

LINEAL & WIRE MEASURING COUNTERS

Durant presents a complete line of counting instruments for the specialized purpose of providing dependable and accurate measuring of cloth, fabrics, thread, veneer, paper, thin wire, or other materials made in sheets, webs, or strips. The proper selection of counter and wheels will result in years of satisfactory service.

The Durant line of wire measuring units provides accurate and dependable measuring and recording of the footage of wire, cable and rope during manufacturing and distribution. Three basic, high-speed designs, with variations of the counting instruments, offer the solution to virtually every need.

Series T

Series T units are extremely sturdy, ball bearing, worm drive lineal measuring machines, operating at speeds up to 1500pp yards per minute, for measuring materials made in sheets or rolls. Measures in feet, yards, or yards and 1/8ths. The double measuring wheel assures accurate alignment and long wear at high speeds.

Series H

Series H units are built for hard usage with leverage and weight to insure proper traction. Measures at speeds up to 600 yards per minute. Easily adjusted to meet installation requirements with wheel and mounting bracket adaptable to either side of the counter. Bracket is adjustable to height and stoppage to prevent racing. Measures in feet, yards, or yards and 1/8 ths.

Series D

A lightweight counter for measuring soft, delicate fabric, paper, etc., at speeds up to 800 yards per minute. Measures in feet, yards, or yards and 1/8ths. 2 1/4 lbs. pressure of wheel on surface.

Series D Thread Meter

Lightweight, easy operating, 5 figure, non-slipping lineal measuring unit with speeds up to 600 feet per minute, designed to measure thread, string, fishline, thin wire, etc. Unit consists of a right angle worm gear drive 5-D-6 revolution counter with a 12" grooved steel measuring wheel.

Series L-16

Series L-16 base units are sturdily built machines with an orifice capacity from .030 to .500 inch diameter. A rugged brake, with easily replaced shoes, stops the measuring wheel the instant the last of the material leaves the machine. Idler wheel suspended between double ball bearing bracket. Long bushings guide the material to keep it between the wheels. Adjustable tension springs maintain even pressure on material.

DESIGNATION SYSTEM

The Durant model designation system will guide you in the selection of most counters. Since there are some exceptions to the system, and several product lines cannot be adapted to it, the Durant Model Designation system should be used for reference only.

The following counter families employ the Durant Model Designation system:

Stroke Counters

Revolution Counters

Electric Counters (except "YE" Series and Miniature Electric Series)

Predetermined Counters (except "Y" Series and "PD-Q" Series)

Lineal and Wire Measuring Counters

Conveyor Counters

ONE First Digit indicates NUMBER OF WHEELS in counter. (On double deck models – first two digits indicate number of wheels in top and bottom rows respectively.)

TWO Letter indicates MODEL TYPE.

CS – Top Reading, Revolution or Stroke

D – Medium Duty, Stroke or Revolution

H – Heavy Duty, Stroke or Revolution

HDW – High Speed Double Worm Drive Revolution

HF – Bottle and Can Counters

L – Wire Measuring

N – High Speed Double Deck

R – Predetermined Counters

SM – Steel Mill Counters

SP – Small Predetermined

T – Top Reading, Medium Sized

Y – Small High Speed Counter

X – Small, Medium Duty, Stroke or Revolution

THREE First Digit Following Letter indicates TYPE OF DRIVE ACTION or UNITS IN WHICH COUNTER RECORDS. Four or five digit numbers when shown indicate DRAWING NUMBERS.

1 – Stroke Action

2 – Desk Tally Lever

3 – Can Counters

4 – Bottle Counters or Bottom Rotary Drive

5 – Conveyor or Case Counting Action

6 – Front or Rear Revolution Drive Action

7 – End Drive Revolution Action

8 – Recording in Feet

9 – Recording in Yards and 1/8 Yards

90 – Recording in Full Yards

16 – Wire Measuring Recording Feet, or Stroke Drive on Double Deck Predetermined Models

20 – Heavy Duty Wire Measuring Recording in Feet

66 – Right Angle on Double Deck Predetermined Models

76 – End Drive on Double Deck Predetermined Models

FOUR Second Digit Following Letter indicates TYPE OF RESET.

1 – Wing Nut Reset

2 – Lock and Key Reset

3 – Non-Reset

4 – Packer Tally Lever Attachment

MF – Electrically Operated

Q – Quick Reset

ER – Electric Reset

FIVE First Letter After Digits indicates CHARACTERISTICS.

R – Right Hand Drive Shaft

L – Left Hand Drive Shaft

MF – Electrically Operated

RMF – Electrically Operated with Rectifier

Q – Quick Reset

ER – Electric Reset

RP – Rustproof

PM – Panel Mount

B – Base Mount

S – Special Characteristics

SIX DIRECTION of SHAFT ROTATION on ALL REVOLUTION MODELS. VOLTAGE ON ELECTRIC COUNTERS.

AC – Anti-Clockwise (Counter Clockwise)

CL – Clockwise

D – DC Current Preceded by Voltage

A – AC Current Preceded by Voltage

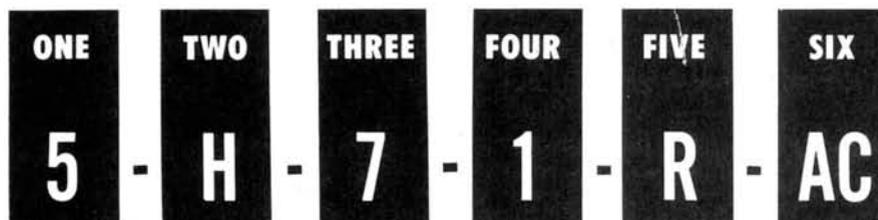
Direction of Shaft Rotation taken as follows

End Drive Models – From RIGHT HAND END of Counter

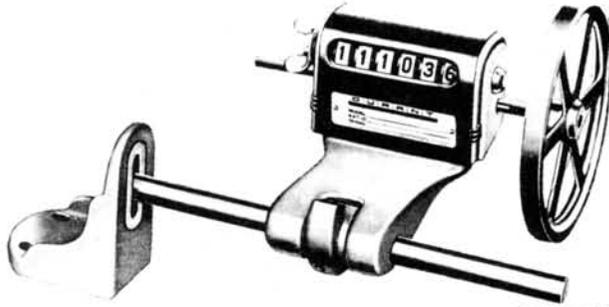
Front or Rear Drive – From FRONT of Counter

Top or Bottom Drive – From TOP of Counter

example for model 5-H-7-1-R-AC



SERIES "H" LINEAL COUNTERS



6-H-8-1-R-AC
Counter Only

Model "H" units are built for hard usage with leverage and weight to insure proper traction. Measures at speeds up to 600 yards per minute. Easily adjusted to meet installation requirements with wheel and mounting bracket adaptable to either side of the counter. Bracket is adjustable to height and stoppage to prevent ricing. Measures in feet, yards, or yards and 1/8ths.

SPECIFICATIONS:

Figures: 5 or 6
Speed: Up to 600 yards per minute with 18" wheel
Reset: Wing nut
Bracket: 01465-400
Bracket Mounting: Base
Measuring Wheel: See Selection Table.

The selection of a proper wheel depends on the material to be measured. For paper, cloth, or smooth finished materials rubber rimmed wheels prevent damage, tearing, or marking. For coarse, heavy material use knurled wheels, and where high speed and extreme abrasive conditions prevail, use wheels with Urethane rim. This new wheel, although more expensive, holds its true shape at all times and will outlast conventional types by 10 to 15 times.

ORDERING INFORMATION:

When ordering Series H lineal counters consider — rotational direction of measuring wheel, unit of measurement and maximum length before determining model number from Selection Table. Once the counter has been selected; to request a complete assembly the bracket (01465-400) and measuring wheel must also be ordered.

MEASURING WHEELS

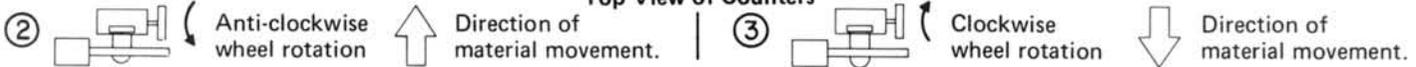
No.	Type	Width	Circum.
21665-300 (1651-X)	Aluminum, Knurled	1/2"	18"
21666-300 (1722-X)	Aluminum, Rubber Rim	1/2"	18"
20148-300 (BB-1171-X)	Aluminum, Urethane Rim	1/2"	18"

SELECTION TABLE:

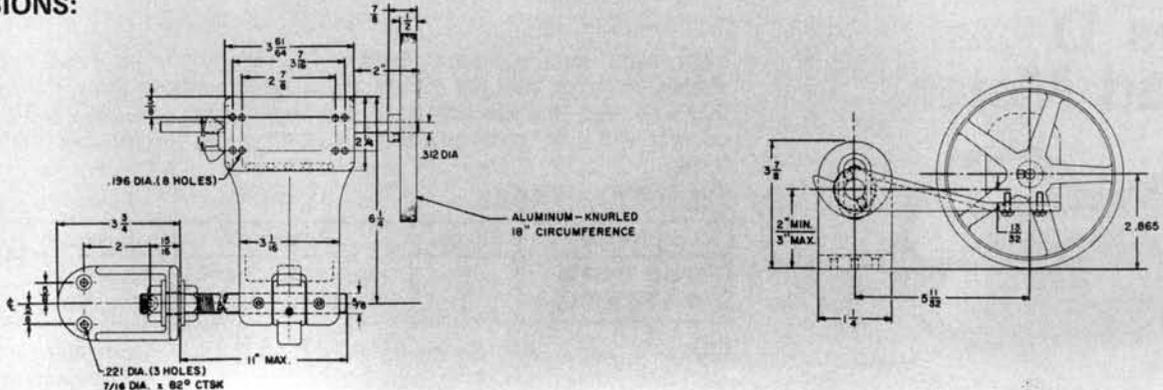
Model Number ①	Figures	Rotation	Unit of Measure	Maximum Count	Weight
5-H-8-1-R-AC	5	Anti-Clockwise ②	Feet	99999	7 lb.
5-H-8-1-R-CL	5	Clockwise ③	Feet	99999	7 lb.
5-H-9-1-R-AC	5	Anti-Clockwise ②	Yards & 1/8ths	9999-7/8	7 lb.
5-H-9-1-R-CL	5	Clockwise ③	Yards & 1/8ths	9999-7/8	7 lb.
5-H-90-1-R-AC	5	Anti-Clockwise ②	Yards	99999	7 lb.
5-H-90-1-R-CL	5	Clockwise ③	Yards	99999	7 lb.
6-H-8-1-R-AC	6	Anti-Clockwise ②	Feet	999999	7 1/2 lb.
6-H-8-1-R-CL	6	Clockwise ③	Feet	999999	7 1/2 lb.

① Model number is for counter only. Bracket and wheel must be ordered separately.

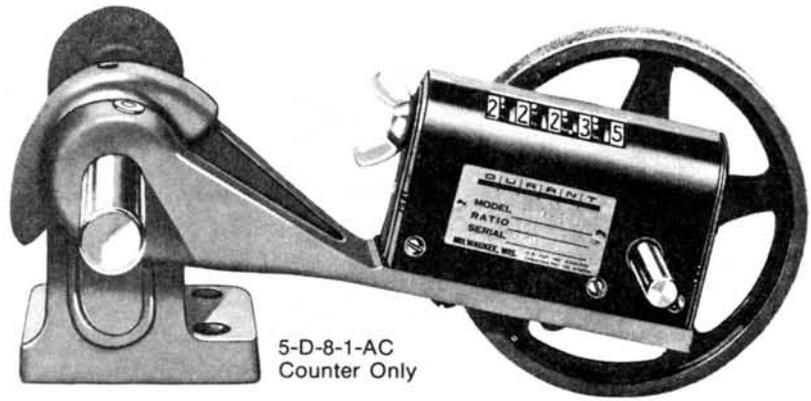
Top View of Counters



DIMENSIONS:



SERIES " D " LINEAL COUNTERS



5-D-8-1-AC Counter Only

A lightweight counter for measuring soft, delicate fabric, paper, etc., at speeds up to 800 yards per minute. Measures in feet, yards, or yards and 1/8ths, as specified, or on special order, may be supplied to read in meters or other lineal units. 2 1/4 lb. pressure of wheel on surface.

MEASURING WHEELS

Measuring Wheels	Wheel Rim	Width	Circum.
20156-300	Aluminum, Knurled	1/2"	12"
20154-300	Aluminum, Rubber Rim	5/8"	12"
20144-300	Aluminum, Urethane Rim	3/4"	12"

SPECIFICATIONS:

- Figures: 5
- Speed: Up to 800 yards per min.
- Bearings: Oil-less, maintenance free
- Figure Size: 1/4" high, black on white background
- Reset: Wing nut
- Wheel: See Selection Table
- Bracket: 40460-400

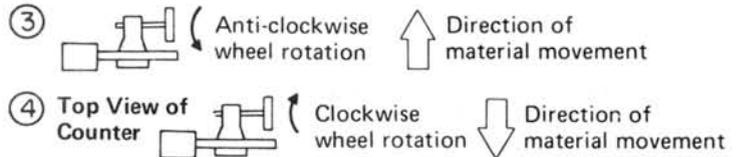
SELECTION TABLE

Model Number ^①	Figures	Rotation ^②	Unit of Measure	Max. Count	Weight
5-D-8-1-AC	5	Anti-clockwise ^③	Feet	99999	3 1/2 lb.
5-D-8-1-CL	5	Clockwise ^④	Feet	99999	3 1/2 lb.
5-D-90-1-AC	5	Anti-clockwise ^③	Yards	99999	3 1/2 lb.
5-D-90-1-CL	5	Clockwise ^④	Yards	99999	3 1/2 lb.
5-D-9-1-AC	5	Anti-clockwise ^③	Yards & 1/8 ths	9999 7/8	3 1/2 lb.
5-D-9-1-CL	5	Clockwise ^④	Yards & 1/8 ths	9999 7/8	3 1/2 lb.

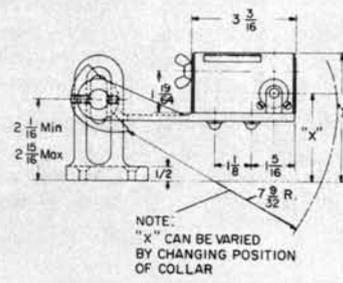
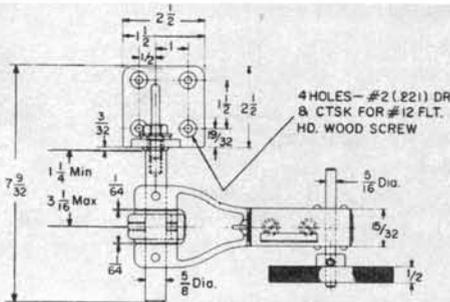
ORDERING INSTRUCTIONS

When ordering Series D lineal measuring units consider — unit of measure and maximum count required. Once the counter has been selected; to request a complete assembly the bracket (40460-400) and measuring wheel must also be ordered.

- ① Model number includes counter only. Bracket and wheel must be ordered separately.
- ② When the measuring wheel is turned in the reverse of its rotation, the counter will subtract.



