



Haas  
F1 Team

# Factory Training

June 2025





## What Should You Take Away From This Training?

- You sell a technical product; you need to be technically proficient
- Stewards of nuance
- Haas and HFOs are unique in the industry
- Haas offers more value than any other builder
- HFOs offer more to the customer than other distributors
- Understand the tools Haas has available for you
- Where to go for information



## What Does Haas Want Us to Focus On?

- Selling.....
- Selling the right machine to the right customer
- Making a part is like making a cake
- 90% rule
- Don't assume how something works, review the documentation and procedures
- Do not allow “wouldn't it be cool if.....”
- Be aware of customer's expectations
- Filter and amplify
- 80% of the market



# What Is Haas Now?

- Supplier of a wide range of quality products to machine shops and manufactures
  - Machine Tools
    - Own designs
    - Naked and branded machines
  - Tooling
    - Haas Tooling
  - Shop Support
    - Air compressors, CMM, Laser Engravers, Knee Mills, Band Saws
- Control Builder
  - Top 5 control builder in the world
- HFO Network
- A brand



# How Do You Sell Haas Today?



- Use the 'More Than' approach
- 6 specific topics





**Sales Data**

# 2024 Final Numbers



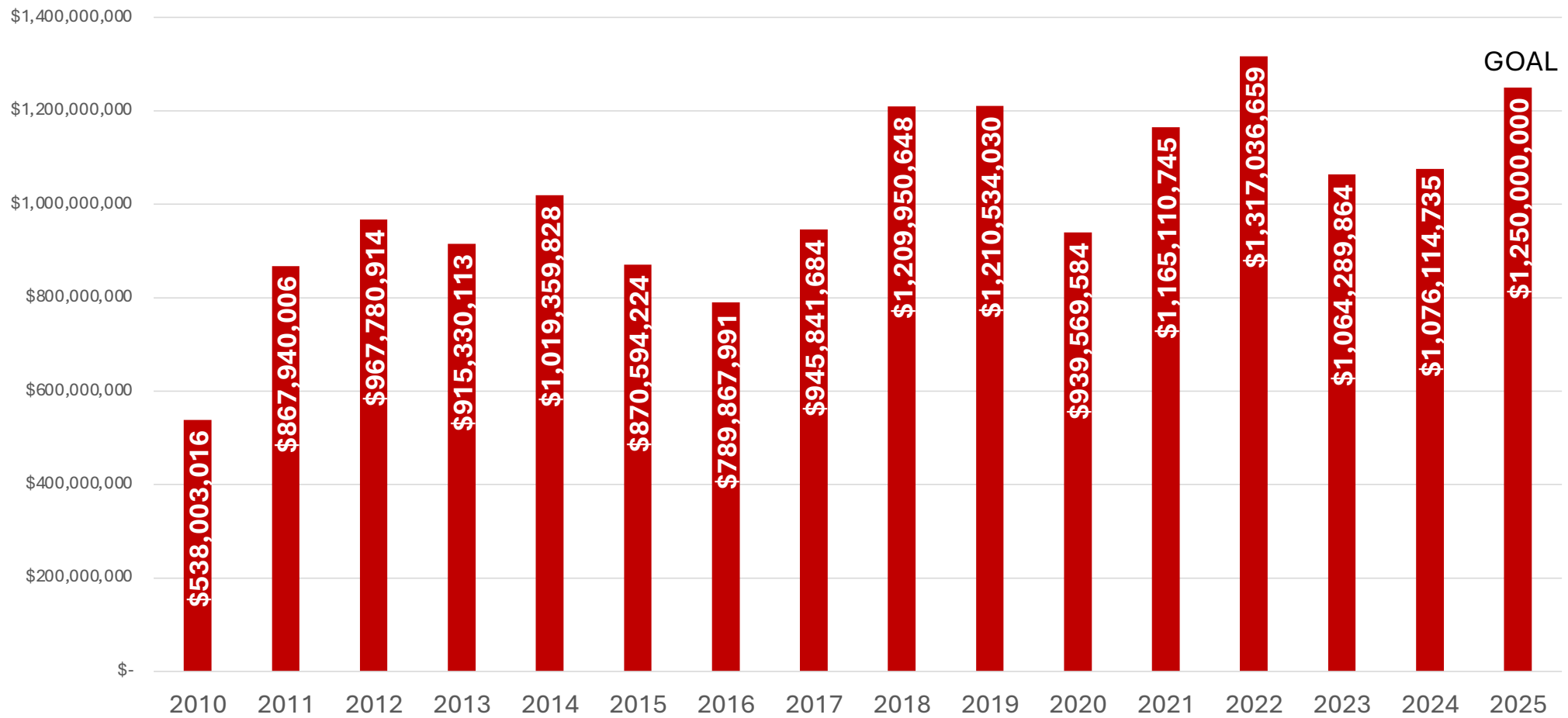
- We were positive on all our key metrics:
  - Revenue: \$1,074,000,000 *(2023 was \$1,068B increase of \$6M)*
  - Production: 10,381 *(2023 was 10,055 increase of nearly 300)*
  - Machine Orders: 10,400 *(2023 was 9,515 increase of nearly 885)*
  - Shipped Machines: 10,500 *(2023 was 10,098 increase of nearly 400)*
  - Rotary Tables Built: 2,021 *(2023 was 1,757 increase of nearly 264)*
  - Rotary Tables Sold: 2,055 *(2023 was 1,894 increase of nearly 161)*
  - Ecommerce Revenue: \$56 million *(2023 was \$32 million)*

# Sales by Region

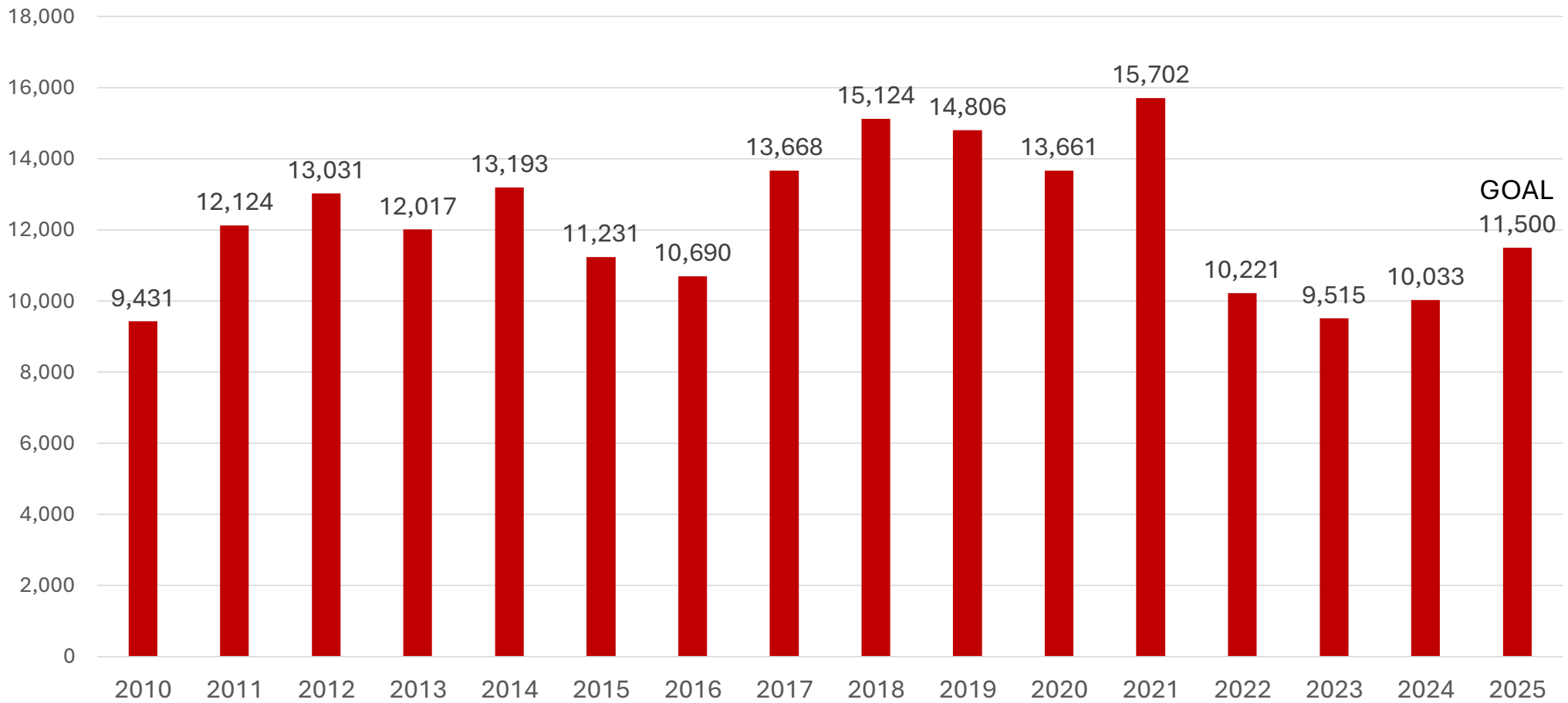


	Curr YTD	Perf to Past				Perf to Goal			
		Last YTD	Diff	Gain (%)	LastYr	Goal	YTD	Diff	Pct
United States	5,395	5,091	304	6%	5,091	5,891	5,891	-496	-8%
HAE	2,261	1,871	390	21%	1,871	3,004	3,004	-743	-25%
HAA	501	549	-48	-9%	549	917	917	-416	-45%
Canada	203	207	-4	-2%	207	238	238	-35	-15%
Mexico	739	627	112	18%	627	850	850	-111	-13%
United Kingdom	263	245	18	7%	245	325	325	-62	-19%
India	534	545	-11	-2%	545	850	850	-316	-37%
Rest of World	583	380	203	53%	380	922	922	-339	-37%
<b>Total Sales</b>	<b>10,479</b>	<b>9,515</b>	<b>964</b>	<b>10%</b>	<b>9,515</b>	<b>12,447</b>	<b>12,447</b>	<b>-1,968</b>	<b>-16%</b>

