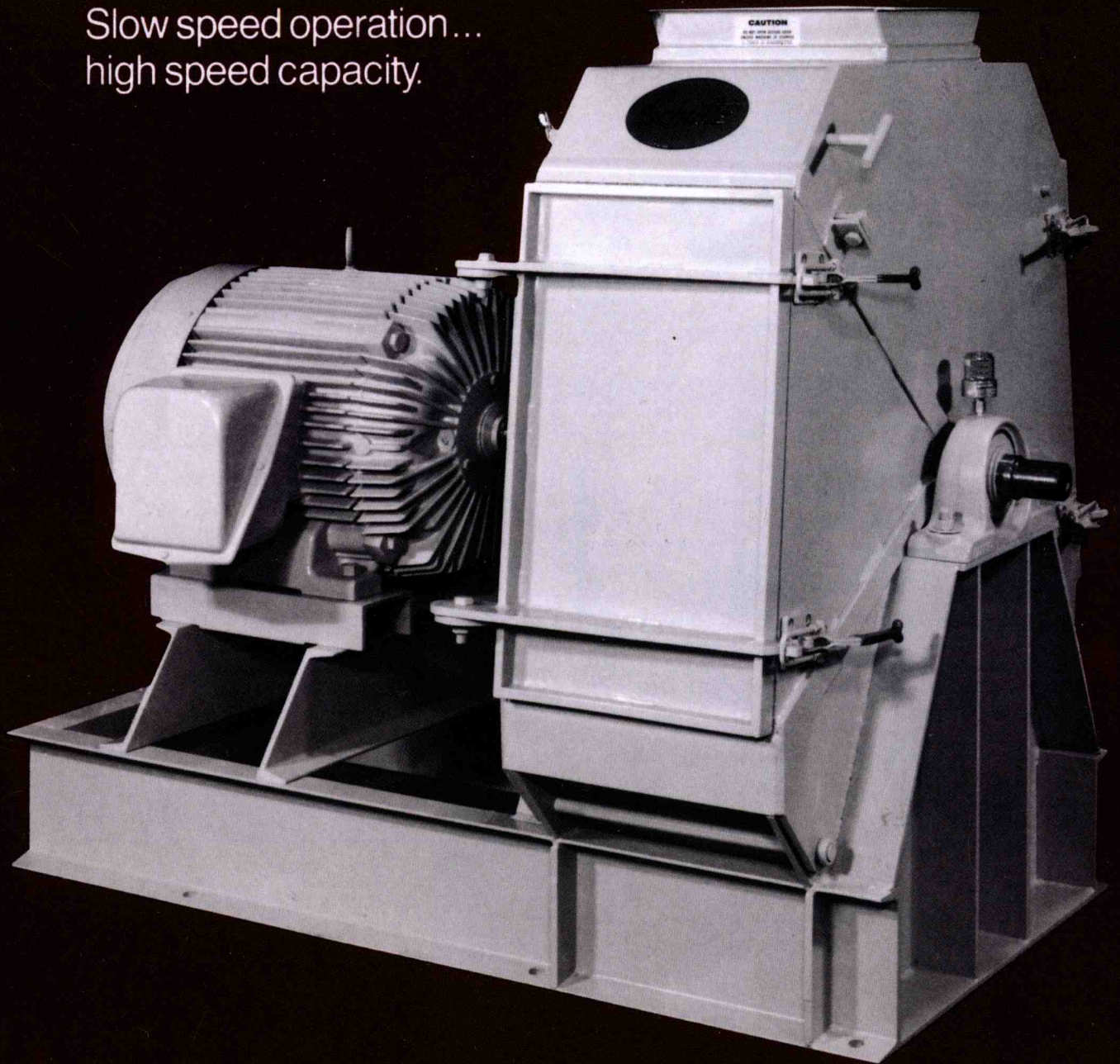


# Schutte Slow Speed

## CIRC-U-FLOW HAMMER MILLS

Slow speed operation...  
high speed capacity.



