ROSCO
PRECISION MACHINERY
MACHINE TOOLS AND METROLOGY EQUIPMENT

CELEBRATING 20 YEARS

2025

SERVING
WA, OR, ID, MT

We are proud to represent the premier Machine Tools and Measuring Instruments manufactured today.

Offerings include:

- **Equipment Sales –** CNC machines, Manual Machines, Coordinate and Video Measurement Systems.
- **Reliable Service –** Maintenance, Repair, Calibration, Certification and Installation.
- **Technical Expertise –** Applications Support, Training, Turn Key Services, Expert Advice and Consulting.

Rosco's showroom is located in Auburn, Washington and is fully equipped for demonstration and support. Our experienced staff can bring portable demonstration units to your facility.

TABLE OF CONTENTS:

Call us to set up a demonstration!

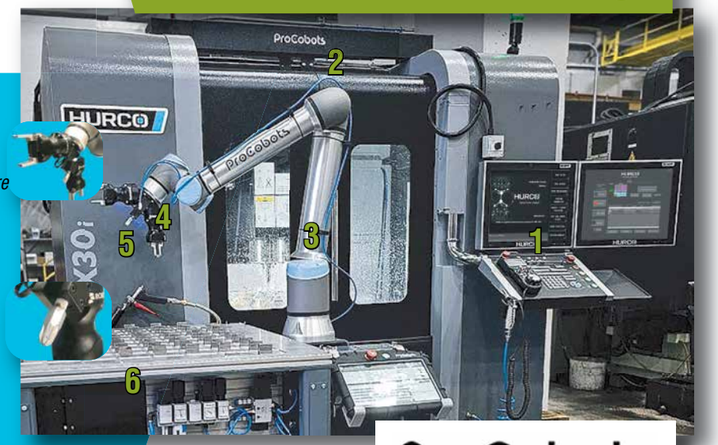
(253) 333-2439 | www.roscoprecisionmachinery.com
4710 - B Street NW - Unit 104, Auburn, Washington 98001

HURCO
mind over metal™

Hurco + ProCobots' fully-integrated robot system is easy to set up and run!

The Standard Package

1. **Automation Job Manager Software**
   Direct integration with WinMax® software
2. **Collaborative Auto Door**
   Force limited, contact detection
3. **ProCobots Cobot**
   No fencing or area scanners
4. **Dual Adaptive Grippers**
5. **Wrist Air Blast**
6. **Machine Tending System**



ProCobots
CNC Automation Done Right
www.procobots.com

3D Import with 3D DXF Technology

Hurco's 3D Import feature includes 3D DXF technology that now displays all CAD geometry, including splines and Z-depths.

To learn more scan the QR code or visit HURCO.com/3DImport

HURCO makes it easy.

- **True Interrupt Cycle –** When you press the Interrupt button, the spindle stops cutting, the coolant shuts off, and the tool automatically retracts to Z home. You can jog the machine in any direction to check the part or change tool inserts. Then, simply press two buttons and the cycle automatically resumes.
- **Conversational Part Probing –** Setup is a snap because the probe finds the part and determines its position on the table, including the skew angle there is no need to align the part to the machine using edge finders.
- **Mid-Program Restart –** After stopping a cycle, Mid-Program Restart makes it easy to restart at the point in the program where you left off. You can change a broken tool without all the frustration because you can get right back to the correct point in the program without the need to write additional code or cut air.

HURCO
mind over metal™

HURCO 3-Axis Machining Centers

Accurate & Rigid VMC's deliver performance cutting & smooth surface finish and the most powerful control available. Fastest processing available for G code programs w/4000 Blk/sec and 10,000 Blk lookahead. Superior Components and spindles; Yaskawa sigma V Digital controls and Drives.

HURCO – VM & VMX SERIES – *General Purpose Machines that you specify options to suit your needs.*

MODEL	TRAVELS	TABLE	POWER	SPEED	ATC	PGMFEED /XY RAPID
VM ONE	26/16/14	30 x 16	10hp	8,000 rpm	24 Tools	1,102/1,102 ipm
VM5i	18/14/14	18 x 14	10hp	8,000 rpm	24 Tools	748/748 ipm
VM10i	26/16/20	30 x 16	15hp	12,000 rpm	24 Tools	1,102/1,102 ipm
VM15D	30/16/20	-	23hp Direct Drive	12,000 rpm	24 Tools	1,102/1,102 ipm
VM20i	40/20/20	46 x 20	20hp	12,000 rpm	24 Tools	1,102/1,102 ipm
VM30i	50/20/20	52 x 20	20hp	12,000 rpm	24 Tools	1,102/1,102 ipm
VMX24i	24/20/24	30 x20	12hp	12,000 rpm	30	1,496/1,260 ipm
VMX24Di	24/20/24	30 x 20	12hp Direct Drive	15,000 rpm	30	1,771/1,557 ipm
VMX30i	30/20/24	40 x 20	18hp	12,000 rpm	30/40	1,496/1,260 ipm
VMX30Di	30/20/24	40 x 20	20hp Direct Drive	15,000 rpm	30/40	1,771/1,557 ipm
VMX50i	50/26/24	59 x 26	24hp	12,000 rpm	30/40	1,260/944 ipm
VMX50i-50T	50/26/24	59 x 26	30hp	8,000 rpm	30	1,260/944 ipm
VMX6030i	60/30/24	66 x 30	24hp	12,000 rpm	40	1,260/944 ipm
VMX6030i-50T	60/30/24	66 x 30	30hp	8,000 rpm	30	1,260/944 ipm
VMX64i	64/34/30	66 x 35	24hp	12,000 rpm	30/40/96	709/530 ipm
VMX64i-50T	64/34/30	66 x 35	30hp	8,000 rpm	32	709/530 ipm
VMX84i	84/34/30	86 x 34	24hp	12,000 rpm	40/96	530/709 ipm
VMX84i-50T	84/34/30	86 x 34	30hp	8,000 rpm	32	530/709 ipm

Hurco is Engineered in Indianapolis USA for more than 50 years.