DIMENSIONS:



Series D Thread Meter

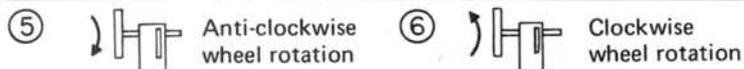


5-D-6-1-TM-AC

Lightweight, easy operating, 5 figure, non-slipping lineal measuring unit with speeds up to 800 feet per minute, designed to measure thread, string, fishline, thin wire, etc. Unit consists of a right angle worm gear drive 5-D-6 revolution counter with a 12" grooved steel measuring wheel Part Number 20052-200 (BB-0318).

SELECTION TABLE

Model Number ^①	Figures	Rotation ^②	Reset	Weight
5-D-6-1-TM-AC	5	Anti-clockwise ^⑤	Wing Nut	1 lb. 2 oz.
5-D-6-1-TM-CL	5	Clockwise ^⑥	Wing Nut	1 lb. 2 oz.





L-HDW-16-1-B



L-R-16-Q-C

SERIES " L-16 " WIRE MEASURING COUNTERS

MODEL "L-16" SERIES Base units are sturdily built machines with an orifice capacity from .030 to .500 inch diameter. A rugged brake, with easily replaced shoes, stops the measuring wheel the instant the last of the material leaves the machine. Idler wheel suspended between double ball bearing bracket. Long bushings guide the material to keep it between the wheels. Adjustable tension springs maintain even pressure on material.

MODEL "L-HDW-16" SERIES The high-speed, end drive, rugged "HDW" counter utilizes a double worm drive to produce continuous, smooth counting speeds up to 2000 feet per minute. Furnished with wing nut or quick action lever reset. Oil-less bearings; drive mechanism of accurately machined and hardened steel parts. Lightweight, precision molded, plastic number wheels have black figures 11/32" high on white background. Model L-H-16-1-M indicates meters and operates at speed of 200 meters per minute.

MODEL "L-R-16-Q" SERIES with PREDETERMINED COUNTER Any desired number of feet can be preset on the counter and, when reached, an electric switch within the counter can either close or open an electric circuit, ring a bell, turn on a light, or operate a relay. The cycle is repeated after resetting with the quick lever reset. A smooth-running double worm drive reduction gearing provides speeds up to 2000 feet per minute. Oil-less bearings; number wheels molded plastic, drive mechanism of accurately machined, hardened steel parts. Figures 11/32" high. Standard units will not subtract when reversed.

ORDERING INSTRUCTIONS

When ordering a Model "L-16" base unit wire measuring machine consider - **The model numbers in the Selection Table are incomplete. A suffix letter (A, B, C, or D) from the "Position-Direction Table must be added.** Example:

Model Number	Position-Direction Suffix	Complete Ordering Number
L-H-16-1-M-*	+ A	= L-H-16-1-M-A

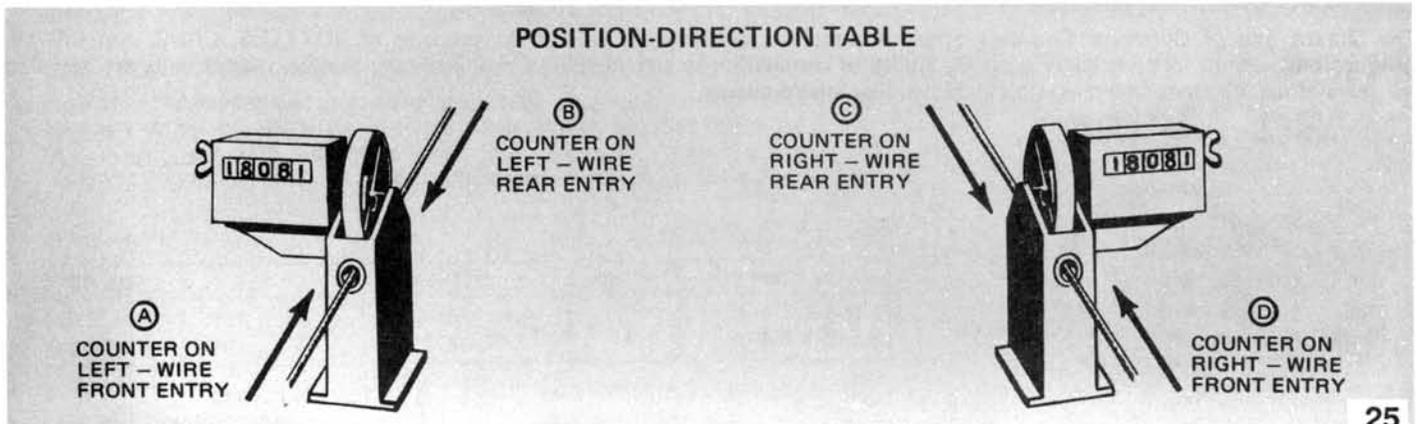
SELECTION TABLE

Model Number	Figures	Unit of Measure	Reset	Wheel	Weight
L-HDW-16-1-*	5	Feet	Wing Nut	Knurled Cast Iron	16 lb.
L-HDW-16-Q-*	5	Feet	Lever	Knurled Cast Iron	17 lb.
L-R-16-Q-*	5	Feet	Lever	Hardened Steel	18 lb.

*Add suffix letter from Position-Direction Table

IMPORTANT

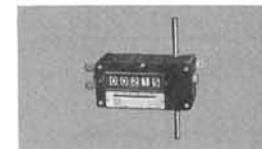
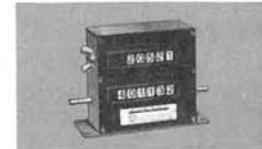
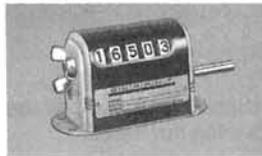
The position of the counter on the L-16 base units, and the direction of wire travel must be specified when ordering wire measuring counters. Select the suffix letter (A, B, C, or D) from the Position-Direction Table and add it to the model number in place of the asterisk.



REVOLUTION COUNTERS

Revolution Counters

Durant Revolution Counters are available in many sizes and various speeds, ranging up to 2000 RPM. They are easily mounted on machines, or provided as original equipment, ranging from light to heavy-duty applications. Models are available with either right or left hand, top or bottom, as well as right angle worm drive.



Series H-7

The H-7 series are heavy-duty, end drive revolution counters designed for industrial use; suitable for speeds up to 800 counts per minute. They are available with either right or left hand drive, and with wing nut reset.

Series HDW

The HDW series are high speed, end drive revolution counters that have rugged features of all Durant H counters, with the addition of double worm drive that produces speeds up to 2000 counts per minute.

Series D-6

These right angle worm drive units are ruggedly designed for high speeds on light duty applications. Small D counters are easily adapted as accessory equipment on machinery where right angle drive is desired to permit full view reading of the counter.

Series D-7

These spur gear end drive units are compact counters that meet a variety of needs. Accurate, dependable, and moderately priced, they are recommended for all medium-duty revolution applications.

Series CS

Top reading revolution counters are designed for use in most industrial applications. The entire case is a single casting. This provides greater rigidity, tighter seal and more streamlined contour.

Series X

The X series are dust and rustproof counters designed for small, medium-duty units, accurate, durable and requiring a minimum of driving effort. Designed for incorporation as integral parts of a variety of equipment that gets severe usage under adverse climatic conditions.

Series N

These double deck revolution counters feature top and bottom rows counting simultaneously. Bottom row is a totalizer and cannot be reset. Upper row shows a record of current run and can be reset with wing nut.

Series T-6

These worm drive revolution counters are sturdy, high speed instruments used on many heavy machines, engines or motors. Variety of drive permits direct connection. Suitable for panel mounting.

Series SM

These SM series counters are designed to be used as a position indicator for rolling mills and heavy machinery. Built for control board or panel mounting. Clockwise rotation (standard) is furnished unless anti-clockwise rotation is specified.

DESIGNATION SYSTEM

The Durant model designation system will guide you in the selection of most counters. Since there are some exceptions to the system, and several product lines cannot be adapted to it, the Durant Model Designation system should be used for reference only.

The following counter families employ the Durant Model Designation system:

Stroke Counters

Revolution Counters

Electric Counters (except "YE" Series and Miniature Electric Series)

Predetermined Counters (except "Y" Series and "PD-Q" Series)

Lineal and Wire Measuring Counters

Conveyor Counters

ONE First Digit indicates NUMBER OF WHEELS in counter. (On double deck models – first two digits indicate number of wheels in top and bottom rows respectively.)

TWO Letter indicates MODEL TYPE.

CS – Top Reading, Revolution or Stroke

D – Medium Duty, Stroke or Revolution

H – Heavy Duty, Stroke or Revolution

HDW – High Speed Double Worm Drive Revolution

HF – Bottle and Can Counters

L – Wire Measuring

N – High Speed Double Deck

R – Predetermined Counters

SM – Steel Mill Counters

SP – Small Predetermined

T – Top Reading, Medium Sized

Y – Small High Speed Counter

X – Small, Medium Duty, Stroke or Revolution

THREE First Digit Following Letter indicates TYPE OF DRIVE ACTION or UNITS IN WHICH COUNTER RECORDS. Four or five digit numbers when shown indicate DRAWING NUMBERS.

1 – Stroke Action

2 – Desk Tally Lever

3 – Can Counters

4 – Bottle Counters or Bottom Rotary Drive

5 – Conveyor or Case Counting Action

6 – Front or Rear Revolution Drive Action

7 – End Drive Revolution Action

8 – Recording in Feet

9 – Recording in Yards and 1/8 Yards

90 – Recording in Full Yards

16 – Wire Measuring Recording Feet, or Stroke Drive on Double Deck Predetermined Models

20 – Heavy Duty Wire Measuring Recording in Feet

66 – Right Angle on Double Deck Predetermined Models

76 – End Drive on Double Deck Predetermined Models

FOUR Second Digit Following Letter indicates TYPE OF RESET.

1 – Wing Nut Reset

2 – Lock and Key Reset

3 – Non-Reset

4 – Packer Tally Lever Attachment

MF – Electrically Operated

Q – Quick Reset

ER – Electric Reset

FIVE First Letter After Digits indicates CHARACTERISTICS.

R – Right Hand Drive Shaft

L – Left Hand Drive Shaft

MF – Electrically Operated

RMF – Electrically Operated with Rectifier

Q – Quick Reset

ER – Electric Reset

RP – Rustproof

PM – Panel Mount

B – Base Mount

S – Special Characteristics

SIX DIRECTION of SHAFT ROTATION on ALL REVOLUTION MODELS. VOLTAGE ON ELECTRIC COUNTERS.

AC – Anti-Clockwise (Counter Clockwise)

CL – Clockwise

D – DC Current Preceded by Voltage

A – AC Current Preceded by Voltage

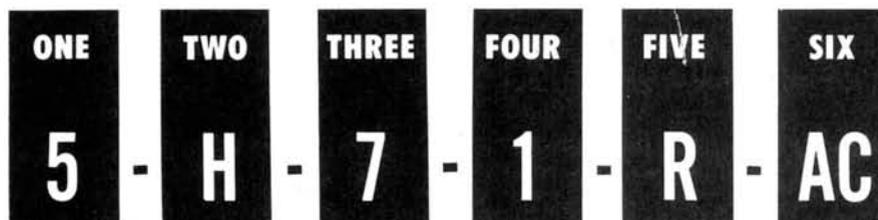
Direction of Shaft Rotation taken as follows

End Drive Models – From RIGHT HAND END of Counter

Front or Rear Drive – From FRONT of Counter

Top or Bottom Drive – From TOP of Counter

example for model 5-H-7-1-R-AC



"H-7" REVOLUTION COUNTERS



5-H-7-1-R-CL

The Model "H-7" series are heavy-duty, end drive revolution counters designed for industrial use; suitable for speeds up to 800 counts per minute. They are available with either right or left hand drive, and with wing nut reset.

ORDERING INSTRUCTIONS

When ordering Model "H" series revolution counters consider — number of figures, drive shaft location, shaft rotation direction, and type of reset before determining model number from selection table.

SPECIFICATIONS

- Figures:** 5 or 6
- Speed:** Up to 800 counts per minute in 1:1 ratio
- Rotation Direction:** Clockwise or anti-clockwise when viewed from right hand end of counter
- Ratio:** 1:1 standard
- Shaft:** 5/16" diameter stainless steel; Standard length 2"
- Drive:** Right or left hand drive
- Bearings:** Oil-less, maintenance free
- Figure Size:** 11/32" high, black on white background
- Reset:** Wing nut
- Finish:** Baked enamel; Alaska grey frame, Polychromatic brown cover

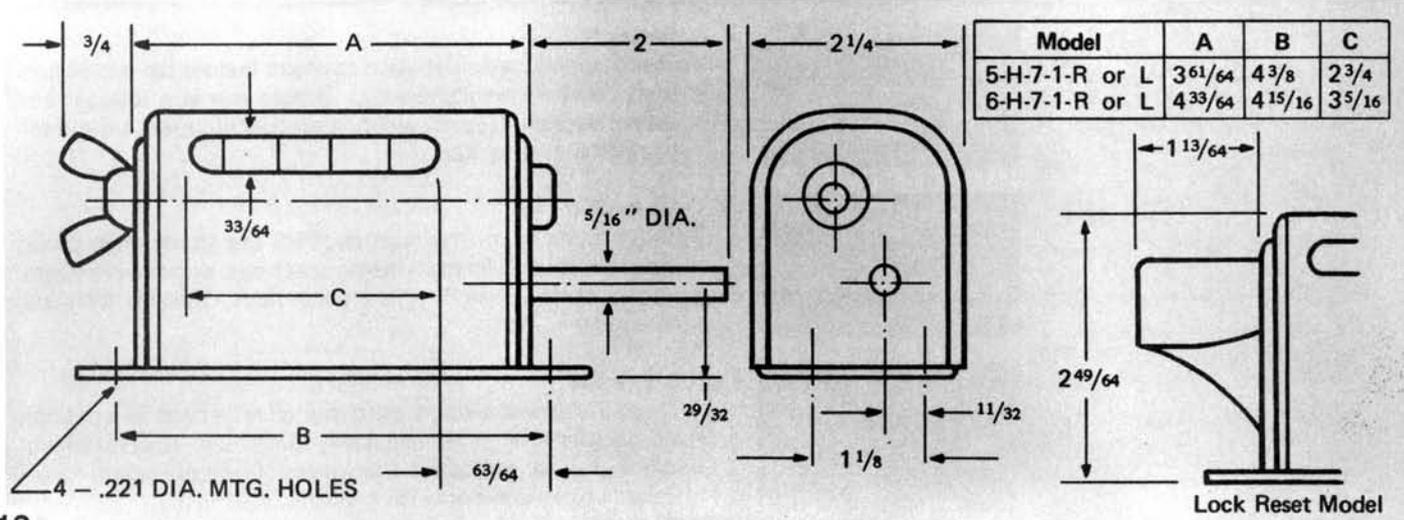
SELECTION TABLE

Model Number	Figures	Drive	Rotation ⑦	Reset	Mounting	Weight
5-H-7-1-R-CL	5	R.H.	Clockwise ①	Wing nut	Base ⑧	3 lb.
5-H-7-1-R-AC	5	R.H.	Anti-Clockwise ②	Wing nut	Base ⑧	3 lb.
5-H-7-1-L-CL	5	L.H.	Clockwise ③	Wing nut	Base ⑧	3 lb.
5-H-7-1-L-AC	5	L.H.	Anti-Clockwise ④	Wing nut	Base ⑧	3 lb.
6-H-7-1-R-CL	6	R.H.	Clockwise ①	Wing nut	Base ⑧	3 1/4 lb.
6-H-7-1-R-AC	6	R.H.	Anti-Clockwise ②	Wing nut	Base ⑧	3 1/4 lb.
6-H-7-1-L-CL	6	L.H.	Clockwise ③	Wing nut	Base ⑧	3 1/4 lb.
6-H-7-1-L-AC	6	L.H.	Anti-Clockwise ④	Wing nut	Base ⑧	3 1/4 lb.

