 x 20
Net Weight (lbs.)	60



EASY TO USE MITER GAUGE



TILT TABLE ADJUSTMENT HANDLE



BELT TENSIONING HANDLE

# 6" INDUSTRIAL BELT FINISHING MACHINE

This JET Industrial Belt Finishing Machine starts with a heavy-duty, one piece steel stand and miter gauge, but offers users so much more in the way of versatility for high-performance results. Variable position locks for both vertical and horizontal belt head adjustments, removable/adjustable heavy-duty cast iron platen and tilting table permit premium contour finishes, as well as plain and compound mitering. A sleek design means it fits anywhere on your shop floor.



## FEATURES

- Table tilts 45° out and 20° in for all angle finishing operations
- Completely enclosed drums and a guarded sanding belt
- Variable position locks, belt head adjusts vertically, horizontally and in between
- Adjustable dust deflector for and dust chute
- Fine thread adjustment for simple and easy belt tracking
- Plain and compound miters are easily obtained by using the standard diecast aluminum miter gauge
- Will handle virtually all the finishing operations in a production line
- Adjustable heavy-duty cast iron removable platen
- Removable upper guard for contour finishing

## STANDARD EQUIPMENT

- Miter gauge
- Heavy-duty one piece steel stand



REMOVABLE UPPER GUARD FOR CONTOURING

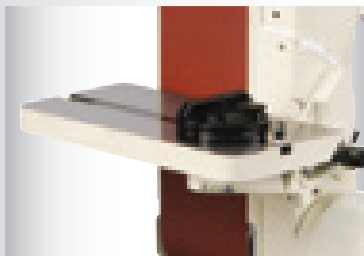


TABLE TILTS 45 DEGREES OUT AND 20 DEGREES IN FOR ANGLE FINISHES

STOCK NUMBER	414600	414601
Model Number	J-4300A	J-4301A
Belt Size (in./ W x L)	6 x 48	6 x 48
Belt Speed (SFPM)	2,850	2,850
Belt Table Size (in.)	7-3/8 x 14-3/4	7-3/8 x 14-3/4
Belt Table Tilt (deg.)	45° out and 20° in	45° out and 20° in
Platen (in./L x W)	6-1/4 x 14-3/4	6-1/4 x 14-3/4
Motor	1-1/2HP, 115/230V, 1Ph, Prewired 115V	1-1/2HP, 230V, 3Ph
Overall Dimensions (in./ L x W x H)	26 x 19 x 58	26 x 19 x 58
Net Weight (lbs.)	215	215

# 3" x 79" BELT GRINDER

**NEW**

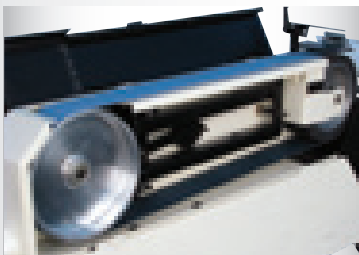
Perhaps the thing operators notice first when putting the JET BG-379 through its paces is how safe and easy it is to use, even when grinding larger pieces along the entire length of the belt. Pivoting belt assembly and hinged top cover, advanced belt tracking, vented and fixed front wheel and the JET exclusive Spark Arrester allow broad use of this JET Belt Grinder. Power and precision you can count on; backed by the industry-leading Two Year Warranty.



## FEATURES

- Pivots up and down on base for easy and safe work height adjustments
- Hinged top cover opens for access to grind large pieces using the entire length of the belt
- Advanced belt tracking with vented front wheel fixed in place for rigidity when grinding on the wheel radius
- Sturdy enclosed base
- Fully assembled for immediate use
- Locking handle for top cover
- 3" Round connector and hose clamp for ease of mounting to a metalworking dust collection system
- JET exclusive Spark Arrester to prevent sparks from flying while using the full length of the belt
- Supplied with 3 extra 80 grit Silicon Carbide Belts standard

STOCK NUMBER	414610	414615
Model Number	BG-379-1	BG-379-3
Belt Size (in. / W x L)	3 x 79	3 x 79
Belt Speed (SFPM)	6600	6600
Contact Wheel Size (in. W x dia.)	3 x 8	3 x 8
Full Grinding Plane (in. W x L)	3 x 21	3 x 21
Motor	4HP, 220V, Single Phase 60Hz	4HP, 220V, 3- Phase 60Hz
Net Weight (lbs.)	200	210