50 YEARS of INNOVATION | 1969-2018 HURCO

PROUDLY MADE IN THE USA

HURCO BX Dual Column Bridge Design superior rigidity! Long Y Axis Travel & HSK63A Spindles

HURCO – BX SERIES – *High Speed Dual Column - Accuracy, Rigidity, Large Work Envelope*

MODEL	TRAVELS	TABLE	POWER	SPEED	ATC	PGMFEED /XY RAPID
BX40i	40/27/20	41 x 27	47hp/HSK63A	18,000 rpm	30/50	1417/1417 ipm
BX50i	52/37/24	60 x 31	47hp/HSK63A	18,000 rpm	30/50	1417/1417 ipm
BX60i	63/51/28	75 x 51	47hp/HSK63A	18,000 rpm	30/50	1417/1417 ipm

HURCO mind over metal™

HURCO Bridge Mill & Horizontal

HURCO – DCX SERIES – *Large Double Column - Best in Class Performace - Rigid and Fast*

MODEL	TRAVELS	TABLE	POWER	SPEED	ATC	PGMFEED /XY RAPID
DCX 22i	87/67/30	83 x 63	24hp	12,000 rpm	40	945/945 ipm
DCX 22 - 50Ti	87/67/30	83 x 63	35hp/50 Taper	6,000 rpm	40	591/472 ipm
DCX 32 - 50Ti	126/83/36	118 x 67	107hp/50 Taper	6,000 rpm	40	591/394 ipm
DCX 32- 5Si 5 Axis	126/83/36	118 x 67	75hp/HSK63A	18,000 rpm	40	591/394 ipm
DCX 3226 - 50Ti	126/102/36	157 x 83	107hp/50 Taper	6,000 rpm	40	492/394 ipm
DCX 42 -50Ti	165/102/43	157 x 83	107hp/50 Taper	6,000 rpm	40	492/394 ipm
HM1700Ri	67/47/35	67x36	64.4hp/50 Taper	8,000 rpm	30	787/1,181 ipm

HURCO – HBMX SERIES – *Horizontal Boring Mills - Small Footprint, Large Work Area.*

MODEL	TRAVELS	TABLE	POWER	SPEED	ATC	PGMFEED /XY RAPID
HBMX 55i	55/55/20 Cont B-Axis	44 x 50	40hp/50 Taper	2500/8-454 Low	60	394/158 ipm
HBMX 80i	79/70/67/20	57 x 63	40hp/50 Taper	2500/8-454 Low	60/90	394/158 ipm
HBMX 120i	118/70/67/20	57 x 63	40hp/50 Taper	2500/8-454 Low	60/90	394/158 ipm

HURCO mind over metal™

HURCO 5-Axis Machining Centers

HURCO – 5-AXIS

MODEL	TRAVELS	TABLE	AXIS ROTATION	RPM	SPEED /POWER
VM10Ui	21x16x19	9" dia	+30 / -110 A +/- 360 C	25 rpm 25 rpm	12K/15 hp
VMX30Ui	30x20x21	12.5" dia	+30 / -110 A +/- 360 C	25 rpm 25 rpm	12 & 15K/18hp
VMX40Ui	42x24x21	15.7" dia	+30 / -110 A +/- 360 C	25 rpm 25 rpm	12 & 15K/24hp
BX40Ui	37x22x20	13.7" dia	-30 /+110 B +/- 360C	25 rpm 25 rpm	18K/47hp
VC500i	21x18x16	19.7" dia	+/-110 B +/- 360 C	50 rpm 25 rpm	12K/17hp
VC600i	25x21x18	23.6" dia	+/-110 B +/- 360 C	25 rpm 25 rpm	12K/22hp
VMX42SRTi	42x24x24	23.6" dia 50" x 24"	+/- 90 B +/- 360 C	50 rpm 100 rpm	12K/48hp
VMX60SRTi	60x26x24	23.6" dia 66" x 26"	+/- 90 B +/- 360 C	50 rpm 100 rpm	12K/48hp
VMX84SWi	84x34x39	86"x 34"	+/- 90 B +/- 360 C	33 rpm	12K/48hp
DCX32-5Si	126x79x35	A/B Axis Swivel	+/- 105 B +/- 185 C	7.5 rpm 11 rpm	18K/72hp

WINMAX® SOFTWARE / 5-AXIS FEATURES

- Automatic Safe Repositioning
- 3D Tool Compensation
- Rotary Axes Centerline Probing
- Tool Center Point Management
- Shortest Angular Traverse
- Tool Path Linearization
- Transform Plane
- Tool Vector Canned Cycles
- Tool Vector Input & Retract
- Universal Rotary

5-Axis Solutions for Every Application

HURCO

A & C Trunnion

Trunnion table 7.8" to 19.7" dia.

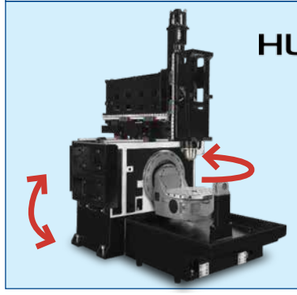
Allows for complete machining of complex parts and flexible fixturing.

HURCO

B Axis Tilting w/Torque Table

C or A Axis with the SW Series

Traditional rectangular table for larger workpiece capacity. C-Axis tables from 12" to 34." Work surface up to 84" in X.



HURCO Takumi

Cantalever B & A Axis

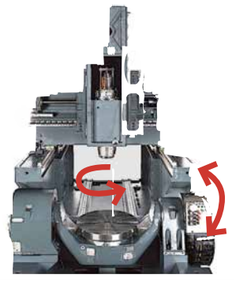
Configuration allows for short tools to be utilized when cutting smaller parts.

HURCO

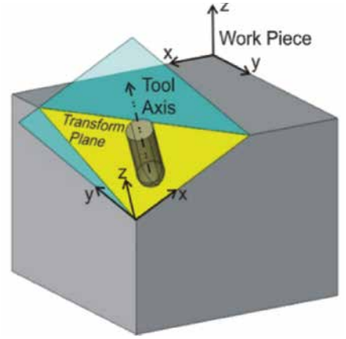
Bridge Style

Advanced gantry Rigid construction giving the best working conditions when machining the most complex work pieces.

