



NORMONT SYSTEMS

HINGES & CONNECTION SYSTEMS

DESIGN GUIDES & FORMS



INNOVATIVE, EXPERIENCED, WITH A GLOBAL REACH

With 30 years of proven experience and stability, Normont has a reputation for excellence and the flexibility to quickly turnaround design engineered solutions that meet any scale requirement. Normont is nimble and responsive; with a personal touch. That is what makes Normont unique in its field.

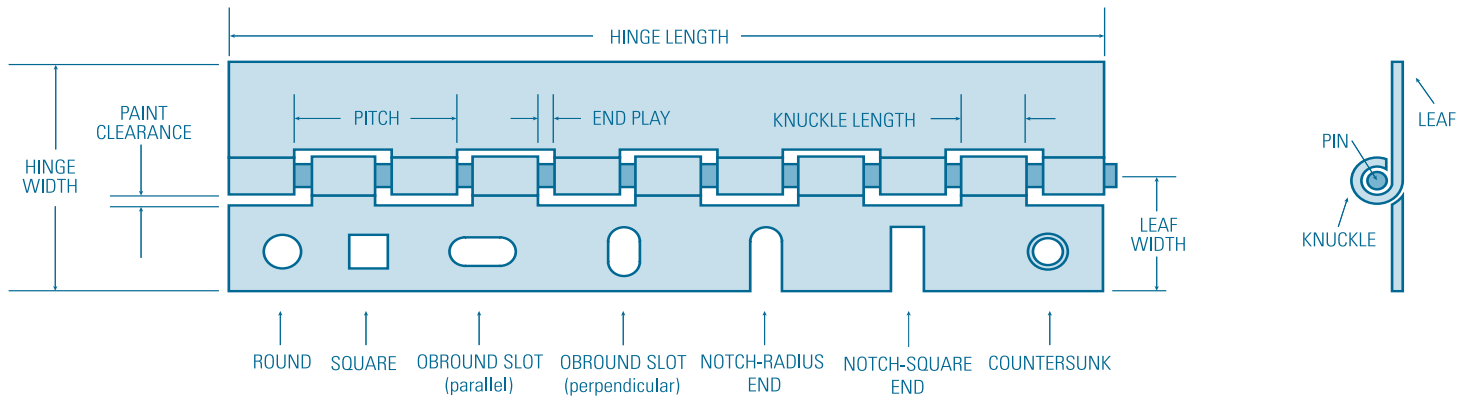
Today we have the accumulated design, manufacturing and logistical expertise to be a reliable and stable partner that can be counted on to deliver quality products.

With manufacturing, engineering and logistical support in North America, Latin America and Asia we can provide seamless support from design to on-time delivery, worldwide.

You can find Normont engineers providing support to industries as diverse as the major automotive manufactures and their tier suppliers, to bus, truck and train manufactures - fire truck builders, ambulance manufactures - companies developing recreational products, etc. The list is long - however one rule applies, no customer is too big or too small, each one is as important as the other.



HINGE NOMENCLATURE



HINGE PARTS

HINGE LENGTH

The length of the leaves measured parallel to the pin.

HINGE WIDTH

The overall dimension of the leaves measured perpendicular to the pin.

LEAF

The portion of a hinge extending laterally from the knuckle.

LEAF WIDTH

The dimension from the center of the pin to the outer edge of the leaf.

END PLAY

The amount of axial movement between the leaves.

PAINT CLEARANCE

The dimension between the outer edge of the knuckle and the opposing edge of the leaf over the entire range of pivotal movement of the hinge.

PITCH

The dimension from a point on the knuckle to the same point on an adjacent knuckle on the same leaf.

KNUCKLE (LOOP, JOINT, CURL)

The hollow circular part of a hinge through which a pin is passed.

KNUCKLE LENGTH

The nominal or typical dimension for the knuckle measured parallel to the pin.

PIN

Rod running the length of the hinge. The pin holds the leaves of the hinge together.

SIDE PLAY

The amount of movement of the leaves perpendicular to the pin.

HOLES

TYPES OF HOLES

Hinges are carried in inventory without holes. In addition to round holes and slots, we are tooled for a number of other shapes as illustrated.

HOLE LOCATIONS

A sketch or sample showing hole location is required.

Please submit a drawing or sample.

COUNTERSUNK HOLES

Please specify screw size when ordering countersunk holes.

SWAGING, ASSEMBLY AND STOP HINGE

SWAGING AND ASSEMBLY



OPEN



CLOSED

PLAIN OR STANDARD ASSEMBLY

This is a surface-type hinge. The leaves lie flat in the same plane when in the open position. Unless otherwise indicated, this type of hinge will be supplied.



REVERSE SWAGED

One leaf swaged to simulate reversed assembly. Leaves will not close to a parallel position.



