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Reference data you can use, a surface roughness comparison chart.

## > SURFACE ROUGHNESSES PRODUCED BY COMMON PRODUCTION PROCESSES



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**Process**

Flame Cutting

Snagging

Sawing

Planing, Shaping

Drilling

Chemical Milling

Elect. Discharge Mach.

Milling

Broaching

Reaming

Electron Beam

Laser

Electro-Chemical

Boring, Turning

Barrel Finishing

Electrolytic grinding

**Process**

Roller Burnishing

Grinding

Honing

Electro-Polish

Polishing

Lapping

Superfinishing

Sand Casting

Hot Rolling

Forging

Perm Mold Casting

Investment Casting

Extruding

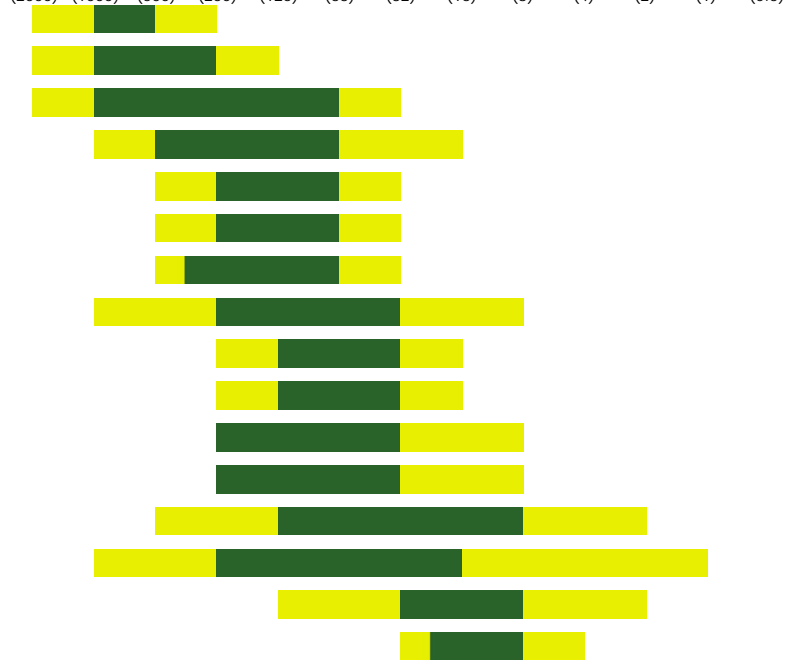
Cold Rolling, Drawing

Die Casting

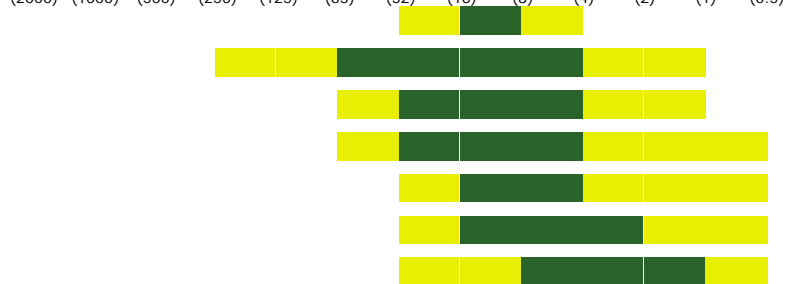
**Process**

**Roughness Average**  
**Micrometers μm**  
**(Microinches μ in.)**

50 25 12.5 6.3 3.2 1.6 0.80 0.40 0.20 0.10 0.05 0.025 0.012  
(2000) (1000) (500) (250) (125) (63) (32) (16) (8) (4) (2) (1) (0.5)





50 25 12.5 6.3 3.2 1.6 0.80 0.40 0.20 0.10 0.05 0.025 0.012  
(2000) (1000) (500) (250) (125) (63) (32) (16) (8) (4) (2) (1) (0.5)



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(2000) (1000) (500) (250) (125) (63) (32) (16) (8) (4) (2) (1) (0.5)

KEY:

-  Average Application
-  Less Frequent Application

Higher or lower values may be obtained under special conditions

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