



# Federal Way Public Schools

Every Student, a Reader

Issue date: April 28, 2016

ITB: High School Engineering and Shop Equipment

ITB number: FWPS ITB042816

ITB due date and time: May 12, 2016 2:00pm

Delivery address:

Federal Way Public Schools  
Purchasing Department  
33330 8<sup>th</sup> Ave S  
Federal Way, WA 98003

Federal Way Public Schools is seeking bids for specialized vocational engineering and shop equipment for use in a High School setting. Delivery and inspection of the fully assembled items must be completed prior to July 29, 2016.

Each ITB is to be filed in a sealed envelope and marked with the appropriate ITB name, due date and time. All bid documents must be at Federal Way Public Schools offices on or before the time shown above or they will not be accepted. Faxed, e-mail, or "postage due" proposals will not be accepted by Federal Way Public Schools.

Due to the volume of line items listed in this ITB, a matrix of all vendor responses will be made available upon request ten (10) working days from the proposal award date.

**PROPOSAL CERTIFICATION:** The signature on this ITB certifies that the vendor has read this ITB in its entirety, is authorized to bind the contract, and agrees to furnish the requested supplies, equipment or services in accordance with these ITB specifications. All signatures must be in ink.

**Purchasing Officials:**

**Phone:**

**Fax:**

**Lynn Shore, Buyer**

**253-945-2051**

**253-945-2055**

**Dana Harris, Buyer**

**253-945-2076**

FIRM NAME

\_\_\_\_\_

ADDRESS

\_\_\_\_\_

CITY, STATE, ZIP

\_\_\_\_\_

AUTHORIZED SIGNATURE

\_\_\_\_\_

NAME (TYPE OR PRINT)

\_\_\_\_\_

TITLE

\_\_\_\_\_

TELEPHONE NUMBER

\_\_\_\_\_

FAX NUMBER

\_\_\_\_\_

EMAIL ADDRESS

\_\_\_\_\_

ADDENDUM(s) RECEIVED

\_\_\_\_\_

ITB advertised in the Daily Journal of Commerce April 29 and May 4, 2016.

## **INSTRUCTIONS FOR ITB**

1. **ITB REVIEW:** Carefully review this ITB for defects or objectionable material. ITB comments concerning defects or objectionable material or any questions with regard to this ITB must be made in writing and received by the purchasing authority at least **five (5) days** before the ITB opening date. This will allow time for an amendment to be issued if one is required. It will also help prevent the opening of a defective ITB, upon which award cannot be made, and the resultant exposure of ITB prices. ITB comments should be sent in writing to the authority listed on the front of this ITB.
2. **SUBMITTING PROPOSALS:** Envelopes containing ITBs must be sealed, marked, and addressed as shown in the example below. Put the ITB number and opening date on the envelope of the ITB information. Envelopes with ITB numbers annotated on the outside will not be opened until the scheduled date and time. Envelopes not containing this information may result in a rejected proposal.

Purchasing Department  
Federal Way Public Schools No. 210  
33330 8<sup>th</sup> Ave S  
Federal Way WA 98003

ITB title/number: **FWPS ITB042816**  
Opening Date: **May 12, 2016, 2:00pm**

Vendors shall use this and any attached forms in submitting proposals. No other forms will be accepted.

3. **PRODUCTS:** Unless otherwise specified, all prices shall be for new merchandise. Vendor may quote on any or all items. Prices quoted shall include all handling and packaging costs. Prices quoted for equipment shall include cost of instruction and services manuals where appropriate. The District reserves the right to accept KCDA and state contract pricing in lieu of a proposal.
4. **PRICES:** The ITB shall state prices in the units of issue. Prices quoted for commodities and service must be in US funds and include applicable federal duty, brokerage fees, packaging, and transportation costs to the FOB point so that upon completion of the service or transfer of title the commodity can be utilized without further cost. Prices quoted must be exclusive of federal, state and local taxes. Invoices submitted for payment shall include a separate line for all taxes required by State of Washington law. All pricing has been determined independently, without consultation, communication or agreement with others for the purpose of restricting this ITB.
5. **ADDENDUMS:** List all addendum(s) received by name and addendum number on the first page of this ITB.
6. **SPECIFICATIONS/ALTERNATIVES AND EQUALS:** The District often uses manufacturer's brand and model designations as a specification standard. In some cases, special brands are designated for compatibility with existing facilities or equipment. Offerings of alternate quality of features will, at the District's discretion, be considered on an "alternate" basis. Brands of equal specification, quality, performance, and use may be considered on an "equal" basis; however the District reserves the sole right in qualifying an "equal". All proposals must include complete description and descriptive literature with the proposal document when an "alternate" or "equal" is bid. If the District accepts a bid on an "alternate" or "equal" basis and the vendor has quoted the wrong item, as determined by the District, the vendor agrees to pick up the item at their expense and refund any payment for the item within 30 days.
7. **VENDOR'S CERTIFICATION:** By signature on their proposal, vendors certify that: they have read this ITB; are authorized to bind the vendor; and agree to furnish the requested supplies, equipment, references or services in accordance with the outlined specifications.