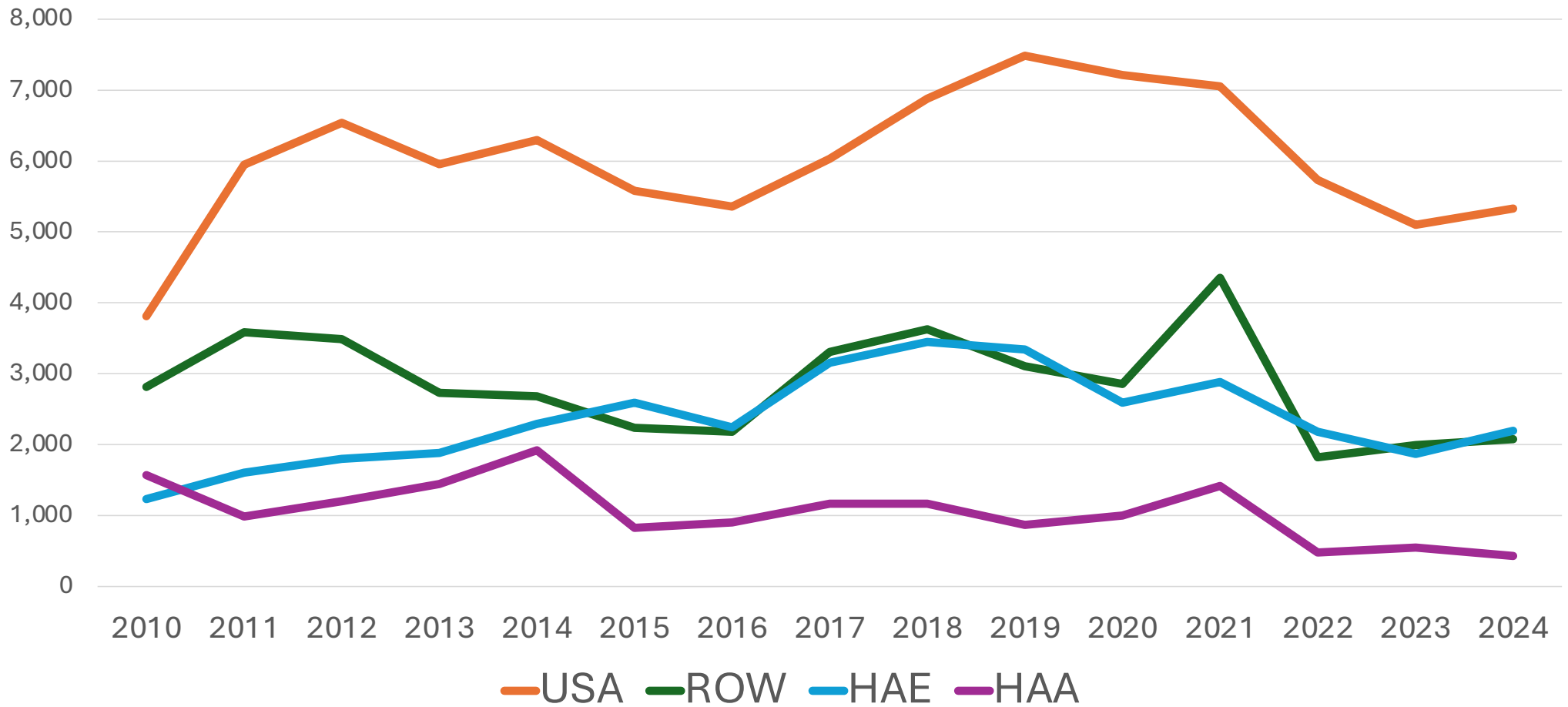
# Revenue



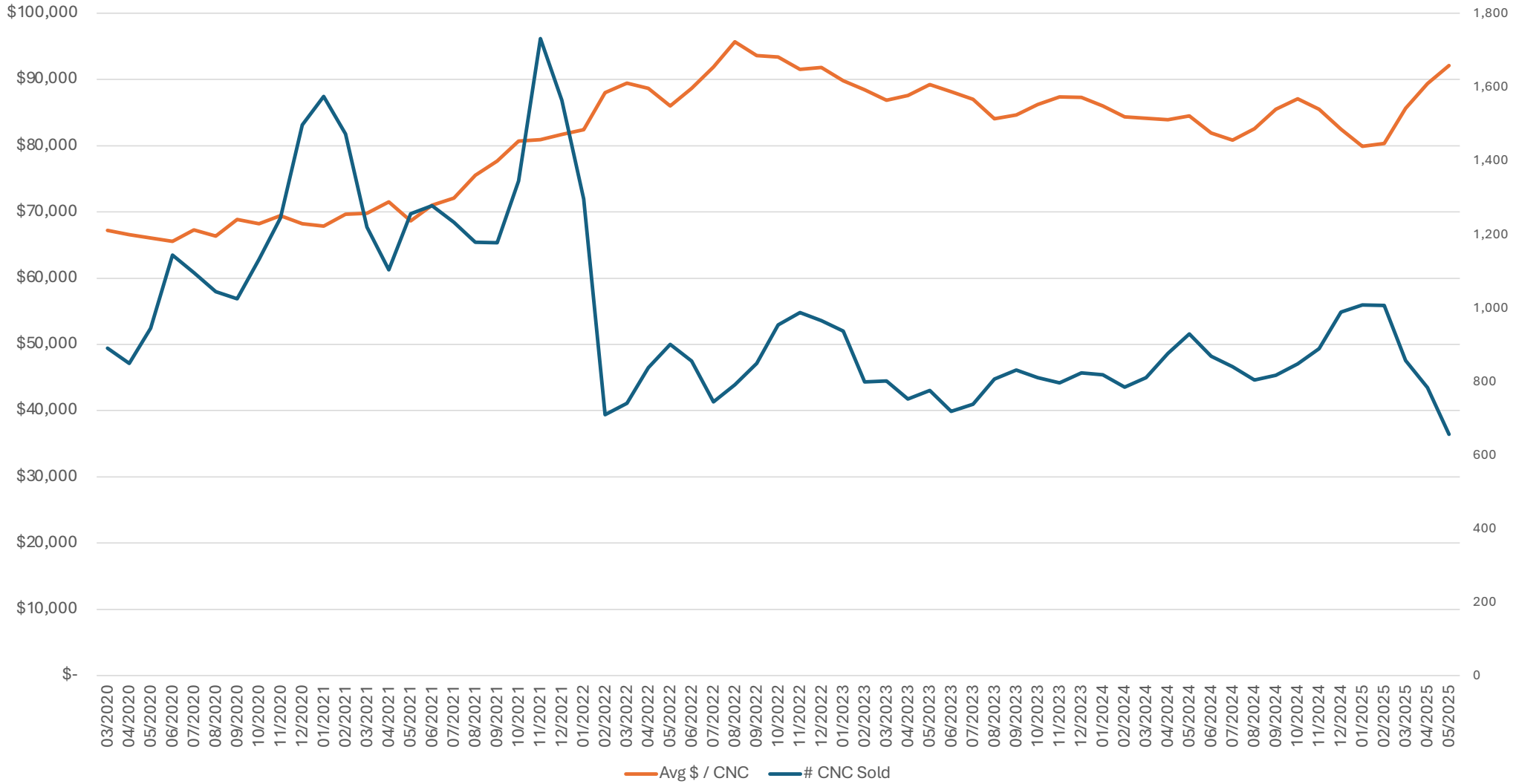
# Global CNC Sales



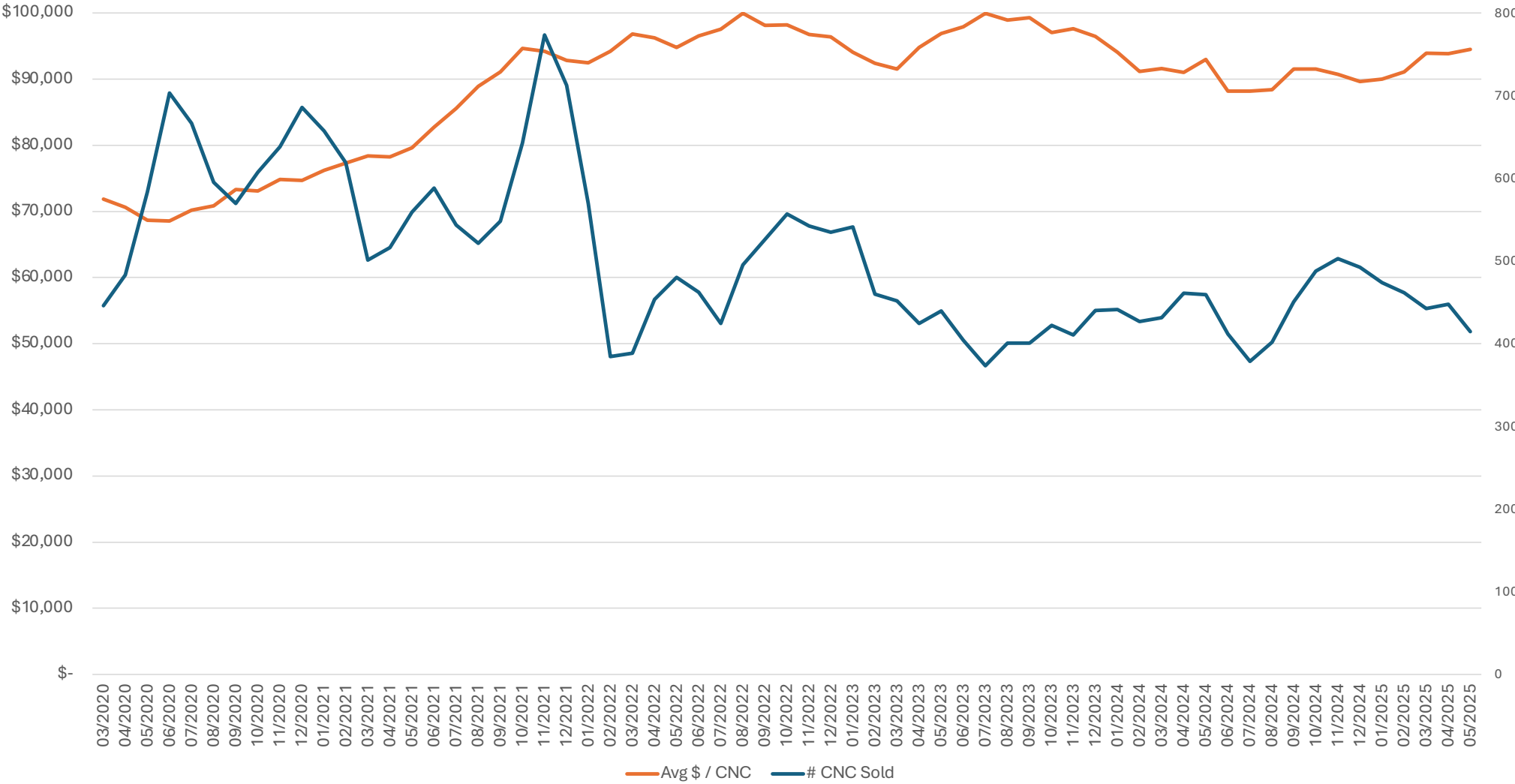
# CNC Sales by Region



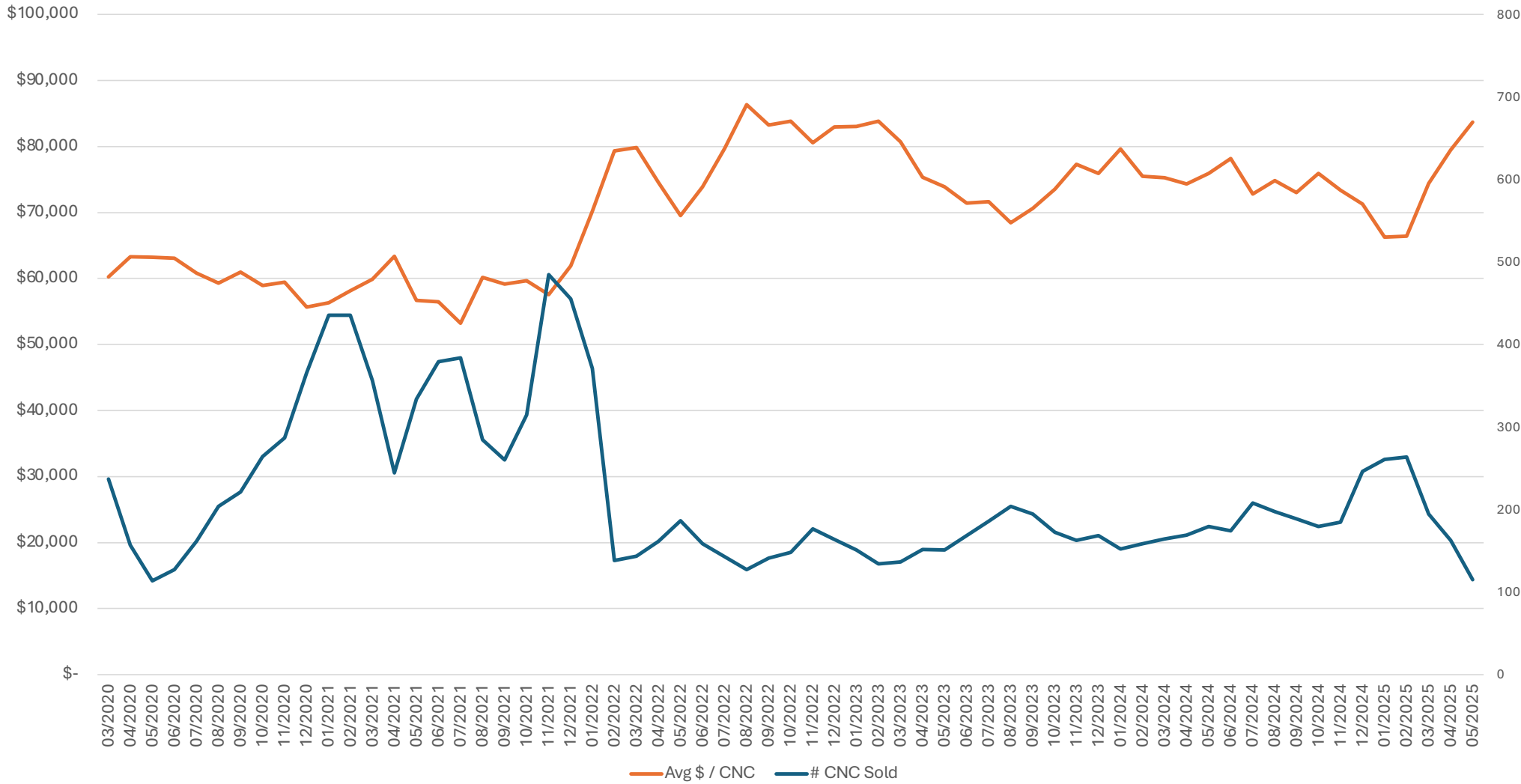
# GLOBAL 3-Mo Avg Sales and \$/CNC



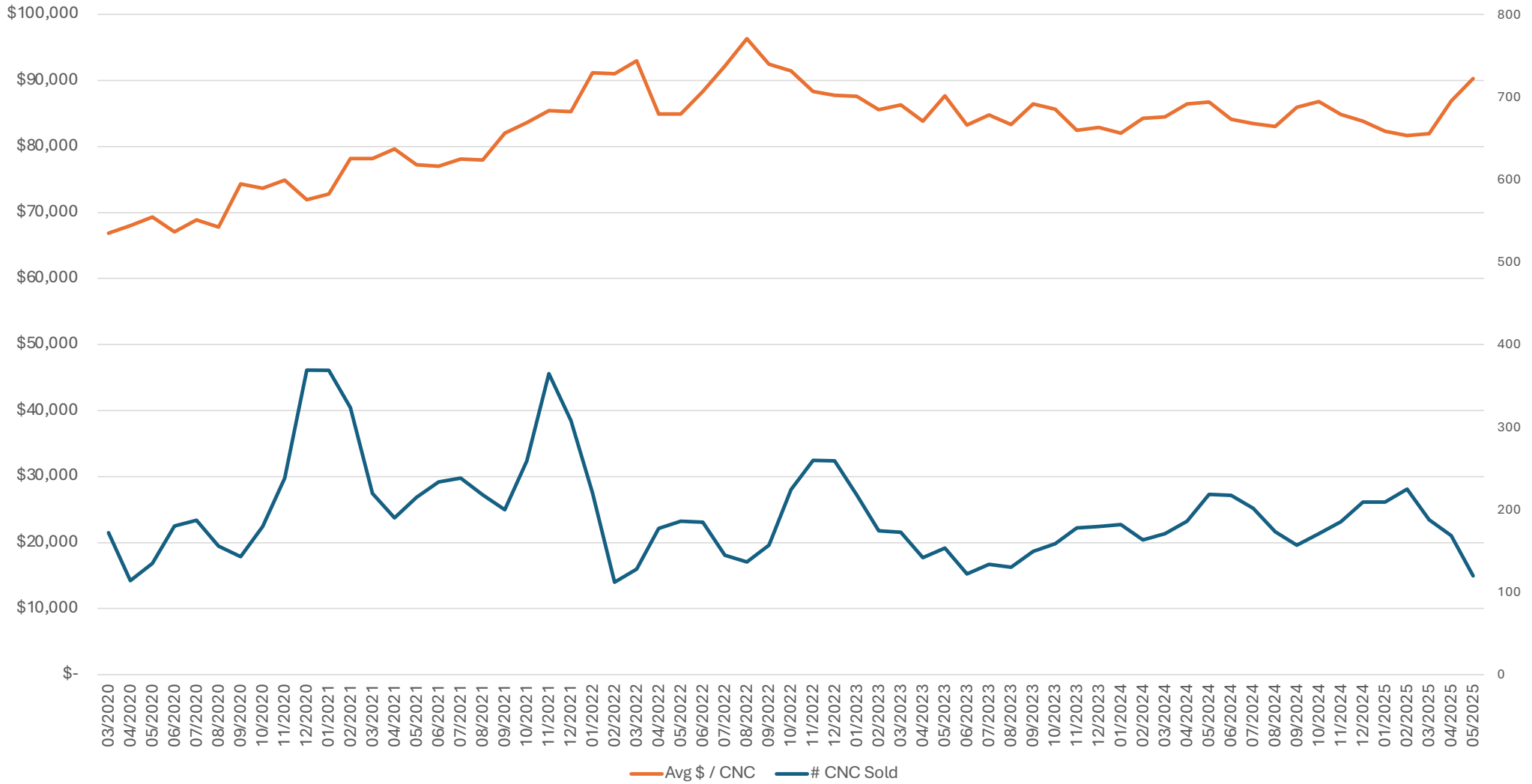
# USA 3-Mo Avg Sales and \$/CNC



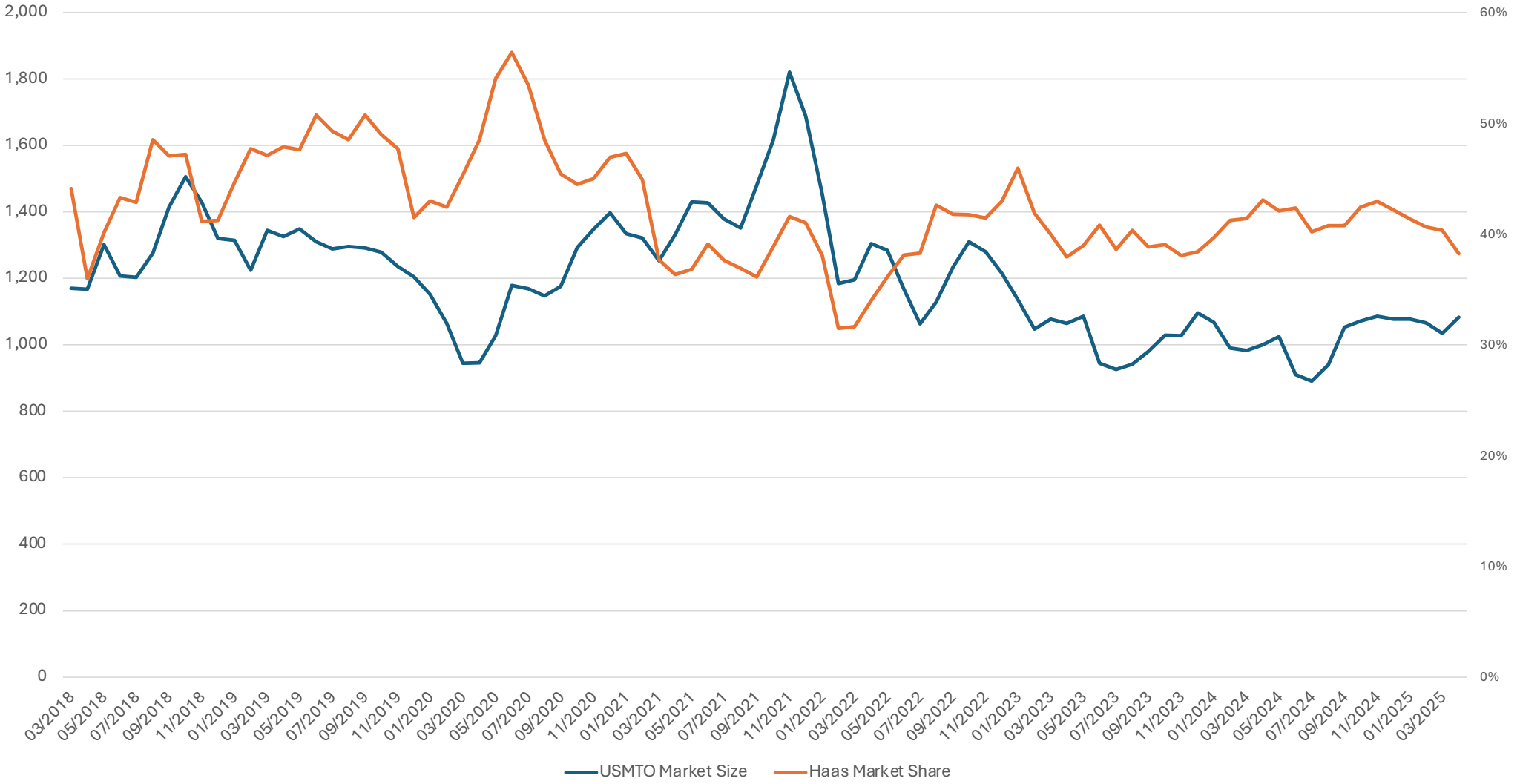
# ROW 3-Mo Avg Sales and \$/CNC



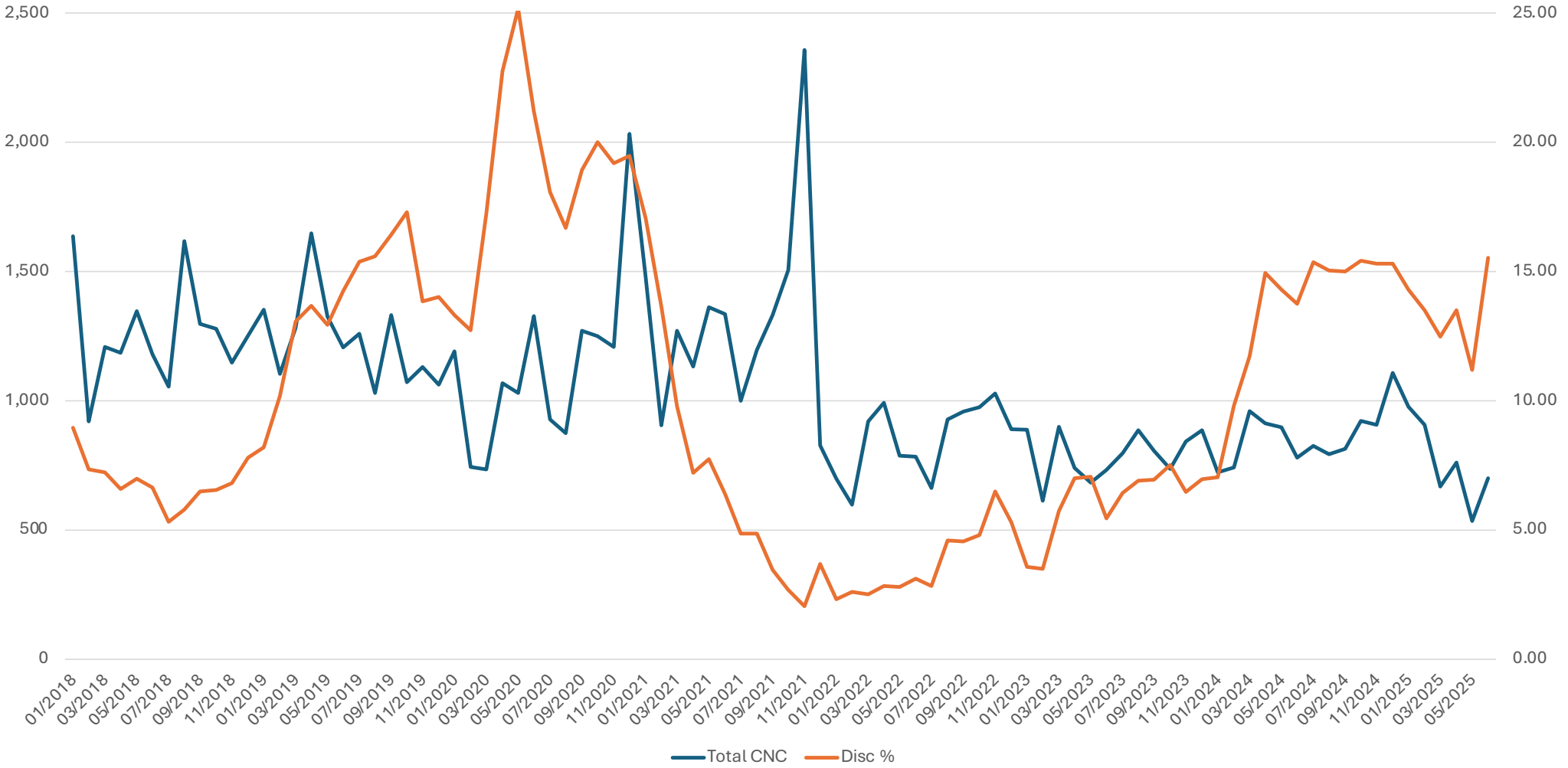
# HAE 3-Mo Avg Sales and \$/CNC



### 3-Mo Avg of US Market Size and Haas Market Share



# Discounting