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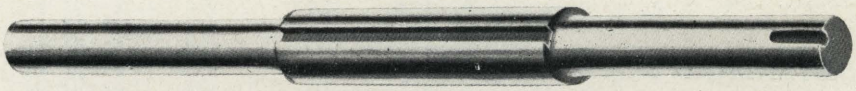
BULLETIN No. 14

LUFKIN FOUNDRY & MACHINE COMPANY — LUFKIN

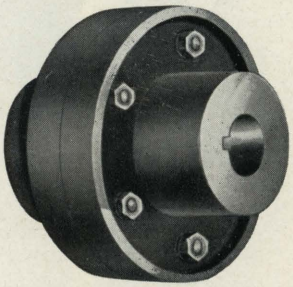
TRANSMISSION MACHINERY



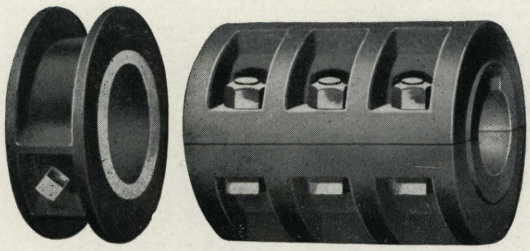
TURNED MILD STEEL SHAFTING



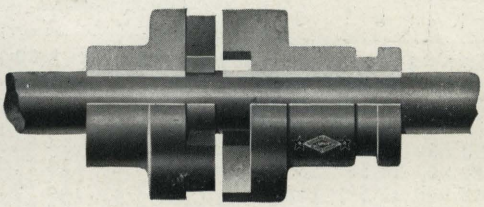
SPECIAL FORGED SHAFT FOR MAIN PULLEY ON LINE SHAFT



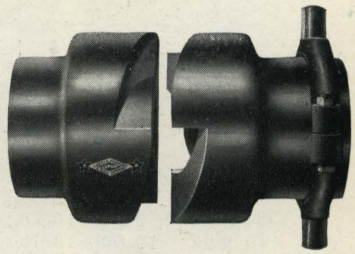
SAFETY FLANGED FACE COUPLING



SAFETY SET COLLARS AND CLAMP COUPLINGS



JAW CLUTCH COUPLING
Square—Jaws Cast or Planed



JAW CLUTCH COUPLING
Spiral—Right or Left Hand

PRICE LIST

Size, Inches	SHAFTING			COUPLINGS				COLLARS		Size, Inches
	Weight, Per Foot	Price Per Foot	Price K. S. Per Foot	Price Plain Face	Plain Face Fitted	Price Clamp Coupling	Price Jaw Coupling	Price Solid	Price Split	
1 3/16	3.77	$0.21	$0.20	$ 8.00	$12.50	.....	.....	$ 0.80	$ 1.25	1 3/16
1 7/16	5.52	.31	.24	8.00	12.50	$ 7.00	$11.50	1.00	1.50	1 7/16
1 11/16	7.61	.38	.24	9.00	14.00	7.00	12.50	1.20	1.80	1 11/16
1 15/16	10.03	.51	.30	9.00	14.00	8.00	14.50	1.40	2.10	1 15/16
2 3/16	12.80	.64	.40	13.00	18.75	9.00	18.75	1.80	2.40	2 3/16
2 7/16	15.90	.80	.40	13.00	18.75	10.75	18.75	2.00	2.70	2 7/16
2 11/16	19.31	.97	.40	18.00	24.50	13.00	24.15	2.20	3.15	2 11/16
2 15/16	23.03	1.16	.50	18.00	24.50	16.50	24.15	2.40	3.60	2 15/16
3 3/16	27.16	1.43	.50	26.00	33.75	20.00	30.50	2.75	4.05	3 3/16
3 7/16	31.56	1.66	.60	26.00	33.75	24.00	30.50	3.00	4.50	3 7/16
3 15/16	41.04	2.27	.70	33.00	42.00	32.00	36.75	3.60	5.40	3 15/16
4 7/16	52.62	3.16	.90	44.00	54.00	42.00	.....	4.70	7.05	4 7/16
4 15/16	65.50	4.26	1.20	59.00	70.00	54.00	.....	5.90	8.85	4 15/16
5 7/16	79.00	5.53	1.50	72.00	84.00	69.00	.....	6.50	10.80	5 7/16
5 15/16	94.14	7.03	2.00	88.00	100.00	78.00	.....	7.20	12.90	5 15/16

Note—We carry all above sizes in stock; also ¼ to 1 3/16 advancing by 1/16. We can furnish intermediate sizes on short notice. Prices per foot are for stock lengths 12, 14, 16, 20 and 24 feet.

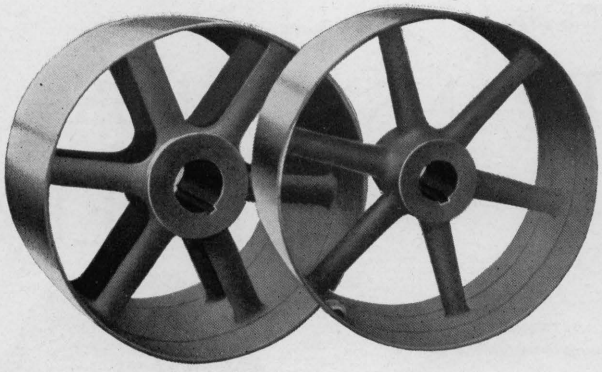
Unless specified Keys are not furnished with Couplings, Pulleys, etc. When parts are fitted to Shafting Keys are furnished and extra charge made for fitting.

Levers for Shifting Jaw Couplings are not included in above price, but will be furnished for $6.00 for 1 7/16 size; for each size larger, add $1.00 to list price.

Reducing Coupling takes same prices as largest size.

For Dimensions Key Seats See Page 63.

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MACHINE MOULDED PULLEYS

SOLID, SPLIT, CLAMP HUB and DOUBLE ARM

Bored, Turned and Balanced,
Key Seated or Set Screw

We do not make Single Belt Pulleys. All our Patterns are for Double Belt. Especially made for Saw Mill Service.

STANDARD DOUBLE BELT LIST

Diam. in Inches.	FACE IN INCHES													
	5	6	7	8	9	10	11	12	14	16	18	20	22	24
10	$ 4.45	$ 5.00	$ 5.55	$ 6.15	$ 6.80	$ 7.50	$ 8.20	$ 8.95	.....	.....	.....	.....	.....	.....
12	5.15	5.80	6.45	7.15	7.85	8.60	9.35	10.15	.....	.....	.....	.....	.....	.....
14	5.95	6.70	7.50	8.30	9.10	9.95	10.80	11.70	.....	.....	.....	.....	.....	.....
16	6.60	7.45	8.50	9.20	10.10	11.05	12.00	13.00	.....	.....	.....	.....	.....	.....
18	7.60	8.55	9.55	10.55	11.60	12.65	13.75	14.85	.....	.....	.....	.....	.....	.....
20	8.55	9.65	10.80	11.95	13.15	14.35	15.60	16.85	$19.45	$22.15	$24.95	.....	.....	.....
22	9.50	10.75	12.00	13.30	14.60	15.95	17.30	18.70	21.55	24.50	27.55	$30.70	.....	.....
24	10.60	12.00	13.40	14.85	16.30	17.80	19.30	20.85	24.00	27.25	30.60	34.05	.....	.....
26	11.80	13.35	14.90	16.50	18.10	19.75	21.40	23.10	26.55	30.10	33.75	37.50	$41.35	.....
28	13.10	14.80	16.50	18.25	20.00	21.80	23.60	25.45	29.20	33.05	36.90	40.95	45.10	.....
30	14.45	16.30	18.15	20.05	21.95	23.90	25.85	27.85	31.90	36.00	40.25	44.60	49.05	.....
32	15.85	17.85	19.85	21.90	23.95	26.05	28.15	30.30	34.70	39.20	43.80	48.50	53.30	.....
34	17.30	19.45	21.60	23.80	26.05	28.30	30.60	32.90	37.60	42.40	47.30	52.30	57.40	$62.65
36	18.85	21.15	23.50	25.85	28.25	30.70	33.15	35.65	40.70	45.85	51.10	56.45	61.90	67.40
38	20.50	23.00	25.55	28.10	30.70	33.30	35.95	38.60	44.00	49.50	55.10	60.80	66.55	72.35
40	22.15	24.80	27.45	30.10	32.80	33.50	38.20	40.95	46.45	52.05	57.75	63.60	69.35	75.35
42	23.85	26.65	29.45	32.25	35.10	37.95	40.80	43.70	49.50	55.40	61.35	67.35	73.35	79.40
44	25.65	28.65	31.65	34.65	37.70	40.75	43.80	46.85	53.05	59.25	65.55	71.80	78.25	84.75
46	27.50	30.65	33.85	37.05	40.25	43.45	46.70	49.95	56.50	63.10	69.80	76.55	83.40	90.30
48	29.40	32.75	36.10	39.45	42.85	46.25	49.65	53.10	60.00	67.00	74.10	81.30	88.60	95.95
50	31.40	34.90	38.40	41.95	45.50	49.10	52.70	56.35	63.70	71.15	78.70	86.35	94.15	102.05
52	33.50	37.25	41.00	44.75	48.55	52.35	56.20	60.05	67.85	75.75	83.75	91.85	100.00	108.20
54	35.65	39.60	43.55	47.55	51.55	55.60	59.65	63.75	72.00	80.35	88.80	97.35	106.00	114.70
56	37.90	42.05	46.20	50.40	54.65	58.95	63.25	67.50	76.25	85.10	94.05	103.10	112.25	121.45
58	40.25	44.60	49.00	53.45	57.95	62.45	67.00	71.55	80.75	90.05	99.45	108.95	118.60	128.45
60	42.65	47.25	51.85	56.50	61.20	65.90	70.65	75.45	85.15	95.00	105.05	115.20	125.55	136.00
62	45.15	49.85	54.60	59.40	64.25	69.15	74.10	79.10	89.25	99.60	110.15	120.90	131.85	142.95
64	.....	52.65	57.50	62.40	67.35	72.35	77.40	82.50	92.85	103.40	114.15	125.10	136.30	147.90
66	.....	55.55	60.50	65.50	70.55	75.65	80.80	86.00	96.55	107.30	118.25	129.45	141.05	152.95
68	.....	58.55	63.60	68.70	73.85	79.05	84.30	89.60	100.35	111.30	122.50	133.95	145.75	157.95
70	.....	61.50	66.70	71.95	77.85	82.65	88.10	93.60	104.75	116.10	127.75	139.75	152.15	164.90
72	.....	64.55	69.90	75.30	80.75	86.25	91.80	97.40	108.85	120.65	132.85	145.45	158.45	171.95

