Survey for Cutting and Turning Machines

"The Machine Safeguarding People"
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NO. _____
(Proposal Sequence Reference)

Company _____ Address _____
City, State, Zip _____ Attention _____
Telephone No. _____ Date _____ Representative _____
Fax No. _____ Surveyed By _____

When filling out this form, be sure the information is filled in for satisfying the basic areas of safety.
Basic Areas—**1. Safeguarding** **2. Control** **3. Disconnect** **4. Starter** **5. Cover** **6. Other Considerations**

For identification and reference, please fill in this area first. Machine No._____ Dept._____
Manufacturer_____ Model No._____ Serial No._____

INSTALLATION ☐ N ☐ **Y** Is machine presently out of service? ☐ N ☐ **Y**

1. Safeguarding: ☐ Has ☐ Provide ☐ Contact Manufacturer

☐ **Drill:** ☐ Press ☐ Gang: No. of Heads:_____ ☐ Radial ☐ Other_____
Is a **drill shield** required? ☐ N ☐ **Y**
If **Y**, what style? (circle one) Aluminum–Telescoping–Chip: Sm. or Lg.–Universal–Flexible
If **aluminum:** Is front hinge required? ☐ N ☐ **Y** If **Y,** ☐ 2-Tier: Sm or Lg ☐ 3-Tier
Is side hinge required? ☐ N ☐ **Y** If **Y,** ☐ 2-Tier ☐ 3-Tier
If **telescoping:** (check one) ☐ 2-Tier ☐ 3-Tier ☐ Quill Dia._____" ☐ Lug Type
If **universal:**
What is the arm length? (circle one) 21" 31" 44"
What style is required? (circle one)
Sm. 30° Lg. 30° 90° 30°/90° Sm. Flat Lg. Flat Sm. Concave Lg. Concave
If **flexible:** What is the arm length? (circle one) 12" 18" 24" What style? DM MB (circle one)
What size shield?(circle one) 6" x 8" 10" x 12"

☐ **Lathe:** ☐ Engine ☐ Turret ☐ VTL ☐ Other_____
Is a **lathe chuck shield** required? ☐ N ☐ **Y**
If **Y**, what is the chuck diameter when jaws are extended?_____"
Style: (circle one) Transparent Steel: Sm or Lg. Sliding
Is a **mounting bracket** required? (required with transparent and small steel) ☐ N ☐ **Y**
If **Y**, what type? (circle one) A A1 B B2
Is an **electrical interlocking bracket assembly** required? ☐ N ☐ **Y**
Is a **spring-loaded chuck wrench** required? ☐ N ☐ **Y**
If **Y**, what size_____"? What style? Standard Longer What shape? Square Hex (circle style and shape)
Is a **crosslide-travel shield** required? ☐ N ☐ **Y**
If **Y**, what model? (circle one) Small Large
Are **supplemental shields** required? ☐ N ☐ **Y**
If **Y**, what style(s)?_____

☐ **Mill:** ☐ Vertical ☐ Horizontal ☐ Jig ☐ Bridge Size: ☐ Small ☐ Med. ☐ Large
Is a **milling machine shield** required? ☐ N ☐ **Y**
If **Y**, what style? (circle one) Slide/Swing Aside–Bridgeport–Chip: Sm. or Lg.–Universal–Flexible
If **slide and swing aside:**
What is the length of the bed?_____" Are rear shields required? ☐ N ☐ **Y**
Is an electrical interlocking bracket assembly required? ☐ N ☐ **Y**
If **Bridgeport:** (circle one) Front Shield Rear Shield
If **universal or flexible: See drill section above.**
If **chip: See drill section above.**
Are **supplemental shields** required? ☐ N ☐ **Y**
If **Y**, what style(s)?_____
Are **Bridgeport belt covers** required? ☐ N ☐ **Y** (Model J)

☐ **Grinder:** ☐ Bench/Pedestal ☐ Surface ☐ OD ☐ ID ☐ Other_____
Is a **grinder shield** required? ☐ N ☐ **Y**
If **Y**, what style?
☐ Double-Wheel Shield (6" x 18") ☐ Single-Wheel Shield (6" x 6")
☐ Pivot Mount (6" x 6⅜") ☐ Standard Mount: 6¼" x 5¼" 8½" x 6" 12¾" x 12" (circle size)
Quantity_____

☐ **Saw:** ☐ Table ☐ Cutoff ☐ Radial Arm ☐ Band ☐ Other_____
Is a **shield** for a saw required? ☐ N ☐ **Y** If **Y**, use other machine specs for furnishing shield.