8. **MISCELLANEOUS:** Illegible proposals will be rejected. Retain a copy for your records. All proposals and other materials submitted become the property of Federal Way Public Schools. Public records are open to reasonable inspection by the public.
9. **MANUALS:** The district will require two (2) complete service manuals in hard copy and one (1) electronic version (CD or thumb drive) per unit order as well as two (2) operator or instruction manual per each item. All manuals that will be supplied as part of this bid will be listed for each unit and included with the equipment at the time of delivery.
10. **COMPLETENESS OF SYSTEMS:** It is the vendor's responsibility to supply all necessary and usual components, cabling, and operating manuals for all hardware and operating software offered, and these costs will be included in the bid prices. This excludes power outlets, extension cords, or other items not generally included as part of the system components. Any apparatus, appliance, equipment, material or work not shown in the specifications or any incidental accessories necessary to make the work complete in all respects and ready for operation, even if not particularly specified, shall be furnished by the bidder without additional expense to the District.
11. **BID AWARD:** The District seeks qualified vendors and reserves the right to reject any and all bids, to waive any and all informalities and the right to disregard all nonconforming, non-responsive, or conditional bids. Each item will be awarded separately and the District reserves the right not to make any award. Award of the contract(s) will be made on the basis of bid price and other factors such as:
  - a. The ability, capacity, and skill of the vendor to provide the materials and/or services required;
  - b. Whether the vendor can supply the materials and/or services within the time specified;
  - c. The quality of performance of previous materials and/or services; and
  - d. The previous and existing compliance by the vendor with laws relating to the contract or services;
  - e. Product Warranty;

The District may use any means necessary to assist in the evaluation of any bid and to establish the responsibility, qualifications, and financial ability of the vendor to supply materials and/or services to the District's satisfaction within the prescribed time. The District reserves the right to reject the bid of any vendor who does not pass any such evaluation to the District's satisfaction.

12. **EVALUATIONS OF BIDS:** The bid will be awarded to the lowest responsible bidder. The lowest responsible bid will be based on an evaluation of the equipment, its price, its ability to meet the technical specifications, delivery timelines and the evaluation criteria shown hereafter. The decision resulting from the evaluation process remains the sole responsibility of the district and is final.

#### Evaluation Scoring Matrix

<u>Criterion</u>	<u>Potential Points</u>
<b>Product Price with all specifications met</b>	<b>70</b>
<b>Delivery timeline</b>	<b>10</b>
<b>Warranty</b>	<b>10</b>
<b>Training</b>	<b>10</b>
<b>Local (within 50 miles) Factory Authorized Service Provider</b>	<b><u>10</u></b>
<b>TOTAL POINTS =</b>	<b>110</b>

13. **DELIVERY ADDRESS:** Items are to be delivered to responder's address, inspected and then delivered, assembled and installed at Federal Way High School. Federal Way High School, 30611 16<sup>th</sup> Ave S, Federal Way, WA 98003.
14. **AUTHORIZED DEALER:** Respondent must be an authorized factory dealer, have service experience with the offered equipment, and be able to provide factory authorized service within the District.
15. **QUESTIONS:** Questions related to this ITB are to be directed to Lynn Shore, Buyer, via [rpf@fwps.org](mailto:rpf@fwps.org). The subject line of the email must be labeled "FWPS ITB042816 Question".

## **GENERAL TERMS AND CONDITIONS**

1. **AUTHORITY:** This ITB is written in accordance with R.C.W. 28A.335.190 and the applicable policies of Federal Way Public Schools.
2. **COMPLIANCE:** In the performance of a contract that results from this ITB the vendor must comply with all federal, state, and court regulations, codes, and laws; and be liable for all required insurance, licenses, permits and bonds; and pay all applicable taxes.
3. **TAXES:** Federal Way Public Schools is exempt from Federal Excise Tax. The District is required to remit Washington State Sales Tax including purchases outside of Washington where no sales tax is collected. Items purchased for fund raising purposes will be exempt from Washington State Sales tax under RCW82.04.3651.
4. **DELIVERY:** Quoted prices are to be FOB Destination and shipping is to be prepaid and included (by the vendor). All items ordered may not be delivered to the same address within the District. All merchandise is subject to inspection and acceptance by District personnel before final payment.
5. **PACKING LISTS:** Packing lists must accompany all deliveries and include vendor's name, purchase order number, ITB item number, unit of purchase, quantity shipped and quantity backordered. Packing lists are not considered invoices.
6. **PAYMENT:** Federal Way Public Schools' payment terms are NET 30. Invoices should be reviewed for accuracy to reflect information and pricing as proposed. At discretion of the District, partial payments will be made for partial deliveries.
7. **CONTINUING OBLIGATION OF VENDOR:** Notwithstanding the expiration date of a contract resulting from this ITB, the vendor is obligated to fulfill its responsibilities until warranties, guarantees, maintenance and parts availability requirements have completely expired, and beyond.
8. **RIGHT OF INSPECTION:** The Vendor shall provide right of access to its facilities to Federal Way Public Schools, or any of its officers, authorized agent or official, at reasonable times, in order to monitor and evaluate performance, compliance and/or quality assurance under this contract.
9. **SUITABLE MATERIALS:** Unless otherwise specified, all materials, supplies or equipment offered in the ITB shall be new, unused, of the latest edition, version, and model or of recent manufacture. All products offered shall meet or exceed the applicable requirements of OSHA and WISHA. All products to be manufactured to Underwriters Laboratories Inc. testing standards.
10. **FIRM OFFER:** For the purpose of award, offers made in accordance with this ITB must be good and firm for a period of ninety (90) days from the date of the ITB opening.
11. **EXTENSION OF PRICES:** In case of error in the extension of prices in the ITB, the unit prices will govern, in a lot bid the lot prices shall govern.
12. **ITB PREPARATION COSTS:** Federal Way Public Schools is not liable for any costs incurred by the ITB preparation.
13. **ITB REJECTION:** Federal Way Public Schools reserves the right to reject any or all proposals, and to waive informalities or irregularities in any proposal. No faxed, e-mailed, or "postage due" proposals will be accepted.
14. **ADDENDUMS:** If it is necessary for Federal Way Public Schools to issue an addendum to this ITB it will be promptly mailed to all interested parties registered with the Purchasing Department. If mandatory pre-proposal meetings are held, the addendum may only be sent to those who attended. All official clarifications or interpretations

of the ITB documents will be by written addendum. Clarification given in any other form will be unofficial. It is the vendor's responsibility to be aware of addendum(s) associated with an ITB.