Pulleys under 10 inch take same list price as 10 inch.

Intermediate widths of face take next highest list price.

Prices on Pulleys over 72 inches on application.

Extra Heavy Pulleys will be made at higher prices.

All Pulleys Crown Face and Key Seated unless otherwise ordered.

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MACHINE MOULDED PULLEYS

ADDITIONAL PRICE FOR CLAMP HUB AND SPLIT PULLEYS, FLANGED PULLEYS MAXIMUM BORES, ETC.

Diam. Pulley, Inches.	Maximum Bore.	Add to List for each ½ Larger Bore.	Add for Split Pulley and Clamp Hub.	Add for Flange Pulley, Both Sides.	Diam. Pulley, Inches.	Maximum Bore.	Add to List for each ½ Larger Bore.	Add for Split Pulley and Clamp Hub.	Add for Flange Pulley, Both Sides.
6 to 8	1 15/16	30%	$ 3.00	$ 6.00	36 to 40	4 7/16	5%	$18.00	.....
10 to 14	2 7/16	20%	4.00	8.00	42 to 46	4 15/16	5%	25.00	.....
16 to 20	2 15/16	15%	6.00	11.00	48 to 60	5 7/16	5%	35.00	.....
22 to 24	3 7/16	10%	9.00	18.00	62 to 72	5 15/16	5%	48.00	.....
26 to 34	3 15/16	5%	12.00	20.00					

STANDARD DOUBLE ARM PULLEY LIST

Diam. in Inches.	FACE IN INCHES										
	20	22	24	26	28	30	32	34	36	38	40
36	64.30	69.45	75.70	82.00	88.45	94.95					
38	68.75	74.80	81.45	88.25	95.15	102.05	109.00	115.95	123.00	130.05	137.10
40	73.25	80.15	87.30	94.55	101.90	109.10	116.60	124.00	131.35	138.80	146.20
42	77.75	85.45	93.15	100.85	108.60	116.40	124.20	131.95	139.70	147.50	155.20
44	83.45	91.40	99.65	107.85	115.10	124.45	132.80	141.10	149.40	157.80	166.15
46	89.00	97.50	106.15	114.90	123.70	132.50	141.45	150.30	159.15	168.10	177.00
48	94.65	103.60	112.70	121.90	131.25	140.65	150.05	159.50	168.95	178.35	187.80
50	100.50	110.50	119.70	129.50	139.45	149.40	158.80	169.50	179.50	189.65	199.85
52	106.40	116.50	126.85	137.20	147.65	158.20	168.80	179.50	190.10	200.90	211.70
54	112.35	123.05	133.95	144.90	155.95	167.10	178.25	189.40	200.65	212.95	223.35
56	119.75	130.05	141.60	153.20	164.70	176.50	188.25	199.85	211.60	223.45	235.30
58	125.20	137.15	149.25	161.45	173.55	185.95	198.25	210.35	222.50	234.95	247.25
60	131.60	144.25	157.00	169.80	182.60	195.40	208.15	220.90	233.60	246.55	259.20
62	138.40	150.60	164.70	178.40	191.85	205.30	218.50	232.00	245.50	258.55	272.30
64	145.20	159.05	173.55	187.05	201.15	215.20	228.55	243.25	257.35	271.30	285.30
66	152.05	166.50	181.10	195.70	210.40	225.05	239.80	254.50	269.20	283.95	298.65
78	159.10	174.25	189.75	204.75	220.05	235.30	250.70	266.00	281.30	296.70	312.00
70	166.25	182.00	198.40	213.85	229.70	245.65	261.60	277.50	293.40	309.45	325.35
72	173.20	189.75	206.40	222.90	239.45	256.00	272.55	289.10	305.65	322.25	338.80

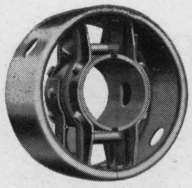
KEYSEATS AND FEATHERSEATS

	STANDARD KEYSEATS		STANDARD FEATHERSEATS			
Diameter of Shaft.	Width of Key Seat.	Depth of Seat in Shaft.	Depth of Seat in Hub. Deep Side.	Width of Feather.	Depth of Seat in Shaft.	Depth of Seat in Hub.
¾ to 1 1/8	¼	1/16	⅛	¼	⅛	3/16
1 3/16 to 1 3/8	⅜	3/32	3/16	⅜	5/32	¼
1 7/16 to 1 7/8	½	⅛	3/16	½	¼	5/16
1 15/16 to 2 3/8	9/16	¼	¼	9/16	5/16	⅜
2 7/16 to 2 7/8	11/16	5/32	5/16	11/16	⅜	7/16
2 15/16 to 3 ¼	13/16	3/16	⅜	13/16	⅜	½
3 ⅜ to 3 ¾	⅞	¼	⅜	⅞	7/16	½
3 ⅞ to 4 ¼	1	¼	7/16	1	7/16	9/16
4 ⅜ to 4 ¾	1 1/16	5/16	7/16	1 1/16	7/16	5/8
4 ⅞ to 5 ⅛	1 3/16	5/16	½	1 3/16	½	5/8
5 ¼ to 5 ⅝	1 ¼	⅜	½	1 ¼	½	11/16
5 ¾ to 6 ⅛	1 ⅜	⅜	⅝	1 ⅜	½	11/16

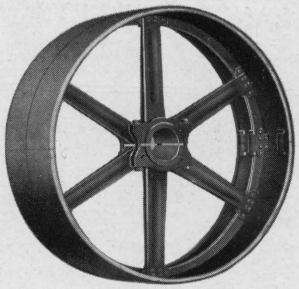
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"American" STEEL SPLIT Pulleys

ARE AS LIGHT AS IS CONSISTENT WITH STRENGTH AND SAFETY



No. 1.
Design 3 in., 4 in., and 5 in. pulleys.



No. 2.
Design 6 in. to 24 in. pulleys.



One bushing with each pulley at no extra charge.

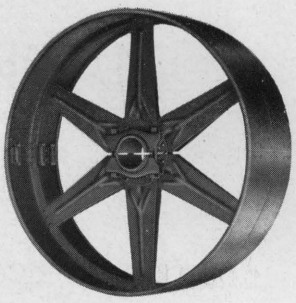
The "American" consists of a light rim of one-ply steel, made exceedingly stiff by an interior flange to which the arms are attached. Heavy rolled beads at the edges of the face likewise add materially to the strength of the rim Flat arms with narrow edges cut the atmosphere. They converge from near the extremities of the hub to the central flange of the rim, thus making an "A" frame of great strength.

A tight-clamping all-steel hub, slightly compressible, grips the shaft with such force that key ways and set screws are rendered practically unnecessary.

"American" Pulleys are quickly and easily installed without shaft stripping, and may be bushed down to fit varying sizes of shafts.

