Item	Number	Price Per	Total
Pentium computer with monitor, printer, table, chair and appropriate	6	\$800.00	\$4,800.00
Internet Connection	1		
		\$0.00	\$0.00
Engine lathe with quick-charge gearbox and thread-chasing dial (recommended size 14" x 30")	6	\$12,000.00	\$72,000.00
Live center - With Machine	6	. ,	
Dead center - With Machine	6	\$0.00	\$0.00
Universal three-jaw chuck with key - With Machine	6	\$0.00	\$0.00
Drive plate with dog - With Machine	6	\$0.00	\$0.00
Additional wrenches as required for tool holders and other lathe	6	\$0.00	\$0.00
accessories - With Machine	0	\$0.00	\$0.00
Workbench with vise	2	\$60.00 \$60.00	\$120.00
Safety glasses	24	\$00.00 \$1.50	\$36.00
Machinist's rule, 6"	6	\$1.50	\$30.00
Micrometers, 1" and 2"	6	\$30.00	\$180.00
Combination set	6	\$45.00	\$270.00
Vernier, dial, or digital caliper, 6"	6	\$50.00	\$300.00
Dial indicator	6		
Magnetic base for dial indicator	6	\$15.00 \$10.00	\$90.00
Center gauge ("fishtail" gauge)	6	\$10.00 \$10.00	\$60.00 \$60.00
Machinery's Handbook	12	\$55.00	\$660.00
Layout dye with brush	6		-
Cutting fluid	6	\$12.00	\$72.00
Surface gauge with scriber point	6	\$15.00	\$90.00
Scriber	6	\$40.00	\$240.00
Center punch	6	\$5.00	\$30.00
Parallels, 6"	6	\$6.00	\$36.00
Mill file with handle	6	\$55.00	\$330.00
Ball peen hammer	6	\$12.00	\$72.00
Number stamp set	6	\$9.00	\$54.00
Adjustable wrench		\$25.00	\$150.00
-	6	\$14.00	\$84.00
Allen wrench set	6	\$15.00	\$90.00
Center drills	50	\$3.00	\$150.00
Drill chuck with key and sleeve for tailstock mounting	6	\$25.00	\$150.00
Surface finish specimen plates	6	\$20.00	\$120.00
Pre-ground carbide tool bits for: straight turning shoulder turning, facing,	20	AF 0 0	6100.00
thread cutting Cutoff/grooving tool, 1/8"	10	\$5.00 \$5.00	\$100.00 \$50.00
Tool post and tool holders for turning, facing, cutting-off/grooving, and	6	\$5.00	\$50.00
threadingc - With Machine	0	\$0.00	\$0.00
Chucking (in addition to above tools)		\$0.00 \$0.00	\$0.00 \$0.00
Four-jaw independent chuck - With Machine	6	\$0.00 \$0.00	\$0.00
Soft jaws (optional) - With Machine	6	\$0.00 \$0.00	\$0.00
Spiders for chucks (optional) - With Machine	6	\$0.00 \$0.00	\$0.00
Tool holders for left and right hand turning tools, grooving tool, internal	6	ŞU.UU	\$0.00
and external threading tools - With Machine	Ũ	\$0.00	\$0.00
Boring bar and holder	6	\$60.00	\$360.00
Wrenches as req'd for lathe, tool holders, and acc's With Machine	6	\$0.00	\$0.00
Micrometer, 3"	6	\$85.00	\$510.00
Micrometer, 5			