and CNC Units Sold by Month Global

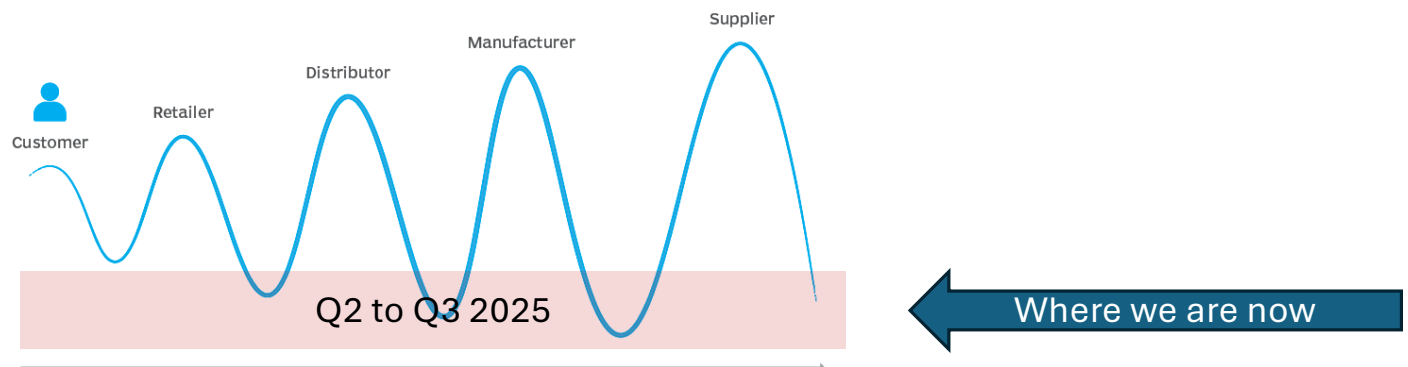


# 2025 So Far.....



- Started strong, Q1 was one of the best quarters in the last 5 years
- Tariffs have impacted sales for Q2
- HY1-2025 is tracking to match HY1-2024

## The bullwhip effect



# What Do We Do Now?



## Haas

- Stay focused
- Continue adding more products
- Continue improving products and software
- Expanding Haas Tooling

## HFOs

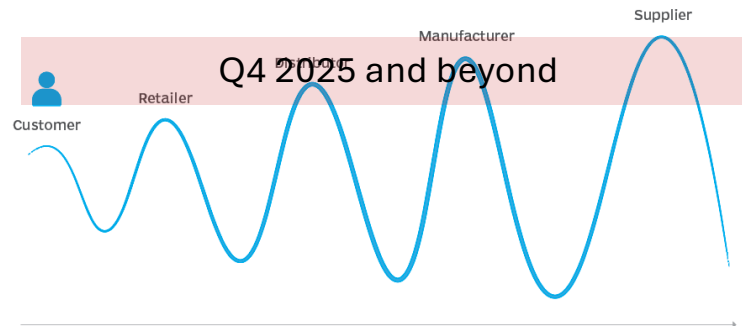
- Sell Haas value
  - Use the 'More Than' approach
  - Make the calls
-