Dual Drive Trunnion

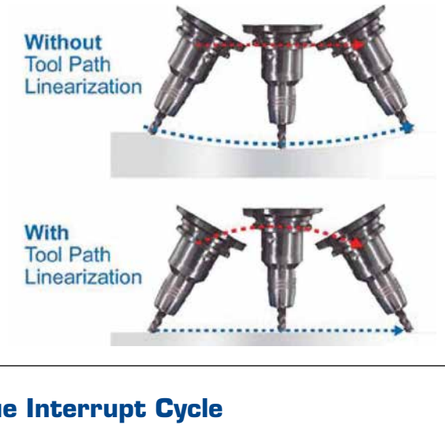


HURCO 5-Axis Machining Features



Transform Plane

Simplifies programming for 5-sided machining on a 5-axis machine by automatically tracking the desired origin points for each side of the part. You only need to define part zero one time, and Transform Plane manages all the other locations. It basically changes programming on a 5-axis mill back to 2.5D programming - it's like 3-axis programming on an angle.



Tool Path Linearization

Eliminates gouging of the workpiece and removes the looped line segments on the part that are formed from the XYZBC or AC moves that a CAM system commands. The tool tip will travel in a controlled linear move between points, and not simply a blind rotation. Benefits: Improved surface finish quality and smaller NC programs.

True Interrupt Cycle

No need to teach the control the path the tool takes when retracting and returning to the part – the Hurco control does it for you. When you press the Interrupt button, the spindle stops cutting, the coolant shuts off, and the tool automatically retracts to Z home. You can jog the machine in any direction to check the part or change tool inserts. Then, simply press two buttons and the cycle automatically resumes right where it left off–at the speed you choose.

Tool Center Point Management eliminates the need to account for the machine's center line of rotation. Instead, you simply program from part zero. Tool Center Point Management allows you to position the part anywhere on the table.

Benefits

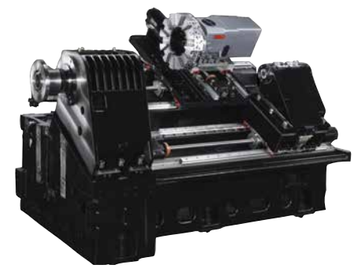
- Faster setup
- Less complex post processor (NC)
- Save time reposting the program (NC)

HURCO 2-Axis Turning Centers

Hurco Lathes are engineered with true slant-beds and rigid one-piece machine base castings designed to yield excellent static and dynamic performance in addition to outstanding dampening properties that inhibit thermal deformation and twisting for rigidity in hard cuts. Large, high torque spindles, wide distance between guideways, oversize ball screws and the most powerful control in the industry make HURCO the productive choice in turning.

HURCO TM SERIES GENERAL PURPOSE CNC LATHES				
MODEL	CHUCK	BAR DIA.	TURN DIA./LENGTH	POWER
TM6i	6	1.77	12.4/13.4	17.5hp
TM8i	8	2.6	14/20.6	31hp
TM10i	10	3.19	17.7/29.9	29.5hp
TM12i	12	4.2	20.1/39.4	74hp
TM18i	18	6.5	25/39.4	73hp
TM18Li	18	6.5	25/79.4	73hp
TM18LBBi	22.8	10.8	25/75.24	73hp

HURCO – TMX SERIES HIGH PERFORMANCE CNC LATHES				
MODEL	CHUCK	BAR DIA.	TURN DIA./LENGTH	POWER
TMX8i	8	2.6	14/21.1	37.3hp
TMX10i	10	3.07	16.3/25	37.3hp



HURCO Turning and Milling Lathes

HURCO – LIVE TOOL – MILLING & TURNING				
MODEL	CHUCK	BAR DIA.	TURN DIA./LENGTH	POWER
TMM8i	8	2.04	11.8/17.9	18hp
TMM10i	10	3.07	11.6/27.6	24hp
TMM12i	12	4.08	24/40	24 hp
HURCO – TMXMY SERIES – Y AXIS MILLING				
MODEL	CHUCK	BAR DIA.	TURN DIA./LENGTH	POWER
TMX8MYi	8	2.6	11/21	33hp
TMX10MYi	10	3.07	12/24	30hp
HURCO – TMXMYS SERIES – Y AXIS MILLING & SUB-SPINDLE				
MODEL	CHUCK	BAR DIA.	TURN DIA./LENGTH	POWER
TMX8MYS	8	2.6	12/24	33hp
TMX10MYS	10	3.07	12/24	38hp

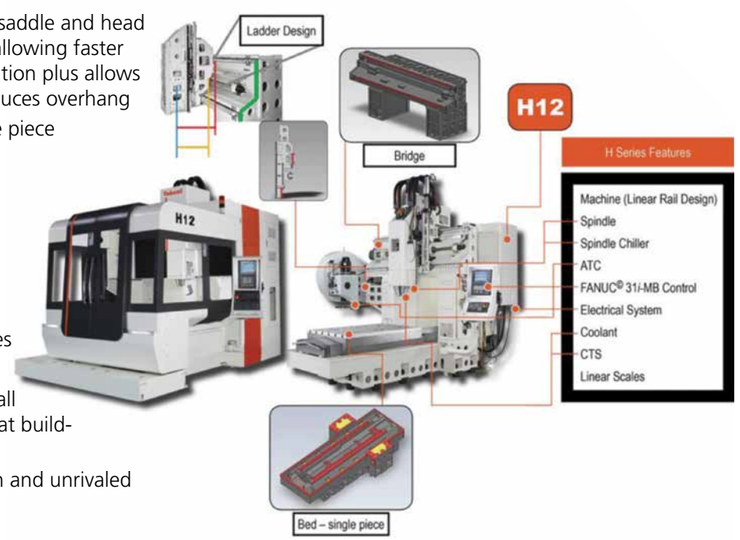
Takumi Machining Centers

Founded in 1988, Takumi has been exceeding customers' expectations world wide for 30 years. When Takumi was acquired by Hurco Companies in 2015, a new Takumi Technology Center and Showroom was built in Indianapolis to serve the U.S. market and a comprehensive service and support network is established Nationwide. www.takumiusa.com.