Top View Of Counter

- ① Right Hand Drive — Clockwise Rotation
- ② Right Hand Drive — Anti-Clockwise Rotation
- ③ Left Hand Drive — Clockwise Rotation
- ④ Left Hand Drive — Anti-Clockwise Rotation
- ⑤ Left & Right Hand Drive — Clockwise Rotation
- ⑥ Left & Right Hand Drive — Anti-Clockwise Rotation

- ⑦ When the shaft is turned in the reverse direction of its rotation the counter will subtract.
- ⑧ Mounting plate is adjustable for Base or Back Mounting





**" HDW " REVOLUTION
COUNTERS**

The model "HDW" series are high speed, end drive revolution counters that have the rugged features of all Durant "H" counters, with the addition of double worm drive that produces speeds up to 2000 counts per minute. Lightweight precision molded wheels reduce centrifugal force and eliminate slipping. They are particularly recommended for quick starting and stopping machines, such as coil winders and wire measuring or reeling equipment and on applications where continuous high speed measuring is required.

ORDERING INSTRUCTIONS

When ordering Model "HDW" series revolution counters consider — number of figures, shaft drive, shaft rotation direction, and type of reset before determining model number from selection table.

SPECIFICATIONS

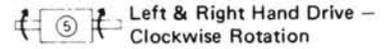
- Figures:** 5 or 6
- Speed:** Up to 2000 counts per minute
- Rotation Direction:** Clockwise or anti-clockwise when viewed from right-hand end of counter
- Ratio:** 1:1 only
- Shaft:** 5/16" diameter stainless steel, standard length 2"
- Drive:** Right or left hand drive
- Bearings:** Oil-less, maintenance free
- Figure Size:** 1 1/32" high, black on white background
- Reset:** Wing nut or tumbler lock reset
- Finish:** Baked enamel; Alaska grey frame, Polychromatic brown cover

SELECTION TABLE

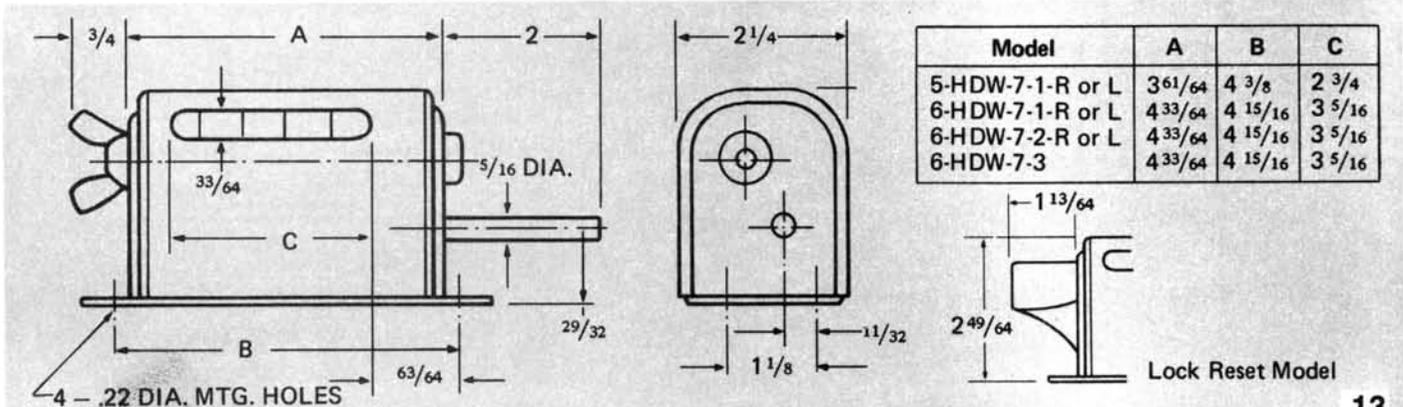
Model Number	Figures	Drive	Rotation ⑦	Reset	Mounting ⑧	Weight
5-HDW-7-1-R-CL	5	R.H.	Clockwise ①	Wing nut	Base ⑧	3 lb.
5-HDW-7-1-R-AC	5	R.H.	Anti-Clockwise ②	Wing nut	Base ⑧	3 lb.
5-HDW-7-1-L-CL	5	L.H.	Clockwise ③	Wing nut	Base ⑧	3 lb.
5-HDW-7-1-L-AC	5	L.H.	Anti-Clockwise ④	Wing nut	Base ⑧	3 lb.
6-HDW-7-1-R-CL	6	R.H.	Clockwise ①	Wing nut	Base ⑧	3 1/4 lb.
6-HDW-7-1-R-AC	6	R.H.	Anti-Clockwise ②	Wing nut	Base ⑧	3 1/4 lb.
6-HDW-7-1-L-CL	6	L.H.	Clockwise ③	Wing nut	Base ⑧	3 1/4 lb.
6-HDW-7-1-L-AC	6	L.H.	Anti-Clockwise ④	Wing nut	Base ⑧	3 1/4 lb.
6-HDW-7-2-R-CL	6	R.H.	Clockwise ①	Key-Lock	Base ⑧	3 1/2 lb.
6-HDW-7-2-R-AC	6	R.H.	Anti-Clockwise ②	Key-Lock	Base ⑧	3 1/2 lb.
6-HDW-7-2-L-CL	6	L.H.	Clockwise ③	Key-Lock	Base ⑧	3 1/2 lb.
6-HDW-7-2-L-AC	6	L.H.	Anti-Clockwise ④	Key-Lock	Base ⑧	3 1/2 lb.

Top View Of Counter

- ① Right Hand Drive — Clockwise Rotation
- ② Right Hand Drive — Anti-Clockwise Rotation
- ③ Left Hand Drive — Clockwise Rotation
- ④ Left Hand Drive — Anti-Clockwise Rotation



- ⑦ When the shaft is turned in the reverse direction of its rotation the counter will subtract.
- ⑧ Mounting plate is adjustable for Base or Back Mounting



"D-6" REVOLUTION COUNTERS



5-D-6-1-CL

These right angle worm drive counters are ruggedly designed for high speeds on light duty applications. Small "D" counters are easily adapted as accessory equipment on machinery where right angle drive is desired to permit full view reading of the counter.

SPECIFICATIONS

Figures:	5 figure	Shaft:	5/16" diameter stainless steel, 1 1/4" length standard
Speed:	Up to 1500 counts per minute in 1:1 ratio	Drive:	Worm drive
Rotation		Bearings:	Oil-less, maintenance free
Direction:	Clockwise or anti-clockwise when viewed from front	Figure Size:	1/4" high, black on white background
Ratio:	1:1 standard	Finish:	Baked enamel; Alaska grey frame, Polychromatic brown cover
		Reset:	Wing nut

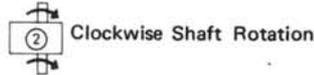
ORDERING INSTRUCTIONS

When ordering Model "D-6" Series revolution counters consider — shaft rotation direction before determining a part number from the selection table.

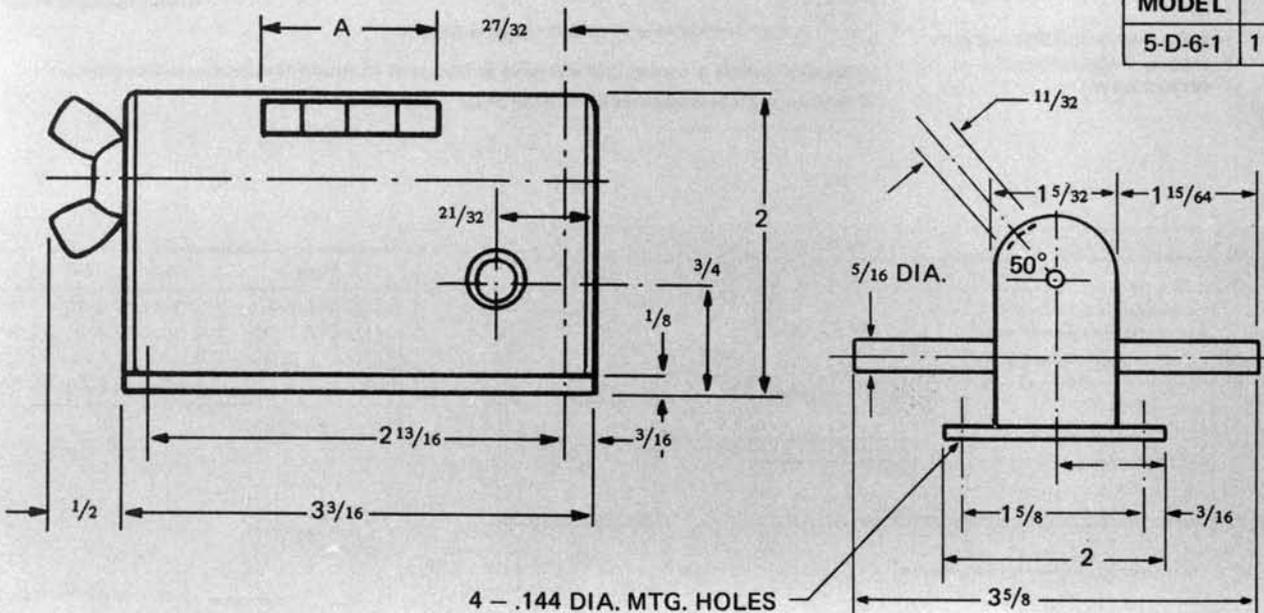
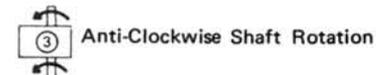
SELECTION TABLE

Model Number	Figures	Drive	Rotation ^①	Reset	Mounting	Weight
5-D-6-1-CL	5	Front & Rear	Clockwise ^②	Wing nut	Base	1 lb.
5-D-6-1-AC	5	Front & Rear	Anti-Clockwise ^③	Wing nut	Base	1 lb.

① When shaft is turned in the reverse direction of its rotation the counter will subtract.



Top View of Counter



MODEL	A
5-D-6-1	1 17/32



5-D-7-1-R-CL

"D-7" REVOLUTION COUNTERS

These spur gear end drive units are compact counters that meet a variety of needs. Accurate, dependable, and moderately priced, they are especially recommended for braiding machines, low speed coil winders, wire measuring equipment and all medium-duty revolution applications.

SPECIFICATIONS

Figures: 5 figure standard
Speed: Up to 800 counts per minute in 1:1 ratio
Rotation:
Direction: Clockwise or anti-clockwise when viewed from right hand end of counter
Ratio: 1:1 standard

Shaft: $\frac{5}{16}$ " diameter stainless steel, $\frac{21}{32}$ " right hand drive, $\frac{5}{8}$ " left hand drive
Drive: Right or left hand spur gear drive
Bearings: Oil-less, maintenance free
Figure Size: $\frac{1}{4}$ " high, black on white background
Finish: Baked enamel; Alaska grey frame, Polychromatic brown cover
Reset: Wing nut or non-reset

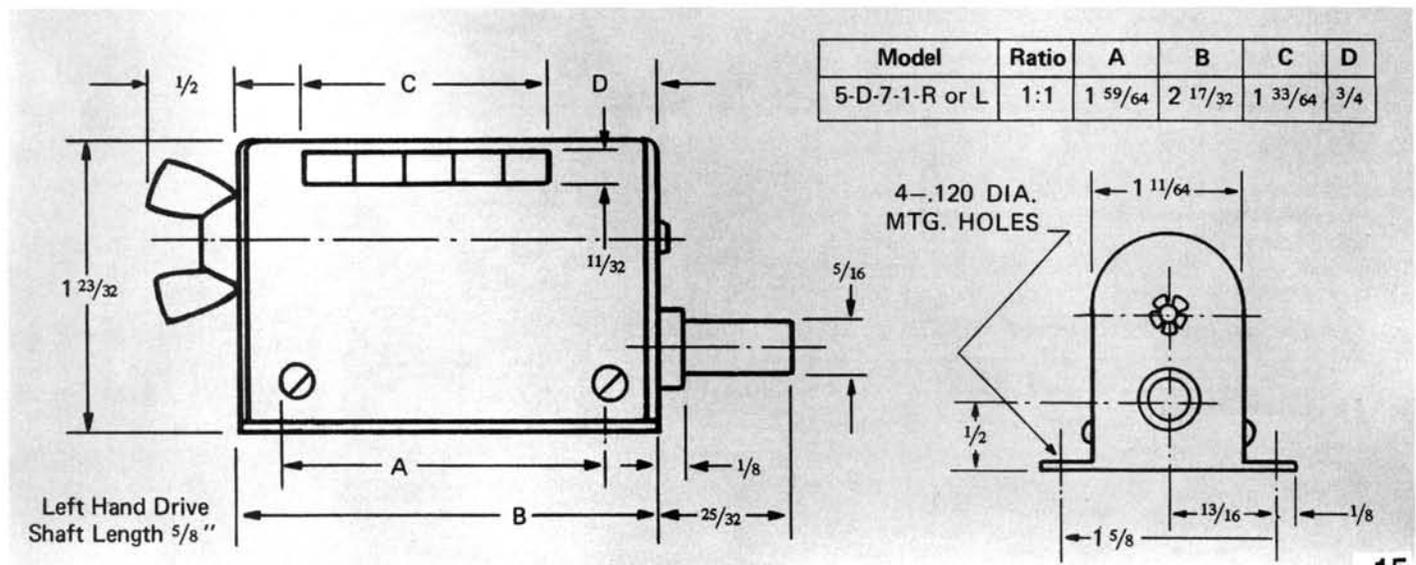
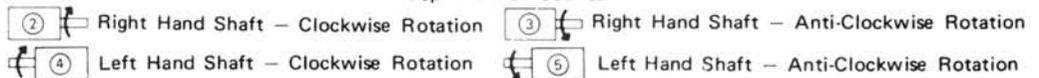
ORDERING INSTRUCTIONS

When ordering Model "D-7" Series revolution counters consider — number of figures, shaft drive, shaft rotation direction, and reset or non-reset before determining model number from selection tables.

SELECTION TABLE

Model Number	Figures	Drive	Rotation ①	Reset	Mounting	Weight
5-D-7-1-R-CL	5	R.H.	Clockwise ②	Wing nut	Base	11 oz.
5-D-7-1-R-AC	5	R.H.	Anti-Clockwise ③	Wing nut	Base	11 oz.
5-D-7-1-L-CL	5	L.H.	Clockwise ④	Wing nut	Base	11 oz.
5-D-7-1-L-AC	5	L.H.	Anti-Clockwise ⑤	Wing nut	Base	11 oz.
5-D-7-3-R-CL	5	R.H.	Clockwise ②	None	Base	11 oz.
5-D-7-3-L-AC	5	L.H.	Anti-Clockwise ⑤	None	Base	11 oz.

① When shaft is turned in the reverse direction of its rotation the counter will subtract.
 Top View of Counter



"CS" REVOLUTION COUNTERS



5-CS-7-1-R-CL

Top reading revolution counters are designed for use in most industrial applications. The entire case is a single casting. This provides greater rigidity, tighter seal of working parts, and more streamlined contour. The unit is compact, rugged, and features a flush mounted window to assure greater visibility.