Because of their lightness, trueness, balance, and belt-gripping qualities, "American" Pulleys actually **save** power.

Furnished in crown, or straight faces. Special bushings for loose pulleys.



No. 3.
Design 25 in. to 42 in. pulleys



No. 4.
Design 44 in. to 60 in. pulleys.

"AMERICAN" PRICE LIST

Diam	2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"
3	$2 28	$2 40	$2 52																	
4	2.40	2.52	2 64	$2 75																
5	2.52	2.64	2 75	2 87																
6	3.15	3 30	3.45	3.75	$4.05															
7	3 22	3 38	3.60	3 90	4 20															
8	3.30	3.45	3 75	4 05	4 35	$4 95	$5 60													
9	3.38	3 60	3.90	4 20	4 50	5 10	5.75													
10	3 45	3.75	4 05	4 35	4 65	5.25	5.90	$6.45												
11	3.65	3.90	4 20	4 50	4 80	5.40	6.00	6 90												
12	3.90	4 20	4.63	4 80	5 33	5 78	6.45	7 65												
13	4 05	4 35	4 80	5.20	5.62	6 43	7 20	8.40												
14	4 20	4 50	5.20	5 65	6 15	7.05	8 03	9.00												
15	4 35	4 65	5 45	5 80	6 55	7 65	8.80	9 75												
16	4 50	4 95	5.75	6.10	6.90	8 25	9 45	10 50												
17		5 25	6.00	6 50	7 28	8 78	10 05	11 25												
18		5 55	6 38	7 00	7 65	9 30	10.65	12.00												
19		5.80	6.75	7 50	8.25	10.13	11.25	12.90												
20		6.00	7 50	8 10	9.00	10 73	12 00	14 25					DOUBLE ARM				TRIPLE ARM			
21		6.25	8.00	8.90	9.60	11.25	12.98	15.60	$18 00	$20.55										
22		6.50	8.55	9.50	10.28	12 00	14 10	16.80	19.50	21.30										
23		7 00	8.70	9.90	10 58	12.60	14.75	18 00	21 00	24.30										
24		7 50	8 90	10.00	10 95	13.20	15 68	19 05	22.65	26.25	$29.92	$34.50								
25			9.20		11 45	13 80	16 40	20.20	24 50	29.25	35.05	39.50								
26			9.55		11.95	14 40	17 10	21 30	26.25	31 20	36.15	41 40								
28			10.80		12.90	15 45	18.15	22.90	28.50	34 50	40.35	46.35								
30			12.00		14.10	17.25	19.90	24 75	31 50	38 10	45.00	49 50	$55.50	$61.50	$67.50	$74.25	$81.67			
32			13.20		15.45	19.35	22.50	26.86	34.15	41.65	48.37	54.37	60.37	66.37	72.37	79.60	87.56	$96.31		
34			14.40		17.25	21.75	25.50	30 00	36.75	45.00	51.75	57.45	63.75	69.75	75.00	82.50	90.75	99.82		
36			15.90		19 50	24 00	28.65	33.75	39.75	48 60	55.50	61.50	67.50	73.50	79.50	87.45	96.19	105.80	$116.38	$128.01
38			19.50		21.75	26.40	31.05	37.15	42.75	51.75	58.87	64 87	70.87	76.87	82.87	91.15	100.26	110.28	121.30	133.43
40			21 00		24 00	28 50	33.75	40.15	46.50	55.15	62.25	69.75	77 25	84.75	92.55	101.80	111 98	123.17	135.48	149.02
42			23.25		26.25	32.25	37.50	43.50	50.25	57.75	65 62	73.12	80.62	88.12	95.62	105.18	115.69	127.25	139.97	153.96
44					29 25	35 62	41.25	47.25	54.00	61.12	69.00	78.00	87.00	96.00	105.00	115.50	127.05	139.75	153.72	169.09
46					33.00	39 00	45.00	50.25	57.75	64.50	72.00	81.00	90.00	99.00	108.00	118 80	130.68	143.74	158.11	173.92
48					36.75	42.00	48.75	54.00	61.50	67.50	75.00	87.00	99.00	111.00	123.00	135.30	148.83	163.71	180.08	198.08
50					40.87	47.25	53.25	58.50	66.00	75 00	84.00	96.00	108.00	120.00	132.00	145.20	159.72	175.69	193.25	212.57
52					46.50	51.00	57.00	63.00	69.00	78.75	90.00	102.00	114 00	126.00	138.00	151.80	166.98	183 67	202.03	222.23
54					50.25	56.25	61.50	67.50	74.25	83.25	96.75	108.75	120.75	132.75	144.75	159.22	175.14	192.65	211.91	233.10
56					54.00	60.75	66.75	72.75	80.25	90.00	104.25	119.25	134.25	149.25	164.25	180.67	198.73	218.60	240.46	264.50
58					60.00	65.25	71.25	78.37	86.62	96.37	110.62	125.62	140 62	155.62	170.62	187.68	206.44	227.08	249.78	274.75
60					63.75	70.50	77.25	84.00	93.00	102.75	117.00	132.00	147.00	162.00	177.00	194.70	214.17	235.58	259.13	285:04

For pulleys 14 in. to 24 in. diameter inclusive, when made on $4\frac{7}{16}$ in. bore, add $2.92.

For pulleys 25 in. to 30 in. diameter inclusive, 4 in. to 8 in. face inclusive, when made on $4\frac{7}{16}$ in. bore, add $3.65.

For pulleys 30 in. to 48 in. diameter inclusive, up to and including 16 in. face, when made on 6 in. bore, add $8.77.

For pulleys 30 in. to 48 in. diameter inclusive, with faces wider than 16 in., when made on 6 in. bore, add $13.15.

For pulleys 50 in. to 60 in. diameter inclusive, up to and including 16 in. face, when made on 6 in. bore, add $5.84.

For pulleys 50 in. to 60 in. diameter inclusive, with faces wider than 16 in., when made on 6 in. bore, add $8.77.

For key-seating, add 75 cents for pulleys to 16 in. face inclusive, add $1.50 for pulleys with faces wider than 16 in.

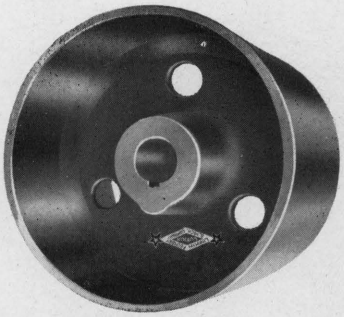
For intermediate sizes, not listed, prices on application.

For single and double flange pulleys, prices on application.

SUBJECT TO DISCOUNT.

To take care of the change of slight inequalities in the thickness of rolled steel, which might throw a large pulley out of balance, all "American" Pulleys above 24 in. diameter are now balanced before shipment.

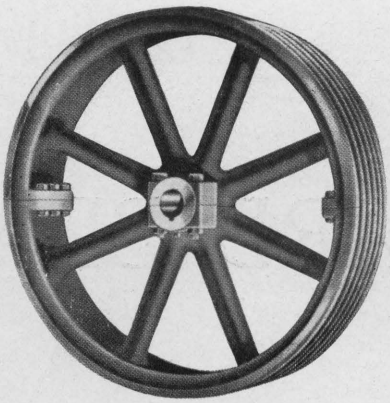
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WEB CENTER PULLEYS

For Tighteners and Mandrels.

Prices on Application.

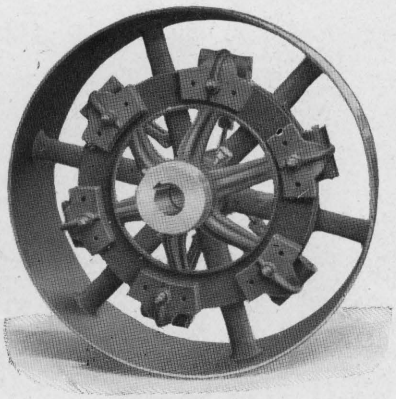


ROPE SHEAVES

Solid or Split.

Any Number of Grooves.

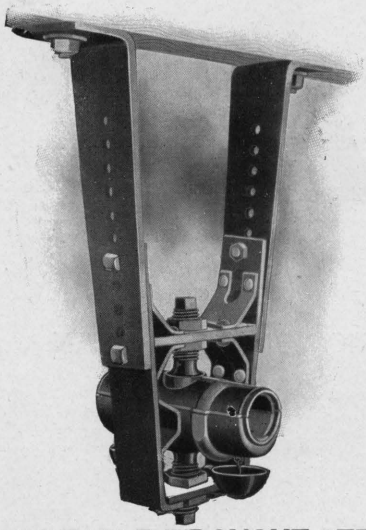
Prices on Application.