ONE LEAF FULL-SWAGED

One leaf swaged equal to the pin diameter. Both leaves parallel when in a closed position.



OPEN

REVERSE ASSEMBLY

Neither leaf swaged. Opposing leaves extend laterally from opposite sides of pin. Leaves will not close to parallel position.



ONE LEAF HALF-SWAGED

One leaf swaged one half pin diameter.



BOTH LEAVES HALF-SWAGED

Both leaves are swaged approximately one-half the pin diameter with a minimum clearance between leaves when parallel.

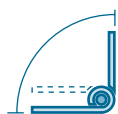


OFFSET

Forming one or both leaves away from the center of the pin. Offsetting slightly decreases leaf width.

STOP HINGE

A hinge manufactured to limit the travel of the leaves to a specified angle.



INSIDE STOP HINGE

Leaves will open from a closed position, leaves parallel to each other, to a stop angle as specified.



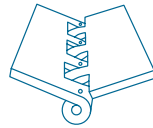
OUTSIDE STOP HINGE

Leaves move from an open or flat position and stop at a specified angle.

PIN RETENTION

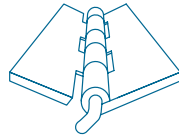
STAKED PIN

Depressing the leaf or knuckle of one leaf to secure the pin and to prevent axial movement in the knuckle.



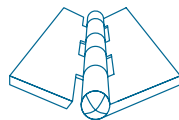
BENT PIN

The pin is usually cut longer than the hinge and bent 90 degrees. This permits easy assembly and disassembly but no security.



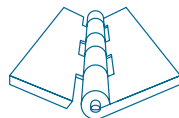
SPUN PIN

Cold forming of one or both ends of the pin to a diameter greater than the inside diameter of the knuckle to prevent axial movement.



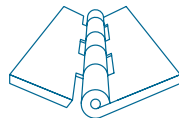
COINED PIN

One end of the pin is deformed and when driven into the hinge, it wedges in place.



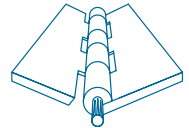
FLUSH PIN

There is no pin retention here except for the friction between the pin and the inside of the curl. This can vary greatly depending on how tight the hinges have been curled.



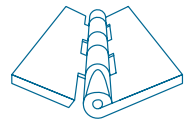
SPLINED PIN

A type of pin used in some of our slip joint hinges. The splined portion of the pin is slightly larger than the inside diameter on the curl of the hinge. It is press-fit and remains in the leaf for most normal applications. For applications where greater security is needed, you may want to consider welding the pin into the leaf.



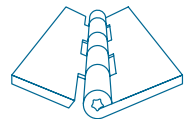
ENDS CRIMPED

The pin is cut shorter than the hinge and centered. Then both end knuckles of the hinge are crimped to prevent the pin from coming out.



WELDED PIN

One or both ends of the pin are welded to the end curl. This is a very secure method of pin retention.



CUSTOMIZE YOUR CONNECTION SYSTEM

DESIGN SPECIFICATIONS AND REQUIREMENTS

APPLICATION OVERVIEW

General Application:

Material:

Cycle Requirements:

Environmental Exposure:

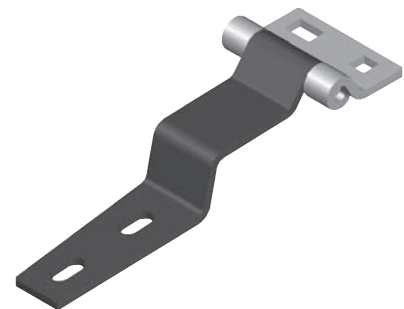
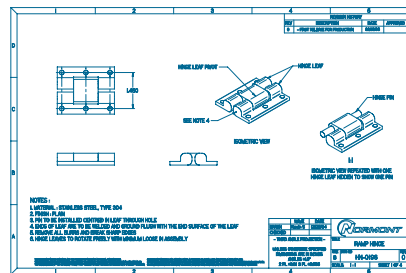
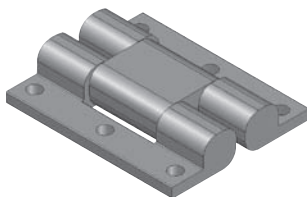
Special Requirements:

Mounting Restrictions:

Size Restrictions:

Load Requirements:

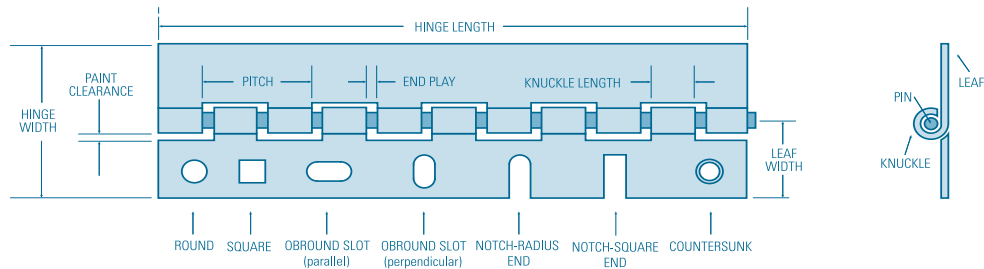
Is a PPAP required? Yes No PPAP Level



SPECIALTY HINGES

Download our specialty hinge form or product drawings from our web site: www.normonthinge.com
Email our engineering department your requirements: engineering@normonthinge.com