# Most of all SELL



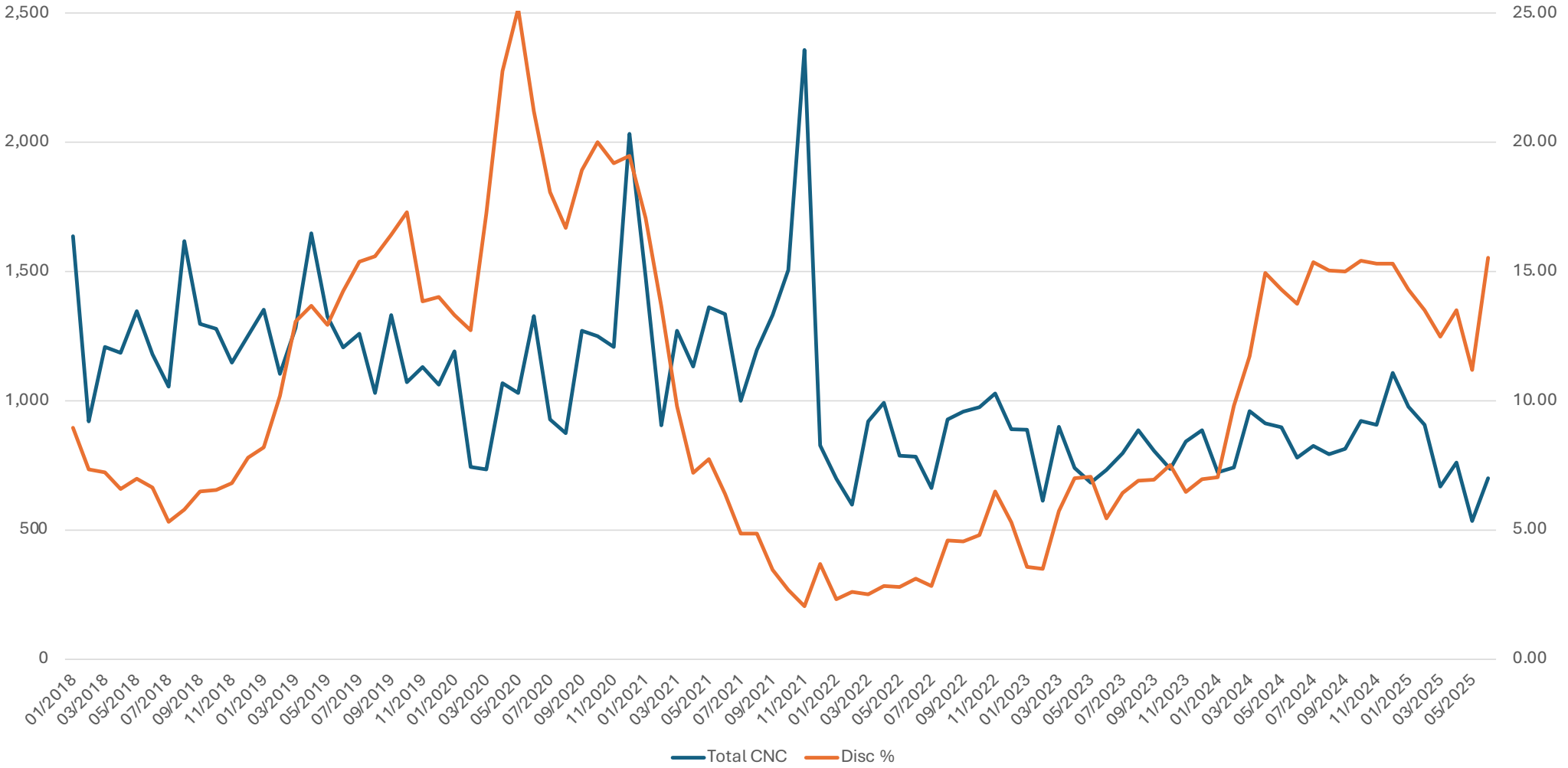
- Make an offer that a customer can't refuse
- Blind quote, don't wait for them to ask
- Ask for the order
- It's like Great Recession / COVID right now, a buyer's market
- We will make a deal to win, do NOT assume we won't take a deal
- When the bullwhip rises, it's a seller's market and discounting will go away

## The bullwhip effect



← Where we will be

# Discounting and CNC Units Sold by Month Global



# Sales Actions



# VOP

VALUE OPTION PACKAGES

**A NEW WAY  
TO SAVE**

# FLASH SALE



**STOCK  
SALE**

**IN STOCK & READY TO SHIP**

**Brand-New Hot Deals, Demo,  
Pre-Owned Machines, and more!**

Deals ending soon!  
**HUGE DEALS ON 7500+ TOOLS**

**New Price  
DROPS!**

**Pre-  
BLACK  
FRIDAY  
DEALS**

**HAAS  
TOOLING.COM**

**FREE NEXT-DAY DELIVERY!** SIGN UP FOR WINNER'S CIRCLE  
**\$10 FOR A YEAR!** WINNER'S CIRCLE

# Sales Actions



**VOP**  
VALUE OPTION PACKAGES  
**A NEW WAY TO SAVE**

**FLASH SALE**

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**Pre-Black Friday Deals**

TOOLING.com

FREE NEXT-DAY DELIVERY! \$10 FOR A YEAR!

## A NEW WAY TO SAVE **VOP** VALUE OPTION PACKAGES BACK FOR A LIMITED TIME

### WHAT ARE (VOPs) VALUE OPTION PACKAGES?

Haas Automation's Value Option Packages (VOPs) are pre-configured bundles of our most commonly selected CNC machine options, offered at lower cost than purchasing each option separately. These packages are designed to deliver the options customers rely on most, with added convenience and more value.

With up to five tiers – from **Basic** and **Productivity** to **4th-Axis**, **5th-Axis**, **Automation**, and more – each level builds on the one before, adding more capability and increasing your overall savings. More options, more savings!

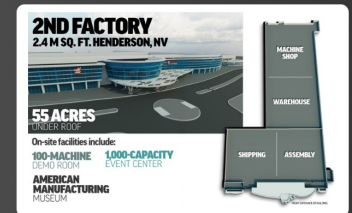
### WHY WE'RE OFFERING VOPs

It's not just about value.

These packages help streamline our production processes, allowing us to build machines faster and more efficiently. By standardizing on common configurations, we're accelerating lead times, boosting output, and passing on those efficiencies to you.

This initiative is just one part of our larger investment in the future. We're also expanding our manufacturing capacity with a second factory (2.4 million square feet) in **Henderson, Nevada** – a major step forward in our mission to scale production, increase output, and better serve our customers worldwide.

[SEE OUR HENDERSON EXPANSION PROGRESS](#)



VERTICALS

UNIVERSAL MACHINES

LATHES

VF-2SS VALUE OPTION PACKAGE

# Sales Actions



SALE ENDS JUNE 30TH

# FLASH SALE



SAVE UP TO 25%  
ON DC-1 & DC-2 MODELS

LEARN MORE



SAVE UP TO \$100K  
ON 50-TAPER ECs

LEARN MORE



SAVE UP TO 25%  
ON IN-STOCK MACHINES

LEARN MORE



SAVE \$7,500  
ON AUTOMATIC BANDSAWS

LEARN MORE

## DC-1 & DC-2 MODELS



SAVINGS UP TO  
**\$20K OFF**  
BASE PRICE MACHINES

OR SAVE UP TO  
**25% OFF**  
IN-STOCK MACHINES

**DC-1**  
30-TAPER DRILL CENTER

**\$15K OFF**  
+ UP TO 25% OFF IN-STOCK MACHINES



**DC-2**  
30-TAPER DRILL CENTER

**\$20K OFF**  
+ UP TO 25% OFF IN-STOCK MACHINES



**DC-1/40**  
40-TAPER DRILL CENTER

**\$15K OFF**  
+ UP TO 25% OFF IN-STOCK MACHINES



**DC-2/40**  
40-TAPER DRILL CENTER

**\$20K OFF**  
+ UP TO 25% OFF IN-STOCK MACHINES



**VOP**  
VALUE OPTION PACKAGES  
**A NEW WAY TO SAVE**

**FLASH SALE**

**STOCK SALE**  
IN STOCK & READY TO SHIP  
Brand-New Hot Deals, Demo, Pre-Owned Machines, and more!

Deals ending soon!  
**HUGE DEALS ON 7500+ TOOLS**

New Price Drops!  
**Pre-Black Friday Deals**

**FREE NEXT-DAY DELIVERY!** \$10 FOR A YEAR!

# Sales Actions



**New Price DROPS!**  
Deals ending soon!  
**HUGE DEALS ON 7500+ TOOLS**

**Pre-BLACK FRIDAY DEALS**

**FREE NEXT DAY DELIVERY!**

SIGN UP FOR WINNER'S CIRCLE **\$10** FOR A YEAR!  
\$95 WINNER'S CIRCLE

- About Haas Tooling >
- ★ Join Winner's Circle
- Today's Hot Deals
- Clearance
- Measuring & Inspection
- Automation Accessories
- Shop Support
- Mill Toolholding
- Mill Cutting Tools
- Boring Systems
- Mill Workholding
- Lathe Toolholding
- Lathe Cutting Tools
- Lathe Workholding
- Package Kits
- ER Collets & Chucks

## MOST POPULAR TOOLING CATEGORIES

<b>END MILLS</b> 	<b>CARBIDE DRILLS</b> 	<b>TAPS</b> 	<b>TURNING INSERTS</b> 	<b>ER COLLET CHUCKS</b> 	<b>END MILL HOLDERS</b> 
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## HAAS TOOLING QUICK LINKS

 New Products <a href="#">Learn More &gt;</a>	 Popular Products <a href="#">Learn More &gt;</a>	 Frequently Asked Questions <a href="#">Learn More &gt;</a>	 Financing & Open Terms <a href="#">Learn More &gt;</a>	 Ready2Run <a href="#">Learn More &gt;</a>	 Tooling Kits for Machining <a href="#">Learn More &gt;</a>
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## All Haas Tooling Products

 Winner's Circle	 Today's Hot Deals	 Clearance	 Measuring & Inspection	 Automation Accessories
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**VOP**  
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**A NEW WAY TO SAVE**

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# Sales Actions



**Haas F1 Team**  
OFFICIAL MACHINE TOOL

# STOCK SALE

## IN STOCK & READY TO SHIP

## VOP

VALUE OPTION PACKAGES  
**A NEW WAY TO SAVE**

## FLASH SALE

## STOCK SALE

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HAAS TOOLING.COM

### HOT DEALS

#### In-Stock and Ready-to-Ship Machines

Haas Hot Deal Machines are brand-new machines in stock with special pricing. These machines are currently in our inventory, and ready for immediate delivery. All Hot Deal Machines come with a full standard 1-year warranty.

[SEE DEALS](#)



### DEMO & PREOWNED

**Pre-owned Machines** – Most pre-owned machines were used for training new machinists at schools and technical education centers and are sold as-is, with no warranty.

**Demo Machines** – New machines that had limited usage performing test cuts for the purpose of demonstrating the machine capabilities. Sold with a full 1-year warranty.

[VIEW MACHINES](#)



### CANCELED ORDERS

#### Brand-New, Custom Configured Machines

**Never Used!**  
Canceled orders, fully inspected, and ready to ship with a standard 1-year warranty. These machines have never been installed, so don't miss out on these custom configured options at unbeatable prices!

[VIEW MACHINES](#)



HOT DEALS

DEMO & PRE-OWNED

CANCELED ORDERS

#### HOT DEALS EXPLAINED

##### Hot Deals on In-Stock and Ready-to-Ship Machines

Haas Hot Deal Machines are brand-new machines in stock with special pricing. These machines are currently in our inventory, and ready for immediate delivery. All Hot Deal Machines come with a full standard one-year warranty.