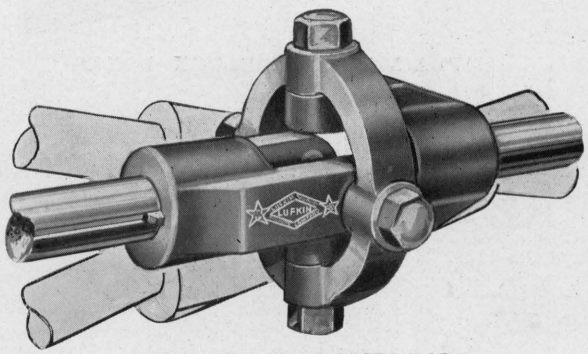
DIAMOND

CLUTCH PULLEYS

Prices on Application.

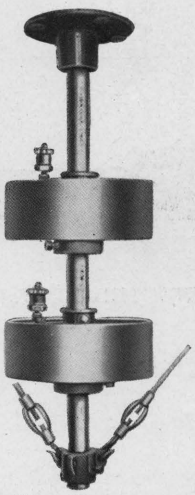


ADJUSTABLE WROUGHT STEEL
DROP HANGERS

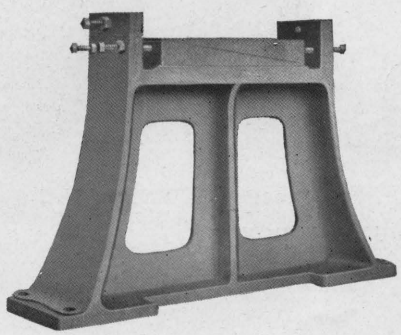


UNIVERSAL COUPLINGS
Of All Sizes

Prices on Application.



We build Mule Stands for any size belt. Illustration shows rig usually used under filing room floor.

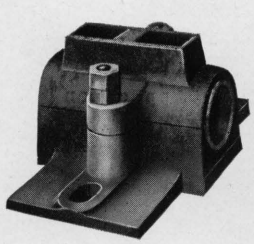


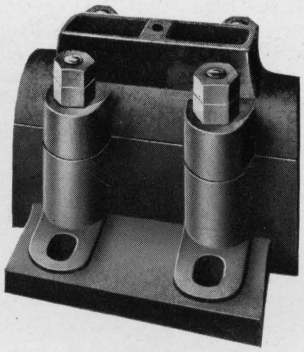
We have full line of patterns for Stands, Wall Brackets for Shaft Transmission.

Prices on Application.

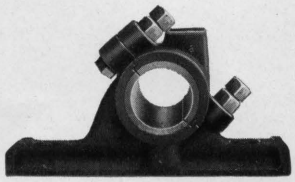
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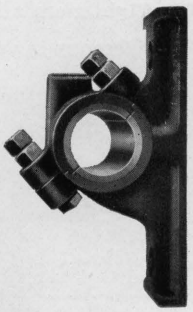
STANDARD BEARINGS





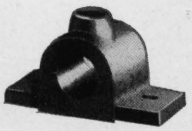
PLAIN PILLOW BLOCK BOXES

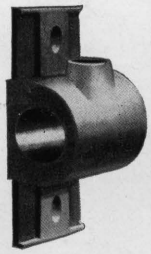




ANGLE BRACKET

ALL OF THE ABOVE FURNISHED IN WICK OILING PATTERN

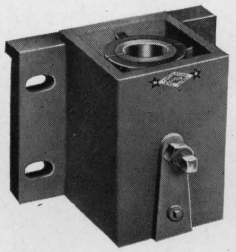




Flat Bracket

SOLID JOURNAL BOXES

Bored or Babbitted



SELF-OILING STEP BOX



CONNECTED BOXES FOR GEARS

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STANDARD BEARINGS

STANDARD LIST

PLAIN PILLOW BLOCK AND WICK OILING BOXES

Size Shaft.	Length Journal.	Backing.	Price Plain Box.	Price Wick-Oil Box.
1 3/16	4	1 1/2	$ 2.40	$ 3.50
1 7/16	4	1 1/2	2.80	3.90
1 11/16	5	1 3/4	3.20	4.30
1 15/16	4	2	3.70	5.00
1 15/16	6	2	3.90	5.30
1 15/16	8	2	4.20	5.60
2 3/16	4	2	4.40	5.80
2 3/16	6	2	4.60	6.00
2 3/16	8	2 1/4	4.80	6.20
2 7/16	6	2 1/4	5.10	6.40
2 7/16	8	2 1/4	5.30	6.60
2 7/16	10	2 1/2	5.50	6.80
2 11/16	8	2 3/4	6.20	7.30
2 11/16	10	2 3/4	6.70	7.50
2 15/16	6	2 1/2	7.10	8.00
2 15/16	8	2 1/2	7.60	9.00
2 15/16	10	3	8.10	9.50
3 3/16	6	2 3/4	8.50	10.00
3 3/16	8	2 3/4	9.00	10.50
3 3/16	10	3 1/4	9.40	11.00
3 7/16	8	.....	9.90	11.50
3 7/16	10	.....	10.40	12.00
3 7/16	12	3 1/2	10.90	12.50
3 11/16	10	3 1/2	11.70	13.00
3 15/16	10	3 1/2	13.10	14.50
3 15/16	12	3 3/4	13.60	15.00
3 15/16	12	4	13.60	15.00
4 7/16	10	4 1/4	16.10	18.00
4 7/16	12	4 3/4 W	17.30	20.00
4 7/16	14	4 1/4	18.10	21.00
4 15/16	14	6	22.00	25.00
4 15/16	16	6W	28.00	31.00
5 7/16	12	7	26.00	30.00
5 7/16	16	7	30.00	35.00
5 15/16	14	8	38.00	42.00
5 15/16	18	8	42.00	46.00

BRACKET BOXES

Size Shaft.	Length Journal.	Backing.	Price 45° Bracket Box.	Price Wick-Oil 45° Bracket Box.
1 15/16	6	3	$ 4.90	$ 4.90
2 3/16	7	3 1/4	5.70	7.00
2 7/16	7	3 1/2	6.50	8.00
2 15/16	8	4	9.10	10.50
3 3/16	8	4	10.70	12.00
3 7/16	8	4	12.40	15.00
3 15/16	10	4 1/2	16.00	18.00
4 7/16	14	5 1/2	21.00	24.00
4 15/16	14	6 1/2	28.00	31.00
5 7/16	16	7	32.00	35.00
5 15/16	16	7	40.00	45.00

SOLID BOXES

Size	Length	Backing.	Flat.	Bracket.
1 11/16	3	2	$ 1.40	$ 1.50
1 11/16	4	2 3/4	1.60	1.70
1 15/16	3	1 3/4	1.60	1.70
1 15/16	4	1 7/8	1.80	1.90
1 15/16	6	1 7/8	2.00	2.20
2 3/16	4	2	2.00	2.30
2 3/16	6	2	2.20	2.40
2 3/16	8	3	2.40	2.60
2 7/16	6	2	2.40	2.60
2 7/16	8	3	2.60	2.80
2 15/16	4	2 3/4	2.60	2.80
2 15/16	6	2 3/4	2.80	3.00
2 15/16	8	2 3/4	3.20	3.40
3 7/16	4	2 3/4	3.00	3.20
3 7/16	8	3 3/4	3.70	3.90

SELF-OILING STEP BOX

Size	Length	Price
1 15/16	6	$23.00
2 3/16	7	26.00
2 7/16	7	29.50
2 15/16	8	36.00
3 7/16	8	45.00
3 15/16	10	60.00

NOTES ON BOXES

All Journals are lined with our "Transmission" Metal, well known in the trade.

All Boxes are dressed on bottoms, and one or both ends faced.

Bracket Boxes on Line Shaft all have same backing regardless of size.

Adjustable Sole Plates can be furnished at an additional charge.

Large Boxes can be provided with Water Circulation if ordered.

All Boxes have Jam Nuts.

Wick-Oiling Boxes have Oil Chambers covered.

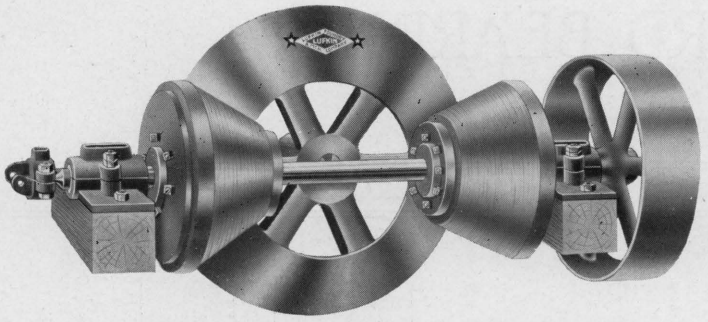
Boxes are tapped for Compression Grease Cups when desired at slight extra cost.