SPECIFICATIONS

Figures: 5 figures
Speed: 600 counts per minute in 1:1 ratio
Rotation:
Direction: Clockwise or anti-clockwise when viewed from right hand end of counter
Ratio: 1:1 standard

Shaft: 1/4" diameter stainless steel; standard length 1"
Drive: Spur gear.
Bearings: Oil-less, maintenance free
Figure Size: 11/32" high, black on white background
Reset: Contoured wing nut
Finish: Baked enamel; Alaska grey frame

ORDERING INSTRUCTIONS

When ordering Model "CS" series revolution counters consider — shaft rotation direction before determining model number from selection table.

SELECTION TABLE

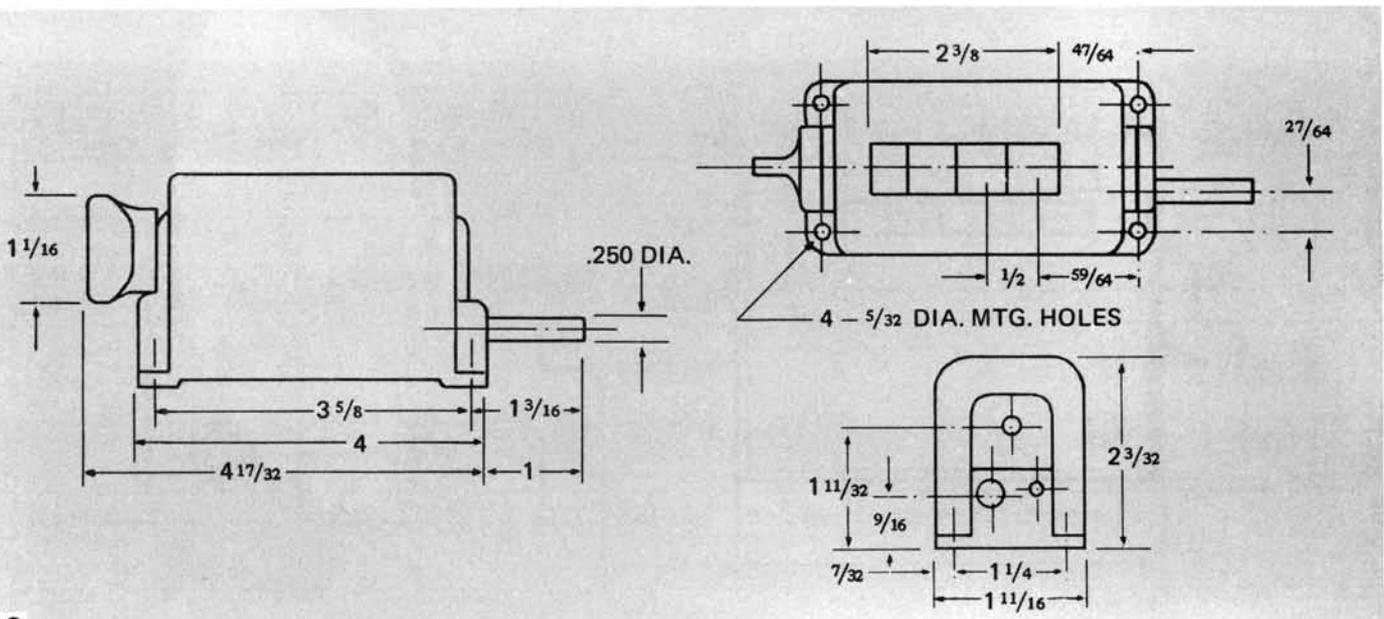
Model Number	Figures	Drive	Rotation ①	Reset	Mounting	Weight
5-CS-7-1-R-CL	5	R.H.	Clockwise ②	Wing Nut	Base	1 lb.
5-CS-7-1-R-AC	5	R.H.	Anti-Clockwise ③	Wing Nut	Base	1 lb.

① When shaft is turned in the reverse direction of rotation the counter will subtract.

②  Right Hand Drive — Clockwise Shaft Rotation

③  Right Hand Drive — Anti-Clockwise Shaft Rotation

Top View of Counter





5-X-7-1-R-CL-10:1

" X " REVOLUTION COUNTERS

The Model "X" series are dust and rustproof counters designed for small, medium-duty units, accurate, durable, and requiring a minimum of driving effort. They are especially designed for incorporation as integral parts of a variety of equipment that gets severe usage under adverse climatic conditions.

SPECIFICATIONS

- Figures:** 4 or 5
- Speed:** 1000 counts per minute in 1:1 ratio; 10,000 counts per minute in 10:1 ratio for intermittent duty
- Rotation Direction:** Clockwise or anti-clockwise when viewed from right hand end of counter
- Ratio:** 1:1 and 10:1 standard in 4-X-7 models; 10:1 standard in 5-X-7 models
- Shaft:** .125" diameter stainless steel. Standard length 7/16"
- Bearings:** Oil-less maintenance free
- Figure Size:** 3/16" high, white on black background
- Reset:** Knob.
- Finish:** Alaska grey frame, Cyclocac black cover
- Drive:** Right or left hand drive. Drive parts of Delrin
- Ratio Information:** 1:1 is one count to each revolution of drive shaft. 10:1 is ten counts to each revolution

ORDERING INSTRUCTIONS

When ordering Model "X" series revolution counters consider – number of figures, ratio, drive shaft location, and shaft rotation direction before determining a model number from the selection table.

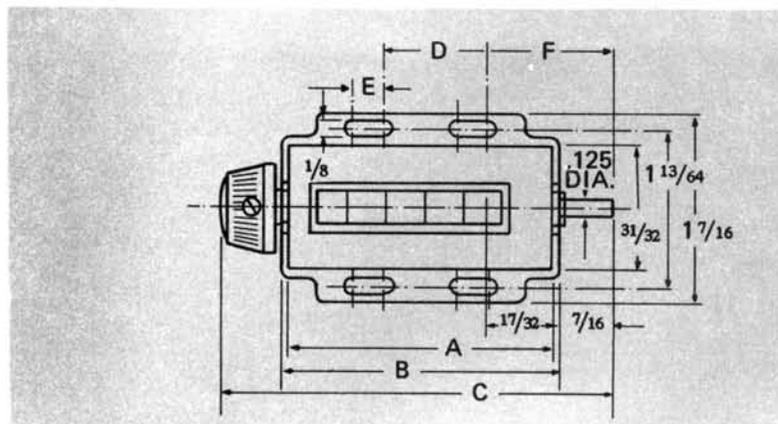
SELECTION TABLE

Model Number	Ratio	Figures	Drive	Rotation ①	Reset	Mounting	Weight
4-X-7-1-R-CL-1:1	1:1	4	R.H.	Clockwise ②	Knob	Base	4½ oz.
4-X-7-1-R-CL-10:1	10:1	4	R.H.	Clockwise ②	Knob	Base	4½ oz.
4-X-7-1-R-AC-1:1	1:1	4	R.H.	Anti-Clockwise ③	Knob	Base	4½ oz.
4-X-7-1-R-AC-10:1	10:1	4	R.H.	Anti-Clockwise ③	Knob	Base	4½ oz.
4-X-7-1-L-CL-1:1	1:1	4	L.H.	Clockwise ④	Knob	Base	4½ oz.
4-X-7-1-L-CL-10:1	10:1	4	L.H.	Clockwise ④	Knob	Base	4½ oz.
5-X-7-1-R-CL-10:1	10:1	5	R.H.	Clockwise ②	Knob	Base	5 oz.
5-X-7-1-R-AC-10:1	10:1	5	R.H.	Anti-Clockwise ③	Knob	Base	5 oz.
5-X-7-1-L-AC-10:1	10:1	5	L.H.	Anti-Clockwise ⑤	Knob	Base	5 oz.

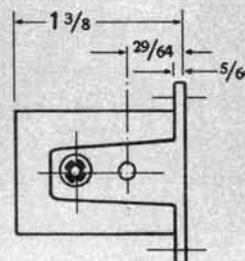
① When shaft is turned in the reverse direction of rotation, the counter will subtract.

Top View of Counter

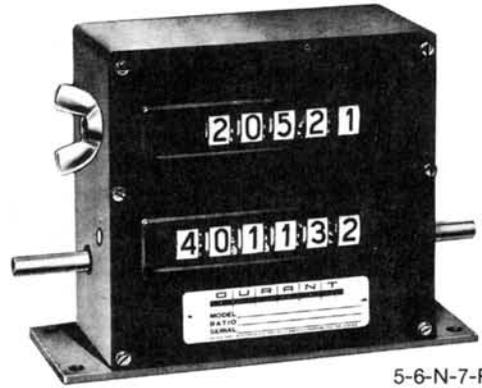
- ② Right Hand Drive – Clockwise Shaft Rotation
- ③ Right Hand Drive – Anti-Clockwise Shaft Rotation
- ④ Left Hand Drive – Clockwise Shaft Rotation
- ⑤ Left Hand Drive – Anti-Clockwise Shaft Rotation



Model	A	B	C	D	E	F
4-X-7-1-R or L	1 3/4	1 55/64	2 49/64	5/8	3/16	57/64
5-X-7-1-R or L	2 1/16	2 5/32	3 1/16	13/16	1/4	63/64



" N " REVOLUTION COUNTERS



5-6-N-7-R-CL

These double deck revolution counters feature top and bottom rows counting simultaneously. Bottom row is a totalizer and cannot be reset. Upper row shows a record of current run and can be reset with wing nut.

SPECIFICATIONS

Figures:	Top Deck – 5; Bottom Deck – 6	Shaft:	5/16" diameter stainless steel; 2" length standard
Speed:	2000 counts per minute in 1:1 ratio	Drive:	Right and left end
Rotation:		Bearings:	Oil-less, maintenance free
Direction:	Model "N-7" clockwise or anti-clockwise when viewed from right end	Figure Size:	11/32" high, black on white background
Ratio:	1:1 standard	Reset:	Wing nut, top deck; bottom deck non-reset
		Finish:	Alaska grey frame, Polychromatic brown cover

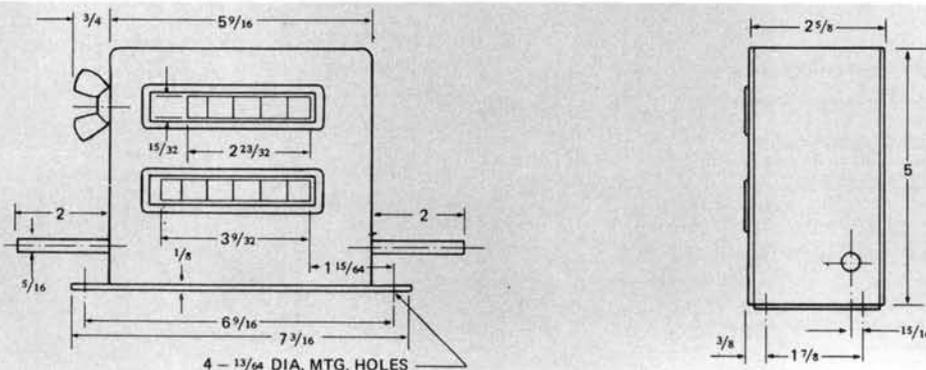
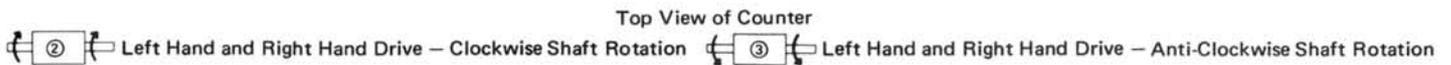
ORDERING INSTRUCTIONS

When ordering Model "N" Series double deck revolution counters consider – drive shaft location, and shaft rotation.

SELECTION TABLE

Model Number	Figures	Drive	Revolution ①	Reset	Mounting	Weight
5-6-N-7-1-R-CL	5 – Top Deck 6 – Bottom Deck	L.H. & R.H.	Clockwise ②	Wing Nut (Top Deck Only)	Base	5 lb.

① When shaft is turned in the reverse direction of rotation the counter will subtract.



" T-6 " REVOLUTION COUNTERS



5-T-6-1-CL

These worm drive revolution counters are sturdy, high speed instruments used on many heavy machines, engines or motors. Variety of drive permits direct connection. Suitable for panel mounting.

SPECIFICATIONS

Figures:	5 standard	Drive:	Hobbed steel and bronze worm gearing; subtracts when reversed
Speed:	1500 counts per minute in 1:1 ratio	Bearings:	Oil-less, maintenance free
Rotation Direction:	Clockwise or anti-clockwise determined top looking down.	Figure Size:	1 13/32" high, black on white background
Ratio:	1:1 standard	Reset:	Left hand wing nut standard
Shaft:	5/16" diameter stainless steel; standard extends 2" top and bottom.	Finish:	Polychromatic brown baked enamel

ORDERING INSTRUCTIONS

When ordering model "T-6" revolution counters consider — shaft rotation direction, before determining model number from selection chart.

SELECTION TABLE

Model Number	Figure	Drive	Revolution ①	Reset	Mounting	Weight
5-T-6-1-CL	5	Top and Bottom	Clockwise ②	Wing nut	Back	3 lb.
5-T-6-1-AC	5	Top and Bottom	Anti-Clockwise ③	Wing nut	Back	3 lb.

① When shaft is turned in the reverse direction of rotation the counter will subtract.

Front View of Counter

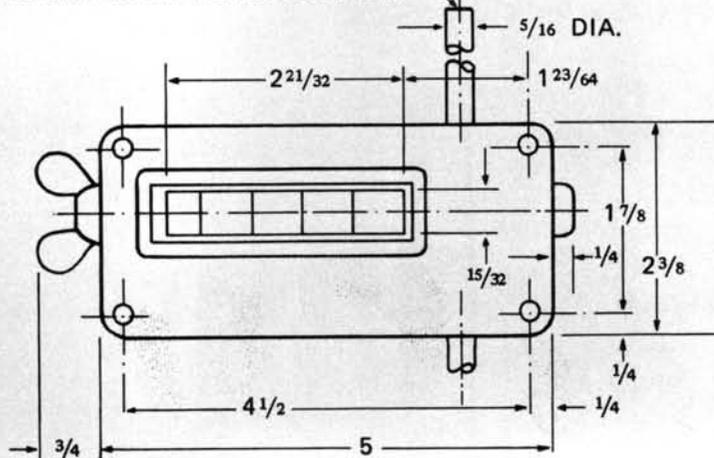


② Top and bottom drive — Clockwise shaft rotation

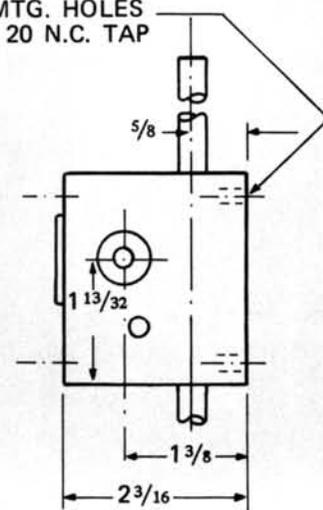


③ Top and bottom drive — Anti-Clockwise Shaft Rotation

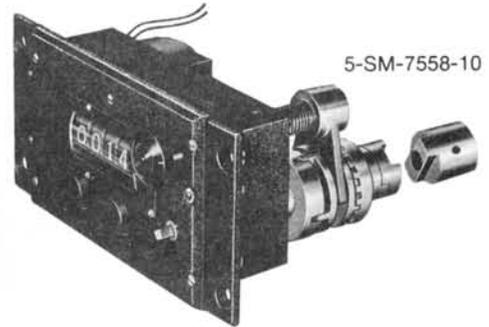
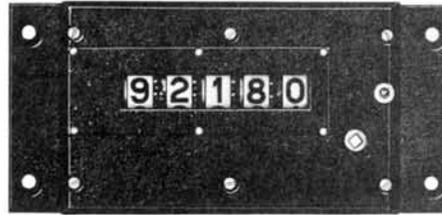
2 IN. STD. EXTENSION TOP AND BOTTOM



4 — MTG. HOLES
1/4 — 20 N.C. TAP



"SM" REVOLUTION COUNTERS



5-SM-1B-5

5-SM-7558-10

These Model "SM" series counters are designed to be used as a position indicator for rolling mills and heavy machinery. Built for control board or panel mounting. Clockwise rotation (standard) is furnished unless anti-clockwise rotation is specified. Location of decimal point must be indicated when ordering.