Manufacturing Cluster Precision Machining Equipment List

Right and left hand turning tools, capable of turning to a square	6		
shoulder	U	\$6.00	\$36.00
Tool blanks to produce external threading tool	50	\$6.00	\$300.00
Tool blanks to produce internal threading tool	50	\$6.00	\$300.00
Chamfering tool sets, asst. dia. and chamfer angles	6	\$35.00	\$210.00
Assorted stub drills, 3/4" – 1" diameter	6	\$60.00	\$360.00
Power Feed Milling (in addition to above tools)		\$0.00	\$0.00
Adjustable parallels (optional)	6	\$30.00	\$180.00
Edge finder	6	\$15.00	\$90.00
Soft-faced hammer	6	\$12.00	\$72.00
T-slot cleaner	6	\$3.00	\$18.00
HSS end mills, asst. sizes	6	\$75.00	\$450.00
Inserted carbide face mills, 2"	6	\$60.00	\$360.00
Vertical universal milling machine (Bridgeport type) with power feed, 12"	6	<i></i>	\$300.00
x 36" table	Ū	\$14,000.00	\$84,000.00
Milling vise (6" capacity minimum)	6	\$180.00	\$1,080.00
R-8 adaptors, other appropriate adaptors, collects, or holders to fit	6		
machine spindle - With Machine		\$0.00	\$0.00
T-slot bolts, nuts, studs, washers, clamps, or other necessary fittings to	6		
secure vise to mill - With Machine		\$0.00	\$0.00
		\$0.00	\$0.00
Vertical Milling (in addition to above tools)		\$0.00	\$0.00
Depth micrometer	6	\$30.00	\$180.00
Prick punch	6	\$6.00	\$36.00
Edge finder	6	\$15.00	\$90.00
Jobber's length drills: 1/4", 1/2", 11/16", 23/32", 13/64", 5/16", 27/64", 47/64"	12	\$60.00	\$720.00
Reamers, assorted sizes up to 1"	6	\$85.00	\$510.00
Drill chuck with key	6	\$60.00	\$360.00
Drift for spindle	6	\$3.00	\$18.00
Collets, R-8 adaptors, or other appropriate adaptors to fit drill chuck and	-		
cutters to machine spindle		\$60.00	\$60.00
Soft jaws for mill vise	-	\$10.00	\$10.00
Surface Grinding (in addition to above tools)		\$0.00	\$0.00
Master square or magnetic square	6	\$30.00	\$180.00
Burr knife or scraper	6	\$20.00	\$120.00
Selection of grinding wheels suitable for the machine	6	\$25.00	\$150.00
Horizontal spindle surface grinder capable of handling wheels up to 10' or greater	6	\$8,000.00	\$48,000.00
Magnetic chuck (pre-dressed)	6	\$150.00	\$900.00
Angle plate or precision grinding vise	6	\$25.00	\$150.00
Wheel dressing tool and appropriate holder or fixture	6	\$9.00	\$54.00
Suitable tools for cleaning chuck (brushes, shop rags, vacuum cleaner,	6	<i>\$</i> 5.00	Ç94.00
etc.)		\$5.00	\$30.00
Drill Press (in addition to above tools)		\$0.00	\$0.00
Dividers, 6"	e	\$0.00 \$5.00	\$0.00
Height gauge or surface gauge, either w/scriber point	6	\$5.00	\$30.00
		\$35.00	\$210.00
Mill file or burr knife, scaper, etc.	6	\$15.00	\$90.00
Machine tap set for 3/8 - 16	6	\$45.00	\$270.00
Countersinks, 1/2"	6	\$15.00	\$90.00
Countersinks, 5/16"	6	\$15.00	\$90.00
Selection of at least six reamers, asst. sizes	6	\$80.00	\$480.00

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			\$139,000.00	\$139,000.00
CNC Software (optional)	6	\$1,500.00	\$9,000.00	
CNC Lathe with tooling (optional)	2	\$30,000.00	\$60,000.00	
CNC Mill with tooling (optional)	2	\$35,000.00	\$70,000.00	
			\$224,548.00	\$224,548.00
Appropriate wienches for unit press and accessories	0	\$15.00	\$90.00	4224 542 22
Appropriate wrenches for drill press and accessories	6		•	
Drill vise or other appropriate work holding device	6	\$45.00	\$270.00	
Drill press, bench or floor type	6	\$300.00	\$1,800.00	
Tapping fluid	6	\$25.00	\$150.00	
5/16" and 25/64"	Ũ	\$75.00	\$450.00	
Selection of at least six jobber's length drills, from 1/4" to 1/2", including	6			

OPTIONAL: Trainers, CNC Systems, and Simulators that enhance student learning, raise student achievement, meet industry standards, and have SDE approval.

\$363,548.00