We have a large assortment of Special Boxes for all purposes. Write us if this Bulletin does not show what you want.

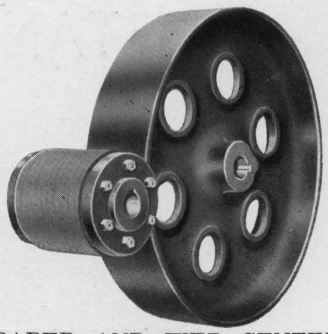
We make Connected Boxes for Gears; also Frames for Bevel and Mortise Gears.

The Self-Oiling Step Box shown is adjustable—has Steel Step in bottom, and is kept full of oil. Just the thing for Corner Belt Idlers or Mule Drive.

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BEVEL IRON AND PAPER FRICTIONS



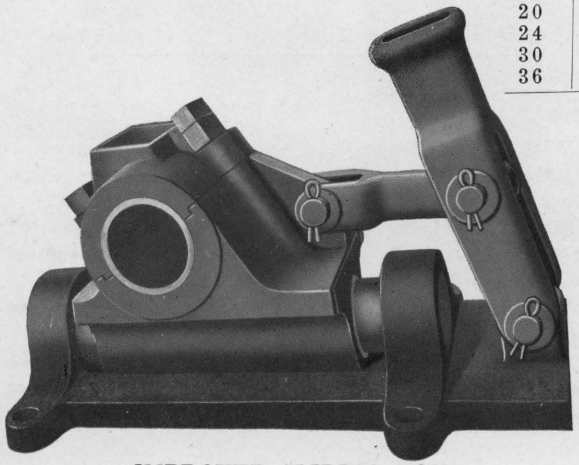
SPUR PAPER AND WEB CENTER IRON FRICTIONS

PRICE LIST

	Diameter and Face	List Price	Ratio
Iron,	30x 6	$36.00	
Paper,	10x 6	32.00	3 to 1
Iron,	36x 8	48.00	
Paper,	12x 8	40.00	3 to 1
Iron,	42x10	65.00	
Paper,	14x10	54.00	3 to 1
Iron,	48x12	84.00	
Paper,	16x12	80.00	3 to 1

PRICE LIST MITRE PAPER AND IRON FRICTIONS

Diameter of Face	Price of Iron	Price of Paper
16x 5	$ 16.50	$ 49.50
24x 5	25.50	62.50
24x 9	40.00	82.75
28x 6	35.25	73.50
30x12	54.25	160.00
32x10	52.00	143.00
36x12	66.75	195.00
42x12	83.50	235.00
44x15	101.00	300.00
48x15	125.00	340.00



IMPROVED SLIDING BOX

PRICE LIST WEB CENTER FRICTIONS

Diam. in Inches	FACE IN INCHES							
	4	6	8	10	12	14	16	18
12	$10.40	$15.70	$20.90	$26.20	$31.40	.....	.....	.....
14	12.20	18.30	24.40	30.50	36.60	.....	.....	.....
16	13.90	20.90	27.90	34.90	41.90	.....	.....	.....
18	15.70	23.50	31.40	39.20	47.10	.....	.....	.....
20	17.40	20.00	34.90	43.60	52.30	.....	.....	.....
22	19.20	28.80	38.40	48.00	57.60	.....	.....	.....
24	20.90	31.40	42.00	52.30	62.80	.....	.....	.....
28	24.40	36.70	48.80	61.00	73.30	$85.50	.....	.....
30	26.20	39.20	52.30	65.40	78.50	91.60	.....	.....
32	27.90	42.00	55.80	69.80	83.70	97.70	.....	.....
36	31.40	47.10	62.80	78.50	94.10	109.90	125.60	.....
40	34.90	52.30	69.80	87.20	104.70	126.10	139.60	.....
44	38.40	57.60	76.80	96.00	115.10	134.30	153.50	.....
48	.....	62.90	83.90	104.90	125.80	146.80	167.80	188.80
52	.....	68.00	90.70	113.40	136.10	158.80	181.40	204.10
56	.....	73.30	97.70	122.10	146.50	170.90	195.40	219.80
60	.....	78.50	104.70	130.90	157.10	183.30	209.40	235.60

PRICE LIST PAPER SPUR FRICTIONS

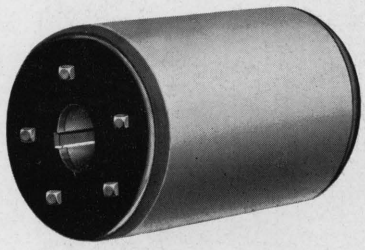
Diam. in Inches	FACE IN INCHES							
	5	7	9	11	13	15	17	19
6	$19.50	$22.50	$26.00	.....	.....	.....	.....	.....
7	22.75	26.25	30.25	.....	.....	.....	.....	.....
8	25.75	29.50	32.50	$37.50	$43.25	.....	.....	.....
9	28.50	32.75	37.75	43.50	50.00	.....	.....	.....
10	32.25	37.00	42.50	49.00	56.25	64.75	74.50	85.50
12	39.75	45.75	52.50	59.75	68.75	79.00	91.00	104.75
14	45.00	51.75	59.50	68.50	78.75	90.50	104.00	119.50
16	.....	61.00	70.00	80.50	92.50	106.50	122.50	141.00
18	.....	68.75	79.00	91.00	104.75	120.50	138.50	159.25
20	.....	.....	88.00	101.25	116.50	134.00	154.00	177.00
24	.....	.....	.....	124.00	142.50	164.00	188.50	216.75
30	.....	.....	.....	160.00	184.00	211.50	243.25	279.75
36	.....	.....	.....	195.00	224.25	258.00	296.75	341.25

PRICE LIST IMPROVED SLIDING BOX

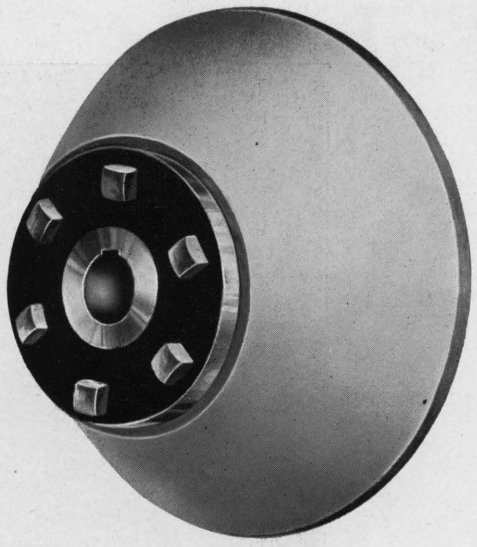
Size of Shaft	Length of Box	List Price
$1\frac{15}{16}$	6	$12.00
$2\frac{3}{16}$	7	14.00
$2\frac{7}{16}$	8	16.40
$2\frac{11}{16}$	8	19.70
$2\frac{15}{16}$	9	21.40
$3\frac{3}{16}$	10	23.00
$3\frac{7}{16}$	11	25.75
$3\frac{15}{16}$	12	31.00

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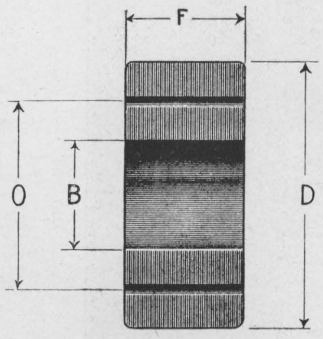
Tarred or Leather Fiber Frictions