ADVANCED BELT TRACKING WITH VENTED FRONT WHEEL FIXED IN PLACE FOR RIGIDITY WHEN GRINDING ON THE WHEEL RADIUS



JET EXCLUSIVE SPARK ARRESTER TO PREVENT SPARKS FROM FLYING WHILE USING THE FULL LENGTH OF THE BELT

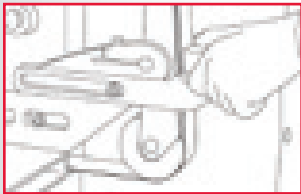


HINGED TOP COVER OPENS FOR ACCESS TO GRIND LARGE PIECES USING THE ENTIRE LENGTH OF THE BELT



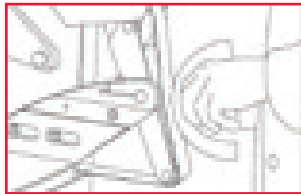
# 2" x 72" SQUARE WHEEL BELT GRINDER

The JET Square Wheel Grinder is a belt grinder that uses a flat platen and idler wheels at each end to achieve a long, flat grinding surface. This innovative design permits grinding on the front wheel, which is square to the work and not crowned. The JET Square Wheel Belt Grinder, Models J-4103 and J-4126AC, grind, deburr and chamfer with equal proficiency both internal/external on parts large and small parts. Accessories allow the user to convert the Square Wheel Belt Grinder for polishing or buffing finished parts and grinding small internal radii. Accessory changeover is quick and easy, as is adjusting belt tension and tracking.



## FLAT OR ANGULAR STOCK

Platen setting is the perfect angle for high speed, precision, flat and level grinding of tools, knives, plastics, and other materials. The platen allows working to very close tolerances. An adjustable work rest is standard on all models.



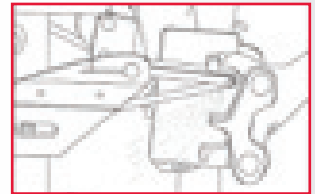
## SHAPING

deal for grinding and finishing cylindrical shapes. The yoke surface conforms to the shape of the surface to produce a smooth, even finish without the danger of scarring. Excellent for tool post applications.



## ROUGHING

Serrated contact wheel is used for removing heavy stock, cleaning up a weld or snagging a casting. This durable 8-inch diameter wheel is used extensively for hollow grinding and profiling knives and other culinary tools. It is standard equipment on all models.



## INTERNAL CONTOURING

The air-cushioned dead head allows very small radius grinding. When connected to a shop air source (80-90 psi), the belt rides on a cushion of air to decrease head and belt wear. The dead head is easy to use, and adapts to any of the available radius tips.



BELT TENSIONING ADJUSTMENT



WORK REST



UPPER COVER

577000



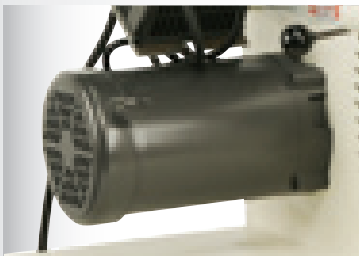
577001



## FEATURES

- Flat & Angular Stock: Platen setting is the perfect angle for high speed, precision flat and level grinding
- Shaping: For grinding, and refinishing cylindrical shapes. Yoke surface conforms to shape of the surface to produce an even, smooth finish
- Roughing: Serrated contact wheel is used for removing heavy stock, cleaning up a weld or snagging a casting
- Contouring: Grind difficult to reach areas with the 3" x 2" or 1-1/2" x 2" diameter contact wheels
- Infinite variable speeds 1100 to 6,000 sfpm
- Latest AC Inverter variable speed technology
- Continuous speed adjustment while in operation
- Easy to view SFPM readout

STOCK NUMBER	577000	577001
Model Number	J-4103	J-4126AC
Belt Size (in./W x L)	2 x 72	2 x 72
Belt Speed (SFPM)	4,600	1,100 - 6,000
Contact Wheel Diameter (in.)	8 x 2; 3 x 2; 1-1/2 x 2	8
Contact Wheel Durometer	70	70
Motor	1HP, 115/230V, 1Ph, Prewired 115V	1HP, 115V, 1Ph, AC Inverter
Overall Dimensions (in./ L x W x H)	17 x 31 x 17	17 x 31 x 17
Net Weight (lbs.)	163	163



USA MADE BALDOR MOTOR



AC INVERTER VARIABLE SPEED TECHNOLOGY

# 20" DISC GRINDER

This large surface disc grinder from JET is designed to put a smooth finish or grind to remove stock on just about anything that comes through your shop. An extra large tilting table ensures user flexibility perhaps previously unimagined, and added safety features ensure your shop stays accident free. JET backs this machine with its industry-leading Two Year Warranty.