Takumi Standard Features Include Fanuc Controls with ACII Contour Control, 600 Block look ahead, Manual Set-up Guidance.

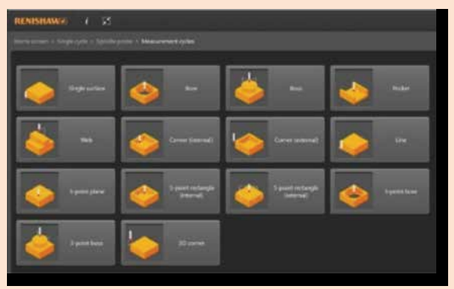
Takumi H-Series Highlights

- Ladder design provides a rigid support for the saddle and head and prevents deformation in the vertical axis, allowing faster speeds and highly accurate 3D surfacing operation plus allows close proximity of spindle to bridge casting reduces overhang
- Double column design, featuring a robust, one piece construction
- Spindle motor is thermally isolated from the casting, eliminating the main source of heat in the system from transferring vibration and thermal distortion
- Single piece base design absorbs the thrust force of the table preventing the column distortion found on typical "C" frame machines
- Linear scales ensure repeatability and accuracy
- Direct coupled motors and double anchored ball screws eliminate lost motion, as well as the heat build-up found in belt driven machines
- Absolute encoders ensure worry free operation and unrivaled accuracy control at high feed rates



Takumi USA Partners with Renishaw to integrate Set & Inspect to the Fanuc Control

Probing Simplicity! Easily program setup probing routines and/or inspection routines and send them to the control's memory with a single button press.



Takumi 3-Axis Machining Centers

Takumi delivers superior performance for die, mold and aerospace machining. Box Way Construction Plus standard features like AICC 2 Contour Control, 400 Block Lookahead, Set-up guidance, 400 Tool Offsets, & 56 work offsets. Takumi is made and supported through Hurco Factories and contains the leading controls by Fanuc Oi and 32i.

TAKUMI – HEAVY DUTY BOXWAY GEARED HEAD				
MODEL	**TRAVELS**	**TABLE**	**POWER**	**SPEED**
V10	39.5/26/24	41.7 x 25.6	15hp	12,000 rpm
V11	43.3/26/24	45.2 x 25.6	20hp	6,000rpm Geared
V15	60/30/28.3	63 x 30	25hp	6,000rpm Geared
V22	86.6/42/29.5	86.6 x 40.3	35hp	6,000rpm Geared

TAKUMI – VC SERIES PERFORMANCE VERTICAL MACHINING CENTERS				
MODEL	**TRAVELS**	**TABLE**	**POWER**	**SPEED**
VC0852	33.9/20.5/24	39.4 x 20.5	15hp	15,000 rpm
VC1052	41.7/20.5/24	45.7 x 20.5	15hp	15,000 rpm
VC1200	50/26/24	59 x 29	15hp	15,000 rpm

TAKUMI – H SERIES DOUBLE COLUMN VERTICAL MACHINING CENTERS				
MODEL	**TRAVELS**	**TABLE**	**POWER**	**SPEED**
H10	40.16x27.56x19.69	41.3x27.6	25hp	15,000rpm
H12E	49.2x37.4x22.8	53.5x37.8	25hp	15,000rpm
H16	62.9x51.1x27.5	74.8x51.18	25hp	15,000rpm

Takumi 5-Axis Machining Centers

TAKUMI – 5-AXIS		
MODEL	**U600**	**U800**
Travels	26/40/20	32/45/30
Table	600mm	800mm
Speed	15,000	20,000
Rapid	36m/min	48m/min
Taper	CAT40 Big Plus	HSK63A

Heidenhain TNC 640 Controls:

- Hand scraped to fit
- 40 Tool ATC
- 21 gig SSDR program storage
- 25 rpm 360° C-axis
- 33 rpm +30/-110° A-axis

Takumi 2-Axis Turning Centers

TAKUMI – SL SERIES BOXWAY CNC LATHES				
MODEL	**CHUCK**	**BAR DIA.**	**TURN DIA./LENGTH**	**POWER**
SL200	8	2.55	12.6/25.6	25hp
SL250	10	3.07	17.7/25.6	27hp
SL300	12	3.58	17.7/25.6	27hp

SMEC Machine Tools started as machine tools division of Samsung Heavy Industries in 1988

We develop, manufacture and sell high quality Machining Center, Turning Center, Integrated Equipment, Robots to both domestic and overseas market through domestic sales offices, agencies and overseas dealers.

SMEC Machine Tool has been developing the business with a variety of line-ups from small machines tools to medium and large machine tools aiming at over 60 countries around the world as well as domestic market.

SMEC "A company a better future and dreams"

Samsung Machine Tools Engineering Company

SMEC

2018

SMEC America Corp established to provide factory support to the distributor network and customers

1999

Spun out from Samsung Aerospace Industries and established **SMEC Co., Ltd**

1996

5-sides processing center technology partnership with **Toshiba**

1991

Turning center and vertical machine center technology partnership with **Mori Seiki**

1989

Horizontal and vertical machine center technology partnership with **OKK Japan**

1988

Started as **Samsung Heavy Industries** Machine Tools Business

SMEC PCV/MCV – *Fanuc Oi MF Plus and well equipped and value priced - Spindle Chiller, Chip conveyor, CTS, Wash Down, rigid Tap, oil skimmer, Manual Guide I, AI Contour Contol ii.*