# Product Updates

# New Products Strategy



- 3 methods
  1. Haas designed and built
    - ST-40Y, DT-3, DM-3, VF-7SS, VF-8SS, VM-8, GM-1, etc
  2. Naked machines
    - Machines w/o a control, but a complete machine tool
    - Haas Control and options added at the Factory
      - DCs, SBs, SRs
  3. Branded machines
    - Complete machines that are branded Haas
    - Updated to our requirements
      - Air compressors, laser markers, tool presetters, knee mill, CMM, etc
- Key element – all machines are sold, serviced and supported by **HFOs**

# Control and Color Update



- 19" widescreen monitor
- New colors and decals
  - Flat black doors and accent sheet metal
- Carbon fiber pendant, glovebox door, and RJH housing



# 19" Monitor and Color Update



- February
  - UMC-400/500, ST-30/35, DS-30Y, SR-3015P, DT-3, DM-3, SB-28Y, ST-40LY, GM-1
- March
  - UMC-750, VF-3/4/5, VR-5, VP-5, VM-3
- April
  - VF-1/2, VM-2
- May
  - UMC-1000/1250/1500, VF-6 to VF-14, ST-10 to ST-55, VR, VM
- June
  - DT, DM, EC, GM, HDC, VC, VS
- July and beyond
  - GR, MM, CM, CL, Simulators

# Haas Control Versions



## Premium Control



### Premium Control

- 'DS9' software
- 19" monitor
- Touch Screen
- New features will be added

## Standard Control



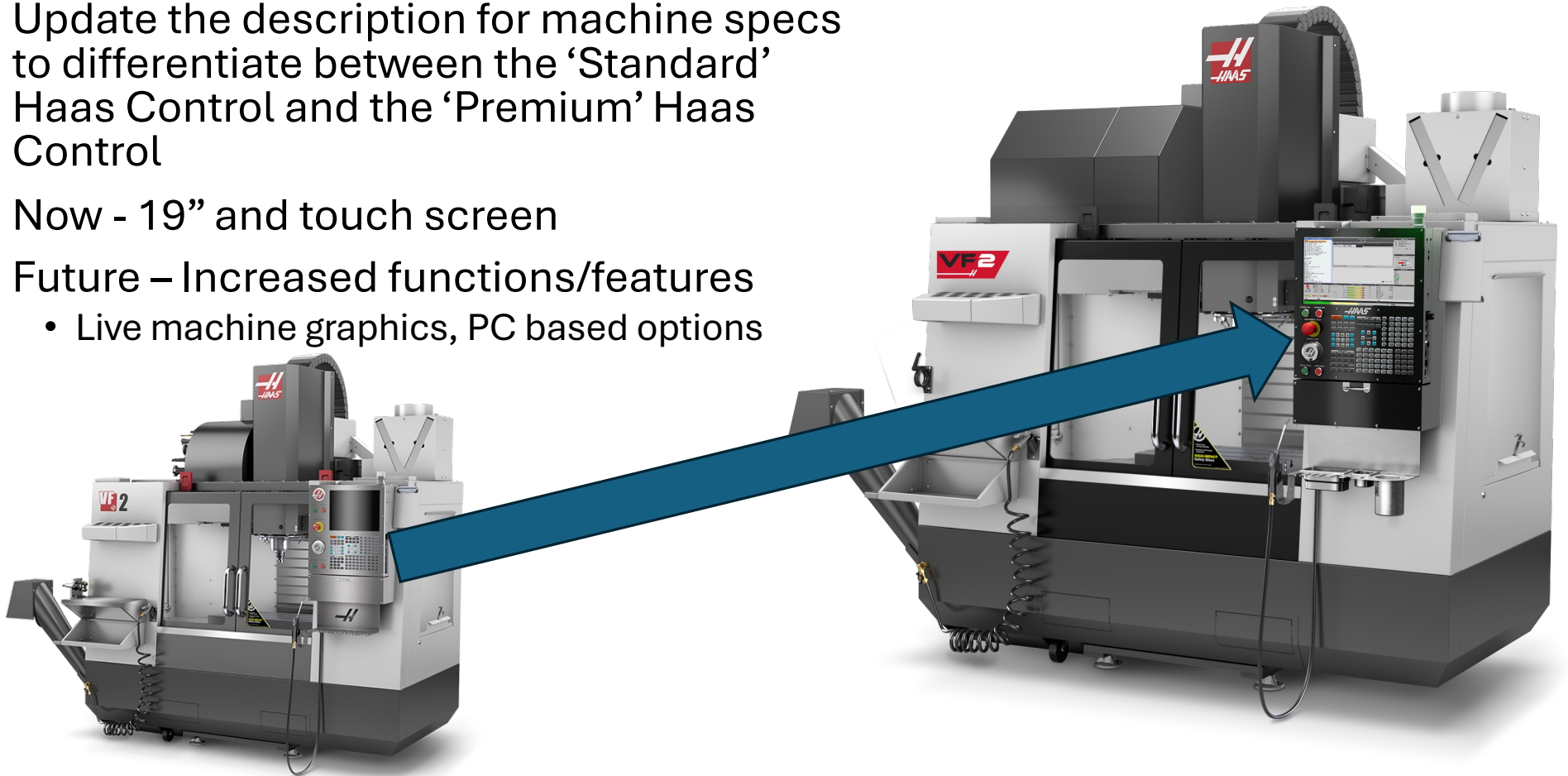
### Standard Control

- 'NGC' software
- 15" monitor
- No touch screen (phase out)
- No new features

# Premium Control



- Update the description for machine specs to differentiate between the 'Standard' Haas Control and the 'Premium' Haas Control
- Now - 19" and touch screen
- Future – Increased functions/features
  - Live machine graphics, PC based options



# Premium Control Specs



CNC Machining is Complex. Your Control Shouldn't Be.

OVERVIEW FEATURES & OPTIONS SPECS VIDEOS

VMC Control Specs HMC Control Specs Lathe Control Specs

VMC CONTROL SPECS

GENERAL	Standard Control	Premium Control
Microprocessor	Quad Core	New/Updated Specs
Program execution speed	1000 blocks/sec standard	
Axis control	3 axes linear, 4th and 5th axes optional	
Interpolation	G01, G02, G03, helical	
Min. input increment	- inch mode 0.0001" - metric mode 0.001 mm	
Min. output resolution	0.0000072" (0.000 18 mm)	
FEED FUNCTIONS		
Rapid Traverse Override	5%, 25%, 50%, 100%	
Feedrate Override	0% to 999% in 1% increments	

- Provide a differentiation between the 'Standard' control and 'Premium' control
- Make Haas Connect an option on 'Standard' control, but included with 'Premium' control

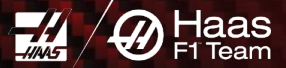
# Haas Control Version Deployment



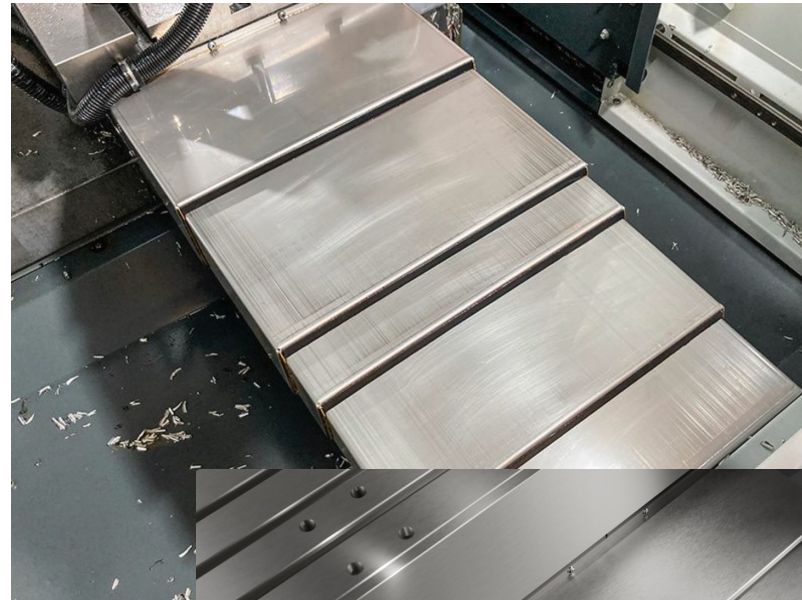
Control Version	Machines
Premium Control	VF, VR, VM, UMC, GM, GR, DC, DT, DM, UMC, EC, ST, DS
Standard Control	TM, TL, Desktop, SR, Pocket



# Stainless Way Covers



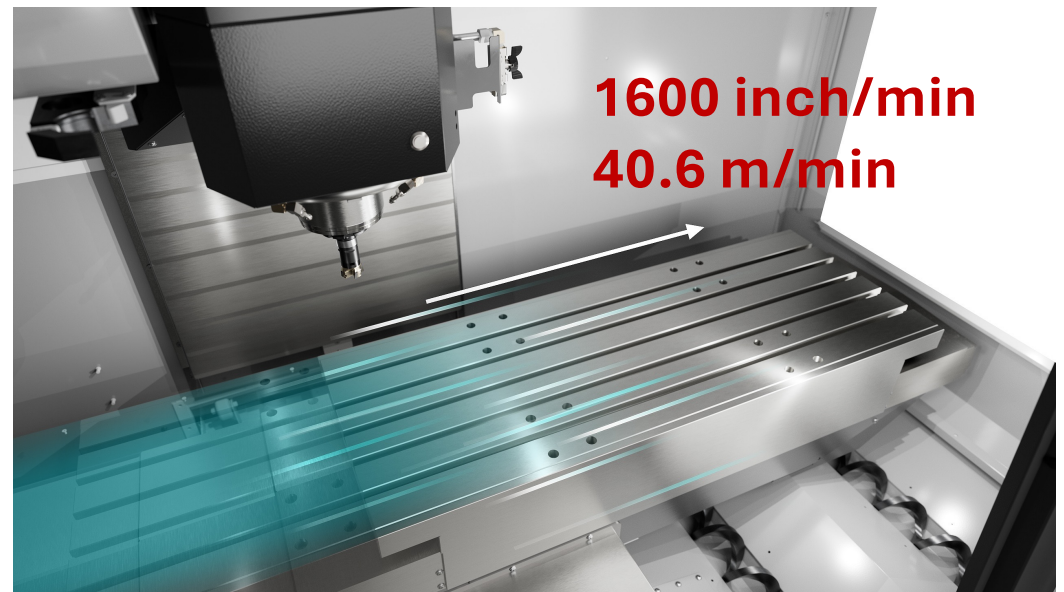
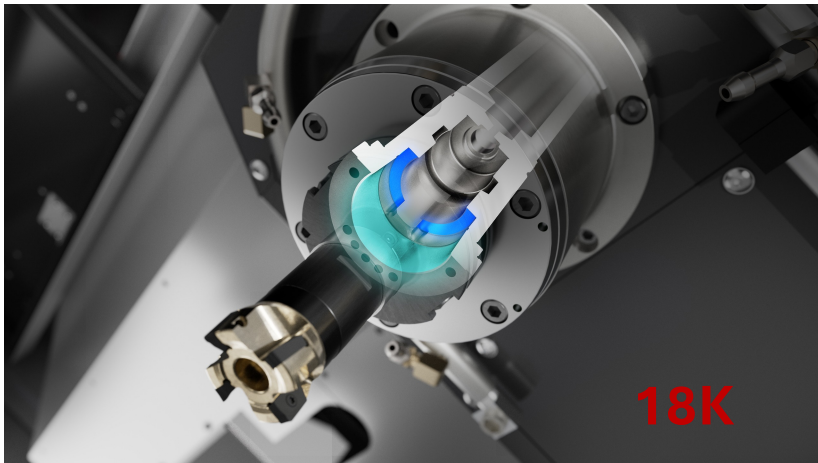
- All way covers will be updated to stainless steel
- Both mills and lathes
- Standard on:
  - All VF, VM, VR
  - ST-20, ST-30L, ST-40Ys
  - MM
  - CM/CL
  - ECs
  - HDC
  - VS
  - UMC



# Super Speeds Upgrades



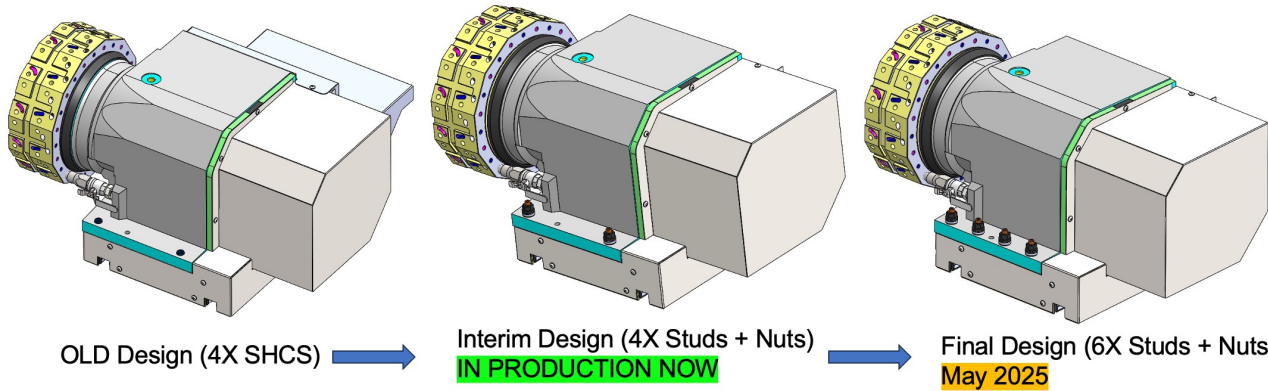
- 2025 Super Speed Improvements
  - 1600 ipm / 40.6 m/min rapids
    - End of Q3-2025 release, not on VF-5SS, VF-6SS, VF-7SS, VF-8SS
  - 18,000-rpm 40-taper & HSK63A spindle options



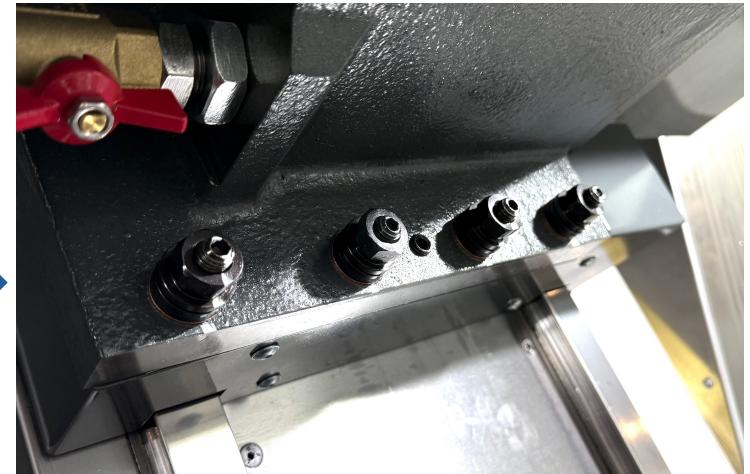
# Lathe Turret Housings



## BMT65 Studs + Nuts Update



In production for ST-20s, ST-30s, ST-40s





# Multi-Stage Coolant Pump



- Series of stacked impellers to provide more flow and higher pressure than the single-stage coolant pump
- Much quieter operation than single impeller or gear driven
- Built in filter on pick up tube
- 1.5 hp, previous single stage impeller pump was  $\frac{3}{4}$  hp
- Standard on:
  - VF, VM, DC, DT/DM-3
  - ST-30 to ST-45Y, DS-30Y
- Expanding to:
  - ST-10 to ST-25, ST-55
- Field Update Kit - 93-1001166