Model 5-SM-7557-10 is designed with a hi-speed geneva index pinion which allows for high speed, long life, and quieter operation than any similar type of revolution counter. It is also equipped with a special clutch coupling for disengaging counter while making roll adjustments and magnifying glass window to enlarge figures for distant viewing. The same counter, with a built-in illuminator for continuous lighting of the numerals, is also available.

SPECIFICATIONS

Figures: 5	Drive: Worm drive; subtracts when reversed
Speed: Model 5-SM-1B-5—8000 counts per minute in 10:1 ratio. Model 5-SM-7557-10 — up to 25,000 counts per minute in 10:1 ratio for intermittent duty	Bearings: Precision sealed ball bearings
Rotation Direction: Clockwise when viewing face of counter. Anti-clockwise on special order.	Figure Size: Model 5-SM-1B-5 — 11/32" high, black on white background; Model 5-SM-7557-10 — 1/4" high, white on black background. Has magnifying glass in front of figures. Decimal point any position specified
Ratio: 10:1 standard	Reset: Non-reset standard
Shaft: 5/16" diameter stainless steel	Finish: Instrument black wrinkle enamel

ORDERING INSTRUCTIONS

When ordering Model "SM" series revolution counters consider — shaft rotation direction, reset or non-reset, and lighted or unlighted panel before determining a model number from the selection table.

SELECTION TABLE

Model Number	Figures	Rotation	Reset	Ratio	Lighted Panel	Mounting	Weight
5-SM-7554-10	5	Clockwise ①	None	10:1 ③	No	Panel	2 3/4
5-SM-7556-10	5	Clockwise ①	Lever	10:1 ③	No	Panel	2 3/4
5-SM-7557-10	5 (Magnified Lens)	Clockwise ①	None	10:1 ③	No	Panel	2 3/4
5-SM-7558-10	5 (Magnified Lens)	Clockwise ①	None	10:1 ③	Yes	Panel	2 3/4
5-SM-1B-5	5	Clockwise ①	None	10:1	No	Panel	2
5-SM-1B-5-AC	5	Anti-Clockwise ②	None	10:1	No	Panel	2

Top View of Counter

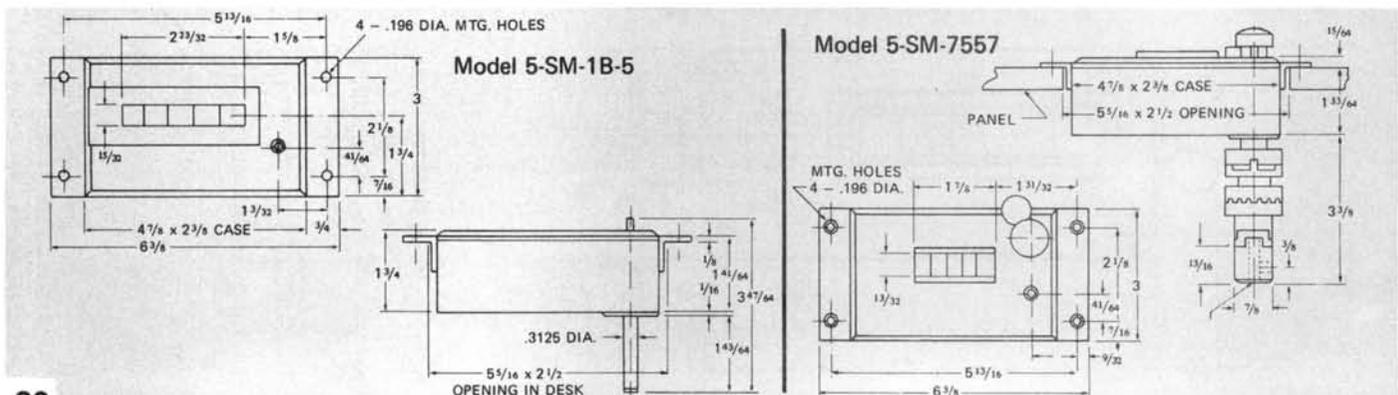


① Clockwise Shaft Rotation



② Anti-Clockwise Shaft Rotation

③ Equipped with special clutch coupling for disengaging counter while making roll adjustments.



CONVEYOR COUNTERS

The Durant line of Conveyor Counters offers a complete selection for production counting of BOTTLES, CANS, and CASES. Unique construction features allow great flexibility of installation to suit individual requirements. Simple, rugged units are designed for years of maintenance free operation in demanding environments.

Case Counters

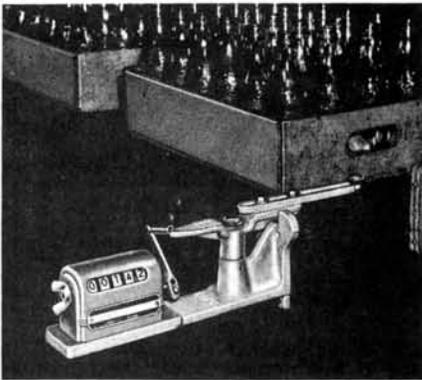
Designed for counting the number of pieces, cases, cartons or boxes passing over a conveyor. The Series H counters are ruggedly constructed for severe usage and can be quickly installed on most conveyor lines.

Bottle Counters

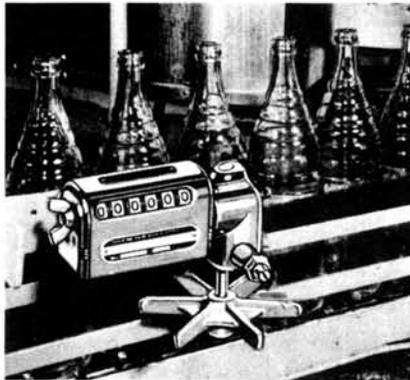
Durant Bottle Counters are designed for use on fillers, crowners, washers, conveyors and other bottling machinery. Gear box on counter is changeable to any of four positions, giving great flexibility of installation.

Can Counters

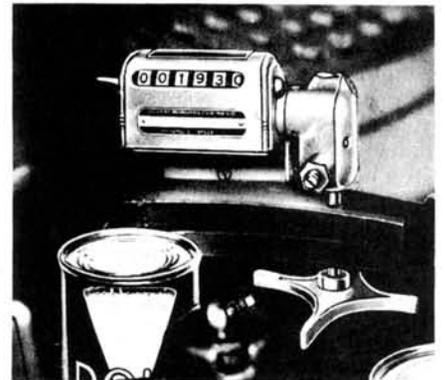
Durant Can Counters are designed for use on can filling, labeling, and sealing machines and conveyors to count various sizes of cans. Gear box on counter is changeable to any one of four positions, giving great flexibility of installation.



CASE COUNTERS



BOTTLE COUNTERS



CAN COUNTERS

The Durant line of Conveyor Counters offers a complete selection for production counting of BOTTLES, CANS, and CASES. Unique construction features allow great flexibility of installation to suit individual requirements. Simple, rugged units are designed for years of maintenance free operation in demanding environments.

DESIGNATION SYSTEM

The Durant model designation system will guide you in the selection of most counters. Since there are some exceptions to the system, and several product lines cannot be adapted to it, the Durant Model Designation system should be used for reference only.

The following counter families employ the Durant Model Designation system:

Stroke Counters

Revolution Counters

Electric Counters (except "YE" Series and Miniature Electric Series)

Predetermined Counters (except "Y" Series and "PD-Q" Series)

Lineal and Wire Measuring Counters

Conveyor Counters

ONE First Digit indicates NUMBER OF WHEELS in counter. (On double deck models – first two digits indicate number of wheels in top and bottom rows respectively.)

TWO Letter indicates MODEL TYPE.

CS – Top Reading, Revolution or Stroke

D – Medium Duty, Stroke or Revolution

H – Heavy Duty, Stroke or Revolution

HDW – High Speed Double Worm Drive Revolution

HF – Bottle and Can Counters

L – Wire Measuring

N – High Speed Double Deck

R – Predetermined Counters

SM – Steel Mill Counters

SP – Small Predetermined

T – Top Reading, Medium Sized

Y – Small High Speed Counter

X – Small, Medium Duty, Stroke or Revolution

THREE First Digit Following Letter indicates TYPE OF DRIVE ACTION or UNITS IN WHICH COUNTER RECORDS. Four or five digit numbers when shown indicate DRAWING NUMBERS.

1 – Stroke Action

2 – Desk Tally Lever

3 – Can Counters

4 – Bottle Counters or Bottom Rotary Drive

5 – Conveyor or Case Counting Action

6 – Front or Rear Revolution Drive Action

7 – End Drive Revolution Action

8 – Recording in Feet

9 – Recording in Yards and 1/8 Yards

90 – Recording in Full Yards

16 – Wire Measuring Recording Feet, or Stroke Drive on Double Deck Predetermined Models

20 – Heavy Duty Wire Measuring Recording in Feet

66 – Right Angle on Double Deck Predetermined Models

76 – End Drive on Double Deck Predetermined Models

FOUR Second Digit Following Letter indicates TYPE OF RESET.

1 – Wing Nut Reset

2 – Lock and Key Reset

3 – Non-Reset

4 – Packer Tally Lever Attachment

MF – Electrically Operated

Q – Quick Reset

ER – Electric Reset

FIVE First Letter After Digits indicates CHARACTERISTICS.

R – Right Hand Drive Shaft

L – Left Hand Drive Shaft

MF – Electrically Operated

RMF – Electrically Operated with Rectifier

Q – Quick Reset

ER – Electric Reset

RP – Rustproof

PM – Panel Mount

B – Base Mount

S – Special Characteristics

SIX DIRECTION of SHAFT ROTATION on ALL REVOLUTION MODELS. VOLTAGE ON ELECTRIC COUNTERS.

AC – Anti-Clockwise (Counter Clockwise)

CL – Clockwise

D – DC Current Preceded by Voltage

A – AC Current Preceded by Voltage

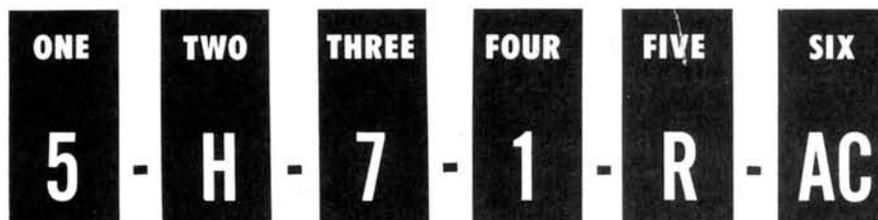
Direction of Shaft Rotation taken as follows

End Drive Models – From RIGHT HAND END of Counter

Front or Rear Drive – From FRONT of Counter

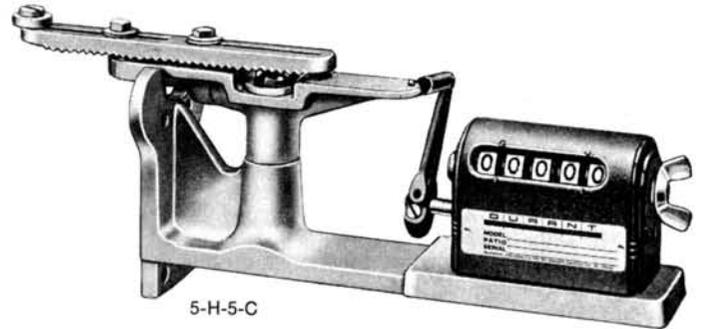
Top or Bottom Drive – From TOP of Counter

example for model 5-H-7-1-R-AC



SERIES " H " CASE COUNTERS

A complete unit — consisting of Model H Stroke Counter and trip lever — for counting the number of pieces, cases, cartons or boxes passing over a conveyor. Ruggedly constructed for severe usage. Installation on curve usually provides definite break between cases to trip operating arm. On a straight line conveyor, space must be created between cases by cutting the conveyor to provide a slight drop.



SPECIFICATIONS:

- Figures: 5
- Figure Size: 1 1/32", Black on white background
- Reset: Wing nut, or lock-key
- Operating Arm: Malleable iron
- Operating Arm Adjustments: Maximum: 6"; Minimum: 2 1/4"
- Overall Dimensions: 2 1/2" x 5" x 14"

ORDERING INSTRUCTIONS

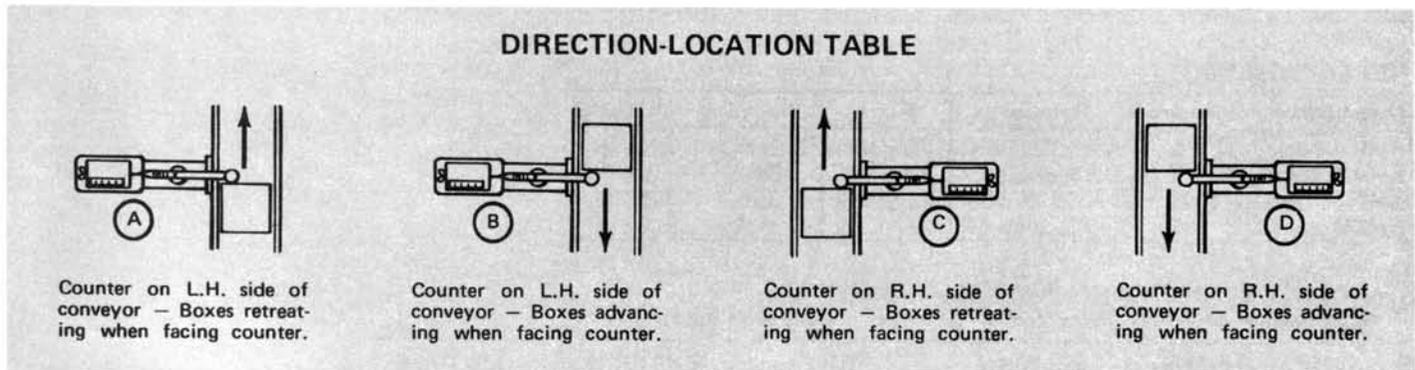
When ordering Model "H" series case counters consider — type of reset, direction of case travel, and location of counter before determining part number from Selection Table. **The model numbers in the Selection Table are incomplete. The asterisk in the part number must be replaced with a suffix letter (A, B, C or D) from the Direction-Location Table.**

Example: Part Number 5-H-5-* + Direction-Location suffix letter "A" = complete ordering number 5-H-5-A.