CUSTOM CONTINUOUS HINGE



SPECIFICATIONS

Length of hinge:	<input type="text"/>	Leaf material:	<input type="text"/>	Pin diameter:	<input type="text"/>
Open width:	<input type="text"/>	Pin material:	<input type="text"/>	Leaf 1 width:	<input type="text"/>
Leaf thickness:	<input type="text"/>	Knuckle length:	<input type="text"/>	Leaf 2 width:	<input type="text"/>

HOLES - See Page 8

Specify on which leaf the holes will be located:

- A. Round (Enter Letter Option)
- B. Square
- C. Oblong
- D. Other (please specify):

	LEAF 1	Size of Hole	LEAF 2	Size of Hole
Number of Holes	<input type="text"/>		<input type="text"/>	
Distance of 1 st hole from left end of hinge	<input type="text"/>		<input type="text"/>	
Distance of 1 st hole from center of pin	<input type="text"/>		<input type="text"/>	
Distance of center to center for the balance of the holes	<input type="text"/>		<input type="text"/>	

If there is more than one row of holes per leaf or different C to C, a drawing or sketch is required.

BEND

- Angle of bend
 - Bend toward knuckle side
 - Bend away from knuckle side
- If multiple bends on the same leaf hinge, a drawing is required.

LEAF 1	LEAF 2
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

SWAGING OR REVERSE ASSEMBLY - See Page 9

Specify on which leaf the swaging will be located:

- A. One leaf 1/2 swaged (Enter Letter Option)
- B. One Leaf Full Swaged
- C. Both Leaves 1/2 swaged
- D. Swage to Reverse Assembly
- E. Reverse Assembly
- F. None

LEAF 1	LEAF 2
<input type="text"/>	<input type="text"/>

STOP HINGE - See Page 8

Specify which type of Stop Hinge is required:

- A. Inside Stop Hinge (Enter Letter Option)
- B. Outside Stop Hinge

What is the operating arc of the stop action:

LEAF 1	LEAF 2
<input type="text"/>	<input type="text"/>

CUSTOM CONTINUOUS HINGE

FASTENERS

Specify on which leaf the fastener(s) will be located:

- A. Threaded insert (Riv Nut)
- B. Weld Nut
- C. Weld Stud
- D. Press Nut
- E. Press Stud

(Enter Letter Option)

LEAF 1

LEAF 2

F. Other (specify):

Fastener Mfg Part Number

Fastener Mfg Part Description

Other information or No specific Mfg Part Number

Number of Fasteners Per Leaf

If locations are same as hole locations, leave the following section blank.

Distance of 1st fastener from left end of hinge

Distance of 1st fastener from center of pin

Distance of center to center for the balance of the fasteners

If there is more than one row of Fasteners per leaf, a drawing is required.

SPRING HINGE

Specify which spring loading is required:

- A. Hinge Spring loaded to open (Spring pushes hinge to open position)
- B. Hinge Spring loaded to close (Spring pushes hinge to closed position)

(Enter letter option)

How many inch pounds of torque?

What degree of arc?

Minimum amount of knuckles required for a spring hinge is five.

PIN RETENTION - See Page 10

Specify which type of pin retention is required:

Staking of pin not recommended above .060 leaf thickness.

- A. Staked Pin
- B. Bent Pin
- C. Spun Pin-One End
- D. Spun Pin-Both Ends
- E. Flush Pin
- F. Splined Pin
- G. Ends Crimped
- H. Welded End-One End
- I. Welded End-Both Ends
- J. Have Normont recommend best for hinge
- K. None

(Enter Letter Option)

FINISH - See Page 9

Please specify the finish, if required.



HOW TO PLACE YOUR ORDER

Contact us by e-mail info@normonthinge.com or by phone by dialing: **1.800.840.2272**

BUILD YOUR OWN HINGE

By choosing one code from each of the following sections, you can create your own specific part number. Simply fill in the boxes on the right with your selection and assemble them together in the box at the bottom of the page to form your specific hinge part number.