15. **CONTRACT FUNDING:** Vendors are advised that the District anticipates the availability of funds for this ITB. Quantities identified are the **estimated** number of each item needed and will be used in the proposal evaluation process; however, the District reserves the right to increase or decrease actual quantities ordered. Unit pricing must be valid regardless of quantity ordered. Individual items may be awarded individually.
16. **ASSIGNMENT (ITB):** Assignment of the rights and duties under a contract or Purchase Order resulting from this ITB is not permitted unless authorized in writing by Federal Way Public Schools Purchasing Department.
17. **FORCE MAJEURE:** (Impossibility to perform) The vendor is not liable for the consequences of any failure to perform, or default in performing any of its obligations under this agreement, if that failure default is caused by any unforeseeable Force Majeure, beyond the control of and without the fault or negligence of the vendor. For the purposes of this ITB, Force Majeure will mean war (whether declared or not); revolution; invasion; insurrection; riot; civil commotion; sabotage; military or usurped power; lightning; explosion; fire; storm; drought; flood; earthquake; epidemic; quarantine; strikes; acts or restraints of governmental authorities affecting the project or directly or indirectly prohibiting or restricting the furnishing or use of materials or labor required; inability to secure materials, machinery, equipment or labor because of priority, allocation or other regulations of any governmental authorities.
18. **LATE ITB'S:** Late ITBs are those received after the date and time set for the receipt of the ITBs **AND WILL BE REJECTED.**
19. **CONTRACT EXTENSION:** Unless otherwise provided in the ITB, Federal Way Public Schools and the successful vendor agree: (1) any holding over of the contract excluding any exercised renewal options will be considered as a month-to-month extension with all other terms and conditions remaining in effect and (2) to provide written notice to the other party of intent to cancel the month to month extension at least thirty (30) days before the desired date of cancellation.
20. **DEFAULT:** In case of default by the vendor, for any reason whatsoever, Federal Way Public Schools may procure the goods or services from another source and hold the vendor responsible for any resulting excess cost and may seek other remedies under law or equity.
21. **HOLD HARMLESS:** The vendor will indemnify, hold harmless and defend the school district, its officers, agents and employees from all liability, including costs and expenses, for all actions or claims resulting from injuries or damages sustained by any person or property arising directly or indirectly as a result of any error, omission or negligent act of the vendor, subcontractor or anyone directly or indirectly employed by them in the performance of this contract.
22. **JURISDICTION:** This ITB has been and shall be construed as having been made and delivered within the State of Washington and it is agreed by each party hereto that this ITB shall be governed by the laws of the State of Washington, King County, both as to interpretation and performance. Any action of law, suit in equity, or judicial proceeding for the enforcement of this ITB or any provisions thereof shall be instituted and maintained and venue shall be only in the courts of competent jurisdiction in King County, Washington.
23. **ORDER DOCUMENTS:** Federal Way Public Schools is not bound by a vendor contract signed by a person who is not specifically authorized to sign for Federal Way Public Schools.
24. **BILLING INSTRUCTIONS:** Invoices must be billed to the invoicing address shown on the Purchase Order and not to the Purchasing Department. Federal Way Public Schools will make payment after it receives the merchandise or service and the invoice. Questions concerning payment must be addressed to Federal Way Public Schools, Accounts Payable Department.
25. **COPYRIGHT PROVISIONS:** Unless otherwise provided, all Materials produced under this contract shall be considered "works for hire" as defined by the U.S. Copyright Act and shall be owned by Federal Way Public Schools. Federal Way Public Schools shall be considered the author of such Materials. In the event the Materials are not considered "works for hire" under the U.S. Copyright Laws, Vendor hereby irrevocably assigns all right, title and

interest in Materials, including all intellectual property rights, to Federal Way Public Schools effective from the moment of creation of such Materials. Materials means all terms in any format and includes, but is not limited to, data, reports, documents, pamphlets, advertisements, books, magazines, surveys, studies, computer programs, films tapes, and/or sound reproductions. Ownership includes the right to copyright, patent, register and the ability to transfer these rights.

26. **SAMPLES:** In some cases, samples are requested to be furnished by the Vendor at no charge to the District to determine acceptability of any item. All samples must be labeled with Vendor's Name, ITB Number and ITB Item Number.
27. **ITB CHANGES OR WITHDRAWAL:** All changes and erasures must be made before proposal opening date and time, and initialed. Vendor may not withdraw their ITB after the ITB opening.
28. **ITB BOND:** An ITB bond is not required.
29. **PERFORMANCE BOND:** A performance bond is not required.
30. **INSURANCE:** The following insurance is required and must be kept in force during the term of the contract. All required insurance must be in place prior to the start of any work. Federal Way Public Schools shall be given thirty (30) days prior written notice of any cancellation, suspension or material change in coverage. **Federal Way Public Schools must be named additional insured with endorsement provided.**

#### **Commercial General Liability**

- a. Written on an occurrence basis with limits no less than \$1,000,000.00 combined single limit per occurrence and
- b. \$2,000,000.00 aggregate for personal injury, bodily injury and property damage. Coverage shall include but not limited to: blanket contractual, products/completed operations, broad form property damage, explosion, collapse and underground (XCU) if applicable and employer's liability.