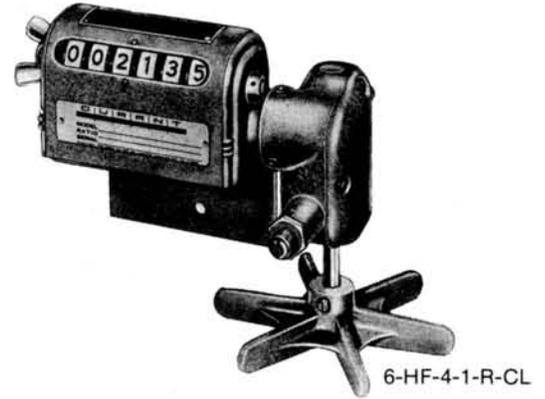
SELECTION TABLE

Model Number	Figures	Reset	Mounting	Weight
5-H-5-*	5	Wing Nut	Base	9 1/2 lb.
5-H-6-*	5	Key-Lock	Base	9 1/2 lb.

*Add suffix letter (A, B, C, or D) from Direction-Location Table



SERIES " HF- 4 " BOTTLE COUNTERS



6-HF-4-1-R-CL

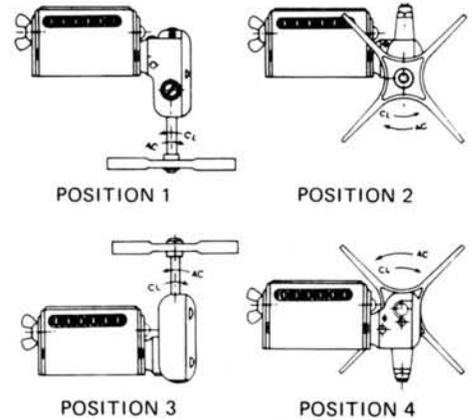
Durant Bottle Counters are designed for use on fillers, crowners, washers, conveyors and other bottling machinery. With a simple adjusting guide on the conveyor, it will count one-half pints, pints and quarts – either round or square type. Adjustable tension screw prevents spinning and assures peak accuracy. Gear box on counter is changeable to any of four positions, giving great flexibility of installation.

SPECIFICATIONS:

Figures: 6
 Figure Size: $1\frac{1}{32}$ " high, white on black background
 Reset: Wing nut or key-lock
 Star Wheel: # 1634 standard

ORDERING INSTRUCTIONS

When ordering Model "HF-4" series bottle counters consider – type of reset, rotation direction of star wheel, and type of star wheel before determining model number.



All Model HF-3 and HF-4 counters are shipped from the factory in position 1. However, the instruction sheet that accompanies each counter provides directions for moving the star wheel to position 2, 3, or 4.

SELECTION TABLE

Model Number	Figures	Rotation	Reset	Mounting	Weight
6-HF-4-1-R-AC	6	Anti-clockwise	Wing Nut	Back	5½ lb.
6-HF-4-1-R-CL	6	Clockwise	Wing Nut	Back	5½ lb.
6-HF-4-2-R-AC	6	Anti-clockwise	Key-Lock	Back	5½ lb.
6-HF-4-2-R-CL	6	Clockwise	Key-Lock	Back	5½ lb.

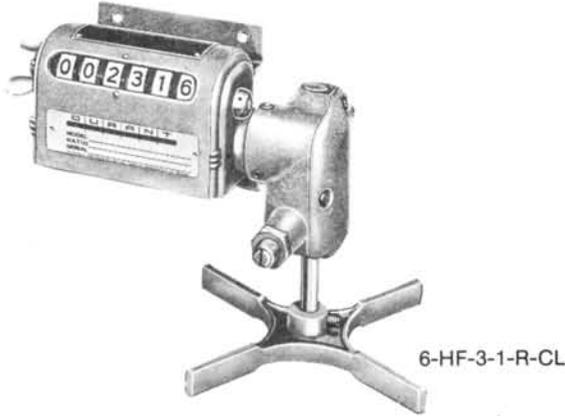
STANDARD SIX POINTED STAR WHEELS FOR BOTTLES

to fit bottles, jars, and cartons from $2\frac{1}{8}$ " to $3\frac{7}{8}$ " diameter at bottom.

Style	Diameter	Star Wheel	Style	Diameter	Star Wheel
Coca-Cola	$2\frac{3}{8}$ "	31228-300(1634-X)	1 pt. Milk	$3\frac{1}{8}$ "	31228-300(1634-X)
Graf Zep	$2\frac{1}{8}$ "	31228-300(1634-X)	24 oz. Export	$3\frac{5}{32}$ "	31228-300(1634-X)
Soda	$2\frac{3}{16}$ "	31228-300(1634-X)	32 oz. Steinie	$3\frac{3}{4}$ "	31228-300(1634-X)
12 oz. Beer	$2\frac{9}{16}$ "	31228-300(1634-X)	1 qt. Milk	$3\frac{7}{8}$ "	31228-300(1634-X)
13 oz. Silver	$2\frac{1}{16}$ "	31228-300(1634-X)	½ gal. Picnic	$4\frac{3}{16}$ " & $4\frac{5}{16}$ "	31420-300(1131-X)
12 oz. Steinie	$2\frac{3}{16}$ "	31228-300(1634-X)			

SERIES " HF-3 "

CAN COUNTERS



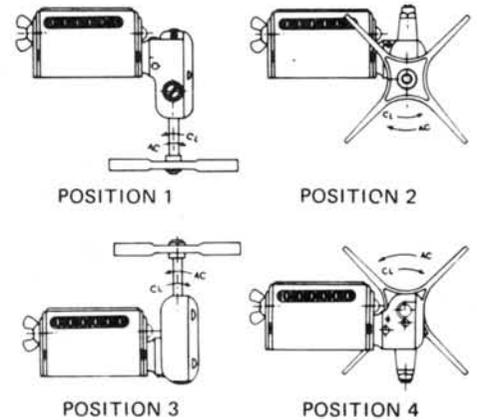
Durant Can Counters are designed for use on can filling, labeling, and sealing machines and conveyors to count various sizes of cans. Gear box on counter is changeable to any one of four positions, giving great flexibility of installation. Adjustable tension screw prevents spinning and assures peak accuracy.

SPECIFICATIONS:

Figures: 6
Figure Size: 1 1/32" high, white on black background
Reset: Wing nut or key-lock
Star Wheel: #1367 standard

ORDERING INSTRUCTIONS

When ordering Model "HF-3" series can counters consider — type of reset, rotation direction of star wheel, and type of star wheel before determining model number.



All Model HF-3 and HF-4 counters are shipped from the factory in position 1. However, the instruction sheet that accompanies each counter provides directions for moving the star wheel to position 2, 3, or 4.

SELECTION TABLE

Model Number	Figures	Rotation	Reset	Mounting	Weight
6-HF-3-1-R-AC	6	Anti-clockwise	Wing Nut	Back	5 1/2 lb.
6-HF-3-1-R-CL	6	Clockwise	Wing Nut	Back	5 1/2 lb.
6-HF-3-2-R-AC	6	Anti-clockwise	Key-Lock	Back	5 1/2 lb.
6-HF-3-2-R-CL	6	Clockwise	Key-Lock	Back	5 1/2 lb.

STANDARD FOUR POINTED STAR WHEELS FOR CARTONS AND CANS to fit any size can from 2" to 8 1/4" diameter (also for square milk cartons).

Style	Diameter	Star Wheel	Style	Diameter	Star Wheel
200-204	2"-2 1/4"	22286-300(1410-X)	603	6 3/16"	31242-300(1367-X)
208-213	2 1/2"-2 3/16"	22263-300(1362-X)	700-804	7-8 1/4"	31404-300(1030.1-X)
300-303	3"-3 3/16"	22287-300(1363-X)	Square Qt. Ctn	5 7/16"-5 9/16"	31430-300(1365-X)
304-401	3 1/4"-4 1/16"	31429-300(1364-X)	Bread	Small loaves	31404-300(1030.1-X)
404-502	4 1/4"-5 1/8"	31430-300(1365-X)	Bread	Large loaves	40520-300(DD-1099-X)
507-509	5 1/16"-5 9/16"	31430-300(1365-X)	Square 1/2 gal.	6 3/16"	31242-300(1367-X)

STROKE COUNTERS

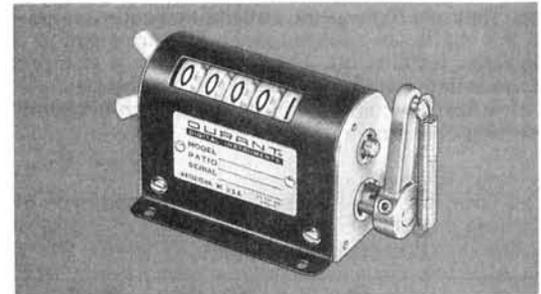
The Stroke lever, since it has a clamp-type shaft lock, can be attached to the counter shaft in any relative location. Protection against shock from overstroking or snap action on the return stroke is arranged by actuating the counter shaft through a tension spring. This permits less critical adjustment of the shaft lever and driving mechanism.

Speed capability is an important consideration in the use of stroke counts. Larger counters, with large figures, are rated at 600 counts per minute. Smaller models are rated 800 counts per minute.



Stroke Counters

Durant offers the most complete line of counting instruments incorporating stroke or reciprocating action. They are available for all types of work, ranging from light to heavy-duty application and will indicate dependable, accurate count under the toughest conditions when the proper model is selected for the job. Highest quality material and craftsmanship and thorough testing assure years of service.



Series H

These heavy-duty counters are designed for hard usage and long, trouble-free service. They are high speed, streamlined counters constructed of the highest quality material and drive shaft moves in oil-less bearings.



Series D

These are medium-duty stroke counters available with 4, 5 or 6 figures that have been designed for general service on small production machines. Although compact, they are sturdily constructed and thoroughly tested for accuracy and efficient operation.



Series CS

This line of small, compact, top reading stroke counters is designed for use in most industrial applications. CS counters are ruggedly built and feature a single casting case, which assures great rigidity and a tight seal for working parts.

Series X

A dust and rust resistant series of counters for light and medium-duty work. They are sound and durable, requiring a minimum of driving effort and have been especially designed for incorporation as integral parts of a variety of machines and equipment.



Series N-1

A double-deck stroke counter with top and bottom rows counting simultaneously. Bottom row is a totalizer and cannot be reset. Upper row shows a record of current run and can be reset with wing nut.

DESIGNATION SYSTEM

The Durant model designation system will guide you in the selection of most counters. Since there are some exceptions to the system, and several product lines cannot be adapted to it, the Durant Model Designation system should be used for reference only.

The following counter families employ the Durant Model Designation system:

Stroke Counters

Revolution Counters

Electric Counters (except "YE" Series and Miniature Electric Series)

Predetermined Counters (except "Y" Series and "PD-Q" Series)

Lineal and Wire Measuring Counters

Conveyor Counters

ONE First Digit indicates NUMBER OF WHEELS in counter. (On double deck models – first two digits indicate number of wheels in top and bottom rows respectively.)

TWO Letter indicates MODEL TYPE.

CS – Top Reading, Revolution or Stroke

D – Medium Duty, Stroke or Revolution

H – Heavy Duty, Stroke or Revolution

HDW – High Speed Double Worm Drive Revolution

HF – Bottle and Can Counters

L – Wire Measuring

N – High Speed Double Deck

R – Predetermined Counters

SM – Steel Mill Counters

SP – Small Predetermined

T – Top Reading, Medium Sized

Y – Small High Speed Counter

X – Small, Medium Duty, Stroke or Revolution

THREE First Digit Following Letter indicates TYPE OF DRIVE ACTION or UNITS IN WHICH COUNTER RECORDS. Four or five digit numbers when shown indicate DRAWING NUMBERS.

1 – Stroke Action

2 – Desk Tally Lever

3 – Can Counters

4 – Bottle Counters or Bottom Rotary Drive

5 – Conveyor or Case Counting Action

6 – Front or Rear Revolution Drive Action

7 – End Drive Revolution Action

8 – Recording in Feet

9 – Recording in Yards and 1/8 Yards

90 – Recording in Full Yards

16 – Wire Measuring Recording Feet, or Stroke Drive on Double Deck Predetermined Models

20 – Heavy Duty Wire Measuring Recording in Feet

66 – Right Angle on Double Deck Predetermined Models

76 – End Drive on Double Deck Predetermined Models

FOUR Second Digit Following Letter indicates TYPE OF RESET.

1 – Wing Nut Reset

2 – Lock and Key Reset

3 – Non-Reset

4 – Packer Tally Lever Attachment

MF – Electrically Operated

Q – Quick Reset

ER – Electric Reset

FIVE First Letter After Digits indicates CHARACTERISTICS.

R – Right Hand Drive Shaft

L – Left Hand Drive Shaft

MF – Electrically Operated

RMF – Electrically Operated with Rectifier

Q – Quick Reset

ER – Electric Reset

RP – Rustproof

PM – Panel Mount

B – Base Mount

S – Special Characteristics

SIX DIRECTION of SHAFT ROTATION on ALL REVOLUTION MODELS. VOLTAGE ON ELECTRIC COUNTERS.

AC – Anti-Clockwise (Counter Clockwise)

CL – Clockwise

D – DC Current Preceded by Voltage

A – AC Current Preceded by Voltage

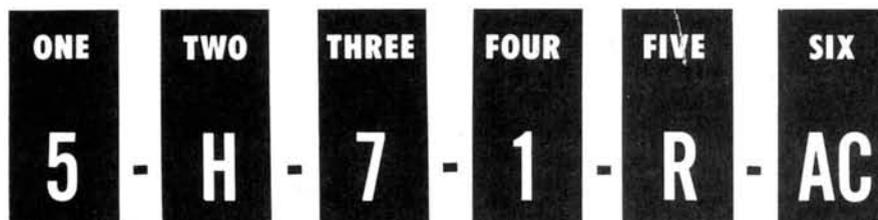
Direction of Shaft Rotation taken as follows

End Drive Models – From RIGHT HAND END of Counter

Front or Rear Drive – From FRONT of Counter

Top or Bottom Drive – From TOP of Counter

example for model 5-H-7-1-R-AC

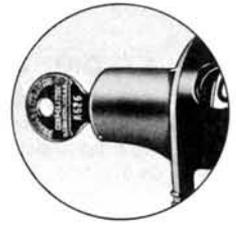


SERIES "H" STROKE COUNTERS



5-H-1-1-R

Key Lock Reset



These heavy-duty counters are designed for hard usage and long, trouble-free service. They are high-speed, streamlined counters constructed of the highest quality materials and drive shaft moves in oil-less bearings. All shafts are stainless steel. The drive action is designed with overstroke so counter does not bottom, increasing life and permitting easier installation. The sturdy cover is stamped steel, locked into position on a heavy, die-cast base of a special alloy. A heavy steel mounting plate is adjustable for either bottom or back mounting. Model "H" has earned the reputation of being the "work horse" of industrial counters. Wing nut or tamper-proof reset lock which requires a key to reset the counter, guarding against unauthorized resetting or tempering.

ORDERING INSTRUCTIONS

When ordering Model "H" series stroke counters consider — number of figures, drive lever location (left or right side), and type of reset (lock or wing nut).