MODEL	TRAVELS	TABLE	POWER	SPEED	ATC	PGMFEED /XY RAPID
PCV 430	28/17/20	30 x 17	27hp Direct Drive	10,000 rpm	24	1889 /1417ipm
MCV 4300	30/17/20	36 18	25hp Direct Drive	12,000 rpm	30	1417/1181 imp
MCV 4600	35/18/20.5	41 x 81	25hp Direct Drive	12,000 rpm	30	1417/1181 imp
MCV 5500	41/22.7/20.5	47 x 21	25hp Direct Drive	12,000 rpm	30	1417/1181 imp
MCV 5700L	63/22.5/20.5	67 x 22.5	25hp Direct Drive	12,000 rpm	30	1417/1181 imp
MCV 6700L						

SMEC HYST – *Hybrid Design with Box Way Z Axis and Linear GuideX&Y - Dimensional Stability on heavy cuts.*

MODEL	TRAVELS	TABLE	POWER	SPEED	ATC	PGMFEED /XY RAPID
HYST 5700L	65/22.5/2.5	67 x 21	30hp Direct Drive	12,000 rpm	30	1417 / 1181 ipm
HYST 6700	51/26/26	61 x 26	30hp Direct Drive	12,000 rpm	30	1417 / 1181 ipm

SMEC LCV – *Box Way, Gear Head 2 speed*

MODEL	TRAVELS	TABLE	POWER	SPEED	ATC	PGMFEED /XY RAPID
LCV 850	79/33.5/32	80 x 34	25hp 50T Gearhead	6,000 rpm	40	787 / 630 ipm
LCV 1060	98/42/35	110 x 42	25hp 50T Gearhead	6,000 rpm	40	630 / 630 ipm

SMEC

SMEC AMERICA CORP

SMEC Tool Room Milling & Turning Equipment

SMEC SL SERIES BOX WAY SLANT BED WITH MILLING

MODEL	CHUCK	MAX RPM	HP/TORQUE	THROUGH BORE	SWING OVER BED	TURNING LENGTH	MILLING LENGTH	LIVE TOOL RPM	HP
RADIAL / AXIAL live turret									
SL 2000AM	6	6,000	25	2.4	22.5	20.5	Radial & Axial	5,000	7.5
SL 2000BM	8	4,500	25	2.99	25	20.5	Radial & Axial	5,000	7.5
SL 2500BM	10	3,500	35	3.39	25	20	Radial & Axial	5,000	7.5
SL 3000BLM)	12	3,000	35	4.13	26	38	Radial & Axial	5,000	7.5
SL 3500BLM	15	2,000	30/2 Speed	5.2	27	59	Radial & Axial	4,500	7.5
SL 4500CLM / CXM 24"	24/21/18/15	1200/1500	50/2 Speed	7.13/5.2	31	89/120	Radial & Axial	4,000	10
SL 6500BLM (SL 65MC/3200)	24	1200	74/3 Speed	6	41	39/126	Radial & Axial	3,000	15
Y Axis Live Turret w/Subspindle									
NS 2100ASY (Linear Guide)	6	6,000/6,000	25/10	2.4	32	20.5	Y Axis	6,000	7.5
NS 2100BSY (Linear Guide)	8	4,500/ 6,000	25/10	3	32	19	Y Axis	6,000	7.5
SL 2000BSY (Box Way)	8	4,500/ 6,000	25/10	3	25.6	20	Y Axis	5,000	7.5
SL 2000BY	8	4,500	25	3	25.6	18	Y Axis	5,000	7.5
SL 2500ASY	8	4,500/ 6,000	25/10	3	25.6	20.5	Y Axis	5,000	7.5
SL 2500BSY	10	3,500/4,000	25/10	3.4	25.6	20.5	Y Axis	5,000	7.5
SL 2500BY	10	3,500	25	3.4	25.6	20.5	Y Axis	5,000	7.5
SL 3500AY (SL 3500AY/800)	12	2,800	35/2 Speed	4.5	35	31	Y Axis	4,000	10
SL 3500ALY	12	2,800	35/2 Speed	4.5	33	84	Y Axis	4,000	10
SL 4500CLY	24/21/18/15	1,200-2,000	60/2 Speed	7.125-4.625	38	115	Y Axis	4,000	10
SL 4500 CXLY	24	1,200	50/2 Speed	7.125	38	197	Y Axis	4,000	10

TRAK MACHINE TOOLS
SOUTHWESTERN INDUSTRIES, INC.

TRAK Machining & Turning Centers

TRAK 3-Axis Machining Centers

TRAK VMCsi						
MODEL	TRAVELS	TABLE	POWER	SPEED	ATC	PGMFEED /XY RAPID
VMC7si	30x20x20	35 x 20	20 hp	12000 rpm	24 Tools	1,000/1,000 ipm
VMC10si	40x20x20	44 x 20	20 hp	12000 rpm	24 Tools	1,000/1,000 ipm
VMC12si	50x27.5x25	51 x 24	27 hp	12000 rpm	24 Tools	1,000/1,000 ipm
VMC14si	60x27.5x25	63 x 24	27 hp	12000 rpm	24 Tools	1,000/1,000 ipm

SIEMENS

Production Turning Centers

Featuring the SINUMERIK ONE CNC by Siemens

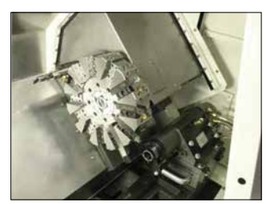
TRAK TC820/LTYsi Turning Centers

With features you need for Production Turning

- Precision Ground Ballscrews
- 4,000 RPM Spindle
- 7.88" Hydraulic 3 Jaw Chuck
- Tailstock w/Hydraulic Quill 12 Station Bolt-On Turret Solid 8000lb Casting Coolant Through Turret
- Small Footprint Chip Conveyor
- Tool Setting Arm and Probe Hardened Box Ways on All Axis

The TC820LTYsi adds:

- Programmable 4500 RPM Live Tool Spindle for Y and C Axis

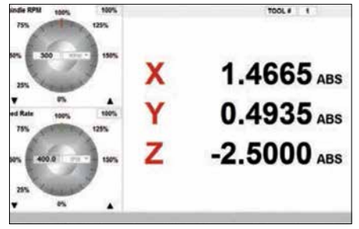


TRAK MACHINE TOOLS
SOUTHWESTERN INDUSTRIES, INC.

