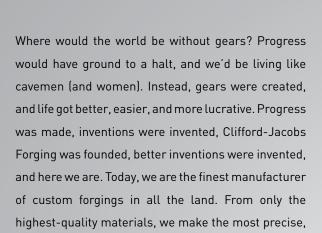
GEAR





dependable gears for a range of applications — everything from offshore drilling to high-performance racing. And their only job is to work, which is something they do all day long. Or all night long for third-shifters. Or both for multitaskers. Clifford-Jacobs works for you just as hard and efficiently as our gears do. If you need a custom-forged gear, we're experts in the field. Depend on Clifford-Jacobs Forging. We're just what you need.

Call us today at 217.352.5172 for your next custom forging order.





AN IMT COMPANY™

TOLERANCES AND MATERIALS

Thickness and Straightness Tolerances

Maximum Outside Diameter	3.50"	6.13"	7.88"	11.25"	25.13" up to 30"
Thickness	+0.03"/-0.03"	+0.06"/-0.03"	+0.06"/-0.03"	+0.09"/-0.03"	+0.13"/-0.03"
Straightness	0.03''	0.04"	0.05''	0.06" to 20"	0.06" to 30"

External and Internal Tolerances

Maximum Outside Diameter	3.91"	7.81"	11.72"	15.63"	15.63" up to 30"
+EX, -INT	0.03"	0.06''	0.09''	0.13"	0.16"
Maximum Outside Diameter	11.63"	14.97"	18.28"	18.28" and up	18.28" and up
-EX, +INT	0.03"	0.04"	0.05''	0.06''	0.06''

Weight and Mismatch Tolerances

3 to 5 pounds	Up to 25 pounds	Up to 50 pounds	Up to 100 pounds	Up to 300 pounds	Up to 800 pounds
0.03"	0.04"	0.05"	0.06"	0.06" up to 20"	0.09" up to 30"

■ Specifications listed are only guidelines. To learn what Clifford-Jacobs can do for you, please ask.

CARBON, ALLOY, AND TOOL STEEL

1018, 1020, 1021, 1022, 1026, 1029, 1030, 1040, 1045, 1050, 1141, 1146, 3310, 4130, 4140, 4142, 4145, 4150, 4320, 4340, 4620, 4820, 8620, 8622, 8630, 8822, 9310, A182F11, A182F22, A182F91, A336F1, A336F22A, A350LF2, A350LF3, MIL-S 23284C1, MIL-S 23284CL2, H-13, INCONEL® 625, SA182

BEARING QUALITY

4130, 4140, 4320, 4340, 4820, 8620, 8822, 8825, 52100

AIRCRAFT QUALITY

4130 (AMS 6348), 4140 (AMS 6382), 4320 (AMS 2301), 4330V (AMS 6427), 4340 (AMS 2301), 4340 (AMS 6415), 4340 (AMS-S 5000), 4820 (AMS 2301), 9310 (AMS 6260), 9315 (AMS 6263), 17-22-AS (AMS 6302)

CALCIUM TREATED

4130, 4140, 4150, 4340, 8620

VAR MATERIAL

4320 (AMS 2300), 4330 (AMS 6411), 4340 (AMS 6414), 9310 (AMS 6265), PYROWEAR $^{(8)}$ 53 (AMS 6308), NITRALLOY N (AMS 6475), 9-4-30 (AMS 6526), PYROWEAR $^{(8)}$ 675

VIM VAR IUT

H12 MOD. (BMS 7-223), 9310 (BMS 7-249), 4340 (BMS 7-250), LESCO $^{\circledR}$ 53, PYROWEAR $^{\circledR}$ 53 (HMS 6-1288)

STAINLESS STEEL

304, 304L, 316, 316L, 405, 410, 17-4PH, 15-5PH

CUSTOM GRADES

Caterpillar, General Electric, Westinghouse, Boeing Aerospace

and accuracy with which we reply to requests for quotes. In addition, we offer short to medium runs, from 25 to 15,000 pieces annually, and we have a seasoned, expert staff with a CNC-equipped die shop on-site. To expedite answers to your questions, please have the following information at hand:

Clifford-Jacobs takes pride in the speed

- Material grade
- EAU and delivery quantity
- Date requested
- A good-quality, fully dimensional print

If required, please include any specifications you may have for machining, heat treating, and testing.

Clifford-Jacobs can produce custom or standard forgings within the following parameters:

- From 3 pounds to 800 pounds
- Up to 30 inches in diameter
- Up to 50 inches in length
- Up to 18 inches in spindle height
- Annual quantity of 25 to 15,000 pieces

CLIFFORD-JACOBS FORGING
P.O. Box 830 | Champaign, IL 61824-0830
217.352.5172 | fax: 217.352.4629
sales@clifford-jacobs.com
www.clifford-jacobs.com

