



LUFKIN GEAR

A SYMBOL OF QUALITY

Lafayette Industries, Inc. is considered the first firm to apply science to gear design in 1892.

Engineers at our Pittsburgh plant, we have worked for one of the world's leading oilfield pumping unit manufacturers. Since 1921 the Lafitte trademark has become a familiar sight to oilfield users the world over.

With more than half a century of experience in industrial and marine gear manufacturing, Lafitte gear manufacturers operate in a variety of industries where our marine propulsion gears power ships in the waters of the world.

The history of Lafayette Industries is one of steady growth and progress. The company's success has been based on a policy of providing customers with products superior in quality, performance and dependability.

Historically 100% air conditioning is available has been recognized for its technical excellence in manufacturing technology.

— **earn Lafitte for** —

located in Amsterdam, The Netherlands

For quality and a Lafitte Industries gear manufacturer and service center solutions and increases in all speed and horsepower ranges.

Today, Lafitte's facilities, experience, engineering and service capabilities suggest your gear requirements.



RAIN AFTER AND FLOOD GEAR

Lafitte Industries has been a leader in the design and manufacture of long-life, precision gearing for over five decades.

Waterworks also spend an application range system have consistently demonstrated quality and reliability.

Lafitte recognizes the importance of proper installation and ongoing maintenance. That is why we support our product with a staff of technical personnel to provide full service to every Lafitte gear customer.

Available service personnel dependability also includes comprehensive customer service available throughout the world. All a product of customer care, supported by our other manufacturing.

Examine any Lafitte gear or talk to any Lafitte customer and you will experience our commitment to quality and service.

AGRI-CULTURE GEAR

For over 50 years Lafitte has been manufacturing marine propulsion gears. The strong performance of these gears has given Lafitte a reputation for designing and manufacturing the most reliable gears in the industry.

GEAR TESTING AND GEAR REPAIR

Lafitte usually offers one of the most complete testing facilities in the industry.

Lafitte test stand is equipped with variable speed DC motor, capable of 100000 torque, synchronous loading to 1000 KW and complete analytical bearing temperature, vibration, temperature and flow analysis.

Lafitte will complete rebuild any marine motor gear drive, including replacement of the gears with new Lafitte made gear, shipped to our plant.

Lafitte will also design replacement gear for in Marine engine from manufacturing existing complete engine system.

— **earn Lafitte for** —

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Crucible gas-fired systems for industrial and scientific research are the most, at any time of the day or night, around the clock.

Heat sources in gas-fired systems may be natural gas, fuel oil or gas.

Crucible gas-fired systems use crucible supports, thermally isolated to prevent heat loss and rapid temperature. All have greater capacities. Some crucible systems are designed for gas circulation around the specimen. Crucible gas-fired systems are designed for gas distribution. They draw in gas and pass gas system.

CRUCIBLE gas-fired systems represent primary systems, anywhere.

CRUCIBLE gas-fired systems provide complete dispersion series.

CRUCIBLE gas-fired systems provide complete and fast up systems.

18 March 1999



Crucible gas-fired system (top right)

Crucible gas-fired systems are designed for heating or high alloy materials, gas, heating capacity for large-scale alloy. Furnace systems, usually any size. Heat treatment systems are used for full heat treatment systems in a furnace.