*Schutte*

# Proven Series 301 Features

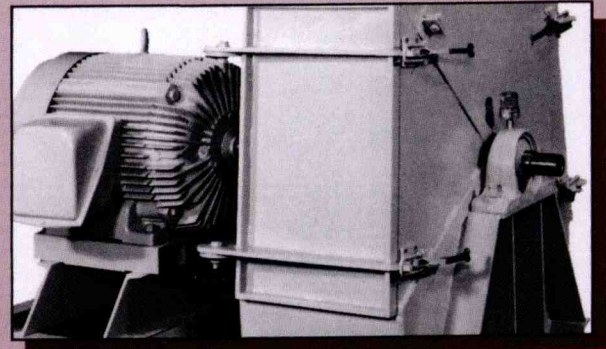
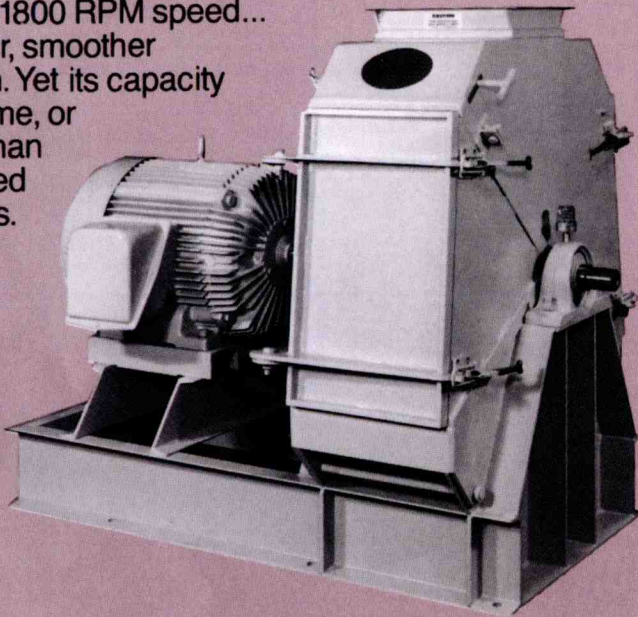
The Schutte Slow Speed Hammer Mills incorporate the same proven features that have made the High Speed Series 301 Circ-U-Flow the state of the art in circular hammer mills.

- **Top feeding** - for highest efficiency. Leading edge of screen creates a breaker plate action for instantaneous grinding action.

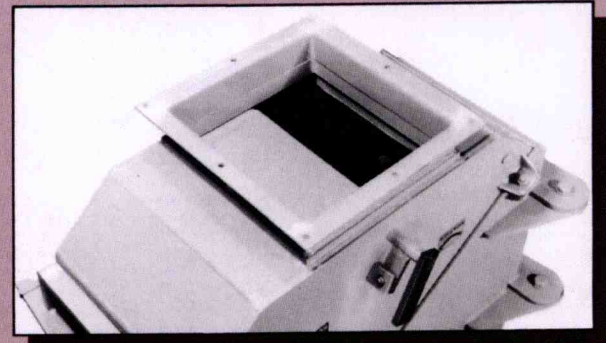
- **Airless operation** - with dependable gravity feed and discharge. Eliminates the need for a fan or dust collector.
- **Virtually dust-free** - because unground material enters the mill as a solid mass with minimal entrained air. And little air leaves the mill.
- **Available in two models** - 38" and 44" rotor diameter.

## Model 38 - Series 301 Slow Speed Circ-U-Flow

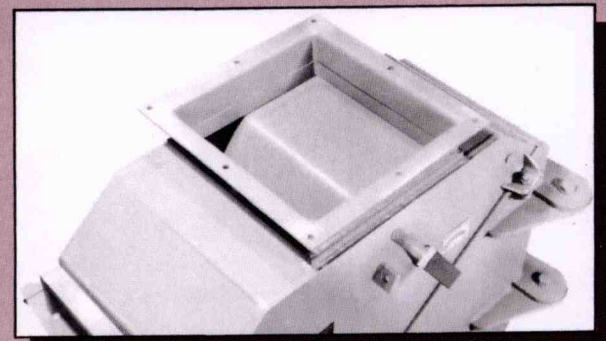
This unique hammer mill runs at a slow 1800 RPM speed... for quieter, smoother operation. Yet its capacity is the same, or greater, than high speed machines.



**Exclusive between-bearing rotor location**  
Eliminates the over-hung or outboard rotor arrangement normally used in circular type hammer mills. Permits more compact design, gives longer bearing life, plus smoother operation with less vibration.