TRAK DPMRX Bed Mills

Featuring the Amazing New ProtoTRAK RMX CNC

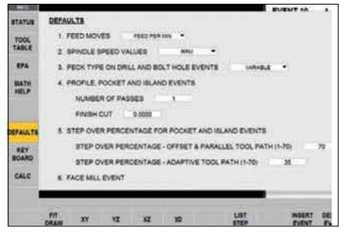
Touchscreen for an extraordinary user experience that will keep you working fast



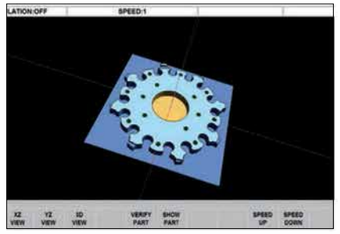
Powerful Features for manual milling

Flyout windows for instant access to the Tool Table, Status, Calculators and more!

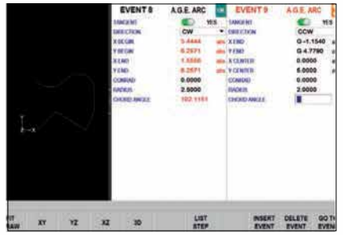
Enhanced ProtoTRAK Assistance – instructions at your fingertips



Defaults teach the ProtoTRAK RMX your machining style



Powerful solid model graphics for optional Verify and Parasolid converters



Auto Geometry Engine® software to calculate missing data for you as you program

Easy, prompted programming events with graphics that update while you program

Productivity

- ProtoTRAK RMX CNC integrated into the machine at the factory
- TRAKing – control of program run
- Programmable Spindle Control

Strength and Power

- Wide saddle
- Box ways
- Bed support of table and saddle
- Low and high gear range
- Entire ram moves along the column for rigidity

Flexibility

- Manual, two or three axis
- Real handwheels so you can work manually
- DRO Mode with power feed, teach and more!
- Head swivels right and left

Precision

- Ballscrews in the table, saddle and column
- Brushless servo motors with .000003" encoder resolution
- Quill scale and column ballscrew encoder integrated into one Z dimension
- Turcite coating on bearing surfaces to reduce friction

Get your hands on a TRAK Bed Mill and see for yourself why it is the best machine ever made for toolroom and short run production.

TRAK VMC2 Vertical Machining Center

Compact footprint, generous capacity, surprising rigidity and powerful control

A Strong, Precise, Compact, Versatile Production Machine

- Compact 52" x 30.5" Footprint – Fits Anywhere You Need
- Conversational Programming – Easy Setup of Simple Jobs
- G-Code Compatible – for Complex 3D Programs
- DXF/Solid Model Import; HSM/Adapti-Path software Included
- 4th Axis Rotary Available
- Bridge Construction for Rigidity and Precision
- Generous XYZ Travels – 14" x 12" x 17"
- 8 Position Tool Changer
- 10,000 RPM; 3 HP; 30 Taper

TRAK TC2 Vertical Machining Center

Rigid construction and generous capacities make this slant bed lathe ideal for smaller turned parts in lower volume production

- Size 80.4 x 36.96 x 75.5"
- ProtoTRAK RLX CNC
- Conversational Programming - Easy Setup of Simple Jobs
- G-Code Compatible - For Easy Upload
- Hydraulic system integrated into machine body
- X Axis – direct drive with brake 7.5"
- Z Axis – direct drive 11.40"
- Max Traverse 600 in/min
- ProtoTRAK RLX CNC
- Two-axis CNC and DRO
- 15.6" LCD screen
- 4 USB 2.0 ports
- Built in LED status lights
- Coolant pump
- Ethernet port
- Windows® operating system
- Optional Hyd Chuck

CNC Retrofits & Upgrades for Every Budget

- Easy to learn and use
- Improved Auto Geometry Engine®
- Outstanding graphics
- Powerful offline programming for using our Advanced Software Options
- Can handle quick manual jobs as well as complex profiling

KMX – 2 or 3 Axis CNC 3 Axis DRO & Basic CNC w/Gcode

RMX – The ProtoTRAK RMX for the TRAK VMC2

TRAK MACHINE TOOLS
SOUTHWESTERN INDUSTRIES, INC.
TRAK Tool Room Milling & Turning Equipment

The Best Machines Available for Toolroom and Short Run Milling.

- Manual with DRO, 2 or 3 axis CNC
- High and Low Gear
- Programable Spindle Speeds
- Handwheels you can work manually
- Solid Ram moves on column for rigidity during heavy cuts
- Manual quill with scale allows control to read true Z axis position
- Hardened and ground way surfaces

TRAK – DPM RX SERIES TOOLROOM BEDMILLS			
MODEL	TRAVEL	TABLE	POWER
RX2	30.5/16/25.5	49 x 9	3 hp
RX3	31.5/17/25.8	50 x 10	5 hp
RX5	40/20/25.8	50 x 12	5 hp
RX7	60/23/24.25	76 x 14	7.5 hp

TRAK 2-Axis Turning Center Manual & CNC Operation

TRAK – TRL SERIES TOOLROOM LATHES				
MODEL	SWING/BC	BAR CAP.	SPEED	POWER
1630RX	16/30	2.12	2,500 rpm	7.5 hp
1630HS-RX	16/30	1.57	4,000 rpm	7.5 hp
1845RX	18.1/45	2.36	2,500 rpm	10 hp
2470RX	24/70	4.09	1,800 rpm	15 hp
3060RX	33/60	6.3	1,300 rpm	30 hp
30120RX	33/120	6.3	1,300 rpm	30 hp
30200RX	33/200	6.3	1,300 rpm	30 hp

TMC that Works for Both Toolroom and Production Applications.