SPECIFICATIONS

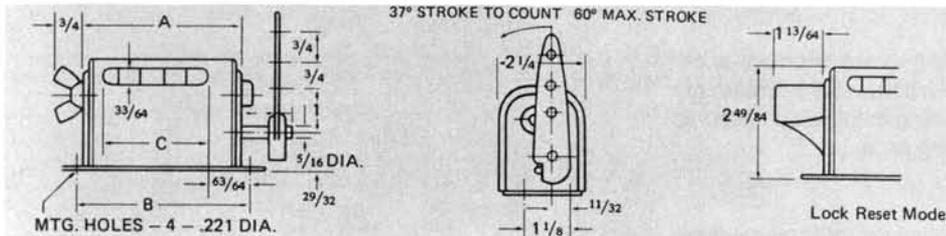
Figures: 5 or 6 Figure Models
Speed: 800 counts per minute
Stroke Operation: 37° stroke to count; 60° maximum stroke
Shaft: 5/16" diameter stainless steel, rust-proof
Drive: Accurately machined, hardened steel parts; Geneva drive for extra long life
Bearings: Oil-less, maintenance free
Figure Size: 1 1/32" high, black on white background
Reset: Wing nut, tumbler lock reset, or non-reset
Finish: Baked enamel; Alaska grey frame, Polychromatic brown cover
Operating Lever: Adjustable to any position. Furnished complete with pull spring for attaching.

SELECTION TABLE

Model Number	Figures	Drive	Reset	Mounting	Weight
5-H-1-1-R	5	R.H. Lever	Wing Nut	Base ①	2 3/4 lbs.
5-H-1-1-R-RP (Rustproof)	5	R.H. Lever	Wing Nut	Base ①	2 3/4 lbs.
5-H-1-1-R-Rev. (Reverse Stroke)	5	R.H. Lever	Wing Nut	Base ①	2 3/4 lbs.
5-H-1-1-L	5	L.H. Lever	Wing Nut	Base ①	2 3/4 lbs.
6-H-1-1-R	6	R.H. Lever	Wing Nut	Base ①	3 lbs.
6-H-1-1-L	6	L.H. Lever	Wing Nut	Base ①	3 lbs.
6-H-1-3 ②	6	R.H. or L.H. Lever	Non-Reset	Base ①	2 7/8 lbs.
5-H-1-2-R	5	R.H. Lever	Lock Reset	Base ①	2 7/8 lbs.
5-H-1-2-R-RP (Rustproof)	5	R.H. Lever	Lock Reset	Base ①	2 7/8 lbs.
5-H-1-2-L	5	L.H. Lever	Lock Reset	Base ①	2 7/8 lbs.
6-H-1-2-R	6	R.H. Lever	Lock Reset	Base ①	3 lbs.
6-H-1-2-L	6	L.H. Lever	Lock Reset	Base ①	3 lbs.

① Mounting plate is adjustable for Base or Back Mounting.

② Counter has Shaft on Left and Right Side



Model Number	A	B	C
5 Figure Units	3 61/64	4 3/8	2 3/4
6 Figure Units	4 33/64	4 15/16	3 5/16

Lock Reset Models Add 1 13/64" to A Dimension.



5-H-1-4-R



Series H Tally Packer

A standard Model "H" Counter with accessories for actuating without rods, springs, chain, or cord — used where a vertical movement of at least 3" is involved. In packing boxes or sacks, the tripping device registers each downward movement, then automatically releases. Also used on hydraulic presses.

Furnished with tripping pin.

Model Number	Figures	Drive	Reset	Weight	Mounting
5-H-1-4-R	5	R.H. or L.H. Lever	Wing Nut	3 1/2 lbs.	Back



5-D-1-1-R

SERIES " D " STROKE COUNTERS

These are medium-duty stroke counters available with 4-5 or 6 figures that have been designed for general service on small production machines. Although compact, Durant's "D" models are sturdily constructed and thoroughly tested for accuracy and efficient operation.

SPECIFICATIONS

- Figures:** 4, 5, and 6
- Speed:** 400 counts per minute
- Shaft:** 1/4" diameter stainless steel, rustproof
- Drive:** Nylon ratchet and Delrin drive plate. Right-hand drive standard; lefthand drive available.
- Bearings:** Oil-less, maintenance free

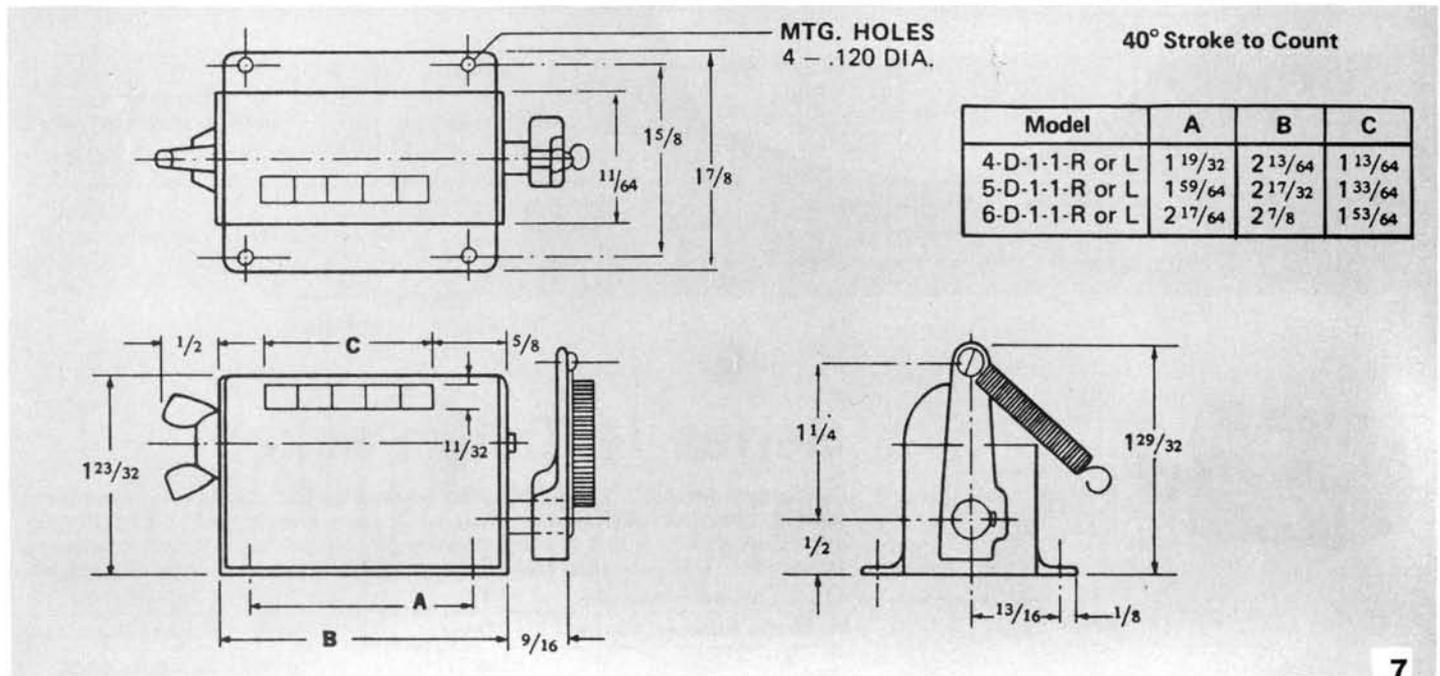
- Figure Size:** 1/4" high, Black on white background
- Reset:** Wing nut or non-reset
- Finish:** Baked enamel; Alaska grey frame, Polychromatic brown cover
- Operating Lever:** Adjustable to any position. Furnished complete with pull spring for attaching.

ORDERING INSTRUCTIONS

When ordering Model "D" series stroke counters consider — number of figures, and drive lever location before choosing a model number from the selection table.

SELECTION TABLE

Model Number	Figures	Drive	Reset	Weight	Mounting
4-D-1-1-R	4	R.H. Lever	Wing nut	12 oz.	Base
5-D-1-1-R	5	R.H. Lever	Wing nut	13 oz.	Base
5-D-1-1-L	5	L.H. Lever	Wing nut	13 oz.	Base
6-D-1-1-R	6	R.H. Lever	Wing nut	14 oz.	Base



MTG. HOLES
4 — .120 DIA.

40° Stroke to Count

Model	A	B	C
4-D-1-1-R or L	1 19/32	2 13/64	1 13/64
5-D-1-1-R or L	1 59/64	2 17/32	1 33/64
6-D-1-1-R or L	2 17/64	2 7/8	1 53/64

SERIES "CS" STROKE COUNTERS



This line of small, compact, top reading stroke counters is designed for use in most industrial applications. "CS" counters are ruggedly built and feature a single casting case, which assures great rigidity and a tight seal for working parts.

SPECIFICATIONS

Figures: 4 or 5
Speed: 600 counts per minute
Stroke Operation: 37½° minimum; 75° maximum
Shaft: ¼" diameter stainless steel, rustproof
Drive: Accurately machined, hardened steel parts

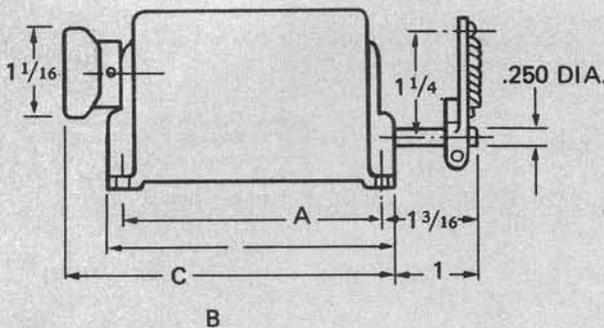
Bearings: Oil-less, maintenance free
Figure Size: 11/32" high, black on white background
Reset: Contoured wing nut
Finish: Baked enamel; Alaska grey frame
Operating Lever: Cast zinc. Adjustable to any position. Furnished complete with pull spring for attaching.

ORDERING INSTRUCTIONS

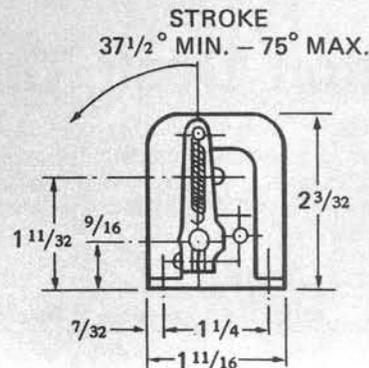
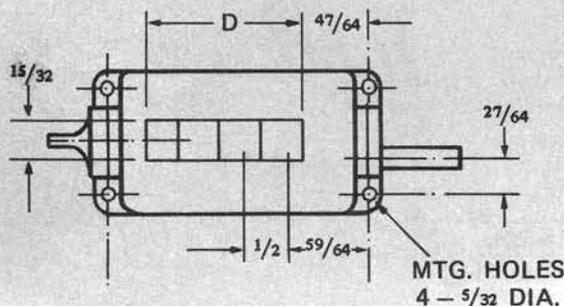
When ordering Model "CS" series stroke counters consider – number of figures, and drive lever before choosing a model number from the selection table.

SELECTION TABLE

Model Number	Figures	Drive	Reset	Weight	Mounting
4-CS-1-1-R	4	R.H. Lever	Wing Nut	1 lb. 7 oz.	Base
5-CS-1-1-R	5	R.H. Lever	Wing Nut	1 lb. 9 oz.	Base
5-CS-1-1-L	5	L.H. Lever	Wing Nut	1 lb. 9 oz.	Base
5-CS-1-1-R-RP (Rustproof)	5	R.H. Lever	Wing Nut	1 lb. 9 oz.	Base



Model	A	B	C	D
4-CS-1-1-R or L	3-1/8	3-1/2	4-1/32	1-7/8
5-CS-1-1-R or L	3-5/8	4	4-17/32	2-3/8





5-X-1-1-R

SERIES "X" STROKE COUNTERS

A dustproof and rustproof series of counters for light and medium-duty work. They are sound and durable, requiring a minimum of driving effort, and have been especially designed for incorporation as integral parts of a variety to machines and equipment.

SPECIFICATIONS

Figures: 4 or 5
Speed: 1000 counts per minute
Shaft: 1/8" diameter stainless steel
Drive: Drive parts of nylon
Bearings: Oil-less, maintenance free
Finish: Alaska grey frame
 Cylolac black cover

Stroke Operation: 33° minimum: 58° maximum^①
Figure Size: 3/16" high, white on black background
Reset: Knob.

^① Operating stroke angles apply to forward stroke counters only. Check factory for angles of reverse stroke counter.

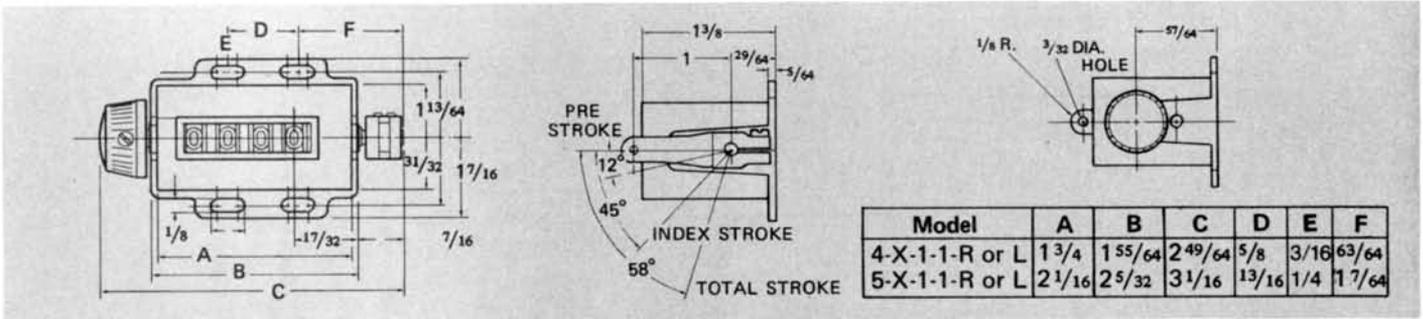
ORDERING INSTRUCTIONS

When ordering Model "X" series stroke counters consider — number of figures, drive lever, before choosing a model number from the selection table.

SELECTION TABLE

Model Number	Figures	Drive	Reset ^②	Weight	Mounting
4-X-1-1-R	4	R.H. Lever	Knob	4½ oz.	Base
4-X-1-1-L	4	L.H. Lever	Knob	4½ oz.	Base
4-X-1-1-R Rev. (Reverse Stroke)	4	R.H. Lever	Knob	4½ oz.	Base
5-X-1-1-R	5	R.H. Lever	Knob	5 oz.	Base
5-X-1-1-L	5	L.H. Lever	Knob	5 oz.	Base
5-X-1-1-R Rev. (Reverse Stroke)	5	R.H. Lever	Knob	5 oz.	Base

^② Non-reset models on application



Push Button Desk Tally

Ruggedly constructed counters with feather-touch push button operation and maximum readability. Specifications and dimensions are basically the same as the "X" counters. Will give long and accurate service in areas requiring hand counting or during hand operations.



4-X-2



4-X-2-A

TALLY SELECTION TABLE

Model Number	Figures	Drive	Reset	Weight	Mounting
4-X-2	4	Push Bar	Plastic Knob	4½ oz.	Base
4-X-2-A	4	Pushbutton	Plastic Knob	4½ oz.	Base

SERIES " N1 " STROKE COUNTERS



5-6-N-1-1-R

A double-deck stroke counter with top and bottom rows counting simultaneously. Bottom row is a totalizer and cannot be reset. Upper row shows a record of current run and can be reset with wing nut.