CODE PS	MATERIAL Steel leaf & pin	CODE SB	MATERIAL Steel leaf & brass pin	CODE 316SS	MATERIAL 316 stainless steel	CODE: <input type="text"/>
SS	Stainless leaf & pin (304)	RB	Raw brass	FS	Finished steel with holes	
AL	Aluminum leaf & pin	AS	Aluminum leaf & stainless pin	SH	Stainless with holes	
CODE 01	LEAF THICKNESS 0.025	CODE 05	LEAF THICKNESS 0.050	CODE 11	LEAF THICKNESS 0.120	CODE: <input type="text"/>
02	0.030	06	0.060	12	0.125	
32	0.032	62	0.062	18	0.180	
03	0.035	07	0.075	25	0.250	
04	0.040	09	0.090			
CODE 05	OPEN WIDTH 0.50	CODE 15	OPEN WIDTH 1.50	CODE 40	OPEN WIDTH 4.00	CODE: <input type="text"/>
07	0.75	20	2.00	50	5.00	
10	1.00	25	2.50	60	6.00	
16	1.06	30	3.00	70	7.00	
12	1.25	35	3.50	80	8.00	
CODE 0	PIN DIAMETER 0.062	CODE 4	PIN DIAMETER 0.125	CODE 7	PIN DIAMETER 0.375	CODE: <input type="text"/>
1	0.086	5	0.187	8	0.500	
2	0.091	6	0.250	9	0.625	
3	0.120					
CODE 0	KNUCKLE LENGTH 0.25	CODE 5	KNUCKLE LENGTH 0.75	CODE 9	KNUCKLE LENGTH 2.00	CODE: <input type="text"/>
2	0.50	6	1.00			
3	0.62	1	1.50			
CODE 72	HINGE LENGTH 72	CODE 84	HINGE LENGTH 84	CODE 96	HINGE LENGTH 96	CODE: <input type="text"/>

CUSTOM LENGTHS AVAILABLE: Specify length in hinge length box below

FINAL PART NUMBER

MATERIAL:	LEAF THICKNESS:	OPEN WIDTH:	PIN DIAMETER:	KNUCKLE LENGTH:	HINGE LENGTH:
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

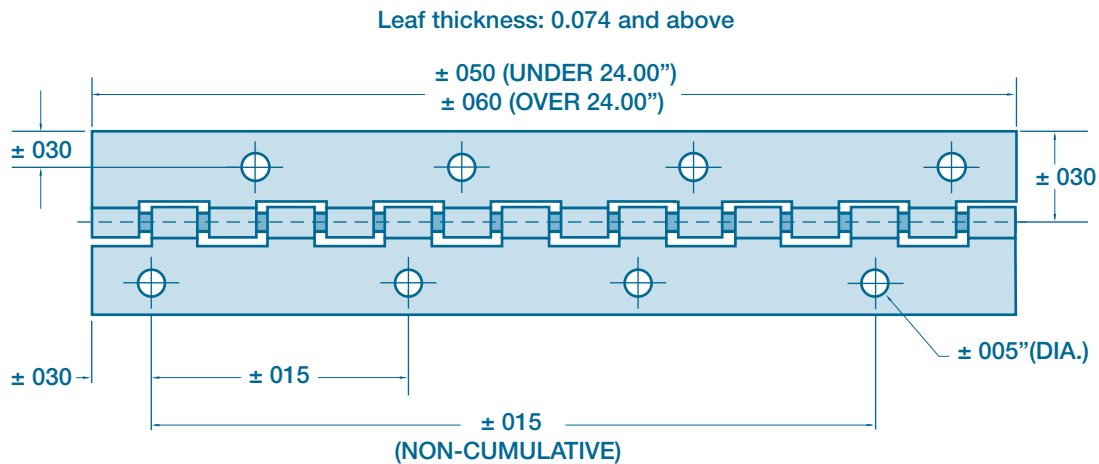
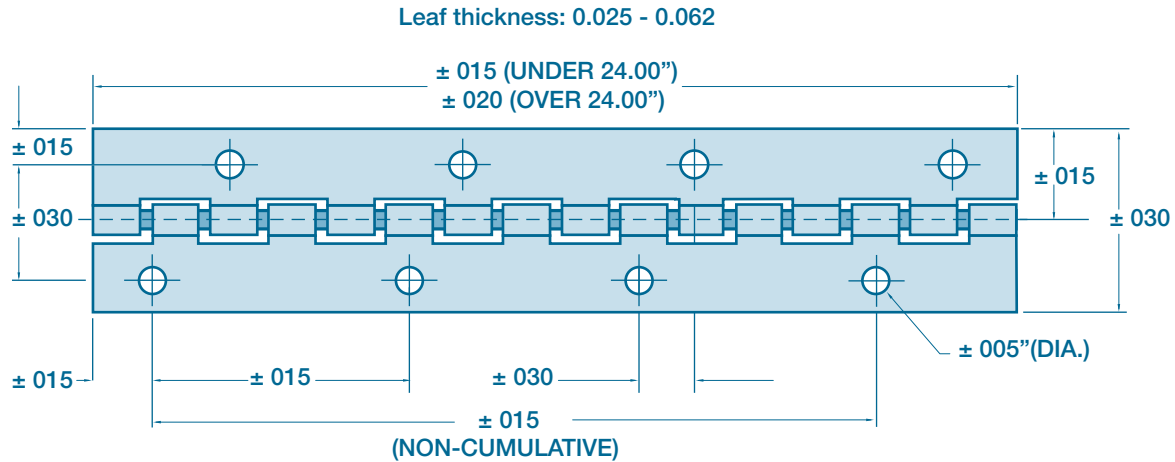


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TOLERANCES & FINISHES

TOLERANCES



Note: standard tolerances for items when holes are punched as a secondary operation.