- ProtoTRAK RMX control
- Real Handwheels
- Traking keeps you in control at all times
- 15 HP Spindle Motor
- 16 Tool ATC
- 40 Taper Spindle
- 8,000 RPM
- Wash down coolant/CTS optional
- Cut first part via conversational then run production fully CNC

TRAK – TMC SERIES TOOLROOM MACHINING CENTERS			
MODEL	TRAVEL	TABLE	FOOTPRINT
TMC5	20/16/20	27.56 x 15.75	85 x 130
TMC7	30/20/20	35.43 x 19.69	97 x 135
TMC10	40.75/20/20	44.09 x 19.69	111 x 135
TMC12	50/27/25	51 x 24	133 x 144
TMC14	60/27/25	63 x 24	157 x 144

OGP Multisensor Metrology Systems

OGP (Optical Gaging Products) is a division of Quality Vision International Inc (QVI®), a world leading manufacturer of precision multisensor metrology systems for industrial Quality Control. Our metrology systems focus on measurement technologies that help manufacturers monitor dimensional compliance to design specifications.

SmartScope® E-Series

SmartScope E-Series systems are automatic digital zoom metrology systems that set the standard for 3-axis video measurement performance. The IntelliCentric™ fixed lens optical system with 6-megapixel color camera and digital zoom provide a high-resolution image engineered for video edge detection metrology. All LED coaxial, substage profile, and SmartRing™ light illumination is standard.

SmartScope® M-Series

SmartScope M-Series systems combine innovative advancements in optical technologies delivering an incredibly high-resolution image, providing you with exceptionally accurate measurement results for faster setups, shorter cycle times, and increased throughput.

At the core of the M-Series is the patented IntelliCentric-M Optical System featuring fixed lens optics, a built-in electronic aperture, and Virtual Zoom technology combined with a 20-megapixel camera to provide remarkable image quality and superb image resolution.

SmartScope® Flash

SmartScope® Flash™, **Flash CNC, and CNC** systems are the best choice in automatic general purpose dimensional measurement. A high quality, 12:1 zoom lens calibrates itself at every magnification change for consistent measurement accuracy.

Innovative solid state illumination sources, color camera, and ZONE3® 3D CAD based metrology software make every Flash model a powerful video measuring system.

Every Flash model is multisensor capable, supporting touch probe, laser scanner, and micro-probes.

SmartScope® SP

SmartScope® SP systems are designed for optimum scanning probe performance. Starting with a rigid base structure, the system mechanics are designed to optimize dynamic data acquisition critical to scanning probe performance. SmartScope SP systems feature ultra-stiff Z-axis motion, and one independent motion axis that carries the part. These characteristics eliminate common mechanical errors that degrade scanning probe performance.

SmartScope® Quest

SmartScope® Quest systems are high-accuracy metrology systems designed to use a variety of sensors for full three-dimensional measurement.

Accurate video measurements require accurate images, and Quest offers the best optical performance available. Our patented TeleStar® 10:1 zoom lens is completely telecentric and automatically calibrated throughout its range for distortion free, high-fidelity images – perfect for high-accuracy metrological applications.

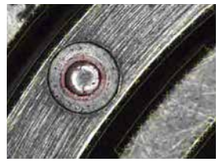
Fusion

Fusion systems are innovative, high-speed, 3D multisensor measurement systems that combine an exceptional large field-of-view (LFOV) optical system with multisensor flexibility, to form a uniquely productive metrology system family.The capability lies in the telecentric large field-of-view optics. Fusion offers dual optical magnifications: low with 100 mm viewing area, and high for small feature measurements and autofocus – each telecentric for image accuracy throughout the depth of field. Advanced design principles and FOV non-linear calibration allow Fusion systems to measure many features in a large FOV with the same accuracy as a small FOV on a traditional video measurement system.

Flexpoint

FlexPoint® systems offer a unique combination of sensors, and CAD based programming, to solve a wide variety of dimensional measurement problems. FlexPoint features VersaFlex™ – the patented sensor array offering up to three simultaneously available sensors on an articulating head. Measure parts with trusted scanning probe, telecentric optics, and 1 µm accuracy TeleStar interferometric laser – without the downtime of exchanging sensors and constantly recalibrating.

The Multisensor Lineup



Video Sensors

Fast, non-contact video measurement, the core technology of SmartScope systems, provides high accuracy and repeatability for defined dimensions.

Feather Probe™

Provides access to small features that are inaccessible to video measurement or conventional touch probes, or too sensitive to withstand traditional probing forces.

Articulating Probe

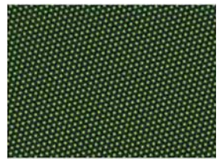
For the ultimate in probing flexibility use either a touch trigger or scanning probe with a PH10M PLUS articulating head.

Touch Probe (TP20/TP200)

Touch trigger contact probing allows for measurement of part surfaces that cannot be measured with optics or lasers.

Scanning Probe (SP25M)

Provides continuous contact scanning which offers high¬speed data gathering on complex surfaces, large or small variations in surface contours.

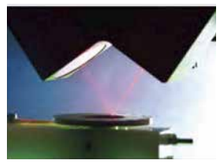


Grid Projector

Grid Projector enables accurate autofocus on reflective surfaces for easy, fast focus - even on mirror polished metal.

Rotary Indexers (4th & 5th Axis)

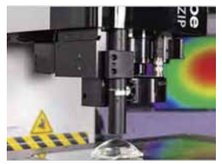
Rotary indexers can be mounted together with their axis perpendicular to one another to add two axes of part positioning. The part under inspection is attached to the secondary rotary, which is mounted to the primary rotary.



Triangulation Laser

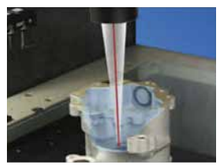
These lasers excel at fast and accurate Z-axis point acquisition.

Use a laser for height, depth and planar measurements, or for surface profiling on complex curves and surfaces.



Rainbow Probe

Rainbow Probe easily measures transparent, translucent, fragile, liquid or easily deformable surfaces and are mounted in mechanical deployment mechanisms so they can be retracted when not in use.



TeleStar Interferometric Sensors

TeleStar Sensors offer sub-micron resolution, providing excellent performance on both specular and light-scattering diffuse surfaces. Sensors may be through-the-lens (TTL) or off-axis (TeleStar Probe).