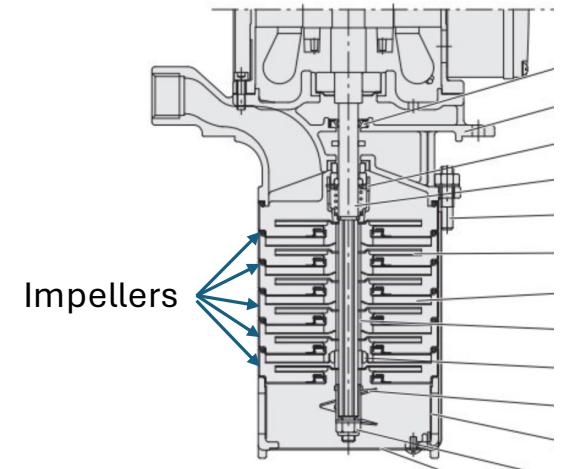
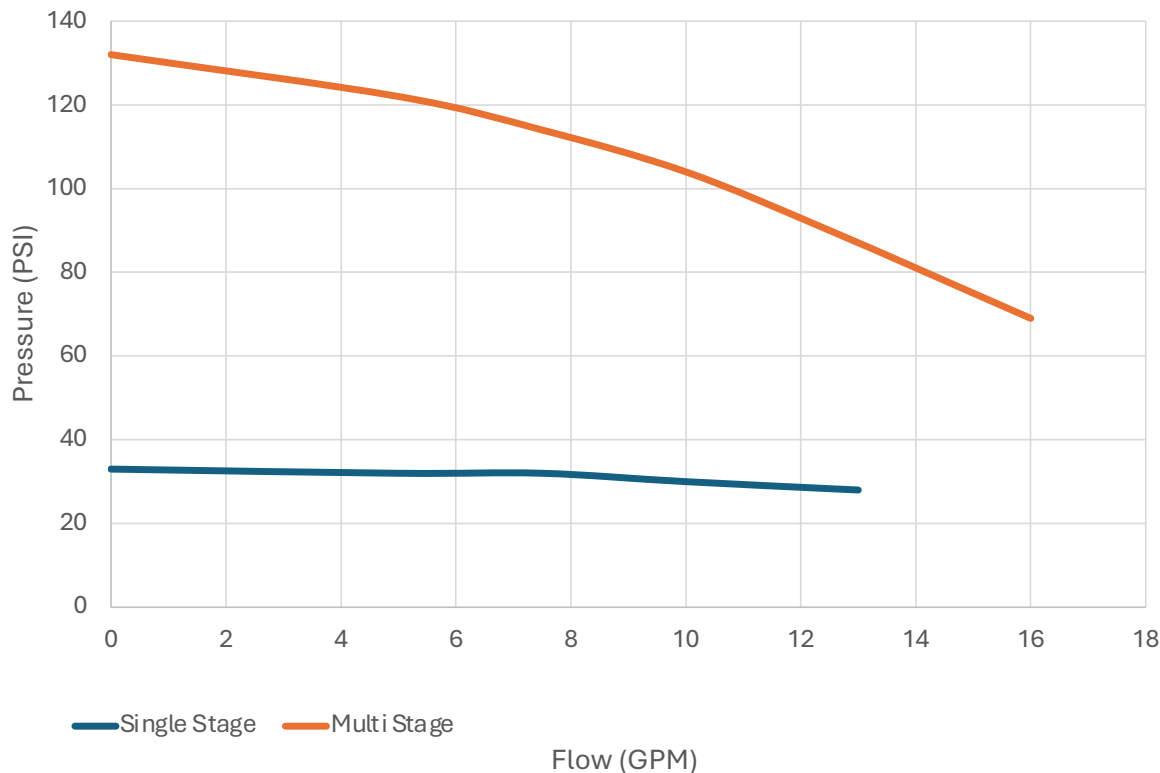


# Multi-Stage Coolant Pump



- Field Update Kit - 93-1001166, \$1,495

Multi vs. Single Stage Pump



	<b>SAE</b>	<b>METRIC</b>
Power	1.5 hp	1.1 kW
Flow Rate 60Hz	16 gpm @ 70 psi	61 L/min @ 4.8 bar
Pressure 60Hz (outlet)	70 psi	4.8 bar
Pressure 60Hz (spindle)	40 psi	2.8 bar
Deadhead Pressure 60Hz	130 psi	9 bar
Flow Rate 50Hz	14 gpm @ 50 psi	53 L/min @ 3.4 bar
Pressure 50Hz (outlet)	50 psi	3.4 bar
Pressure 50Hz (spindle)	30 psi	2.1 bar
Deadhead Pressure 50Hz	95 psi	6.6 bar

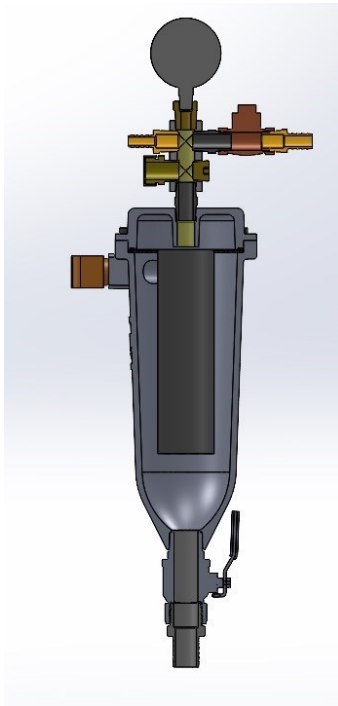
# Chip Separator



NEW

## Chip Separator:

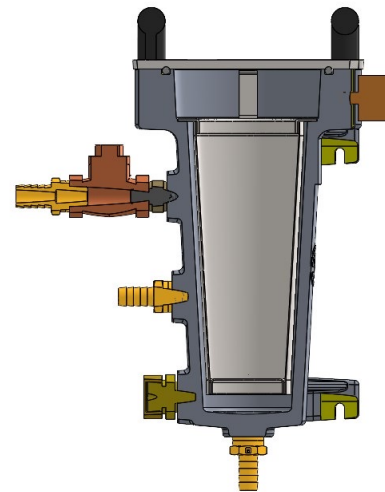
- Finer mesh screen (.020" vs .045")
- Coolant runs out of filter tube (allows chips to be dumped out without disassembling)
- Gauge readout to monitor pressure
- Compatible with current and older machine (same mounting and plumbing)
- Able to withstand higher pressure from HPFC/multi stage



OLD

## Chip Separator:

- Course mesh screen (.020" vs .045")
- Coolant runs inside of filter tube (cover has to be removed to dump out chips)
- Different cap required for HPFC due to higher pressure

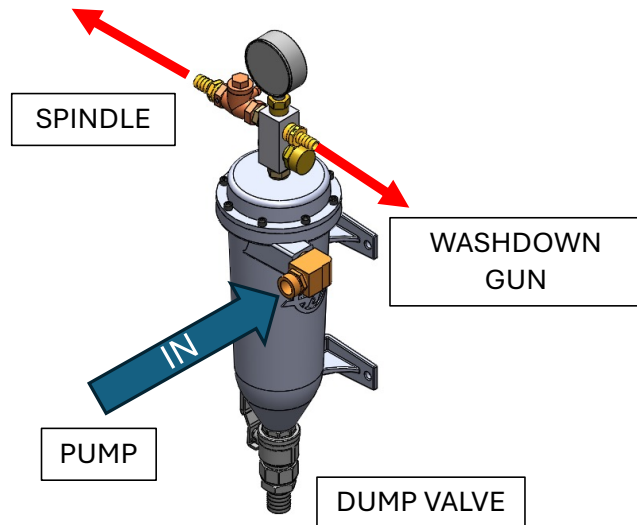


# Chip Separator



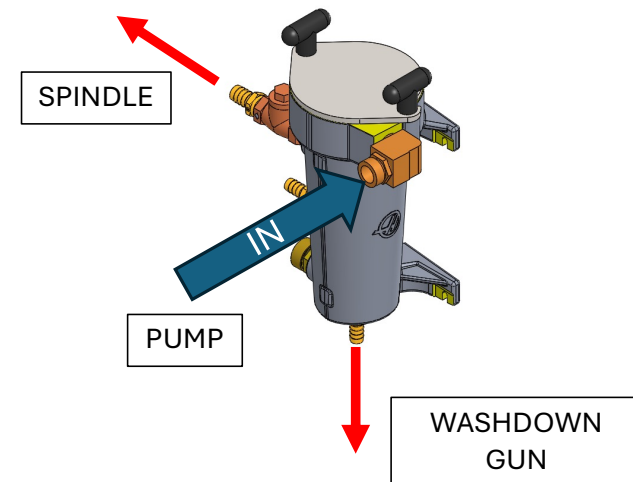
## NEW Chip Separator:

- Finer mesh screen (.020" vs .045")
- Coolant runs out of filter tube (allows chips to be dumped out without disassembling)
- Gauge readout to monitor pressure
- Compatible with current and older machine
- Able to withstand higher pressure from HPFC/multi-stage coolant pump
- Shipping on all machines since Q1-2025



## OLD Chip Separator:

- Course mesh screen (.020" vs .045")
- Coolant runs inside of filter tube
- Cover has to be removed to dump out chips
- Different cap required for HPFC due to higher pressure



# Chip Washdown



- (3) Coolant manifolds
  - Right side
  - Left side
  - Rear Y-axis waycover
- Requires multistage coolant pump
- Standard on:
  - Small VF
  - DT-3, DM-3
- Expanding to:
  - Medium VF Aug 2025
  - Large VF Q4 2025

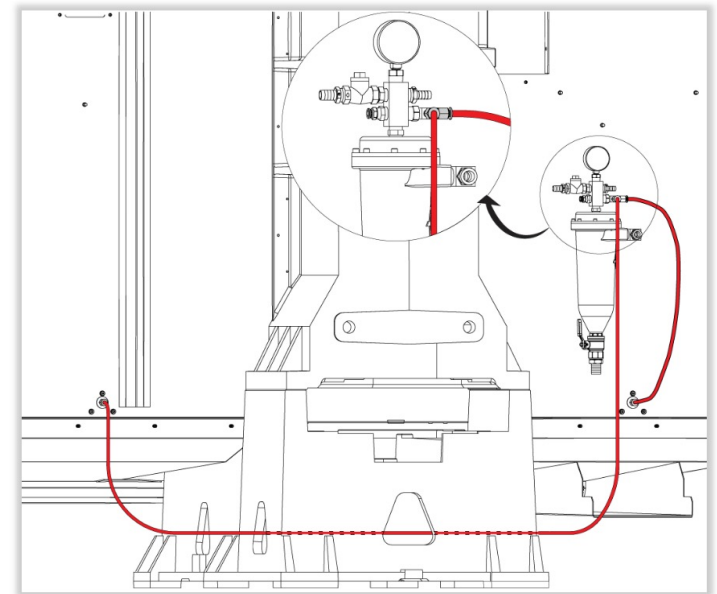
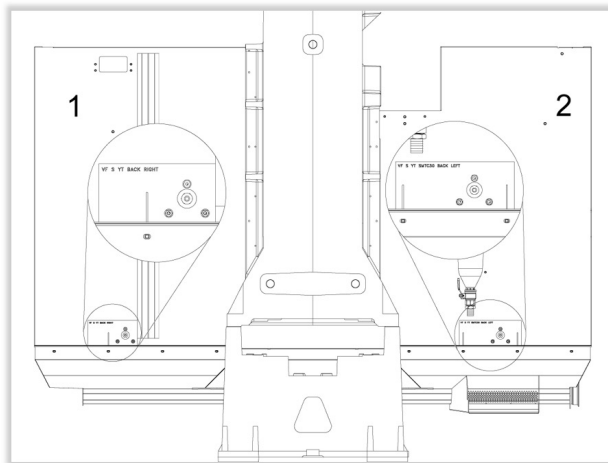


# Chip Washdown



- Field installation kits, \$795
  - **93-1001191** WASHDOWN FIELD KIT VF S NYT SMTC30 (VF-1/2, VM-2 - 30 Pocket SMTC)
  - **93-1001190** WASHDOWN FIELD KIT VF S YT SMTC30 (VF-1/2 YT - 30 Pocket SMTC)
  - **93-1001188** WASHDOWN FIELD KIT VF S YT SMTC50 (VF-1/2 YT, VM-2 - 50 Pocket SMTC)
  - **93-1001189** WASHDOWN FIELD KIT VF S YT SMTC70 (VF-1/2 YT - 70 Pocket SMTC)
- Installation instructions available