AVAILABLE FINISH & MATERIAL

- Stainless, Standard Finish
- Stainless, Bright Finish
- Stainless, Satin Finish
- Aluminum, Satin and Clear Anodized
- Aluminum, Satin and Lacquered
- Aluminum, Anodized and Brite Dip
- Commercial Zinc
- Black Zinc
- Bright Brass
- Satin Brass
- Statuary Bronze
- Black Powdercoat
- Bright Nickel
- Satin (Dull) Nickel
- Bright Chrome
- Satin (Dull) Chrome

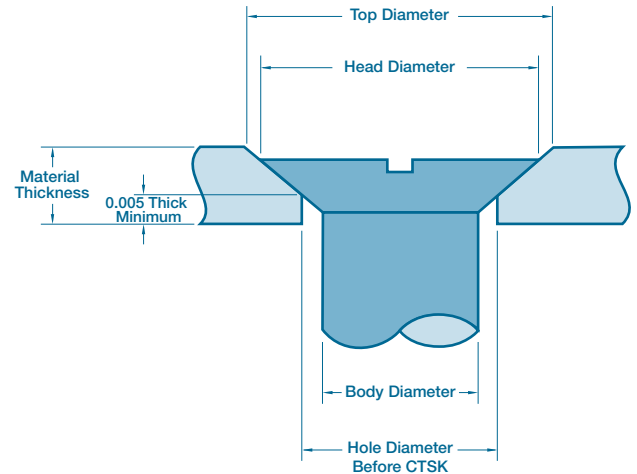
COUNTERSINK

COUNTERSUNK HOLES

The hole punched in the sheet metal is designed to leave a minimum .005 wall after the countersink is complete. This will prevent burr formation on the bottom side of the sheet metal. Part of the head will extend below the surface of the sheet metal. We have calculated the hole diameter required for a number of popular screw sizes.

Our standard for the diameter for the top of the countersink is to take the middle of the range for the nominal dimension with a tolerance of plus or minus .010. Any dimension for the top of the countersink from .310 to .330 would be considered within tolerance.

Our standard for the diameter for the top of the countersink is to take the middle of the range for the nominal dimension with a tolerance of plus or minus .015.



82° COUNTERSINK HOLE & TOLERANCES

SCREW SIZE	#4	#5	#6	#8	#10	#12	1/4-20
COUNTERSINK DIAMETER	0.216	0.242	0.268	0.320	0.372	0.424	0.492
TOLERANCE: MIN. HEAD DIAMETER (+/- 0.10)	0.207	0.232	0.257	0.308	0.359	0.410	0.477
TOLERANCE: MAX. HEAD DIAMETER (+/- 0.10)	0.225	0.252	0.279	0.332	0.385	0.438	0.507

SCREW SIZE	#4	#5	#6	#8	#10	#12	1/4-20
MATERIAL THICKNESS	Note: Holes to be drilled to the following sizes (+/- .005)-Prior to countersink.						
0.020	0.1950	0.2220	0.2490	0.3020	0.3550	0.4060	0.4770
0.025	0.1870	0.2130	0.2400	0.2930	0.3460	0.4060	0.4680
0.030	0.1760	0.2010	0.2280	0.2810	0.3340	0.4060	0.4560
0.035	0.1660	0.1960	0.2210	0.2740	0.3280	0.4060	0.4490
0.042	0.1600	0.1870	0.2130	0.2630	0.3170	0.4060	0.4370
0.050	0.1410	0.1700	0.1960	0.2500	0.3030	0.3830	0.4240
0.060	0.1280	0.1520	0.1790	0.2320	0.2850	0.3830	0.4060
0.074	0.1250	0.1280	0.1560	0.2080	0.2630	0.3680	0.3830
0.090	0.1250	0.1280	0.1560	0.1940	0.2500	0.3360	0.3680
0.120	0.1250	0.1280	0.1560	0.1870	0.2130	0.3030	0.3120
0.179	0.1250	0.1280	0.1560	0.1870	0.2130	0.2320	0.3120
0.250	0.1250	0.1280	0.1560	0.1870	0.2130	0.2320	0.3120