**Exclusive butterfly valve/spout**  
Set for feeding in clockwise rotation.



For counter-clockwise grinding. Note how lever controls position of valve.

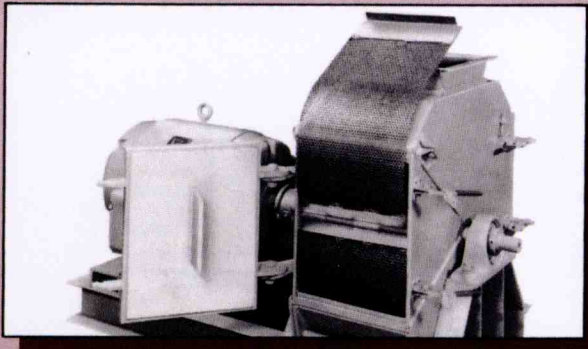
## Designed For Superior Performance

- Larger total screen area of 1274-2940 square inches is a major factor in assuring high capacity. Screen widths are 13", 18", 24" and 30".
- Increase in rotor width, rather than diameter, achieves maximum screen area to horsepower applied, and also provides a thinner stream of material to be hammered.
- The 38" diameter hammer circle at 1750 RPM equals 17,413 FPM. This lower range minimizes fines or powder, producing higher quality, more palatable animal feed.
- A 30-degree offset internal butterfly valve/spout, controlled by an external lever, directs incoming material to right or left of center, depending on motor rotation. This insures maximum impact velocity for hammer/particle collision.

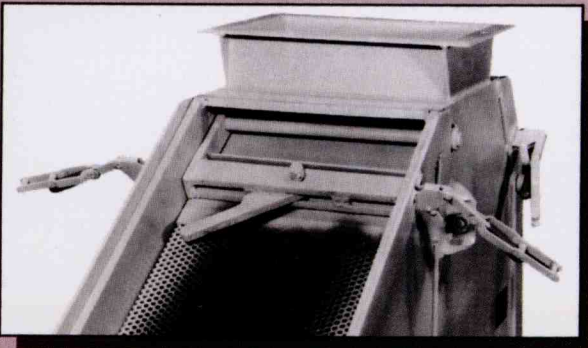
## Specifications - Model 38 - Series 301 Slow Speed Circ-U-Flow

Fabricated of 1/2" boiler plate  
 38" diameter rotor  
 1/4" hard faced hammers  
 Power required: 75 to 250 horsepower  
 1800 RPM shaft speed  
 38" diameter hammer circle  
 Tip speed: 17,900 FPM  
 Screen area: 1274 to 2940 sq. in.  
 Four sizes - to handle a variety of free-flowing products

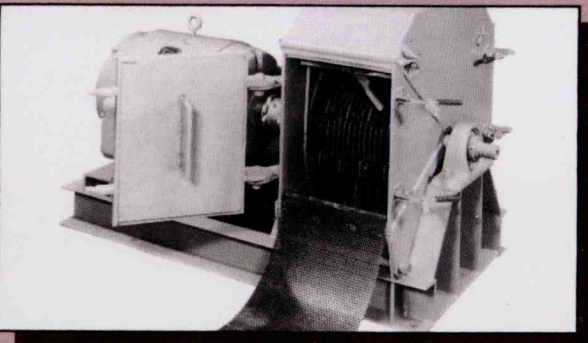
All models are equipped with LubeSite® Automatic Grease Feeders. By means of a unique metering mechanism which controls grease flow, these units automatically provide the correct amount of lubricant to the bearings. A transparent dome on every LubeSite® gives a visible check of interior grease level.



**Exclusive middle-hinged screens**  
 Two-section pinned type screens permit easy removal and replacement of either section. Note swing-out door which gives complete access.