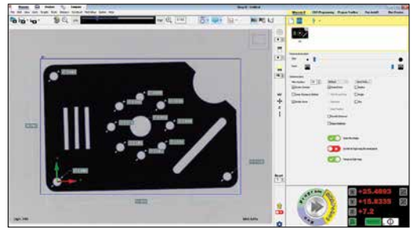
Metrology Software

ZONE3

Zone3 metrology software puts the power of OGP's 30+ years of multisensor experience into your measurement system for faster, easier, and more productive measurements than ever before. It is capable of utilizing 2D & 3D CAD models for automatic programming and full GD&T analysis, and offers visual validation of each operation before it's executed. You get immediate visual feedback so common errors and unintended consequences are avoided.

Measure-X®

From creating part measurement routines to operating an OGP system in a production work environment, **Measure-X®** metrology software offers power without intimidation. Measure-X® features a full set of image processing and autofocus tools, geometric functions, ANSI/ISO tolerances, easy editing, and contour analysis. Compatible with touch probes, laser, and rotary indexers, Measure-X is the ideal choice for general-purpose video and multisensor metrology.



Comparators

Contour Projectors

Contour Projectors® offer the industry's best value and performance for non-contact measurement. The mainstay of shop-floor measurement, optical comparators' tough construction and big viewing screens make measurements fast and easy.

C-vision – Video Contour Projectors

C-vision™ Video Contour Projectors® from OGP combine the speed and accuracy of a video measurement system with the rugged capacity of an optical comparator to create the world's best shop-floor measuring tools for 2D measurement. C-vision benchtop and floor models are built for large, heavy parts with a load capacity up to 350 lbs.

Other OGP Solutions

2D Automatic Inspection

SNAP™ Video Measurement Systems are compact measuring systems that integrate perfectly from the shop floor, to the lab, or as part of an automated work cell. Rugged construction and an open work envelope make SNAP easy to implement in virtually any manufacturing setting.SNAP systems use their unique fully telecentric large field-of-view (LFOV) optical system to measure small parts with fine features. Combined with a megapixel camera, SNAP optics produce high accuracy, low distortion images. Benchtop systems are compact units with an open work envelope while floor model systems offer expansive XY stage travel to measure dimensions of large parts or numerous small parts. SNAP systems come standard with motorized stages and all LED profile, coaxial, and 8 sector ring light illumination.

3D Scanning

ShapeGrabber® 3D Laser systems deliver fast, accurate and automated 3D measurement. Using multiple motion axes, ShapeGrabber laser scanners are easily programmed for repetitive measurements and eliminate the need for software alignment and registration. All ShapeGrabber systems collect accurate, high density point data, and provide reports of results, including GD&T.

VIEW Micro Metrology Systems

Benchmark, Pinnacle, and Summit systems combine high accuracy transport and optical technologies with advanced software and customized application support to satisfy the unique demands of process monitoring near the production line. These systems offer a choice between single or dual magnification fixed lens optical systems. All LED coaxial, substage profile, and Programmable Ring Light (PRL) illumination is standard. In addition to programmable intensity and direction of illumination, the PRL offers the ability to automatically change the angle of incidence and color of the illumination.

Shaft Measurement

TurnCheck™ systems are designed to be placed on the shop floor with machine tools, to provide improved process control through immediate feedback. TurnCheck systems offer advanced, telecentric optics designed to produce distortion-free images of all types and finishes of shafts and cylinders, even in workshop conditions. A built-in light curtain safeguards the operator during automatic measurement.

Manual Mills, Lathes, and Grinders for Professional Use

Knee Type Vertical Milling Machines

SHARP Industries has improved upon the original design of knee mills to include features such as Double Nut Backlash Eliminator and Supporting Bearing at the bottom of the motor shaft. Models like the LMV-42 and TMV-DVS offer different sizes and configurations to meet diverse machining needs. These vertical knee mills provide accurate and reliable milling operations, making them an ideal choice for tool rooms, job shops, and production environments.

Engine and Heavy Duty Lathes

Sharp Engine lathes come in a wide range of sizes for small, medium and large works. Our heavy duty series offers larger spindle bores than most similar models, offering greater capacity to handle various sizes of materials. These manual lathes are built to withstand demanding machining tasks, making them suitable for industrial use. The largest models feature swings up to 80 inches, center distance up to 380 inches and spindle bores up to 15 inches.

Manual Surface Grinders

Sharp's manual surface grinders are equipped with steel core wire rope table drives, ensuring smooth table movement. Compared to steel ball drives, they offer surface-to-surface contact instead of point-to-surface contacts, resulting in better weight bearing and higher precision grinding operations. Models like the SG-618 and SG-820-2A provide accurate grinding capabilities with different table sizes and spindle horsepower to suit your needs.

Rosco Service, Support and Warranty

Our goal is to be your partner and maintain your equipment to factory specification, resolve warranty issues and assist during break downs and repairs. We provide Factory Certified Field Service Technicians, Factory Parts, and Applications Engineering Support. We also offer maintenance and calibration services for long term reliability of your machinery. We understand that performance and quality is vital to the success of your business and ours.

- Factory Trained Service Technicians in Machine Tools and Measuring Instruments
- Warranty Service and Preventative Maintenance
- Factory Parts
- Telephone Support
- Applications Support and Training

About Us

Rosco Precision Machinery is a machine tool and metrology sales and service organization dedicated to customer applications and problem solving. Since 2003 we have provided machine tool and metrology equipment solutions to more than 750 companies in the Northwest.

We maintain Sales & Service Staff in Washington, Oregon, Idaho and Montana. Our customers are building a broad range of component parts, equipment and products for Aerospace, Military, Medical, Scientific, Transportation, Agricultural and Commercial industries. We are proud to represent the premier Machine Tools and Measuring Instruments manufactured today.

ROSCO
PRECISION MACHINERY
MACHINE TOOLS AND METROLOGY EQUIPMENT

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