#### **Professional Liability Insurance**

Limits no less than \$1,000,000.00 per occurrence.

31. **CONFIDENTIALITY / SAFEGUARDING OF INFORMATION:** The Vendor shall not use or disclose any information concerning Federal Way Public Schools, or information which may be classified as confidential, for any purpose not directly connected with the administration of this contract, except with prior written consent of Federal Way Public Schools, or as required by law, during the term of this contract and beyond.
32. **SEVERABILITY:** The provisions of this contract are intended to be severable. If any term or provision is illegal or invalid for any reason whatsoever, such illegality or invalidity shall not affect the validity of the remainder of this contract.
33. **VENDOR EMPLOYEES-ACCESS TO CHILDREN:** The vendor is prohibited from employing any person who may have contact with children at public schools during completion of this contract who has pled guilty to or been convicted of crimes listed in R.C.W. 26A.400.330. Failure to comply with this section shall be grounds for immediate termination of this contract.
34. **DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION:** A Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion form is attached. This form is an integral part of this ITB and must be completely filled in, signed and returned as part of the ITB package in order to be considered as a qualified bidder.

FEDERAL WAY PUBLIC SCHOOLS

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion

(BEFORE COMPLETING CERTIFICATION, READ INSTRUCTIONS THAT FOLLOW)

In submitting the proposal to provide products and/or services as outlined in the bid specifications the prospective vendor certifies, by submission of this document, that neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from Federal procurement actions by any Federal Department or Agency. The prospective vendor further agrees by submitting this form that it will inform any and all subcontractors of this requirement and document such notification.

Where the prospective vendor is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation.

We fully understand that, if information contrary to this certification subsequently becomes available, such evidence may be grounds for non-award or nullification of a bid contract or cancellation of purchase orders and personal services agreements.

This certification is required by the regulations implementing Executive Order 12549, Debarment and Suspension, Participant’s Responsibilities.

Signed: \_\_\_\_\_

Title: \_\_\_\_\_

Firm: \_\_\_\_\_

Address: \_\_\_\_\_

City & State: \_\_\_\_\_

Date: \_\_\_\_\_

## Item #1

Description: CNC Machining Center

Model: ProMill 8000 CNC Machining Center, Benchmill 8000 Bundle for Engineering, PLTW-CIM-8000

Substitutions: Permitted if equipment meets or exceeds specified item. If a substitution is bid, a product specification sheet MUST be included with the vendor response. See Instructions for ITB, Section 6, Specifications/Alternative and Equals.

Quantity of Order = 1

VENDOR NAME: \_\_\_\_\_

Proposed Item: \_\_\_\_\_  
Must list product, manufacturer and model

Sales tax: See Instructor for ITB, Section 4, Pricing

BID PRICE

Qty 1: ProMill 8000

Benchmill 8000 Bundle for Engineering

Part # PLTW-CIM-8000

\$\_\_\_\_\_

ProMill8000 Accessories:

Qty 1: Coolant Pump – 100VAC

Part #10-1108-1110

\$\_\_\_\_\_

Qty 1: Jog Pendant

Part # 10-1111-1000

\$\_\_\_\_\_

Qty 1: Machinist Kit

Part # 10-5810-0000

\$\_\_\_\_\_

Shipping FOB Destination: Inside delivery, fully assembled and packaging removed. There is no loading dock at the delivery location.

\$\_\_\_\_\_

Describe product warranty and include the warranty document with your response.  
Clearly label the warranty document: FWPS ITB042816, Item #1.

Product lead time, in calendar days, from the date the vendor receives the order.

\_\_\_\_\_



Is the respondent an authorized dealer and service center for this equipment? \_\_\_\_\_

If not, please list the closest manufacturer's authorized service center's vendor name, address and contact phone number for this equipment.

Service Vendor Name: \_\_\_\_\_

Service Vendor Address: \_\_\_\_\_

Service Vendor Phone Number: \_\_\_\_\_

Describe any and all training offered on the operation and function of this equipment and any required software. Reference any related costs for the described training.

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#### SECIFICATION COMPLIANCE

Specify compliance with all specifications listed below and on page 10 by writing "COMPLIANT" below or indicate any and all descriptions of deviations when a specification or standard feature are not met.

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Item 1, Additional Product Specifications below and on page 10:

- Freestanding unit with portability
- Fully enclosed work area with safety door locks
- Automatic tool changer
- Brushless spindle motor
- Flood coolant
- Single axis air vice
- Tool holder rack
- No assembly required
- Real-time toolpath verification
- Diagnostics and power cut-off protection
- Curriculum training software approved by Race to The Top program
- Machine Size; Width 1280mm or 50.40", Depth 895mm or 35.23", Height 1845mm or 72.64"

# ProMill 8000 CNC Machining Center

The ProMill 8000 is a versatile CNC machining center that enables you to deliver robust instruction in computer numerical control and advanced manufacturing for your students.

The ProMill 8000 is an AC servo motor 3-axis, PC-based mill with an optional 4th rotary axis. The mill requires no assembly, arriving at your facility ready to run on an Ethernet port on a standard PC. Like larger industrial machines, the ProMill 8000 uses EIA, ISO, and FANUC™-compatible G&M code programs to cut parts in a variety of materials.