100° COUNTERSINK HOLE & TOLERANCES

SCREW SIZE	#4	#5	#6	#8	#10	#12	1/4-20
COUNTERSINK DIAMETER	0.216	0.242	0.268	0.320	0.372	0.424	0.492
TOLERANCE: MIN. HEAD DIAMETER (+/- 0.15)	0.201	0.227	0.253	0.305	0.357	0.409	0.477
TOLERANCE: MAX. HEAD DIAMETER (+/- 0.15)	0.231	0.257	0.283	0.335	0.387	0.439	0.507

SCREW SIZE	#4	#5	#6	#8	#10	#12	1/4-20
MATERIAL THICKNESS	Note: Holes to be drilled to the following sizes (+/- .005)-Prior to countersink.						
0.020	0.1870	0.2130	0.2490	0.3020	0.3460	0.4060	0.4770
0.025	0.1870	0.2130	0.2320	0.2930	0.3460	0.4060	0.4680
0.030	0.1760	0.1960	0.2210	0.2740	0.3360	0.3830	0.4560
0.035	0.1600	0.1870	0.2130	0.2630	0.3120	0.3680	0.4370
0.042	0.1410	0.1760	0.1960	0.2500	0.3130	0.3680	0.4240
0.050	0.1250	0.1280	0.1760	0.2320	0.2850	0.3360	0.4060
0.060	0.1250	0.1280	0.1560	0.2130	0.2850	0.3830	0.4060
0.074	0.1250	0.1280	0.1560	0.1870	0.2130	0.2320	0.3120
0.090	0.1250	0.1280	0.1560	0.1870	0.2130	0.2320	0.3120
0.120	0.1250	0.1280	0.1560	0.1870	0.2130	0.2320	0.3120
0.179	0.1250	0.1280	0.1560	0.1870	0.2130	0.2320	0.3120
0.250	0.1250	0.1280	0.1560	0.1870	0.2130	0.2320	0.3120

CONVERSION TABLE

METRIC CONVERSIONS

LINEAR

MULTIPLY INCHES BY	25.4	To get millimeters (mm)
MULTIPLY FEET BY	0.03048	To get meters (m)
MULTIPLY INCHES BY	2.54	To get centimeters (cm)
MULTIPLY MILLIMETERS (MM) BY	0.03937	To get inches
MULTIPLY METERS (M) BY	3.281	To get feet
MULTIPLY CENTIMETERS (CM) BY	0.3937	To get inches

TORQUE

MULTIPLY INCH-POUNDS BY	0.11298	To get newton-meters (nm)
MULTIPLY FOOT-POUNDS BY	1.3558	To get newton-meters (nm)
MULTIPLY NEWTON-METERS (NM) BY	8.851	To get inch-pounds
MULTIPLY NEWTON-METERS (NM) BY	0.7376	To get foot-pounds

FORCE

MULTIPLY POUNDS BY	0.00445	To get kilo newtons (kn)
MULTIPLY KILO NEWTONS (KN) BY	224.72	To get pounds

PRESSURE

MULTIPLY PSI BY	0.069	To get bars
MULTIPLY BARS BY	14.5	To get psi

DECIMAL EQUIVALENT OF STANDARD GAUGE SHEET METAL (ALUMINUM AND STEEL)

GAUGE	ALUM. (B & S)	STEEL (US STD.)	GAUGE	ALUM. (B & S)	STEEL (US STD.)	GAUGE	ALUM. (B & S)	STEEL (US STD.)
10	0.1019	0.1345	17	0.0453	0.0538	24	0.0201	0.0239
11	0.0907	0.1196	18	0.0403	0.0478	25	0.0179	0.0209
12	0.0808	0.1046	19	0.0359	0.0418	26	0.0159	0.0179
13	0.0720	0.0897	20	0.0320	0.0359	27	0.0142	0.0164
14	0.0641	0.0747	21	0.0285	0.0329	28	0.0126	0.0149
15	0.0571	0.0673	22	0.0253	0.0299	29	0.0113	0.0135
16	0.0508	0.0598	23	0.0226	0.0269	30	0.0100	0.0120

