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Running GWEstimator v6.1

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**Estimate**

**CAD/CAM**

**Feeds/Speeds**

**Setup**

Spreadsheet: [Open](#) [Save](#)

Customer:

Description:

Part Num:

Estimator:  Revision:  Date:  Scrap Allowance (%):

[Variable Costs \(Per-Part\)](#) [Fixed Costs \(One Time\)](#) [Summary](#)

Cycle Time (sec)	75.2	Gross Pcs/Hour	45
Cycle Time (min)	1.3	Pcs/8 Hours	363
Cycle Time (hrs)	0	Pcs/40 Hours	1819
Cost / Pc	1.32	Pcs/160 Hours	7276

[Add Op](#) [Edit Op](#) [Delete Op](#)

[Clear All](#)

Estimator is in alpha test and has bugs; use carefully!

Op	Description	Tool	Op Time	Cost	Add Time	Add Cost	Cut Depth	Cut Width	RF
Rough OD to 3.015, len = 1	OD Turning	Turning: Carbide	00:00:1.5	0.03	0		0.055	0	22
Finish OD to 3, len = 1	OD Turning	Turning: Carbide	00:00:7.8	0.13	0		0.015	0	19
Rough OD to 2.015, len = 1	OD Turning	Turning: Carbide	00:00:7.2	0.12	0		0.185	0	16
Finish OD to 2, len = 1	OD Turning	Turning: Carbide	00:00:5.2	0.09	0		0.015	0	29
Rough OD to 1.015, len = 1	OD Turning	Turning: Carbide	00:00:13.3	0.22	0		0.211	0	10
Finish OD to 1, len = 1	OD Turning	Turning: Carbide	00:00:2.6	0.04	0		0.015	0	58
Rough OD to 3.015, len = 1	OD Turning	Turning: Carbide	00:00:1.5	0.03	0		0.055	0	22
Finish OD to 3, len = 1	OD Turning	Turning: Carbide	00:00:7.8	0.13	0		0.015	0	19
Rough OD to 2.015, len = 1	OD Turning	Turning: Carbide	00:00:7.2	0.12	0		0.185	0	16
Finish OD to 2, len = 1	OD Turning	Turning: Carbide	00:00:5.2	0.09	0		0.015	0	29
Rough OD to 1.015, len = 1	OD Turning	Turning: Carbide	00:00:13.3	0.22	0		0.211	0	16
Finish OD to 1, len = 1	OD Turning	Turning: Carbide	00:00:2.6	0.04	0		0.015	0	58

# Machine Shop Estimating

**Boise Cascade Center for Community  
Development**

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the Boise Cascade Center for Community Development text.

## Machine Shop Estimating:

Machine Shop Job Work Boise Cascade Center for Community Development,1972      *Machine-shop Estimating* William A. Nordhoff,1960      *Machine Shops-job Type* Benjamin W. Niebel,1964      **Urban Business Profile: Machine Shop Job Work** United States. Economic Development Administration,1972      **American Machinist** ,1924      **The Engineering Index** ,1929      *Engineering Index* ,1925      *Machine-Shop Estimating ... Second Edition* William A. NORDHOFF,1960

College of Industries Catalogue Carnegie Institute of Technology. College of Industries,1923      **American Machinist & Automated Manufacturing** ,1923      Engineering Journal ,1925      Mechanical Technology, Design and Production United States. Division of Vocational and Technical Education,1962      *Accountants' Index* ,1921      *Integration of Process Knowledge into Design Support Systems* Hubert Kals,Fred van Houten,2013-04-17 Design is a fundamental creative human activity This certainly applies to the design of artefacts the realisation of which has to meet many constraints and ever raising criteria The world in which we live today is enormously influenced by the human race Over the last century these artefacts have dramatically changed the living conditions of humans The present wealth in very large parts of the world depends on it All the ideas for better and new artefacts brought forward by humans have gone through the minds of designers who have turned them into feasible concepts and subsequently transformed them into realistic product models The designers have been still are and will remain the leading change agents in the physical world Manufacturability of artefacts has always played a significant role in design In pre industrial manufacturing the blacksmith held the many design and realisation aspects of a product in one hand The synthesis of the design and manufacturing aspects took almost implicitly place in the head of the man All the knowledge and the skills were stored in one person Education and training took place along the line of many years of apprenticeship When the production volumes increased assembling to measure was no longer tolerated and production efficiency became essential design process planning production planning and fabrication became separated concerns The designers created their own world separated from the production world They argued that restrictions in the freedom of designing would badly influence their creativity in design      *Popular Science* ,1955-08 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better

*The Journal of the Engineering Institute of Canada* Engineering Institute of Canada,1923      Engineering Office Systems and Methods John Percival Davies,1915      **Popular Mechanics** ,1955-01 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle      **Iron Trade Review** ,1925      Iron Age ,1903

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