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☐ **Other:** ☐ Borer ☐ Broach ☐ Planer ☐ Machining Center ☐ Other_____

Is a **free-standing shield** required? ☐ N ☐ **Y**
If **Y**, what size? ☐ 48" x 48" ☐ 48" x 60" ☐ 48" x 72" ☐ 48" x 96"

1 Is a **magnetic-base shield** required? ☐ N ☐ **Y**
If **Y**, what size? ☐ Small Flat ☐ Medium Flat ☐ Large Flat ☐ Small Concave ☐ Large Concave ☐ With Arm Extension

Is a **special shield or guard** required? ☐ N ☐ **Y** If **Y**, what style?_____

2. Control:

A. Is a **transformer for 115-V power supply** required? ☐ N/A ☐ N ☐ **Y**

2 B. Is a **red emergency-stop button or cable** required? ☐ N ☐ **Y**
If **Y**, check one: ☐ Small Button W/Twist Reset ☐ Large Button With Latch & Mntg. Box ☐ Cable & Switch Assembly **PLUS** ☐ KSC-056 Sign

3. Disconnect:

A. Is an **electrical disconnect** switch required? ☐ N ☐ **Y** If **Y**, furnish HP, FLA and Voltage in **4A**.

3 B. How is the disconnect to be furnished (if required)? ☐ Separate ☐ Combo W/Starter

C. **Plug lockout?** ☐ N/A ☐ N ☐ **Y**

D. **Air lockout valve?** ☐ N/A ☐ N ☐ **Y** If **Y:** (circle one) ¼" ½" ¾"

4. Starter:

A. Is a **magnetic motor starter** required? ☐ N ☐ **Y**
If **Y** provide:_____ Horsepower _____ RPM
_____ Full-Load Amps _____ Voltage
_____ Hz ☐ 1 Phase ☐ 3 Phase

B. How is starter to be furnished (if required)? ☐ Separate ☐ Combo W/Disconnect

C. What **type** of main drive **starter** is required? Nonreversing ☐ N ☐ **Y** Reversing ☐ N ☐ **Y**

D. Is a **remote push-button station** required? ☐ N ☐ **Y**

4 E. Is the motor two-speed? ☐ N ☐ **Y** If **Y**, provide motor nameplate data.

F. Is the motor jogged or reversed frequently? ☐ N ☐ **Y**

G. Is a table motor starter required? ☐ N ☐ **Y**

	Estimate		**Actual**
If **Y**, provide:	_____	Horsepower	_____
	_____	Full-Load Amps	_____
	_____	Voltage	_____

H. Is a coolant pump motor starter required? ☐ N ☐ **Y**

	Estimate		**Actual**
If **Y**, provide:	_____	Horsepower	_____
	_____	Full-Load Amps	_____
	_____	Voltage	_____

Note: If other motor starters are required, please provide appropriate information.

5. Cover:

5 Do any **mechanical power-transmission apparatuses** need to be covered up to 7 feet above floor or platform? ☐ N ☐ **Y** If **Y**, what needs to be covered?

Gears	☐ N ☐ **Y**	Leadscrew	☐ N ☐ **Y**	Pulley and Belts	☐ N ☐ **Y**
Sprockets and Chain	☐ N ☐ **Y**	Horizontal Shaft	☐ N ☐ **Y**	Other_____	
Shaft End	☐ N ☐ **Y**	Vertical Shaft	☐ N ☐ **Y**		

6. Other Considerations:

A. Does the shield require an **electrical interlock switch?** ☐ N/A ☐ N ☐ **Y**
Is a mounting bracket required? ☐ N ☐ **Y**

B. Does the interlock require a **timer or stop-motion detector?** ☐ N/A ☐ N ☐ **Y**
If **Y**: ☐ Timer ☐ Stop-Motion Detector **PLUS** ☐ Proximity Switch Set

C. Is a **safety relay** required? ☐ N ☐ **Y** If **Y**: ☐ 24 V DC ☐ 115 V AC

6 D. Is an **electrical power cutoff system w/chain** required? ☐ N/A ☐ N ☐ **Y**

E. Is an **electronic motor brake** required**?** ☐ N ☐ **Y**
If **Y**, be sure that all of **4A** is completed.
Start-Up Time_____sec Coastdown Time_____sec No. of Braking Stops/Hr_____
Does the electronic motor brake require:
☐ Zero-Speed Sensing ☐ Extended Braking Time ☐ Mechanical Brake Release
☐ High Brake Torque ☐ Other _____
Does the machine have:
☐ Manual Brake ☐ Variable-Speed Drive ☐ Forward/Reversing Starter
☐ Single-Speed Motor ☐ High-Inertia Loads ☐ Mechanical-Holding Brake

F. Are **danger signs** required? ☐ N ☐ **Y**