577010

## FEATURES

- Extra large tilting table lowers completely below disc for use of the entire disc surface
- Tilting table capability adds flexibility of 45° forward and 30° backward on positive lock rack and gear
- Equipped with a LVP or low voltage protection ON/OFF switch which trips to the off position when the voltage drops below a predetermined safe level

## STANDARD EQUIPMENT

- Direct drive motor
- Low voltage protection switch
- Rigid column and heavy-duty base
- Miter gauge
- Wrap-over guard for added safety



LOW VOLTAGE PROTECTION SWITCH  
WRAP OVER GUARD FOR ADDED SAFETY



TABLE TILTS 45 DEGREES OUT AND 20 DEGREES IN FOR ANGLE FINISHES

STOCK NUMBER	577010	577011
Model Number	J-4421-2	J-4421-4
Disc Diameter (in.)	20	20
Disc Speed (RPM)	1,725	1,725
Disc Table Size (in./ L x W)	27-1/2 x 10-1/2	27-1/2 x 10-1/2
Table Slots (in.)	3/8 x 3/4	3/8 x 3/4
Disc Table Tilt (deg.)	45° out, 15° in	45° out, 15° in
Motor	3HP, 220V, 3Ph	3HP, 460V, 3Ph
Overall Dimensions (in./ L x W x H)	30 x 28 x 53	30 x 28 x 53
Net Weight (lbs.)	400	400

# 12" INDUSTRIAL DISC FINISHING MACHINE

Fine finishing requires a skilled hand. This JET Industrial Disc Finishing Machine enables you to put both metal and wood to the disc, with equally superior results. A fully machined, balanced disc eliminates vibration, and the defects that might otherwise occur. Achieve plain and compound mitering for unique finishes. Professionals take pride in their work, and that's why they turn to JET.



414602

## FEATURES

- Optimum speed of 1,960 RPM, which is ideal for both metal and wood finishing
- Fully machined, balanced disc runs vibration free
- Easy to read scale shows exact degree of table tilt
- Plain and compound miters are easily obtained by using the standard die-cast aluminum miter gauge

## STANDARD EQUIPMENT

- Miter gauge
- Heavy-duty one piece steel stand



LARGE CAST IRON SLOTTED TABLE



12" 60 GRIT DISC INCLUDED

STOCK NUMBER	414602	414603
Model Number	J-4400A	J-4401A
Disc Diameter (in.)	12	12
Disc Speed (RPM)	1,960	1,960
Disc Table Size (in./ L x W)	12 x 16-3/8	12 x 16-3/8
Table Slots (in.)	3/8 x 3/4	3/8 x 3/4
Disc Table Tilt (deg.)	45° out and 20° in	45° out and 20° in
Motor	1-1/2HP, 115/230V, 1Ph, Prewired 115V	1-1/2HP, 230/460V, 3Ph, Prewired 230V
Overall Dimensions (in./ L x W x H)	16 x 19 x 43	16 x 19 x 43
Net Weight (lbs.)	175	175

# SHOP BENCH GRINDER

For shops that may be short on space, a cast iron JET Bench Grinder delivers work power and pristine finishes. Built to withstand the high-volume demands of even the busiest shops, this high-quality machine grinds, sharpens and smooths with equal precision and flawless results.



577101

## FEATURES

- UL listed
- Totally enclosed pre-lubricated ball bearings
- Heavy-duty guarded toggle switch on 8" and 10"
- Rubber mounts prevent movement

## STANDARD EQUIPMENT

- Cast iron wheel guards and dust vents
- One-piece quick adjusting spark guards
- Large eye shields with quick adjustment
- Adjustable tool rests
- Fine and coarse vitrified grinding wheels included

STOCK NUMBER	577101	577102	577103
Model Number	JBG-6A	JBG-8A	JBG-10A
Shaft Diameter (in.)	1/2	5/8	1
Wheel Diameter (dia. x W/in.)	6 x 3/4	8 x 1	10 x 1
Wheel Speed (RPM)	3,450	3,450	1,725
Wheel Grits	36/60	36/60	24/46
Motor	1/2HP, 115V, 1Ph	1HP, 115V, 1Ph	1-1/2HP, 115V, 1Ph
Overall Dimensions (in./ L x W x H)	17 x 10 x 9	19 x 12 x 11	25 x 16 x 15
Net Weight (lbs.)	38	60	110



LARGE EYE SHIELDS



CAST IRON GUARDS AND DUST CHUTES



ADJUSTABLE CAST IRON TOOL RESTS



## PEDESTAL STAND FOR BENCH GRINDERS

### FEATURES

- Heavy-duty cast iron construction provides strength and durability
- Wide stance base gives you a stable grinder workstation
- Coolant tank and tool tray are on an adjustable platform for your convenience
- Compatible with all JET Bench Grinders

STOCK NUMBER	577172
Model Number	JPS-2A
Mounting Surface (in./ L x W)	11 x 10
Overall Dimensions (in./ L x W x H)	31 x 21 x 5
Net Weight (lbs.)	52



# METAL DUST COLLECTOR

JET'S new Metal Dust Collector is great for collecting abrasive dust from belt & disc finishing and grinding machines. Chips and dust collect into a metal drawer that is easy to clean, and no cloth bag eliminates the risk of a fire! Two 4" chutes allows you to attached two different machines, and portable casters allows for use throughout your shop. Enhance the health and safety levels in your shop with JET innovation.