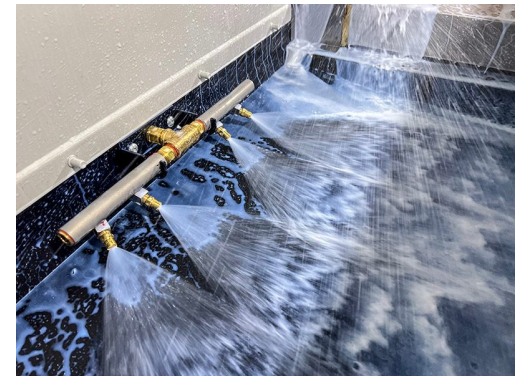
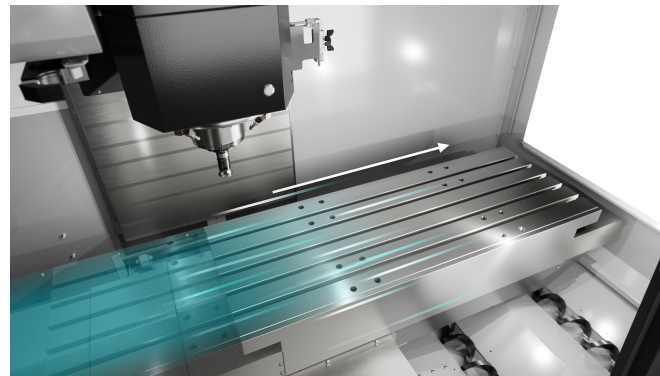
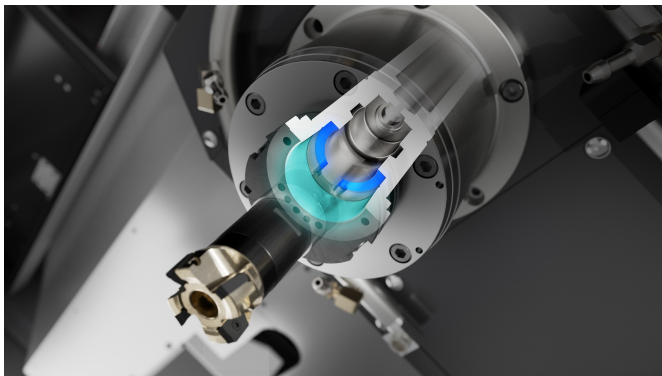
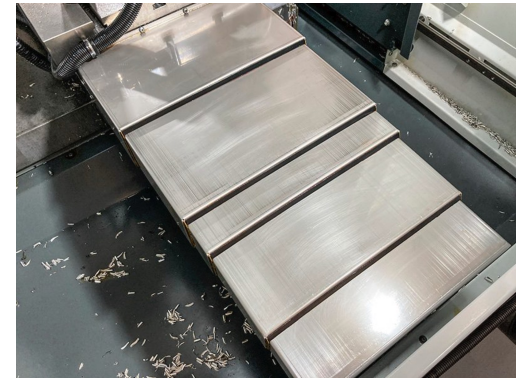
Chip Washdown System - Templates



# More Super Super Speeds



- Updated control w/ 19" monitor and carbon fiber bezel
- Stainless steel way covers
- Multi-stage coolant pump w/ more flow and pressure
- Chip separator
- Chip wash down
- Increased rapids to 1,600 ipm
- Available 18k spindle





# New Machines

# WHAT WE BUILD

**VERTICAL MILLS**

**HORIZONTALS**

**MOLD MAKING**

**5-AXIS**

**SPECIALTY**

**LATHE**

**COMPACT**

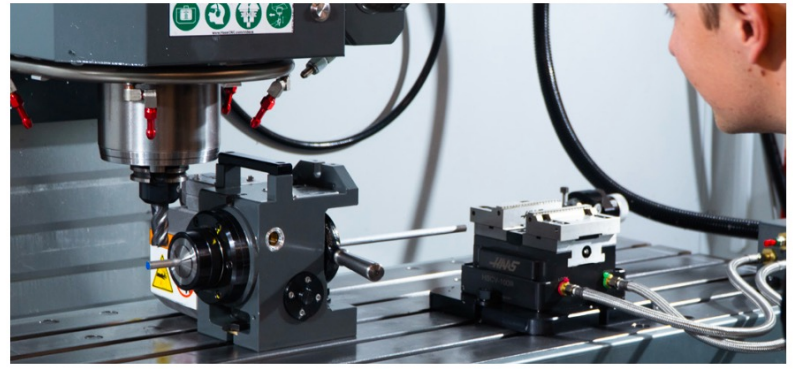
**MINI MILLS**

**DC/TM/DT**

**TURBOBOOM**

**EDUCATION**

**OVER 150 UNIQUE PRODUCTS - FROM ROTARY SOLUTIONS TO CNC MACHINES AND EVERYTHING IN BETWEEN.**



**ROTARY**

**THROUGH-BORE**

**MULTI-HEAD**

**TILTING**

**AUTOMATION**

**SHOP EQUIPMENT**

# Verticals

# DT-3 and DM-3



- DT-3 and DM-3
- Expanded travels in X-axis, but with DT/DM-2 footprint
- Same spindle and tool changer configurations as DT/DMs
- Auger option allows for choice of side or front discharge
- Sales
  - DT-3 – 5 sold
  - DM-3 – 4 sold



# DT-3 and DM-3



- Auger option allows for choice of side or front discharge
- Same price for side or front discharge



Chip Auger, Side Discharge 



Chip Auger, Front Discharge 

# DT-3 and DM-3



The image compares two Haas CNC machines. The top section shows the VF-2 machine, which is 124 inches wide and has a 30-inch X-travel. The bottom section shows the DM-3/DT-3 machine, which is 114 inches wide (8% shorter than the VF-2) and has a 36-inch X-travel (20% more than the VF-2). Yellow arrows labeled 'X-TRAVEL' indicate the range of motion for each machine's tool head.

**VF-2**  
**30" X-TRAVEL**

**124" WIDE**

**8% SHORTER WIDTH**

**DM-3/DT-3**  
**36" X-TRAVEL**

**20% MORE X-TRAVEL**

**114" WIDE**

# New Large Frame VF



- VF-7SS
  - 12k, faster rapids, faster SMTC
  - 3 sold
- VF-8SS
  - 12k, faster rapids, faster SMTC
  - 3 sold
- VM-8
  - Same options as VM-6
  - VM-8 sized table
  - 1 sold



# GM-1 and GM-1XT



- GM-1
  - 121" x 61" 16" travels
- GM-1XT
  - 142" x 61" 16" travels
- Features
  - Inline drive spindle
    - 8.1k standard, up to 15k optional
  - 30+1 side-mount tool changer
  - All cast iron construction

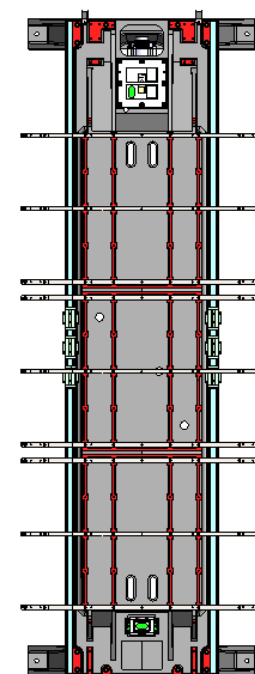
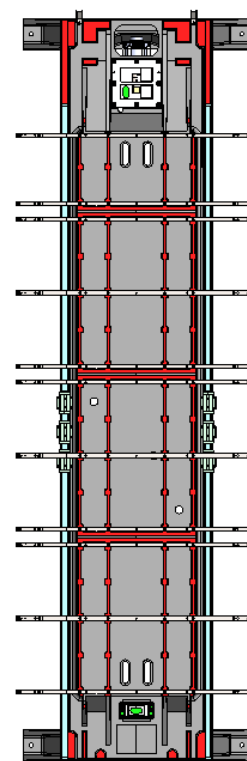
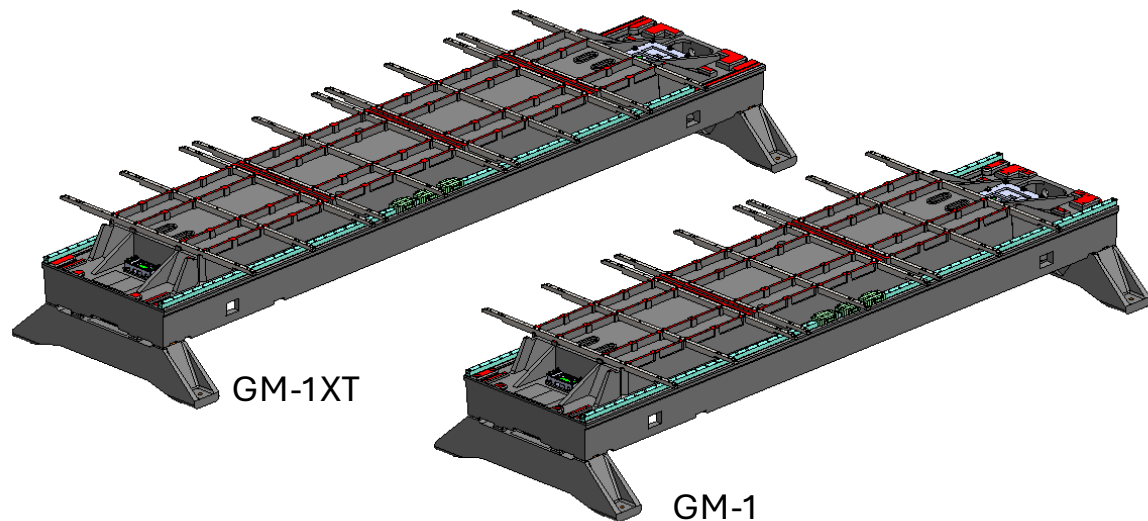


# GM-1 and GM-1XT



<b>Spec</b>	<b>GR-510</b>	<b>GM-1</b>	<b>GR-712</b>	<b>GM-1XT</b>
X Travel	121"	121"	145"	142.25"
Y Travel	61"	61"	85"	61"
Z Travel	11"	16"	11"	16"
Tool Changer	10/20 PKT UMB	30 PKT SMTC	10/20 PKT UMB	30 PKT SMTC
Spindle	Belted 8.1/10/15k	Inline 8.1/10/15k	Belted 8.1/10/15k	Inline 8.1/10/15k
Structure	Welded Steel	Cast Iron	Welded Steel	Cast Iron
Augers	No	Yes	No	Yes
Container Shipping	No	Yes	No	Yes
Ballscrew Grade	Travel	Precision	Travel	Precision

# GM-1 and GM-1XT



GM-1XT

GM-1

# GM-1 Cutting VF-2 Table



# HDC-3-5AX



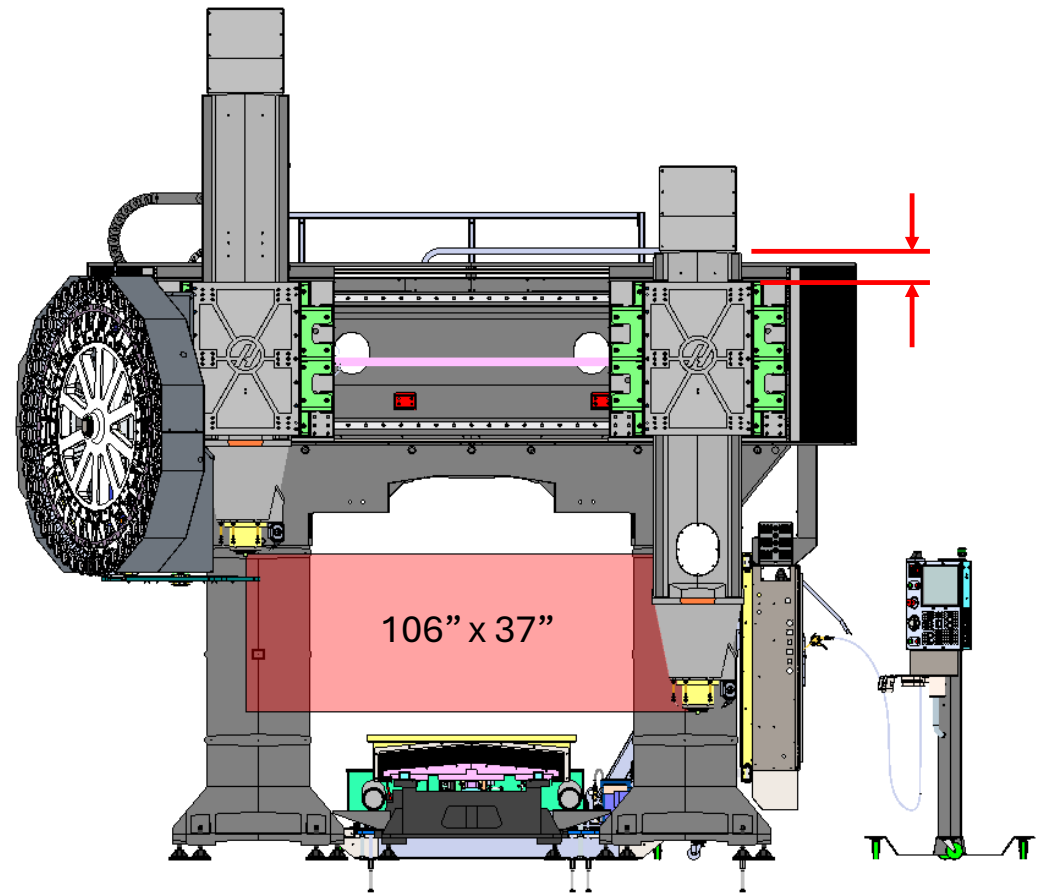
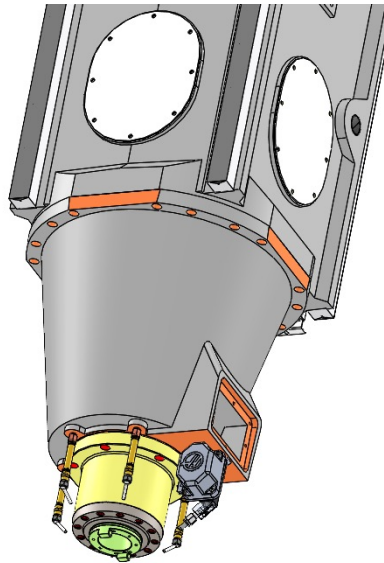
- Double-column, 5-axis machine
- 4 installed at Haas factory
- 7 sold in USA
  - 4 delivered