CONVERSION TABLE

INCH TO METRIC

Fraction	Decimal	0"	1"	2"	3"	4"	5"	6"	7"	8"	9"	10"
0	0.0000	0.00	25.40	50.80	76.20	101.60	127.00	152.40	177.80	203.20	228.60	254.00
1/64	0.0156	0.40	25.80	51.20	76.60	102.00	127.40	152.80	178.20	203.60	229.00	254.40
1/32	0.0313	0.79	26.19	51.59	76.99	102.39	127.79	153.19	178.59	203.99	229.39	254.79
3/64	0.0469	1.19	26.59	51.99	77.39	102.79	128.19	153.59	178.99	204.39	229.79	255.19
1/16	0.0625	1.59	26.99	52.39	77.79	103.19	128.59	153.99	179.39	204.79	230.19	255.59
5/64	0.0781	1.98	27.38	52.78	78.18	103.58	128.98	154.38	179.78	205.18	230.58	255.98
3/32	0.0938	2.38	27.78	53.18	78.58	103.98	129.38	154.78	180.18	205.58	230.98	256.38
7/64	0.1094	2.78	28.18	53.58	78.98	104.38	129.78	155.18	180.58	205.98	231.38	256.78
1/8	0.1250	3.18	28.58	53.98	79.38	104.78	130.18	155.58	180.98	206.38	231.78	257.18
9/64	0.1406	3.57	28.97	54.37	79.77	105.17	130.57	155.97	181.37	206.77	232.17	257.57
5/32	0.1563	3.97	29.37	54.77	80.17	105.57	130.97	156.37	181.77	207.17	232.57	257.97
11/64	0.1719	4.37	29.77	55.17	80.57	105.97	131.37	156.77	182.17	207.57	232.97	258.37
3/16	0.1875	4.76	30.16	55.56	80.96	106.36	131.76	157.16	182.56	207.96	233.36	258.76
13/64	0.2031	5.16	30.56	55.96	81.36	106.76	132.16	157.56	182.96	208.36	233.76	259.16
7/32	0.2188	5.56	30.96	56.36	81.76	107.16	132.56	157.96	183.36	208.76	234.16	259.56
15/64	0.2344	5.95	31.35	56.75	82.15	107.55	132.95	158.35	183.75	209.15	234.55	259.95
1/4	0.2500	6.35	31.75	57.15	82.55	107.95	133.35	158.75	184.15	209.55	234.95	260.35
17/64	0.2656	6.75	32.15	57.55	82.95	108.35	133.75	159.15	184.55	209.95	235.35	260.75
9/32	0.2813	7.14	32.54	57.94	83.34	108.74	134.14	159.54	184.94	210.34	235.74	261.14
19/64	0.2969	7.54	32.94	58.34	83.74	109.14	134.54	159.94	185.34	210.74	236.14	261.54
5/16	0.3125	7.94	33.34	58.74	84.14	109.54	134.94	160.34	185.74	211.14	236.54	261.94
21/64	0.3281	8.33	33.73	59.13	84.53	109.93	135.33	160.73	186.13	211.53	236.93	262.33
11/32	0.3438	8.73	34.13	59.53	84.93	110.33	135.73	161.13	186.53	211.93	237.33	262.73
23/64	0.3594	9.13	34.53	59.93	85.33	110.73	136.13	161.53	186.93	212.33	237.73	263.13
3/8	0.3750	9.53	34.93	60.33	85.73	111.13	136.53	161.93	187.33	212.73	238.13	263.53
25/64	0.3906	9.92	35.32	60.72	86.12	111.52	136.92	162.32	187.72	213.12	238.52	263.92
13/32	0.4063	10.32	35.72	61.12	86.52	111.92	137.32	162.72	188.12	213.52	238.92	264.32
27/64	0.4219	10.72	36.12	61.52	86.92	112.32	137.72	163.12	188.52	213.92	239.32	264.72
7/16	0.4375	11.11	36.51	61.91	87.31	112.71	138.11	163.51	188.91	214.31	239.71	265.11
29/64	0.4531	11.51	36.91	62.31	87.71	113.11	138.51	163.91	189.31	214.71	240.11	265.51
15/32	0.4688	11.91	37.31	62.71	88.11	113.51	138.91	164.31	189.71	215.11	240.51	265.91
31/64	0.4844	12.30	37.70	63.10	88.50	113.90	139.30	164.70	190.10	215.50	240.90	266.30
1/2	0.5000	12.70	38.10	63.50	88.90	114.30	139.70	165.10	190.50	215.90	241.30	266.70
33/64	0.5156	13.10	38.50	63.90	89.30	114.70	140.10	165.50	190.90	216.30	241.70	267.10
17/32	0.5313	13.49	38.89	64.29	89.69	115.09	140.49	165.89	191.29	216.69	242.09	267.49
35/64	0.5469	13.89	39.29	64.69	90.09	115.49	140.89	166.29	191.69	217.09	242.49	267.89
9/16	0.5625	14.29	39.69	65.09	90.49	115.89	141.29	166.69	192.09	217.49	242.89	268.29
37/64	0.5781	14.68	40.08	65.48	90.88	116.28	141.68	167.08	192.48	217.88	243.28	268.68
19/32	0.5938	15.08	40.48	65.88	91.28	116.68	142.08	167.48	192.88	218.28	243.68	269.08
39/64	0.6094	15.48	40.88	66.28	91.68	117.08	142.48	167.88	193.28	218.68	244.08	269.48
5/8	0.6250	15.88	41.28	66.68	92.08	117.48	142.88	168.28	193.68	219.08	244.48	269.88
41/64	0.6406	16.27	41.67	67.07	92.47	117.87	143.27	168.67	194.07	219.47	244.87	270.27
21/32	0.6563	16.67	42.07	67.47	92.87	118.27	143.67	169.07	194.47	219.87	245.27	270.67
43/64	0.6719	17.07	42.47	67.87	93.27	118.67	144.07	169.47	194.87	220.27	245.67	271.07
11/16	0.6875	17.46	42.86	68.26	93.66	119.06	144.46	169.86	195.26	220.66	246.06	271.46
45/64	0.7031	17.86	43.26	68.66	94.06	119.46	144.86	170.26	195.66	221.06	246.46	271.86
23/32	0.7188	18.26	43.66	69.06	94.46	119.86	145.26	170.66	196.06	221.46	246.86	272.26
47/64	0.7344	18.65	44.05	69.45	94.85	120.25	145.65	171.05	196.45	221.85	247.25	272.65
3/4	0.7500	19.05	44.45	69.85	95.25	120.65	146.05	171.45	196.85	222.25	247.65	273.05
49/64	0.7656	19.45	44.85	70.25	95.65	121.05	146.45	171.85	197.25	222.65	248.05	273.45
25/32	0.7813	19.84	45.24	70.64	96.04	121.44	146.84	172.24	197.64	223.04	248.44	273.84
51/64	0.7969	20.24	45.64	71.04	96.44	121.84	147.24	172.64	198.04	223.44	248.84	274.24
13/16	0.8125	20.64	46.04	71.44	96.84	122.24	147.64	173.04	198.44	223.84	249.24	274.64
53/64	0.8281	21.03	46.43	71.83	97.23	122.63	148.03	173.43	198.83	224.23	249.63	275.03
27/32	0.8438	21.43	46.83	72.23	97.63	123.03	148.43	173.83	199.23	224.63	250.03	275.43
55/64	0.8594	21.83	47.23	72.63	98.03	123.43	148.83	174.23	199.63	225.03	250.43	275.83
7/8	0.8750	22.23	47.63	73.03	98.43	123.83	149.23	174.63	200.03	225.43	250.83	276.23
57/64	0.8906	22.62	48.02	73.42	98.82	124.22	149.62	175.02	200.42	225.82	251.22	276.62
29/32	0.9063	23.02	48.42	73.82	99.22	124.62	150.02	175.42	200.82	226.22	251.62	277.02
59/64	0.9219	23.42	48.82	74.22	99.62	125.02	150.42	175.82	201.22	226.62	252.02	277.42
15/16	0.9375	23.81	49.21	74.61	100.01	125.41	150.81	176.21	201.61	227.01	252.41	277.81
61/64	0.9531	24.21	49.61	75.01	100.41	125.81	151.21	176.61	202.01	227.41	252.81	278.21
31/32	0.9688	24.61	50.01	75.41	100.81	126.21	151.61	177.01	202.41	227.81	253.21	278.61
63/64	0.9844	25.00	50.40	75.80	101.20	126.60	152.00	177.40	202.80	228.20	253.60	279.00