## Standard Features

- Ethernet-based control
- AC servo axis motors
- Brushless spindle motor
- Full enclosure with automatic safety door lock
- 12-Tool automatic tool changer
- Automatic diagnostics and power cut off protection
- PC-based CNC software
- Pneumatic drawbar
- Coolant-ready
- Jog pendant-ready
- 4th-axis ready
- Robotic integration-ready with 6 inputs, 6 outputs
- No assembly required

## Included Accessories

- Pneumatic drawbar
- Internal work light
- One shot lubrication system
- ProMill accessory package:
  - ◇ [1] 10-pc. Clamping kit
  - ◇ [1] 4-flute, HSS end mill - 3 mm
  - ◇ [1] 4-flute, HSS end mill - 1/8"
  - ◇ [1] ISO 20 tool holder
  - ◇ [1] ER16 collet - 4 mm
  - ◇ [1] ISO 20 Tool holder nut wrench
  - ◇ [1] Tool Holder wrench, 30mm
  - ◇ [1] Open-end wrench Set, 3-pc
  - ◇ [1] Allen wrench set, 6-pc
  - ◇ [1] 2M Ethernet cable
  - ◇ [1] Storage box
  - ◇ Misc. accessories

## Specifications

### Axis Travel

X Axis, max	280 mm	11"
Y Axis, max	152 mm	6"
Z Axis	270 mm	10.625"

### Work Area

Table Size	550x160 mm	21.6"x6.3"
No. of T-Slots	3	
T-slot size	12 mm	0.47"
Max. table load	35 Kg	77 lbs

### Spindle

Motor Type	Brushless	
Motor power	1.34 hp, 1000 w	
Spindle speed	100 – 5000 RPM	
Spindle taper	ISO20	
Max. tool diam.	10 mm	0.375"
Throat	232 mm	9.130"

### Accuracy

Position accuracy	0.038 mm	0.0015"
Repeatability	0.010 mm	0.0004"

### Axis Drive Motors

Axis motor type	AC servo	
X axis	400w	
Y axis	400w	
Z axis	750w	
Rapid feed rate	5000 mm/min	197 ipm
Feed rate	2540 mm/min	100 ipm

### Air Supply Requirements

620 kPa (90 psi)  
1/4" NPT female connection provided

### Control Software

EIA RS274-D standard G & M code compatible  
FANUC® compatible  
CAD/CAM compatible  
Advanced NC code editing  
Real-time or simulated graphic tool path verification

### Computer System Requirements

Intel / AMD Single Core 1.6GHz  
512MB RAM  
300MB Available Disk Space  
Windows XP SP3 / Vista / 7 - 32 or 64bit  
1 available LAN port\*

\*Additional LAN port required if your computer requires wired network access

### Power Requirements

#### United States

115 VAC (+5%/-10%) 60 Hz, 20A

## Item #2

Description: CNC Turning Center

Model: ProTurn 9000-100VAC, CNC Turning Center

Substitutions: Permitted if equipment meets or exceeds specified item. If a substitution is bid, a product specification sheet MUST be included with the vendor response. See Instructions for ITB, Section 6, Specifications/Alternative and Equals.

Quantity of Order = 1

VENDOR NAME: \_\_\_\_\_

Proposed Item: \_\_\_\_\_

Must list product, manufacturer and model

Sales tax: See Instructor for ITB, Section 4, Pricing

### PRICING

Qty 1: ProTurn 9000 – 100VAC, CNC Turning Center

Part # 00-5501-0110 \$\_\_\_\_\_

ProTurn 9000 Accessories:

Qty 1: Coolant Pump – 100 VAC

Part # 10-1108-1110 \$\_\_\_\_\_

Qty 1: Jog Pendant

Part # 10-1111-1000

Qty 1: Cutting Tool Set

Part # 10-1110-1000 \$\_\_\_\_\_

Qty 1: Cutting Tool Set

Part # 10-1110-2000 \$\_\_\_\_\_

Qty 1: Tailstock

Part # 10-1105-7000 \$\_\_\_\_\_

Qty 1: Tailstock

Part # 10-1106-6000 \$\_\_\_\_\_

Shipping FOB Destination: Inside delivery, fully assembled and packaging removed. There is no loading dock at the delivery location.

\$\_\_\_\_\_

Describe product warranty and include the warranty document with your response.  
Clearly label the warranty document: FWPS ITB042816, Item #2.

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Product lead time, in calendar days, from the  
date the vendor receives the order \_\_\_\_\_

Is the respondent an authorized dealer and  
service center for this equipment? \_\_\_\_\_

If not, please list the closest manufacturer's authorized service center's vendor name, address and contact  
phone number for this equipment.

Service Vendor Name: \_\_\_\_\_

Service Vendor Address: \_\_\_\_\_

Service Vendor Phone Number: \_\_\_\_\_

Describe any and all training offered on the operation and function of this equipment and any required  
software. Reference any related costs for the described training.

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#### SECIFICATION COMPLIANCE

Specify compliance with all specifications listed below and on page 13 by writing "COMPLIANT" below or  
indicate any and all descriptions of deviations when a specification or standard feature are not met. Use more  
space if needed.

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Item 2, Additional Product Specifications below and on page 13:

- Freestanding unit with portability
- Fully enclosed work area with safety door locks
- 4 station automatic tool changer
- Flood coolant
- No assembly required
- Minimum 3.5 x 12 inch travel
- Replaceable inserts on cutters
- Real-time toolpath verification
- Machine Size; Width 1460mm or 57.50", Depth 760mm or 30.00", Height 1500mm or 59.00"

# ProTurn 9000 CNC Turning Center

The ProTurn 9000 requires no assembly, arriving at your facility ready to run on an Ethernet port on a standard PC. The system uses powerful AC drive motors on the spindle and both axes, for part cutting in a variety of materials. Like larger industrial machines, the ProTurn 9000 uses EIA, ISO, and FANUC™-compatible G&M code programs.