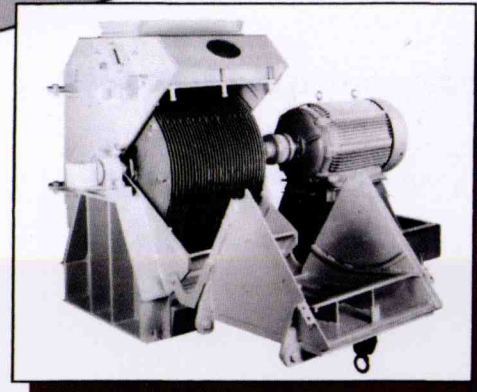
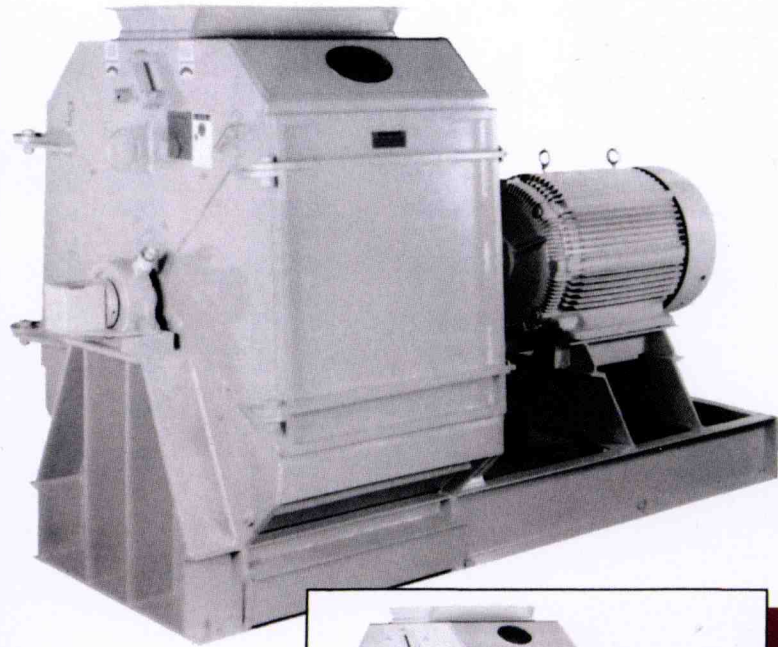


**Exclusive eccentric locking device**  
 Clamps the screen in perfect position to hammering circle, with ideal 1/4" clearance between hammer tip and screen. Prevents outward bulging and peripheral stretching.



**Easy access to hammers and rotor**  
 Drop-down door permits easy service and maintenance. Note the rugged welded steel construction of the mill, from 1/2" thick boiler plate.

## Model 44 - Series 301 Slow Speed Circ-U-Flow



Drop-down door gives easy access to hammers and rotor for service and maintenance.

## Specifications - Model 44 - Series 301 Slow Speed Circ-U-Flow

Fabricated of 3/4" boiler plate  
 1/4" hard faced hammers  
 Power required: 75 to 250 horsepower  
 1800 RPM shaft speed  
 44" diameter hammer circle  
 Tip speed: 20,700 FPM  
 Screen area: 1440 to 3400 sq. in.  
 Four sizes - to handle a variety of free-flowing products

Screens are a two-sectioned pinned arrangement type, for easy replacement of either section, and are positioned by a pin and positive lock clamp mechanism for maintaining a perfect 3/8" hammer tip/to screen clearance.

The frame design is unique in that it has triple access doors for easy screen, hammer or rotor replacement.