METRIC TO INCH

mm	Inches
1	0.0394
2	0.0787
3	0.1181
4	0.1575
5	0.1969
6	0.2362
7	0.2756
8	0.315
9	0.3543
10	0.3937
11	0.4331
12	0.4724
13	0.5118
14	0.5512
15	0.5906
16	0.6299
17	0.6693
18	0.7087
19	0.748
20	0.7874
21	0.8268
22	0.8661
23	0.9055
24	0.9449
25	0.9843
26	1.0236
27	1.063
28	1.1024
29	1.1417
30	1.1811
31	1.2205
32	1.2598
33	1.2992
34	1.3386
35	1.378
36	1.4173
37	1.4567
38	1.4961
39	1.5354
40	1.5748
41	1.6142
42	1.6535
43	1.6929
44	1.7323
45	1.7717
46	1.811
47	1.8504
48	1.8898
49	1.9291
50	1.9685
51	2.0079
52	2.0472
53	2.0866
54	2.126
55	2.1654
56	2.2047
57	2.2441
58	2.2835
59	2.3228
60	2.3622
61	2.4016
62	2.4409
63	2.4803
64	2.5197



NORMONT SYSTEMS

HINGES & CONNECTION SYSTEMS

DESIGN GUIDES & FORMS

ABOUT NORMONT

Normont is recognized as a leader in the design, manufacturing and supply of industrial and access hardware. Our World Class team of Professional Engineers will analyse the specific requirements of each new request whether it be for hinges, gas springs, battery trays or engine cradles and develop an innovative quality and cost effective solution for that application. Normont's capabilities include Powder Coating, Stamping, Machining, Fabricating, Welding and Assembly. The Normont team is ready to deliver custom engineered solutions that are innovative, high in quality and cost effective.



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