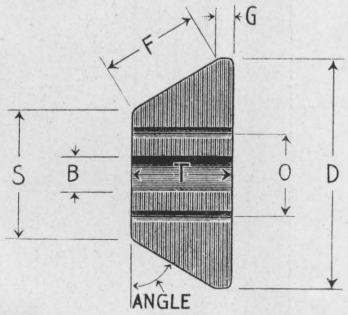


SPUR FRICTION
WITH PATENT FIBER FILLER



MITRE OR BEVEL FRICTION
WITH PATENT FIBER FILLER





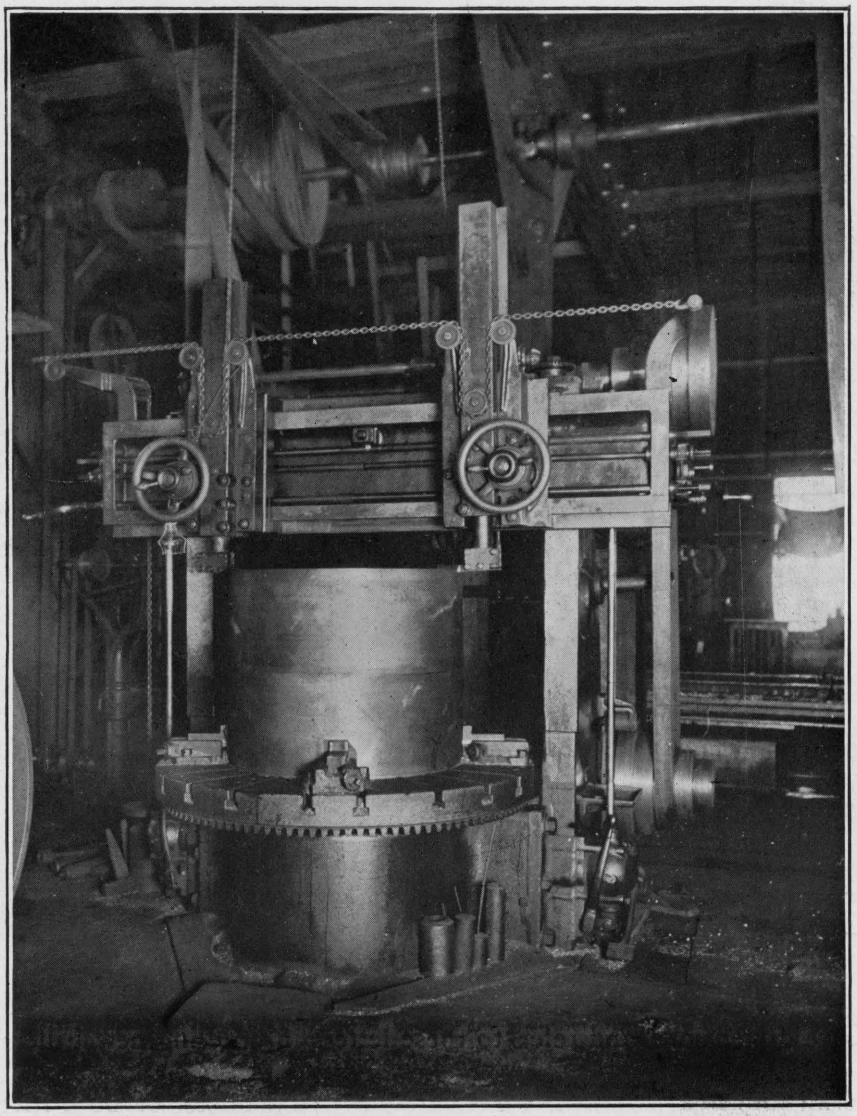
Give dimensions and refer to these letters in ordering new Fillers

In ordering Bevel Frictions or Fillers always give diameter of both frictions.

Patent Fiber Frictions

All our Standard Frictions are furnished with Tarred or Leather Fiber Fillers, more durable and less costly than "made-up" friction board frictions, with the advantage of easy replacement. Standard Fillers always in stock. Special Fillers to fit any size Friction on short notice.

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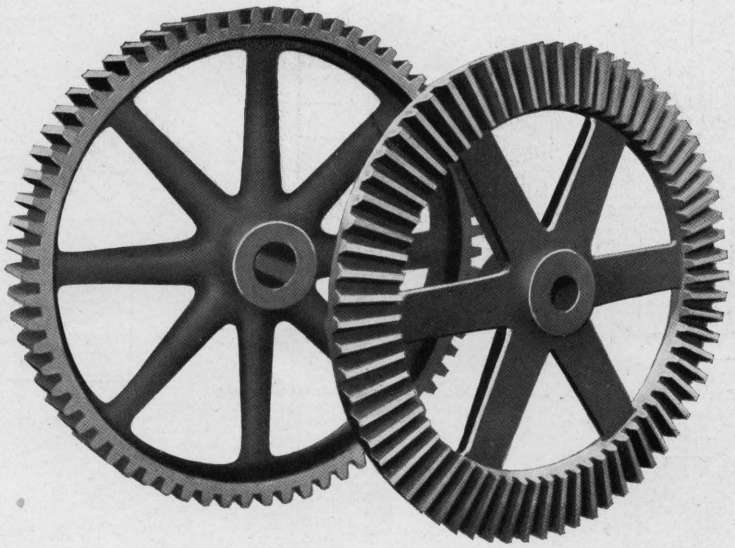


LARGE BORING MILL

Our facilities for handling large work are unsurpassed. All our tools are modern and motor driven, insuring greatest efficiency and accuracy.

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STANDARD GEAR LIST



The list on the following page (73) shows our STANDARD Spur, Bevel and Mitre Gears. These are all in correct proportion in design to the pitch, according to the best practice. As a general rule these gears will be heavier than that used for "factory" work and will be found very satisfactory in saw mill service.

List of SPECIAL GEARS are given on pages 74 and 75, the accumulation of years in furnishing gears for quick repairs on saw and planing mill machinery. Most any gear on the usual run of lumber machinery will be found here in case of repairs. They can be furnished promptly.



CONNECTED BOXES FOR GEARS

We have a full line of connected boxes for Spur and Bevel Gears.

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HOW TO MEASURE GEARS

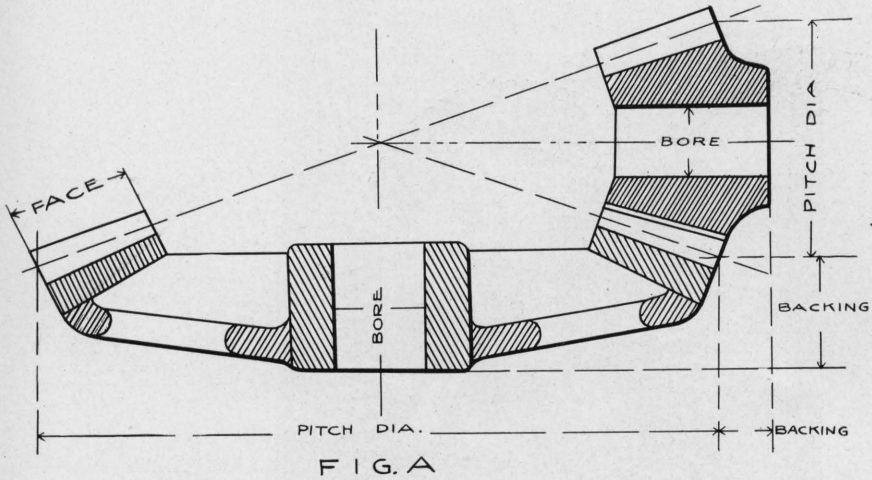


FIG. A
BEVEL GEAR

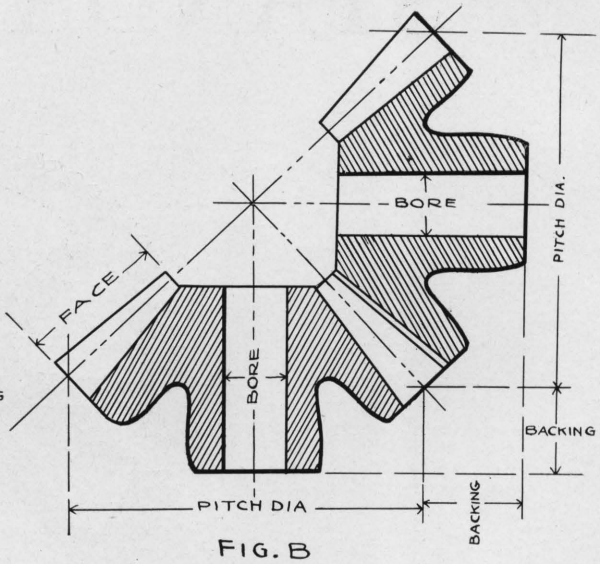


FIG. B
MITRE GEAR

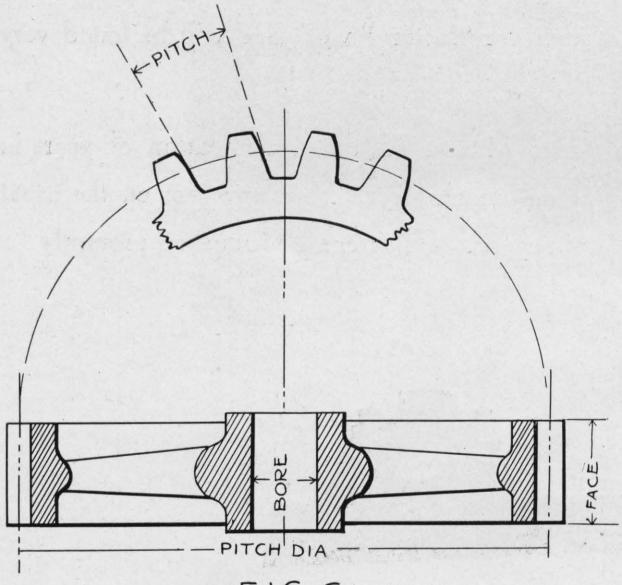


FIG. C.
SPUR GEAR

In ordering gears always give the following information in rotation:

Number of teeth in gear.