With available supplements like CNCBase® control software, CNCMotion® full 3-D virtual simulation software, FANUC™ control software, and LearnMate® e-learning curriculum specific to the machine, the ProTurn 9000 is the perfect training solution, with exceptional ease-of-use, safety features and reliability.

## Standard Features

- Ethernet-based control
- Powerful AC spindle motor
- AC motors on both axes
- Full enclosure with automatic safety door lock
- Automatic diagnostics and power cut off protection
- PC-based CNC software
- Coolant-ready
- Jog pendant ready
- Robotic integration-ready with 6 inputs, 6 outputs
- No assembly required

## Included Accessories

- Tailstock
- 4" 3-jaw chuck
- 4-station automatic tool turret
- One shot lubrication system
- Internal work light

## Turning center accessory package:

- (1) Chuck key
- (1) Chuck jaw set
- (2) Dead centers
- (1) Spanner wrench
- (1) 4-pc. Allen wrench set
- (1) 4-pc. Open-end wrench set
- (1) 2M Ethernet cable
- (1) Storage box
- Misc. accessories

## Specifications

### Axis Travel

X Axis, max	90 mm	3.54"
Z Axis	305 mm	12.00"

### Work Area

Swing over bed	250 mm	9.87"
Swing over cross slide	150 mm	5.90"
Max distance between centers	450 mm	17.75"
Bed width	135 mm	5.33"

### Spindle

Motor Type	Brushless	
Motor power	1.34 hp, 1000 w	
Spindle speed	100 – 3000 RPM	
Spindle taper	MT3	

### Tooling

Automatic tool position	4	
Tool post angle	360 deg.	
Tailstock taper	MT2	
Tailstock travel	50 mm	1.97"

### Accuracy

Position accuracy	0.015 mm	0.0006"
Repeatability	0.010 mm	0.0004"

### Axis Drive Motors

Axis motor type	AC servo
X axis	400w
Z axis	400w
Rapid feed rate	5000 mm/min 197 ipm
Feed rate	2540 mm/min 100 ipm

### Air Supply\*

\*Only required for optional pneumatic accessories:  
90 psi (620 kPa)  
1/4" NPT female connection provided

### Control Software

EIA RS274-D standard G & M code compatible  
FANUC® compatible  
CAD/CAM compatible  
Advanced NC code editing  
Real-time or simulated graphic tool path verification

### Computer System Requirements

Intel / AMD Single Core 1.6GHz  
512MB RAM  
300MB Available Disk Space  
Windows XP SP3 / Vista / 7 - 32 or 64bit  
1 available LAN port\*

\*Additional LAN port required if your computer requires wired network access

### Power Requirements

#### United States

115 VAC (+5%/-10%) 60 Hz, 20A

Item #3

Description: Laser Engraver / Cutter  
Model: Trotec, Speedy 400 Flexx  
Substitutions: Permitted if equipment meets or exceeds specified item. If a substitution is bid, a product specification sheet MUST be included with the vendor response. See Instructions for ITB, Section 6, Specifications/Alternative and Equals.  
Quantity of Order = 1

VENDOR NAME: \_\_\_\_\_

Proposed Item: \_\_\_\_\_  
Must list product, manufacturer and model

Sales tax: See Instructor for ITB, Section 4, Pricing	BID PRICE
Qty 1: Trotec, Speedy 400 Flexx	\$_____
Trotec, Speedy 400 Flexx Accessories:	
Qty 1: Black Aluminum Grid-Table	\$_____
Qty 1: Pass-Through (machine will become class IV)	\$_____
Qty 1: Pump for air assist (115VAC)	\$_____
Qty 1: Rotary attachment with conus or rolls (ruler in inch)	\$_____
Qty 1: Corel Draw X7 EDU	\$_____

Shipping FOB Destination: Inside delivery, fully assembled and packaging removed. There is no loading dock at the delivery location. \$\_\_\_\_\_

Describe product warranty and include the warranty document with your response.  
Clearly label the warranty document: FWPS ITB042816, Item #3.

\_\_\_\_\_

Product lead time, in calendar days, from the date the vendor receives the order. \_\_\_\_\_

Is the respondent an authorized dealer and service center for this equipment? \_\_\_\_\_

If not, please list the closest manufacturer’s authorized service center’s vendor name, address and contact phone number for this equipment.

Service Vendor Name: \_\_\_\_\_

Service Vendor Address: \_\_\_\_\_

Service Vendor Phone Number: \_\_\_\_\_

Describe any and all training offered on the operation and function of this equipment and any required software. Reference any related costs for the described training.

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SECIFICATION COMPLIANCE

Specify compliance with all specifications listed below and on page 16 by writing “COMPLIANT” below or indicate any and all descriptions of deviations when a specification or standard feature are not met.