## FEATURES

- Non-sparking aluminum housing and fan blade
- Easy to empty clean-out drawer
- Easy to change air filter
- Quiet, effective dust collection method
- Portable on 4 casters and 2 handles for ease of movement
- 4" to 3" Hose adapter include



ON/OFF WITH SAFETY KEY



DUST CHUTE



DUST DRAWER

STOCK NUMBER	414700
Model Number	JDC-500
Maximum CFM	490
Maximum Hose Velocity (SFPM)	5610
Filter (WxLxD/in.)	19 x 9-1/2 x 1-3/4
Filter Efficiency:	99% @5micron
DBA @ 5'	75
Hose Size (WxL/in.)	4
Overall Dimensions	30-1/2 x 31-1/2 x 31-1/2
Motor	1/2HP
Net Weight (lbs.)	157

OPTIONAL EQUIPMENT	STOCK NUMBER
3" Heat Resistance Hose to 130 Degrees	414715
3" Heat Resistance Hose to 180 degrees	414720
4" Heat Resistance Hose to 130 Degrees	414705
4" Heat Resistance Hose to 180 Degrees	414710
Pair of Replacement Filters	414705

# FINISHING HELPFUL INFO

EVERY JET MACHINE IS DESIGNED WITH THE SOLE INTENT OF MAKING YOUR JOB EASIER. HERE IS SOME BASIC AND HELPFUL INFORMATION ON ALL OUR FINISHING MACHINES TO ENHANCE THE USER EXPERIENCE.



## GRINDING/FINISHING MACHINES APPLICATIONS

Belt grinding is a versatile process suitable for all kinds of different applications. There are three different applications of the belt grinding technology:

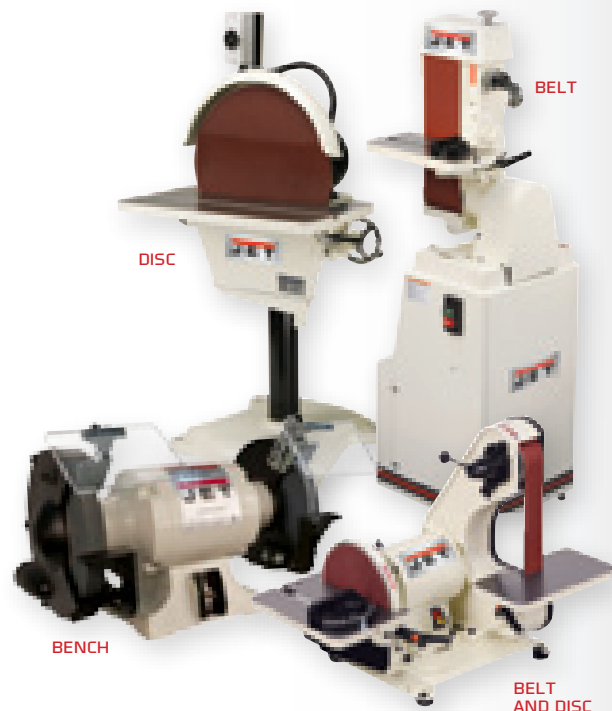
- 1 Finishing: surface roughness, removal of micro burrs, cosmetic finishes, polishing
- 2 Deburring: radiusing, burr removal, edge breaking
- 3 Stock removal: high stock removal, cleaning (e.g. of corrosion), eliminating mill or tool marks, dimensioning

## CHANGING VARIABLES

There are several objectives possible for grinding with coated abrasives. Among them are the right application (e.g. finish or stock removal), time saving and efficiency of the abrasive tool. To achieve the above objectives, it is essential to look in more detail to the variables, which affect them. These include the work material properties, the grit and abrasive type of the grinding belt, belt speed, belt sequences, contact wheel hardness and diameter, serration, type of lubricant (or dry) and grinding pressure. Changing these variables will affect the performances of the belt grinding process.

## TYPES OF GRINDING/ FINISHING MACHINES

Jet offers over 28 different finishing machines in different sizes, styles and many different voltages but easily breaks down to 4 different types. Refer to category summary below.





## COMMON TERMINOLOGY OF GRINDING AND FINISHING MACHINES

- A** ABRASIVE BELT
- B** TOP COVER LOCK KNOB
- C** BELT ADJUSTMENT KNOB
- D** VARIABLE POSITION LOCKS
- E** ABRASIVE DISC
- F** MITER GAUGE
- G** CAST IRON TILTING TABLES
- H** TABLE LOCKING KNOB
- I** ON/OFF SWITCH
- J** HEAVY-DUTY ONE PIECE METAL STAND