Pitch—measure space of teeth on pitch line side of one tooth to side of another.

Face or length of tooth—if Bevel gear always give number of teeth in pinion, or gear.

Backing—on Bevel or Mitre gears measure as indicated in cuts.

Give bore and keyseat.

The above is not necessary when ordering our gears, simply give pattern number. All our gears are in class F.

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STANDARD GEARS

STANDARD SPUR GEARS

Pattern Number	Number of Teeth	Face	Pitch Diameter	Length of Hub	Price
		1 Inch Pitch			
125F	12	2 ½	3.86	3 ¼	$ 3.85
318F	13	3	4.178	4	4.00
134F	19	2 ¼	6.07	2 ¼	4.60
475F	20	2	6.39	3 ½	4.70
133F	22	2 ½	7.02	3	4.75
515F	23	2	7.34	3	4.80
516F	34	2	10.83	2 ½	7.00
547F	36	1 ¾	11.47	2 ¼	7.40
548F	42	1 ¾	13.38	2 ¼	8.55
317F	100	3	31.83	4	25.00
		1 ¼ Inch Pitch			
17F	11	3 ½	4.43	4 ¼	5.80
124F	13	4 ⅝	5.22	5 ¾	6.25
392F	15	2 ¾	6.01	5	6.80
123F	20	3	7.99	3 ½	8.25
122F	25	3	9.97	3 ½	9.90
16F	42	3	16.73	3 ¼	14.80
		1 ½ Inch Pitch			
121F	12	4 ⅜	5.79	6	9.70
127F	13	4 ½	6.26	6 ¼	10.00
404F	14	4 ½	6.74	5 ¾	10.60
126F	15	5 ½	7.21	7	11.00
120F	30	3 ½	14.35	4	17.60
622F	45	3 ¾	21.50	4	28.10
45F	54	3 ¾	25.79	4 ¼	34.40
44F	75	5	35.82	6	47.60
403F	87	4 ½	41.56	6	54.80
		1 ⅝ Inch Pitch			
709F	13	4 ⅜	6.79	.....	10.00
853F	70	4	36.22	.....	55.50
		1 ¾ Inch Pitch			
666F	13	5	8.41	7 ¼	15.30
665F	75	5	41.79	7	55.45
		2 Inch Pitch			
329F	13	5 ½	8.35	7 ½	18.65
328F	56	5	35.66	6 ½	56.60
		2 ¼ Inch Pitch			
292F	12	5	8.69	6 ¼	22.00
459F	13	5 ½	9.40	6 ¾	23.10
47F	25	5	17.95	7	36.00
46F	31	7	22.23	7 ½	42.00
852F	70	5	50.15	6 ½	87.00
458F	72	5	51.58	6 ½	89.00
		2 ½ Inch Pitch			
801F	13	6 ¼	10.44	8 ½	28.35
		3 Inch Pitch.			
241F	11	8 ½	10.64	9 ½	36.00
240F	67	8	64.00	9	210.00

STANDARD BEVEL GEARS

Pattern Number	Number of Teeth	Face	Pitch Diameter	Backing	Length of Hub	Price
			1 ¼ Inch Pitch			
480F	45	3	17.81	1 ¾	4 ½	$16.80
481F	11	3	4.37	¼	3 ¼	5.80
501F	91	3	36.24	4 ½	4 ¼	40.60
502F	15	3	6.01	¼	3	6.30
			1 ½ Inch Pitch			
315F	49	4 ½	23.41	2 ½	3 ¾	23.75
316F	16	4 ½	7.68	⅜	4 ½	8.35
267F	87	4 ½	41.56	5 ½	5	52.50
186F	14	4 ½	6.74	⅝	5	8.20
			1 ¾ Inch Pitch			
18F	54	4 ½	30.09	.....	.....	43.50
19F	27	4 ½	15.07	.....	.....	18.75
			2 Inch Pitch			
384F	60	6	38.21	.....	.....	66.65
	13	6	8.35	¾	6 ½	18.80
			2 ¼ Inch Pitch			
759F	77	6	55.51	6 ½	6	105 00
760F	14	6	10.11	1	7	22.00

STANDARD MITRE GEARS
1 Inch Pitch

149F	17	1 ¼	5.47	⅜	1	3.70
713F	19	.....	6.05	.....	.....	3.80
347F	20	1 ½	6.39	⅞	2	4.00
			1 ¼ Inch Pitch			
139F	13	2	5.22	⅝	1 ¾	5.00
452F	15	2	5.01	⅞	2	5.50
359F	18	.....	7.19	.....	.....	6.40
140F	20	2 ½	7.99	1	2 ½	6.60
			1 ½ Inch Pitch			
613F	13	2 ½	6.26	1 ½	3	6.00
350F	15	2 ¾	7.21	1	2 ¾	6.50
469F	16	2 ½	7.68	1 ¼	2 ¾	6.80
	18	.....	.....	.....	.....	7.80
141F	19	.....	9.13	.....	.....	9.50
142F	28	3	13.39	¾	2 ¾	13.30
832F	30	.....	.....	.....	.....	15.50
			2 Inch Pitch			
804F	18	.....	11.51	.....	.....	20.40
143F	31	4 ½	19.73	1	4	34.00

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SPECIAL SPUR GEARS

Pattern Number	Number of Teeth	Face	Pitch Diameter	Length of Hub	Price
		¼ Inch Pitch			
	24	¾	1.92	¾	.....
	70	½	5.57	⅝	.....
		5/16 Inch Pitch			
	14	1	1.41	1	.....
	15	1½	1.50	2½	.....
	28	1⅛	2.77	1⅛	.....
		⅜ Inch Pitch			
	16	1¼	1.92	1¼	.....
	16	1⅜	1.92	1⅜	.....
	22	1	2.63	1	.....
	24	1¼	2.87	1½	.....
	47	1	5.62	1⅜	.....
	125	1½	14.77	1½	.....
		½ Inch Pitch.			
	17	1½	2.72	1½	.....
	18	1⅛	2.88	1¼	.....
	43	1½	6.85	1½	.....
	88	1¼	14.01	1½	.....
		9/16 Inch Pitch			
	17	1	3.06	1	.....
		⅝ Inch Pitch			
	9	2½	1.82	2½	.....
	12	1⅛	2.41	1½	.....
	16	2⅜	3.20	2⅜	.....
	18	1¾	3.54	1¾	.....
520F	24	1¼	4.79	1¼	.....
		11/16 Inch Pitch			
	28	1	6.14		.....
		¾ Inch Pitch			
402F	13	3	3.13	3¾	.....
	15	2	3.61	3¼	.....
	16	2¼	3.84	2¼	.....
	18	1¾	4.32	2⅝	.....
	19	3	4.55	3	.....
138F	20	2¼	4.79	2¼	.....
385F	20	2⅛	4.79	3¼	.....
648F	14	2	3.37	2¾	.....
401F	40	2½	9.55	3½	.....
137F	72	2	17.19	3	.....
		13/16 Inch Pitch			
	12	2½	3.13	3	.....
	18	1¾	4.67	1¾	.....
382F	20	2	5.19	2	.....
450F	20	2	5.19	2	.....
351F	22	2	5.64	2	.....
	33	2⅛	8.55	2¼	.....
		⅞ Inch Pitch			
	11	1⅜	3.06	1⅝	.....
320F	11	1¼	3.06	1¾	.....
441F	12	2	3.34	3	.....
9F	13	1½	3.62	4¼	.....
	15	2⅛	4.18	2⅛	.....
	18	1⅝	5.03	2½	.....
	13	3¼	3.62	3½	.....
	20	2	5.57	2¾	.....
255F	12	2¼	3.34	2¼	.....
	16	3½	4.46	3½	.....
	20	½	5.57	½	.....
322F	20	2	5.57	2¼	.....
136F	22	2	6.15	2¾	.....
536F	13	1⅝	3.66	2	.....