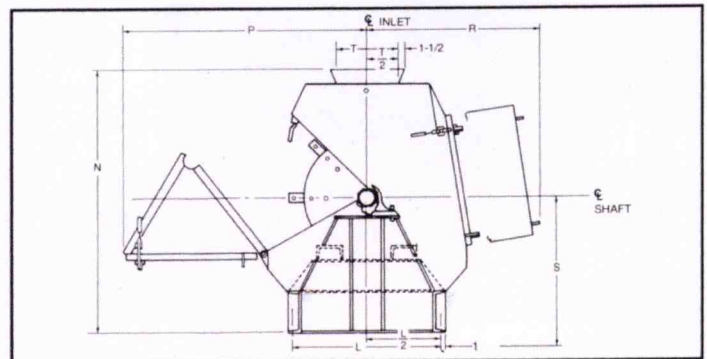
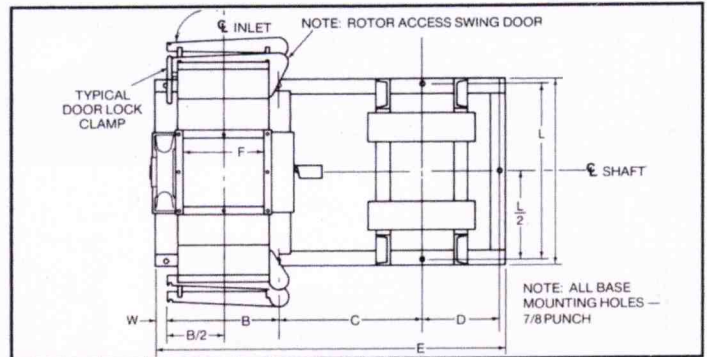
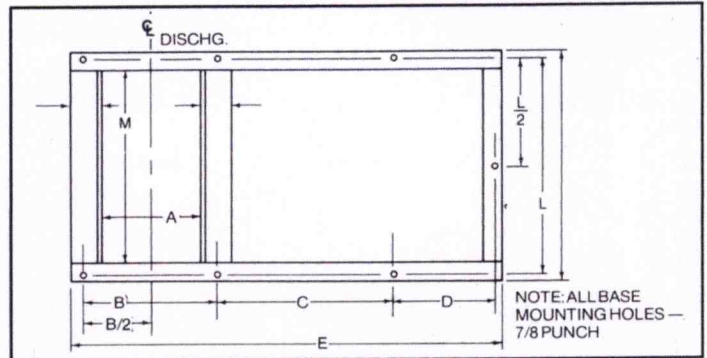
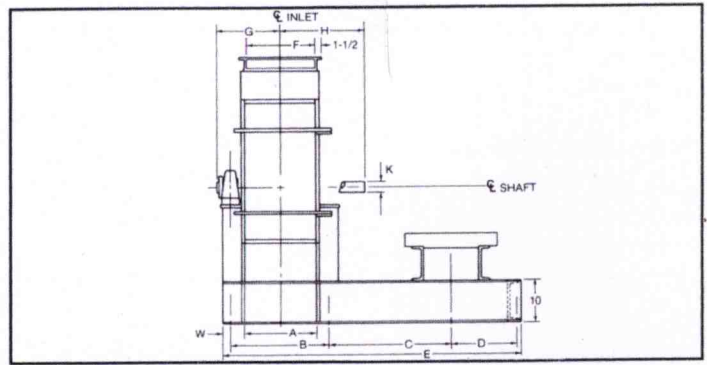
# Model 38 Dimensions

KEY	#38-13-301B	#38-17-301B	#38-24-301B	#38-30-301B
A	12 <sup>7</sup> / <sub>8</sub> "	17 <sup>7</sup> / <sub>8</sub> "	24 <sup>5</sup> / <sub>16</sub> "	30 <sup>5</sup> / <sub>16</sub> "
B	18 <sup>3</sup> / <sub>8</sub> "	23 <sup>3</sup> / <sub>8</sub> "	29 <sup>9</sup> / <sub>16</sub> "	37 <sup>13</sup> / <sub>16</sub> "
C	29 <sup>3</sup> / <sub>4</sub> "	29 <sup>1</sup> / <sub>4</sub> "	29 <sup>1</sup> / <sub>2</sub> "	40 <sup>3</sup> / <sub>16</sub> "
D	14 <sup>5</sup> / <sub>8</sub> "	15 <sup>7</sup> / <sub>8</sub> "	15 <sup>3</sup> / <sub>16</sub> "	22"
E	66"	72"	78"	104"
F	11 <sup>3</sup> / <sub>8</sub> "	16 <sup>7</sup> / <sub>8</sub> "	23"	29"
G	12 <sup>7</sup> / <sub>16</sub> "	18 <sup>1</sup> / <sub>16</sub> "	21 <sup>1</sup> / <sub>4</sub> "	24 <sup>1</sup> / <sub>16</sub> "
H	18 <sup>5</sup> / <sub>16</sub> "	20 <sup>9</sup> / <sub>16</sub> "	23 <sup>3</sup> / <sub>4</sub> "	30 <sup>3</sup> / <sub>8</sub> "
K	2 <sup>1</sup> / <sub>2</sub> "	2 <sup>1</sup> / <sub>2</sub> "	2 <sup>1</sup> / <sub>2</sub> "	2 <sup>7</sup> / <sub>8</sub> "
L	36"	36"	36"	36"
M	32"	32"	32"	32"
N	63 <sup>1</sup> / <sub>2</sub> "	63 <sup>1</sup> / <sub>2</sub> "	63 <sup>1</sup> / <sub>2</sub> "	63 <sup>1</sup> / <sub>2</sub> "
P	60"	60"	60"	60"
R	42"	47"	53"	59 <sup>1</sup> / <sub>2</sub> "
S	32 <sup>1</sup> / <sub>2</sub> "	32 <sup>1</sup> / <sub>2</sub> "	32 <sup>1</sup> / <sub>2</sub> "	32 <sup>1</sup> / <sub>2</sub> "
T	13 <sup>3</sup> / <sub>4</sub> "	13 <sup>3</sup> / <sub>4</sub> "	13 <sup>3</sup> / <sub>4</sub> "	13 <sup>3</sup> / <sub>4</sub> "
W	2 <sup>1</sup> / <sub>4</sub> "	2 <sup>1</sup> / <sub>2</sub> "	2 <sup>1</sup> / <sub>2</sub> "	3"