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Item 3, Additional Product Specifications below and on page 16:

- Working Area 1000mm x 610mm or 39” by 24”
- Maximum height of workpiece 305mm
- Maximum processing speed
  - CO2 laser, 3.55 min/sec
  - Fiber laser, 2.0 min/sec
  - Acceleration, 4g
- Minimum 80 watt CO2 air cooled laser preferably with ceramic core
- Laser power
  - CO2 laser, 80 watts
  - Fiber laser, 20 watts
- Rotary attachment for cylinder and conical parts
- Pass-Through Option allowing for larger parts
- Air assist (without pump)
- Capability to interchange tables for handling multiple materials
- Laser pointer for indicating the location the laser beam will contact
- ISO certified

- Engraving table
- Exhaust filter – ATMOS mono plus
- LED cabinet interior lighting
- Charcoal air filter system
- Brushless servo motors
- Autofocus with sensor
- USB interface
- 2” lens
- InPack Technology <sup>TM</sup>
- Job Control® Vision
- Sonar Technology <sup>TM</sup>
- Materials compatible for laser engraving and cutting

Engraving: Acrylic, Aluminum, Anodized Aluminum, Glass, Fabric, Laminates, Leather, Metal, Paper, Plastic, Stainless Steel, Stone, Wood

Cutting: Acrylic, Aluminum, Anodized Aluminum, Fabric, Laminates, Leather, Metal, Paper, Plastic, Stainless Steel, Wood

Marking: Acrylic, Aluminum, Anodized Aluminum, Laminates, Metal, Plastic, Stainless Steel



## Item #4

Description: 3D Printer

Model: Stratasys, uPrint SE 3D Plus Printer bundle, Part # 680-50505-B

Substitutions: Permitted if equipment meets or exceeds specified item. If a substitution is bid, a product specification sheet MUST be included with the vendor response. See Instructions for ITB, Section 6, Specifications/Alternative and Equals.

Quantity of Order = 1

VENDOR NAME: \_\_\_\_\_

Proposed Item: \_\_\_\_\_

Must list product, manufacturer and model

Sales tax: See Instructor for ITB, Section 4, Pricing

BID PRICE

Qty 1: Stratasys, uPrint SE Plus 3D Printer bundle

Part # 680-50505-B

\$\_\_\_\_\_

Bundle Includes:

- 3 year comp print pack
- uPrint SE Plus 3D Printer (110VAC/220VAC/50-60Hz, 12 Amp)
- Model and support material carriers
- UPrint SE Plus Start-up supply kit
- 2 ea uPrint SE Plus Printer Care
- Catalyst EX software (site license) which provides the following:
  - A 3D view of the model or models to be printed
  - The ability to scale 3D models to desired size
  - A print queue to assign many jobs, with the estimated print time and material consumption
  - Control over how to orient your model in the build chamber
- 2 ea uPrint Se Plus Education Material Pkg (Ivory) includes the following:
  - 10 ea P430XL model spool ivory (42 cu in / 688cc)
  - 3 ea SR-30XL soluble support spool (42 cu in / 688cc)
  - 2 cases uPrint SE modeling bases 8X8in (203 x 203mm) – case of 24
- 1 ea uPrint SE Plus Educational Material Pkg (Colors) includes the following:
  - 2 ea P430XL model spool black (42 cu in / 688cc)
  - 2 ea P430XL model spool red (42 cu in / 688cc)
  - 2 ea P430XL model spool blue (42 cu in / 688cc)
  - 2 ea P430XL Model spool florescent yellow (42 cu in / 688cc)
  - 2 ea P430XL model spool olive green (42 cu in / 688 cc)
  - 3 ea SR-30XL soluble support spool (42 cu in / 688cc)
  - 2 cases uPrint SE Modeling bases 8X8 in (203 x 203mm) – case of 24
- SCA-1200HT (100-120VAC) support cleaning apparatus with 1 case Ecoworks cleaning agent

Shipping FOB Destination: Inside delivery, fully assembled and packaging removed. There is no loading dock at the delivery location. \$\_\_\_\_\_

Describe product warranty and include the warranty document with your response. Clearly label the warranty document: FWPS ITB042816, Item #4.

Product lead time, in calendar days, from the date the vendor receives the order. \_\_\_\_\_

Is the respondent an authorized dealer and service center for this equipment? \_\_\_\_\_

If not, please list the closest manufacturer’s authorized service center’s vendor name, address and contact phone number for this equipment.

Service Vendor Name: \_\_\_\_\_

Service Vendor Address: \_\_\_\_\_

Service Vendor Phone Number: \_\_\_\_\_

Describe any and all training offered on the operation and function of this equipment and any required software. Reference any related costs for the described training.

#### SECIFICATION COMPLIANCE

Specify compliance with all specifications listed below and on page 19 by writing “COMPLIANT” below or indicate any and all descriptions of deviations when a specification or standard feature are not met.

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Item 4, Additional Product Specifications below and on page 19:

- Workstation compatibility: Windows XP/Windows 7
- Network connectivity: Ethernet TCP/IP 10/100 base T
- Layer thickness: .254 mm (.010 in) or .330mm (.013in)
- Build Size: 203 x 203 x 152 mm ( 8 x 8 x 6 in)

- Support material: SR-30 soluble
- Ability to print 9 printing colors
- Enclosed, environmentally controlled work chamber
- Minimum ABS modeling material
- Regulatory Compliance: CE/ETL/RoHS/WEEE
- Wave Wash Support Cleaning System: 100-240 VAC, 50/60Hz 1200W
- Power requirements: 100-127 VAC 50/60 Hz, minimum 15A dedicated circuit or 220-240 VAC 50/60 Hz, minimum 7A dedicated circuit
- CatalystEX software (site license) provides the following:
  - A 3D view of the model or models to be printed
  - The ability to scale 3D models to desired size
  - A print queue to assign many jobs, with the estimated print time and material consumption
  - Control over how to orient your model in the build chamber

## Item #5

Description: CNC Router

Model: Forest Scientific HS 48 X 48, CNC Router

Substitutions: Permitted if equipment meets or exceeds specified item. If a substitution is bid, a product specification sheet MUST be included with the vendor response. See Instructions for ITB, Section 6, Specifications/Alternative and Equals.