TYPE 101 GEAR AND GENERAL DIMENSIONS

Gear Size	A	B	C	D	E	F	G	H
1/2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
3/4	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
1	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
1 1/2	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
2	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
2 1/2	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
3	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
3 1/2	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
4	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
4 1/2	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
5	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
5 1/2	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00
6	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
6 1/2	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00
7	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00
7 1/2	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
8	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
8 1/2	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00
9	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00
9 1/2	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00
10	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
10 1/2	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00
11	22.00	22.00	22.00	22.00	22.00	22.00	22.00	22.00
11 1/2	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00
12	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
12 1/2	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
13	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00
13 1/2	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00
14	28.00	28.00	28.00	28.00	28.00	28.00	28.00	28.00
14 1/2	29.00	29.00	29.00	29.00	29.00	29.00	29.00	29.00
15	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
15 1/2	31.00	31.00	31.00	31.00	31.00	31.00	31.00	31.00
16	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
16 1/2	33.00	33.00	33.00	33.00	33.00	33.00	33.00	33.00
17	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00
17 1/2	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00
18	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00
18 1/2	37.00	37.00	37.00	37.00	37.00	37.00	37.00	37.00
19	38.00	38.00	38.00	38.00	38.00	38.00	38.00	38.00
19 1/2	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
20	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
20 1/2	41.00	41.00	41.00	41.00	41.00	41.00	41.00	41.00
21	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00
21 1/2	43.00	43.00	43.00	43.00	43.00	43.00	43.00	43.00
22	44.00	44.00	44.00	44.00	44.00	44.00	44.00	44.00
22 1/2	45.00	45.00	45.00	45.00	45.00	45.00	45.00	45.00
23	46.00	46.00	46.00	46.00	46.00	46.00	46.00	46.00
23 1/2	47.00	47.00	47.00	47.00	47.00	47.00	47.00	47.00
24	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00
24 1/2	49.00	49.00	49.00	49.00	49.00	49.00	49.00	49.00
25	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
25 1/2	51.00	51.00	51.00	51.00	51.00	51.00	51.00	51.00
26	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00
26 1/2	53.00	53.00	53.00	53.00	53.00	53.00	53.00	53.00
27	54.00	54.00	54.00	54.00	54.00	54.00	54.00	54.00
27 1/2	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00
28	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00
28 1/2	57.00	57.00	57.00	57.00	57.00	57.00	57.00	57.00
29	58.00	58.00	58.00	58.00	58.00	58.00	58.00	58.00
29 1/2	59.00	59.00	59.00	59.00	59.00	59.00	59.00	59.00
30	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
30 1/2	61.00	61.00	61.00	61.00	61.00	61.00	61.00	61.00
31	62.00	62.00	62.00	62.00	62.00	62.00	62.00	62.00
31 1/2	63.00	63.00	63.00	63.00	63.00	63.00	63.00	63.00
32	64.00	64.00	64.00	64.00	64.00	64.00	64.00	64.00
32 1/2	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
33	66.00	66.00	66.00	66.00	66.00	66.00	66.00	66.00
33 1/2	67.00	67.00	67.00	67.00	67.00	67.00	67.00	67.00
34	68.00	68.00	68.00	68.00	68.00	68.00	68.00	68.00
34 1/2	69.00	69.00	69.00	69.00	69.00	69.00	69.00	69.00
35	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00
35 1/2	71.00	71.00	71.00	71.00	71.00	71.00	71.00	71.00
36	72.00	72.00	72.00	72.00	72.00	72.00	72.00	72.00
36 1/2	73.00	73.00	73.00	73.00	73.00	73.00	73.00	73.00
37	74.00	74.00	74.00	74.00	74.00	74.00	74.00	74.00
37 1/2	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
38	76.00	76.00	76.00	76.00	76.00	76.00	76.00	76.00
38 1/2	77.00	77.00	77.00	77.00	77.00	77.00	77.00	77.00
39	78.00	78.00	78.00	78.00	78.00	78.00	78.00	78.00
39 1/2	79.00	79.00	79.00	79.00	79.00	79.00	79.00	79.00
40	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00
40 1/2	81.00	81.00	81.00	81.00	81.00	81.00	81.00	81.00
41	82.00	82.00	82.00	82.00	82.00	82.00	82.00	82.00
41 1/2	83.00	83.00	83.00	83.00	83.00	83.00	83.00	83.00
42	84.00	84.00	84.00	84.00	84.00	84.00	84.00	84.00
42 1/2	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00
43	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00
43 1/2	87.00	87.00	87.00	87.00	87.00	87.00	87.00	87.00
44	88.00	88.00	88.00	88.00	88.00	88.00	88.00	88.00
44 1/2	89.00	89.00	89.00	89.00	89.00	89.00	89.00	89.00
45	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00
45 1/2	91.00	91.00	91.00	91.00	91.00	91.00	91.00	91.00
46	92.00	92.00	92.00	92.00	92.00	92.00	92.00	92.00
46 1/2	93.00	93.00	93.00	93.00	93.00	93.00	93.00	93.00
47	94.00	94.00	94.00	94.00	94.00	94.00	94.00	94.00
47 1/2	95.00	95.00	95.00	95.00	95.00	95.00	95.00	95.00
48	96.00	96.00	96.00	96.00	96.00	96.00	96.00	96.00
48 1/2	97.00	97.00	97.00	97.00	97.00	97.00	97.00	97.00
49	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00
49 1/2	99.00	99.00	99.00	99.00	99.00	99.00	99.00	99.00
50	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

FINISH SHAFT Diameters

Gear Size	Shaft Size	Shaft Dia.	Shaft Dia.	Shaft Dia.	Shaft Dia.
1/2	1/8	0.375	0.375	0.375	0.375
3/4	3/16	0.469	0.469	0.469	0.469
1	1/4	0.562	0.562	0.562	0.562
1 1/2	5/16	0.688	0.688	0.688	0.688
2	3/8	0.812	0.812	0.812	0.812
2 1/2	7/16	0.938	0.938	0.938	0.938
3	1/2	1.062	1.062	1.062	1.062
3 1/2	9/16	1.188	1.188	1.188	1.188
4	5/8	1.312	1.312	1.312	1.312
4 1/2	11/16	1.438	1.438	1.438	1.438
5	3/4	1.562	1.562	1.562	1.562
5 1/2	13/16	1.688	1.688	1.688	1.688
6	7/8	1.812	1.812	1.812	1.812
6 1/2	15/16	1.938	1.938	1.938	1.938
7	1	2.062	2.062	2.062	2.062
7 1/2	1 1/16	2.188	2.188	2.188	2.188
8	1 1/8	2.312	2.312	2.312	2.312
8 1/2	1 1/4	2.438	2.438	2.438	2.438
9	1 3/8	2.562	2.562	2.562	2.562
9 1/2	1 7/16	2.688	2.688	2.688	2.688
10	1 1/2	2.812	2.812	2.812	2.812
10 1/2	1 5/8	2.938	2.938	2.938	2.938
11	1 3/4	3.062	3.062	3.062	3.062
11 1/2	1 7/8	3.188	3.188	3.188	3.188
12	1 7/8	3.312	3.312	3.312	3.312
12 1/2	1 9/8	3.438	3.438	3.438	3.438
13	2	3.562	3.562	3.562	3.562
13 1/2	2 1/16	3.688	3.688	3.688	3.688
14	2 1/8	3.812	3.812	3.812	3.812
14 1/2	2 1/4	3.938	3.938	3.938	3.938
15	2 3/8	4.062	4.062	4.062	4.062
15 1/2	2 7/16	4.188	4.188	4.188	4.188
16	2 1/2	4.312	4.312	4.312	4.312
16 1/2	2 5/8	4.438	4.438	4.438	4.438
17	2 3/4	4.562	4.562	4.562	4.562
17 1/2	2 7/8	4.688	4.688	4.688	4.688
18	2 7/8	4.812	4.812	4.812	4.812
18 1/2	2 9/8	4.938	4.938	4.938	4.938
19	3	5.062	5.062	5.062	5.062
19 1/2	3 1/16	5.188	5.188	5.188	5.1