# Model 44 Dimensions

KEY	#44-13-301B	#44-17-301B	#44-24-301B	#44-30-301B
A	12 <sup>7</sup> / <sub>8</sub> "	17 <sup>7</sup> / <sub>8</sub> "	24 <sup>5</sup> / <sub>16</sub> "	30 <sup>5</sup> / <sub>16</sub> "
B	18 <sup>3</sup> / <sub>8</sub> "	23 <sup>3</sup> / <sub>8</sub> "	29 <sup>9</sup> / <sub>16</sub> "	37 <sup>13</sup> / <sub>16</sub> "
C	29 <sup>3</sup> / <sub>4</sub> "	29 <sup>1</sup> / <sub>4</sub> "	29 <sup>1</sup> / <sub>2</sub> "	40 <sup>3</sup> / <sub>16</sub> "
D	14 <sup>5</sup> / <sub>8</sub> "	15 <sup>7</sup> / <sub>8</sub> "	15 <sup>3</sup> / <sub>16</sub> "	22"
E	66"	72"	78"	104"
F	11 <sup>3</sup> / <sub>8</sub> "	16 <sup>7</sup> / <sub>8</sub> "	23"	29"
G	12 <sup>7</sup> / <sub>16</sub> "	18 <sup>1</sup> / <sub>16</sub> "	21 <sup>1</sup> / <sub>4</sub> "	24 <sup>1</sup> / <sub>16</sub> "
H	18 <sup>5</sup> / <sub>16</sub> "	20 <sup>9</sup> / <sub>16</sub> "	23 <sup>3</sup> / <sub>4</sub> "	30 <sup>3</sup> / <sub>8</sub> "
K	2 <sup>1</sup> / <sub>2</sub> "	2 <sup>1</sup> / <sub>2</sub> "	2 <sup>1</sup> / <sub>2</sub> "	2 <sup>7</sup> / <sub>8</sub> "
L	38"	38"	38"	38"
M	34"	34"	34"	34"
N	70 <sup>1</sup> / <sub>2</sub> "	70 <sup>1</sup> / <sub>2</sub> "	70 <sup>1</sup> / <sub>2</sub> "	70 <sup>1</sup> / <sub>2</sub> "
P	68 <sup>1</sup> / <sub>2</sub> "	68 <sup>1</sup> / <sub>2</sub> "	68 <sup>1</sup> / <sub>2</sub> "	68 <sup>1</sup> / <sub>2</sub> "
R	46 <sup>3</sup> / <sub>4</sub> "	51 <sup>3</sup> / <sub>4</sub> "	57 <sup>3</sup> / <sub>4</sub> "	64 <sup>1</sup> / <sub>2</sub> "
S	35 <sup>1</sup> / <sub>2</sub> "	35 <sup>1</sup> / <sub>2</sub> "	35 <sup>1</sup> / <sub>2</sub> "	35 <sup>1</sup> / <sub>2</sub> "
T	14 <sup>3</sup> / <sub>4</sub> "	14 <sup>3</sup> / <sub>4</sub> "	14 <sup>3</sup> / <sub>4</sub> "	14 <sup>3</sup> / <sub>4</sub> "
W	2 <sup>1</sup> / <sub>4</sub> "	2 <sup>1</sup> / <sub>2</sub> "	2 <sup>1</sup> / <sub>2</sub> "	3"

# Dimensional Drawings



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