Quantity of Order = 1

VENDOR NAME: \_\_\_\_\_

Proposed Item: \_\_\_\_\_

Must list product, manufacturer and model

Sales tax: See Instructor for ITB, Section 4, Pricing

BID PRICE

Qty 1: Forest Scientific, CNC Router

Model: HS 48 X 48

\$ \_\_\_\_\_

Forest Scientific HS 48 X 48, CNC Router Accessories:

Qty 1: 48X48 VAC system upgrade

\$ \_\_\_\_\_

Qty 1: 5HP 3PH High Frequency spindle

\$ \_\_\_\_\_

Qty 1: Deluxe Clamping Kit

\$ \_\_\_\_\_

Qty 1: Velocity tool touch off

\$ \_\_\_\_\_

Qty 1: 4" Rotary 4<sup>th</sup> Axis for standard  
Models

\$ \_\_\_\_\_

Qty 1: Velocity touch digitizing probe

\$ \_\_\_\_\_

Qty 1: Velocity remote job pendant

\$ \_\_\_\_\_

Qty 1: Computer / monitor on swing arm

\$ \_\_\_\_\_

Shipping FOB Destination: Inside delivery, fully  
assembled and packaging removed. There is no  
loading dock at the delivery location.

\$ \_\_\_\_\_

Describe product warranty and include the warranty document with your response.  
Clearly label the warranty document: FWPS ITB042816, Item #5.

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Product lead time, in calendar days, from the  
date the vendor receives the order. \_\_\_\_\_

Is the respondent an authorized dealer and  
service center for this equipment? \_\_\_\_\_

If not, please list the closest manufacturer's authorized service center's vendor name, address and contact  
phone number for this equipment.

Service Vendor Name: \_\_\_\_\_

Service Vendor Address: \_\_\_\_\_

Service Vendor Phone Number: \_\_\_\_\_

Describe any and all training offered on the operation and function of this equipment and any required  
software. Reference any related costs for the described training.

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#### SECIFICATION COMPLIANCE

Specify compliance with all specifications listed below by writing "COMPLIANT" below or indicate any and all  
descriptions of deviations when a specification or standard feature are not met.

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Item 5, Additional Product Specifications below:

- Dust collection hood
- Steel tubing construction
- Minimum 4 horsepower spindle
- Minimum 500 IPM travel speeds
- Vacuum table with pump
- 3 1/4 HP router
- Welded steel stand
- Starter set of bits
- Router power: 110VAC
- Vacuum table and spindle require 220VAC 3phase

ITB: High School Engineering and Shop Equipment  
ITB number: FWPS ITB042816

## Item #6

Description: Wind Tunnel

Omega, Laboratory Grade Benchtop Closed Loop Wind Tunnel

Model: WT-3067

Substitutions: Permitted if equipment meets or exceeds specified item. If a substitution is bid, a product specification sheet MUST be included with the vendor response. See Instructions for ITB, Section 6, Specifications/Alternative and Equals.

Quantity of Order = 1

VENDOR NAME: \_\_\_\_\_

Proposed Item: \_\_\_\_\_

Must list product, manufacturer and model

Sales tax: See Instructor for ITB, Section 4, Pricing

BID PRICE

Qty 1: Wind Tunnel

Omega, Laboratory Grade Benchtop Closed  
Loop Wind Tunnel, Model: WT-3067

\$\_\_\_\_\_

Omega WT-3067, Wind Tunnel Accessories

Qty 1: TVS-1040

4 element velocity/temperature sensors,  
scanner and software

\$\_\_\_\_\_

Shipping FOB Destination: Inside delivery, fully  
assembled and packaging removed. There is no  
loading dock at the delivery location.

\$\_\_\_\_\_

Describe product warranty and include the warranty document with your response.  
Clearly label the warranty document: FWPS ITB042816, Item #6.

Product lead time, in calendar days, from the  
date the vendor receives the order.

\_\_\_\_\_

Is the respondent an authorized dealer and  
service center for this equipment?

\_\_\_\_\_

If not, please list the closest manufacturer's authorized service center's vendor name, address and contact phone number for this equipment.

Service Vendor Name: \_\_\_\_\_

Service Vendor Address: \_\_\_\_\_

Service Vendor Phone Number: \_\_\_\_\_

Describe any and all training offered on the operation and function of this equipment and any required software. Reference any related costs for the described training.

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#### SECIFICATION COMPLIANCE

Specify compliance with all specifications listed below by writing "COMPLIANT" below or indicate any and all descriptions of deviations when a specification or standard feature are not met.

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Item 6, Additional Product Specifications below:

- 6 sensor / instrument ports
- Laboratory grade
- Table top model
- Easy access to test section
- Ability to control flow and temperatures while viewing data and monitoring events
- Aerodynamic and pressure drop measurement
- Sensor calibration
- 4 element velocity/temperature sensors, scanner and software
- Air flow controller with graphical user interface to automate the wind tunnel operation
- Wind Tunnel: cm(143.6L x 49.3W x 67.7H) inches(56.5L x 19.4W x 26.6H)
- Test Section: cm(41.8L x 22.5W x 8.9 H) inches(16.4L x 8.9W x 3.5H)
- Flow Range: (0 to 7 m/s) (0 to 1200 ft/min)
- Flow Uniformity: +/- 1%
- Flow Accuracy: +/- 2%
- Temperature Range: Up to 85 degrees C (185 degrees F)
- Temperature Accuracy: +/- 1 degree C
- Main AC Voltage: 220 VAC
- Main AC Fuse: 20 Amps
- Minimum support table size: cm(115L x 50W) inches(45.2 x 19.7)