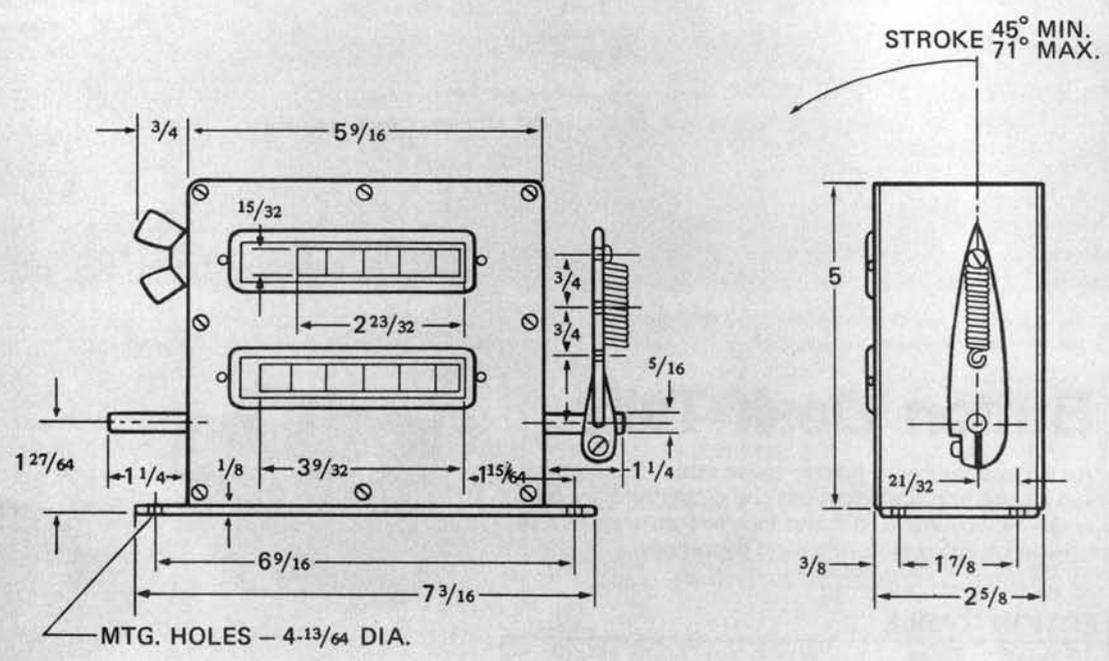
SPECIFICATIONS

Figures: Top Deck – 5; Bottom Deck – 6
Speed: 800 counts per minute
Stroke
Operation: 45° minimum; 71° maximum
Shafts: 5/16" diameter stainless steel, rustproof
Drive: Accurately machined, hardened steel parts
Case: Zinc die casting, stamped aluminum cover
Figure Size: 1 1/32" high, black on white background

Reset: Wing nut standard on top deck
Finish: Baked enamel; Alaska grey and Polychromatic brown
Operating Lever: Adjustable to any position at either end of drive shaft. Strokes forward. Furnished complete with pull spring

SELECTION TABLE

Model Number	Figures	Drive	Reset	Weight	Mounting
5-6-N-1-1-R	5 – Top Deck 6 – Bottom Deck	L.H. and R.H. Lever	Wing nut	5 lb.	Base



**PREDETERMINED
MECHANICAL
ROTARY & STROKE**

Series SP

Series SP consists of mechanically driven stroke and revolution counters with electrical switch actuation at a predetermined count. This is a rugged, compact series with a die-cast frame, designed to operate dependably and accurately with a long life. The five-figure counter may be set for any set of figures up to 99,999. When the preset count is reached, a switch contact is immediately closed or opened to send the proper signal or stop the machine.

Series R

When the machinery is large and heavy, this rugged predetermined counter stays on the job with complete accuracy and dependability. Manufactured from highest quality material, they are a precision instrument with a built-in margin of safety of materials and operation for the most severe operating conditions.

Series N

These double deck predetermined counters offer the advantages of two counters in one. Upper row is the predetermined unit for controlling preset quantity runs; lower row is totalizer counter, registering job lot, daily, weekly or monthly totals. This arrangement is ideal for control of production runs, for accumulating totals for a period of production, or to compute total piece work earnings.

DESIGNATION SYSTEM

The Durant model designation system will guide you in the selection of most counters. Since there are some exceptions to the system, and several product lines cannot be adapted to it, the Durant Model Designation system should be used for reference only.

The following counter families employ the Durant Model Designation system:

Stroke Counters

Revolution Counters

Electric Counters (except "YE" Series and Miniature Electric Series)

Predetermined Counters (except "Y" Series and "PD-Q" Series)

Lineal and Wire Measuring Counters

Conveyor Counters

ONE First Digit indicates NUMBER OF WHEELS in counter. (On double deck models – first two digits indicate number of wheels in top and bottom rows respectively.)

TWO Letter indicates MODEL TYPE.

CS – Top Reading, Revolution or Stroke

D – Medium Duty, Stroke or Revolution

H – Heavy Duty, Stroke or Revolution

HDW – High Speed Double Worm Drive Revolution

HF – Bottle and Can Counters

L – Wire Measuring

N – High Speed Double Deck

R – Predetermined Counters

SM – Steel Mill Counters

SP – Small Predetermined

T – Top Reading, Medium Sized

Y – Small High Speed Counter

X – Small, Medium Duty, Stroke or Revolution

THREE First Digit Following Letter indicates TYPE OF DRIVE ACTION or UNITS IN WHICH COUNTER RECORDS. Four or five digit numbers when shown indicate DRAWING NUMBERS.

1 – Stroke Action

2 – Desk Tally Lever

3 – Can Counters

4 – Bottle Counters or Bottom Rotary Drive

5 – Conveyor or Case Counting Action

6 – Front or Rear Revolution Drive Action

7 – End Drive Revolution Action

8 – Recording in Feet

9 – Recording in Yards and 1/8 Yards

90 – Recording in Full Yards

16 – Wire Measuring Recording Feet, or Stroke Drive on Double Deck Predetermined Models

20 – Heavy Duty Wire Measuring Recording in Feet

66 – Right Angle on Double Deck Predetermined Models

76 – End Drive on Double Deck Predetermined Models

FOUR Second Digit Following Letter indicates TYPE OF RESET.

1 – Wing Nut Reset

2 – Lock and Key Reset

3 – Non-Reset

4 – Packer Tally Lever Attachment

MF – Electrically Operated

Q – Quick Reset

ER – Electric Reset

FIVE First Letter After Digits indicates CHARACTERISTICS.

R – Right Hand Drive Shaft

L – Left Hand Drive Shaft

MF – Electrically Operated

RMF – Electrically Operated with Rectifier

Q – Quick Reset

ER – Electric Reset

RP – Rustproof

PM – Panel Mount

B – Base Mount

S – Special Characteristics

SIX DIRECTION of SHAFT ROTATION on ALL REVOLUTION MODELS. VOLTAGE ON ELECTRIC COUNTERS.

AC – Anti-Clockwise (Counter Clockwise)

CL – Clockwise

D – DC Current Preceded by Voltage

A – AC Current Preceded by Voltage

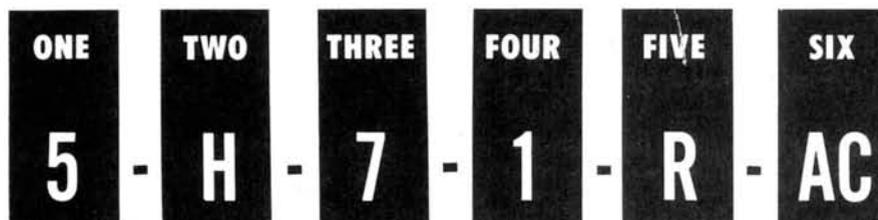
Direction of Shaft Rotation taken as follows

End Drive Models – From RIGHT HAND END of Counter

Front or Rear Drive – From FRONT of Counter

Top or Bottom Drive – From TOP of Counter

example for model 5-H-7-1-R-AC



SERIES "SP" PREDETERMINED STROKE COUNTERS



5-SP-7-1-R-CL



5-SP-1-1-R

The Model "SP" Series consists of mechanically driven stroke and revolution counters with electrical switch actuation at a predetermined count. This is a rugged, compact series with a die-cast frame, designed to operate dependably and accurately with a long life. The five-figure counter may be set for any set of figures up to 99,999. When the preset count is reached, a switch contact is immediately closed or opened to send the proper signal or stop the machine.

SPECIFICATIONS:

Stroke Counters

Speed: Up to 600 cpm
Stroke Operation: 22° minimum, 107° maximum
Shaft: 1/4" diameter
Figure Size: 1/4" high. Black on white background
Reset: Knob
Bearings: Oil-less, maintenance free
Operating Lever: Adjustable to any position

Revolution Counters

Speed: Up to 2000 cpm
Rotation: Clockwise or anti-clockwise
Shaft: 1/4" diameter
Figure Size: 1/4" high. Black on white background
Reset: Knob
Bearings: Oil-less, maintenance free
Ratio: 1:1

Switch Rating (Stroke and Revolution Counters) S.P.D.T. 15 AMP @ 120 to 480 VAC; 1/4 H.P. @ 120 VAC; 1/2 H.P. @ 240 VAC; 0.5 AMP @ 125 VDC; 0.25 AMP @ 250 VDC.

ORDERING INSTRUCTIONS: SELECTION TABLE

When ordering Model "SP" Stroke Predetermined Counters consider — drive lever location before determining model number from selection table.

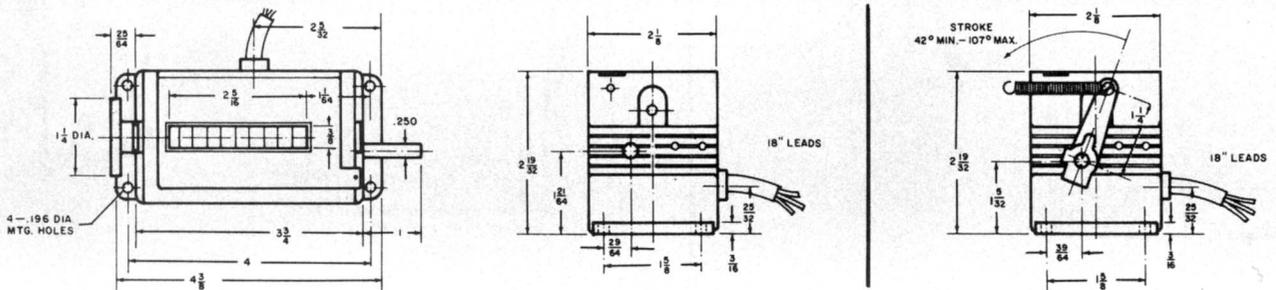
When ordering Model "SP" Revolution Predetermined Counters consider — drive shaft location, and drive shaft rotation before determining model number from selection table.

Model Number	Figures	Drive	Rotation ①	Reset	Mounting	Weight
5-SP-1-1-R	5	R.H. (Stroke)	N/A	Knob	Base	1 lb. 12 oz.
5-SP-1-1-L	5	L.H. (Stroke)	N/A	Knob	Base	1 lb. 12 oz.
5-SP-7-1-R-CL	5	R.H. (Revolution)	Clockwise ②	Knob	Base	1 lb. 12 oz.
5-SP-7-1-R-AC	5	R.H. (Revolution)	Anti-Clockwise ③	Knob	Base	1 lb. 12 oz.
5-SP-7-1-L-CL	5	L.H. (Revolution)	Clockwise ④	Knob	Base	1 lb. 12 oz.
5-SP-7-1-L-AC	5	L.H. (Revolution)	Anti-Clockwise ⑤	Knob	Base	1 lb. 12 oz.

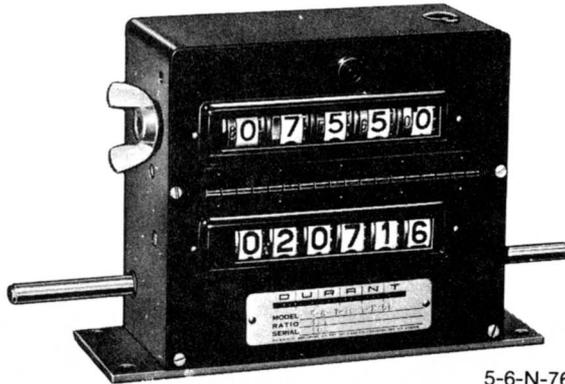
① When shaft is turned in the reverse direction of its rotation the counter will subtract.



DIMENSIONS:



SERIES " N " PREDETERMINED ROTARY COUNTERS



5-6-N-76-1-R-CL

These double deck predetermined counters offer the advantages of two counters in one. Upper row is the predetermined unit for controlling preset quantity runs; lower row is totalizer counter, registering job lot, daily, weekly or monthly totals. This arrangement is ideal for control of production runs, for accumulating totals for a period of production, or to compute total piece work earnings. The advantages of this combination are available only in Durant double deck predetermined counters, which are specifically designed for the requirements of heavy-duty installations.

SPECIFICATIONS:

Stroke and Revolution Models

Bearings: Oil-less, maintenance free
Shaft: 5/16" stainless steel
Number:
Wheels: Delrin
Figures: 11/32", black on white background
Cover: Metal, with full piano-type hinge
Reset: Wing nut or Quick lever on predetermined deck; lower totalizer non-reset, standard
Finish: Baked enamel; Alaska grey and Polychromatic brown

Stroke Model Only

Figures: 5 top deck, 6 bottom deck
Speed: 800 counts per minute
Stroke:
Operation: 20° minimum; 68° maximum
Drive: Hardened steel ratchet, right hand
Operating Lever: Adjustable to any position. Furnished complete with pull spring for attaching

Revolution Models Only

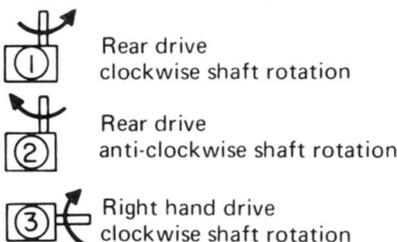
Figures: 5 top deck, 6 bottom deck, standard
Speed: 2000 counts per minute
Rotation:
Direction: End Drive: Clockwise or anti-clockwise when viewed from right hand end of counter. Rear Drive: Clockwise or anti-clockwise when viewed from front

Switch Rating (Stroke and Revolution Counters) S.P.D.T. 15 AMP @ 120 to 480 VAC; 1/4 H.P. @ 120 VAC; 1/2 H.P. @ 240 VAC; 0.5 AMP @ 125 VDC; 0.25 AMP @ 250 VDC.

ORDERING INSTRUCTIONS:

When ordering Model "N" Series predetermined counters consider - type of actuation, drive shaft location, shaft rotation (revolution counters only), and type of reset before determining model number from selection table.

Top View of Counter



SELECTION TABLE:

Model Number	Figures	Actuation	Drive	Rotation	Reset	Mounting	Weight
5-6-N-16-Q-R	5 top deck 6 bottom deck	Stroke	R.H.	N/A	Lever	Base	5½ lb.
5-6-N-66-1-CL	5 top deck 6 bottom deck	Revolution	Rear	Clockwise ^①	Wing Nut	Base	5 lb.
5-6-N-66-1-AC	5 top deck 6 bottom deck	Revolution	Rear	Anti-Clockwise ^②	Wing Nut	Base	5 lb.
5-6-N-76-Q-R-CL	5 top deck 6 bottom deck	Revolution	R.H.	Clockwise ^③	Lever	Base	5½ lb.

DIMENSIONS: 5 5/16" wide, 5" high, 2 5/8" deep.