Pattern Number	Number of Teeth	Face	Pitch Diameter	Length of Hub	Price
		⅞ Inch Pitch			
	36	1⅞	10.03	3¼	.....
482F	50	1¾	13.93	2	.....
135F	64	2	20.38	4	.....
		1 Inch Pitch			
	13	3	4.14	3	.....
586F	15	2½	4.77	3	.....
	11	2½	3.50	3½	.....
	44	2	14.02	2½	.....
641F	50	2	15.92	4¾	.....
	12	2	3.82	2	.....
448F	19	1⅞	6.05	3	.....
	17	2	5.41	2¼	.....
	14	2¾	4.46	2¾	.....
	18	2	5.73	2	.....
386F	25	2⅜	7.96	3	.....
387F	32	2⅜	10.20	3½	.....
	14	3	4.46	3	.....
84A	16	1	5.09	3	.....
	38	1¾	12.10	2	.....
355F	12	1¾	3.82	2	.....
619F	60	2⅛	19.09	3¼	.....
		1⅛ Inch Pitch			
	11	2⅜	3.99	3¼	.....
	17	2	6.12	2	.....
	13	2½	4.66	2½	.....
323F	20	2	7.19	3¼	.....
600F-	18	3, 2	6.48	3	.....
324	12	3⅛	4.35	3½	.....
		1 1/16 Inch Pitch			
	12	3½	4.11	3½	.....
	15	2¼	5.10	2¼	.....
484F	20	2⅛	6.79	3¼	.....
	14	2⅝	4.77	4½	.....
	13	1¾	4.43	2	.....
	18	2¼	6.11	4½	.....
		1 3/16 Inch Pitch			
	18	2	6.82	2	.....
294F	12	2¾	4.57	2¾	.....
293F	16	2¾	6.08	2¾	.....
		1¼ Inch Pitch			
517F	16	1¾	6.37	2½	.....
732F	18	4	7.16	4	.....
	16	2½	6.37	2½	.....
298F	15	2¾	5.97	3¾	.....
	10	3	4.00	3½	.....
310F	10	3½	4.00	4¼	.....
449F	12	4	4.77	4⅝	.....
464	17	3¼	4.77	4¾	.....
802F	14	3¼	5.62	4½	.....
368F	36	2	14.34	2¼	.....
		1⅜ Inch Pitch			
	19	3	8.35	3½	.....
466F	21	4½	9.21	5	.....
	18	1⅞	7.91	2	.....
		1 7/16 Inch Pitch			
808F	19	2¼	8.72	3	.....
	18	2⅛	8.26	2⅝	.....

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SPECIAL SPUR GEARS

Pattern Number	Number of Teeth	Face	Pitch Diameter	Length of Hub	List
		1½ Inch Pitch			
655F	14	4	6.69	4	.....
296F	14	4½	6.69	6¼	.....
546F	10	3½	4.78	4	.....
599F	36	2¼	17.19	3	.....
519F	11	4½	5.25	4½	.....
395F	14	1½	6.69	2	.....
495F	20	3	9.55	4	.....
		1 9/16 Inch Pitch			
	18	1¾	8.98	1¾	.....
	12	2	6.03	2½	.....
	14	2¼	6.95	2¼	.....
	14	2⅛	6.95	2⅛	.....
		1⅝ Inch Pitch			
	18	8	7.54	.....	.....
709F	13	4½	6.79	5½	.....
		1¾ Inch Pitch			
827F	15	6½	8.42	8	.....
130F	13	5	7.24	6	.....
129F	14	5½	7.80	6½	.....
		2 Inch Pitch			
128F	12	5	7.64	6	.....
		2 3/16 INCH PITCH			
	12	7½	8.44	8	.....
		2¼ Inch Pitch			
131F	13	5½	9.32	7¾	.....
		3 Inch Pitch			
132F	11	3	10.50	10	.....
809F	13	8	12.42	9¼	.....

SPECIAL MITRE GEARS

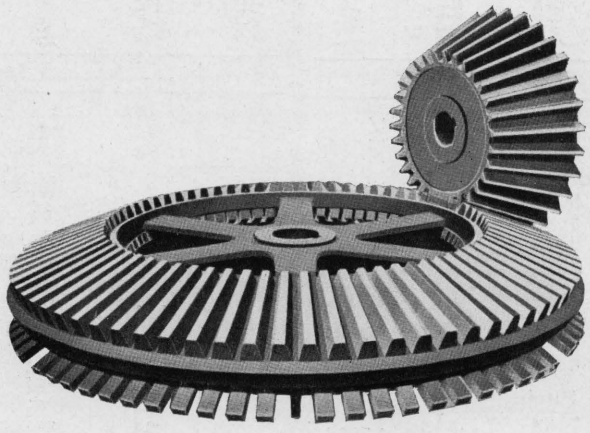
		5/16 Inch Pitch			
	22	⅝	2.19	⅝	.....
		⅜ Inch Pitch			
	24	¾	2.87	1	.....
	22	¾	2.63	1⅛	.....
		½ Inch Pitch			
	18	⅞	2.88	1¾	.....
	24	1¼	3.83	1	.....
		9/16 Inch Pitch			
	16	⅞	2.88	1⅜	.....
		⅝ Inch Pitch			
	20	1	3.98	1¼	.....
		¾ Inch Pitch			
510F	18	1¼	4.31	1¼	.....
670F	25	2	5.98	3	.....
		13/16 Inch Pitch			
701F	22	1⅝	5.70	2	.....
		1¼ Inch Pitch			
146F	15	2	6.01	1¾	.....
744F	18	2½	7.20	2¾	.....
		1⅜ Inch Pitch			
144F	13	2⅜	5.75	2½	.....
755F	19	3	8.35	3¼	.....
		1½ Inch Pitch			
495F	20	3	10.39	3	.....
		1 9/16 Inch Pitch			
	19	3	9.48	2⅝	.....

SPECIAL BEVEL GEARS

Pattern Number	Number of Teeth	Face	Pitch Diameter	Length of Hub	To Match
		5/16 Inch Pitch			
	16	1	1.60	5⅝	.....
	24	⅝	2.39	1⅛	.....
	73	⅝	7.26	1¾	.....
		⅜ Inch Pitch			
	20	⅞	2.39	2	.....
		7/16 Inch Pitch			
	21	⅝	2.93	⅞	.....
		½ Inch Pitch			
647F	15	⅞	2.40	2¾	.....
646F	32	⅞	5.10	4½	.....
	15	¾	2.40	¾	.....
	15	¾	2.40	1	.....
	14	⅞	2.25	¾	.....
	21	1⅜	3.35	1¼	.....
		9/16 Inch Pitch			
	20	¾	3.60	¾	.....
	16	⅞	2.88	1¼	.....
	19	1¼	3.41	1⅛	.....
	18	1⅜	3.23	2	.....
		11/16 Inch Pitch			
462F	16	1¼	3.52	1½	.....
463F	58	1¼	12.70	2	.....
		¾ Inch Pitch			
	25	2¼	5.98	3½	.....
148F	14	1⅛	3.37	1½	.....
147F	22	1⅛	5.26	1¼	.....
		13/16 Inch Pitch			
	15	2	3.71	1¾	.....
		⅞ Inch Pitch			
	15	2¼	4.18	1¾	.....
		1 Inch Pitch			
	13	1⅞	4.18	2	.....
	16	2½	5.13	2¼	.....
	13	2	4.18	2	.....
521F	16	2¼	5.13	3¼	.....
		1⅛ Inch Pitch			
	13	2	4.70	2½	.....
	15	4	5.41	4	.....
		1 3/16 Inch Pitch			
	16	3	6.08	3	.....
820F	13	2	4.95	4	.....
		1¼ Inch Pitch			
	16	4¼	6.41	4⅜	.....
		1⅜ Inch Pitch			
669F	13	2½	5.75	5¼	.20
393F	15	3½	6.62	4	.68
		1½ Inch Pitch			
297F	12	4	5.80	5	.50
	13	4	6.27	4	.....
644F	15	3½	7.21	4	.90
476F	17	5	8.16	5½	.....
532F	16	2¾	7.69	2½	.....
		1⅝ Inch Pitch			
	26	3	13.47	3	.....
	32	3	16.57	2½	.....
		1¾ Inch Pitch			
	9	3½	5.11	3½	.....
	12	3½	6.76	3¼	.....
	43	5	23.97	.....	.....

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BEVEL MORTISE WHEELS



Set in iron frame when ordered.

* Usually kept in stock.

Our mortise wheels are made by one of the foremost gear makers in this country. The teeth are made of selected, well-seasoned maple, and cut on a Gleason Gear Cutter.

Cogs and keys always in stock.

Sizes not listed can be had promptly.

STANDARD SIZES

No. of Teeth	Pitch	Face	Pitch Diameter	Back, Inches	List Price
54	3	12	51.56	7.00	$257.00
43	3	12	41.06	4.00	152.00
*60	2½	8	47.77	.....	155.00
*58	2½	8	46.18	.....	120.00
54	2½	8	43.00	6.50	132.00
42	2½	8	33.45	3.75	77.00
*42	2	6	26.76	4.375	61.00
*41	2	6	26.13	5.375	59.00
*36	1¾	5	20.08	4.00	46.00
*35	1¾	5	19.52	2.25	35.00
26	1½	4	12.41	2.375	42.50
26	1½	4	12.41	1.50	32.50