



Industrial Technology Virtual Learning

Machine Tool

May 14th, 2020



Advance Metals

Machinist Tool Budget

May 14th, 2020

Objective: Students will calculate the total cost of purchasing a set of machinist tools and how to budget of them.

Bell Ringer

How many tools do you have at home that you could take with you to work at a machine shop?

Introduction

In order to work in a machine shop setting, you must have your own measuring tools and hand tools. There are a core set of tools that will work for any shop that you work for and then there are specific tools that are unique for that company. Most companies will give you 90 days to have these core tools purchased.

Introduction Continued

In this lesson you will be given a core set of tools that you will need to find the price of. There are 3 top brands that most shops will want you to purchase for precision measuring tools. The top brands are Starrett, Mitutoyo and Brown & Sharp. It does not matter what brand you purchase for the other hand tools.

Introduction Continued

There have be 2 vendors provided that sell these tools. You will need to look up the price for each tool made by each brand. Create a spread sheet to keep track of the price of each tool along with the price from the 2 vendors provided. You will also need to come up with a 3rd vendor on your own. Some of the tools have a brand listed

Introduction Continued

After you have found the price for each tool from each vendor, you will then need to know which tool will be purchased from which vendor. Create a new spread sheet for each vendor with a list of the tools and their price. Create a total for those vendors. The shipping cost will need to be added to each vendor if there is one.

Resource

Here are 2 vendors that sell the tools listed. There may be a tool on the list that is not sold at that vendor. If that is the case, leave the price blank for that tool.

<https://www.mscdirect.com/>

<https://www.kbctools.com/>

Additional Resources

Here are additional resources that will provide some pictures for a few of the tools on the list.

<https://www.cnccookbook.com/machinist-tools-set-essential-list/>

Tool List

1. 0-3 Micrometers



2. 6' & 12' Dial (or Digital) Calipers



3. 6' 12' 18' Steel Rules



4. Dial Depth Gauge Set 0-6 Depth



Tool List

5. .0005" Test Indicator



6. 1,2,3 Block Set



7. Machinist Screw Jacks



8. Indicator Holder (Brand – Edge Technology)



Tool List

9. Magnet Base (The style pictured)



10. Center Punch Set



11. Pin Punch Set



12. Deburring Tool



Tool List

13. Dead Blow Hammer



14. Set of Standard & Metric Allen Wrenches



15. Wrench Set 1/4 thru 7/8



16. 10' Adjustable Wrench



Tool List

17. 3/8 Ratchet set



18. Set of Screwdrivers



19. Ball Peen Hammer



20. Tap Handles Set



Tool List

21. Channel Lock Pliers Set



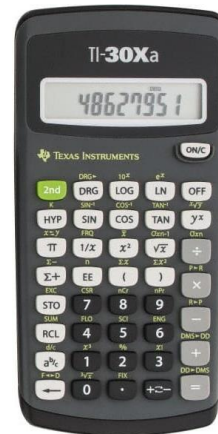
22. Vise Grips Set



23. Indian Stone



24. Calculator



Tool List

25. Flash Light



26. Lockable Tool Chest