# HDC-3 (3-axis, 50T)



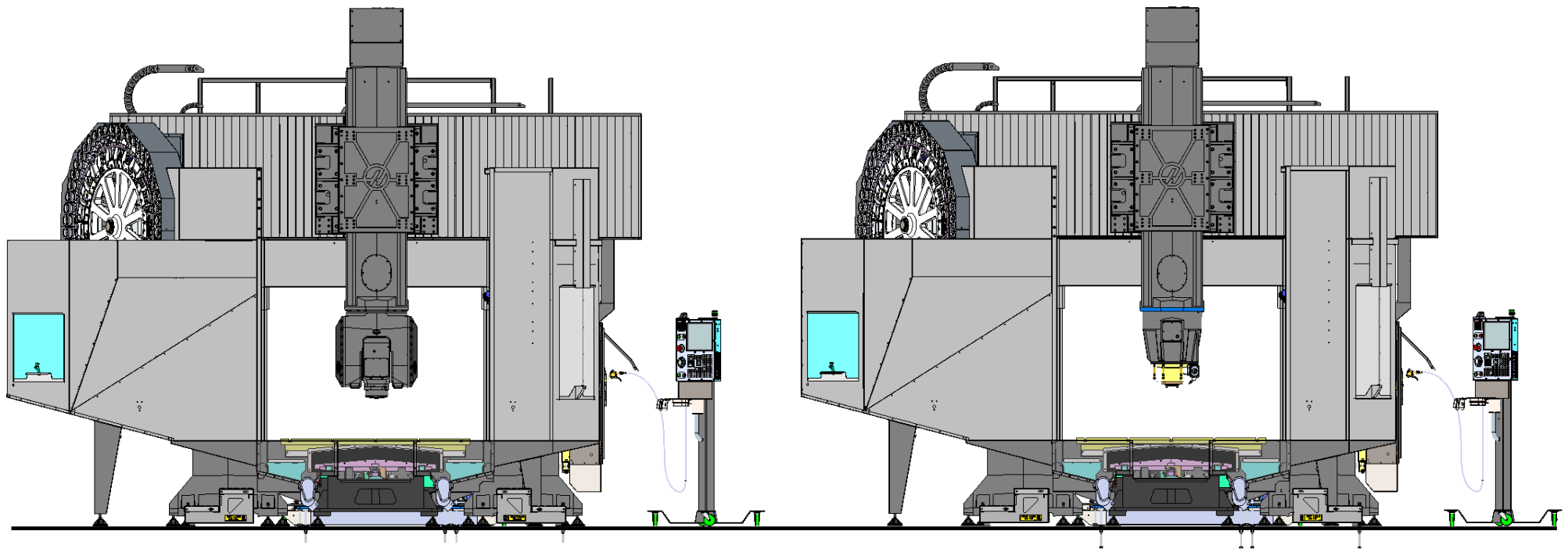
- Haas Inline 50 Taper
- 37" Z travel (43" Z travel HDC-3-5AX)
- July 1 release US/CA/MX
- Q4-2025 delivery



# HDC-3 (3-axis, 50T)



- 50T, 3-axis version



HDC-3-5AX

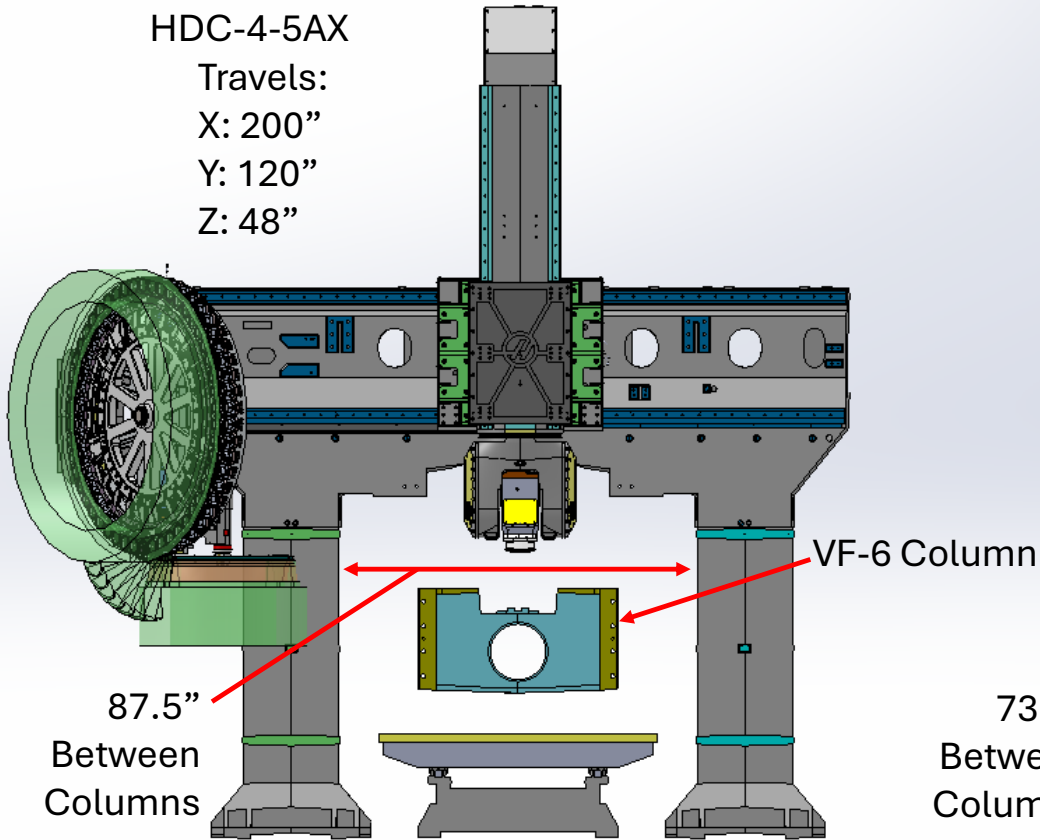
HDC-3

# HDC-4-5AX



HDC-4-5AX

Travels:  
X: 200"  
Y: 120"  
Z: 48"

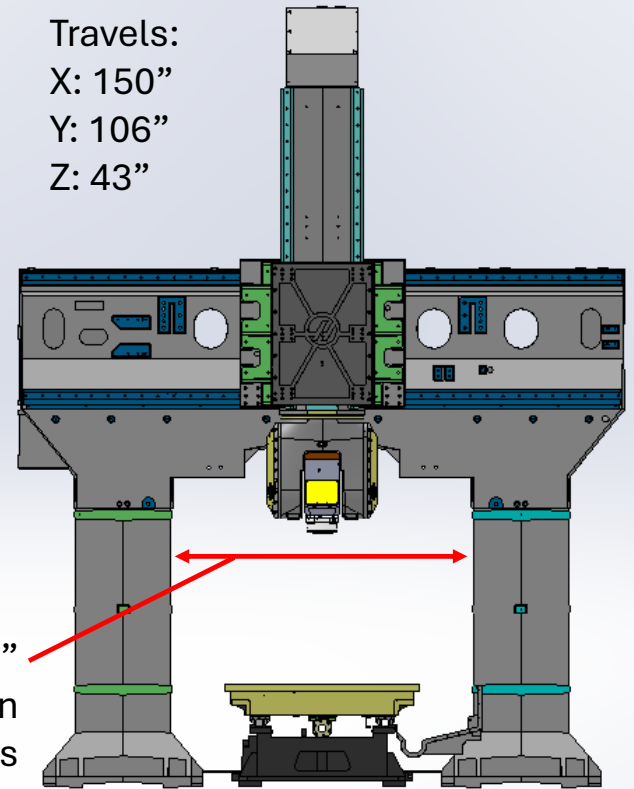


87.5"  
Between  
Columns

VF-6 Column

HDC-3-5AX

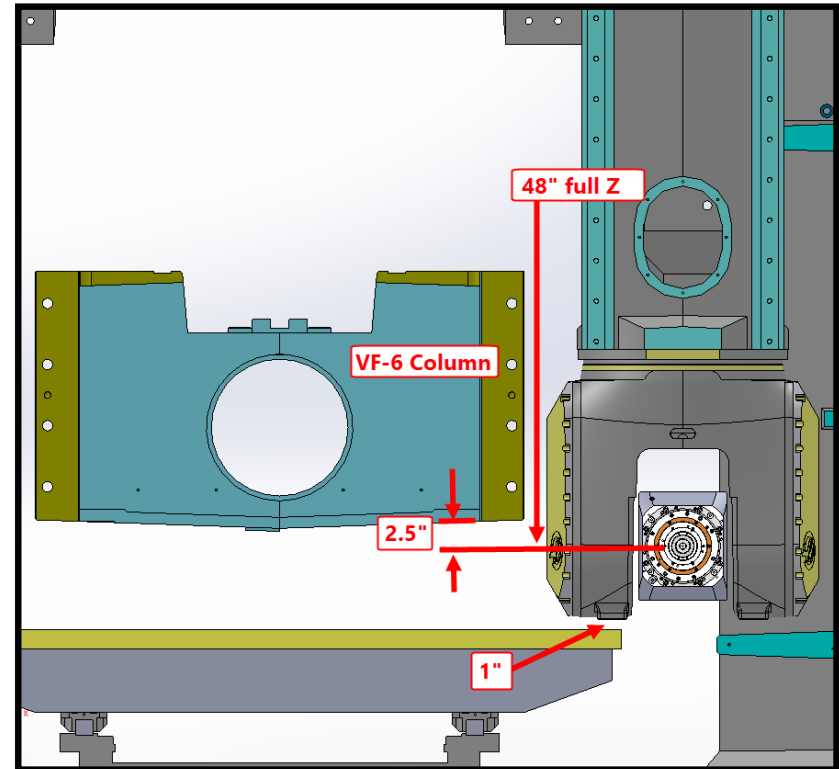
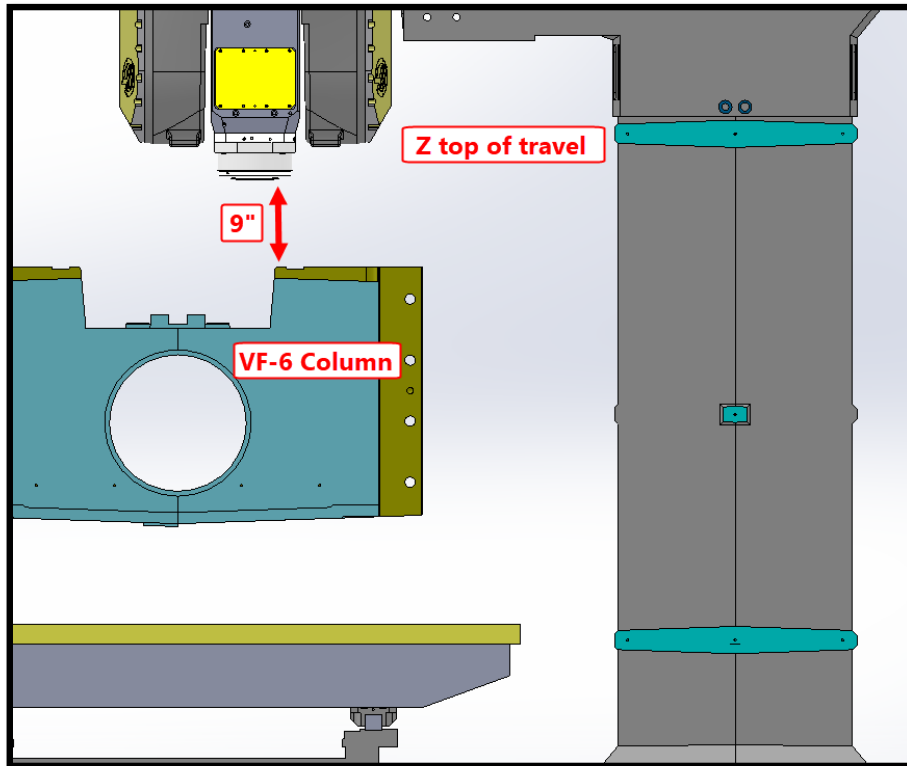
Travels:  
X: 150"  
Y: 106"  
Z: 43"



73.5"  
Between  
Columns

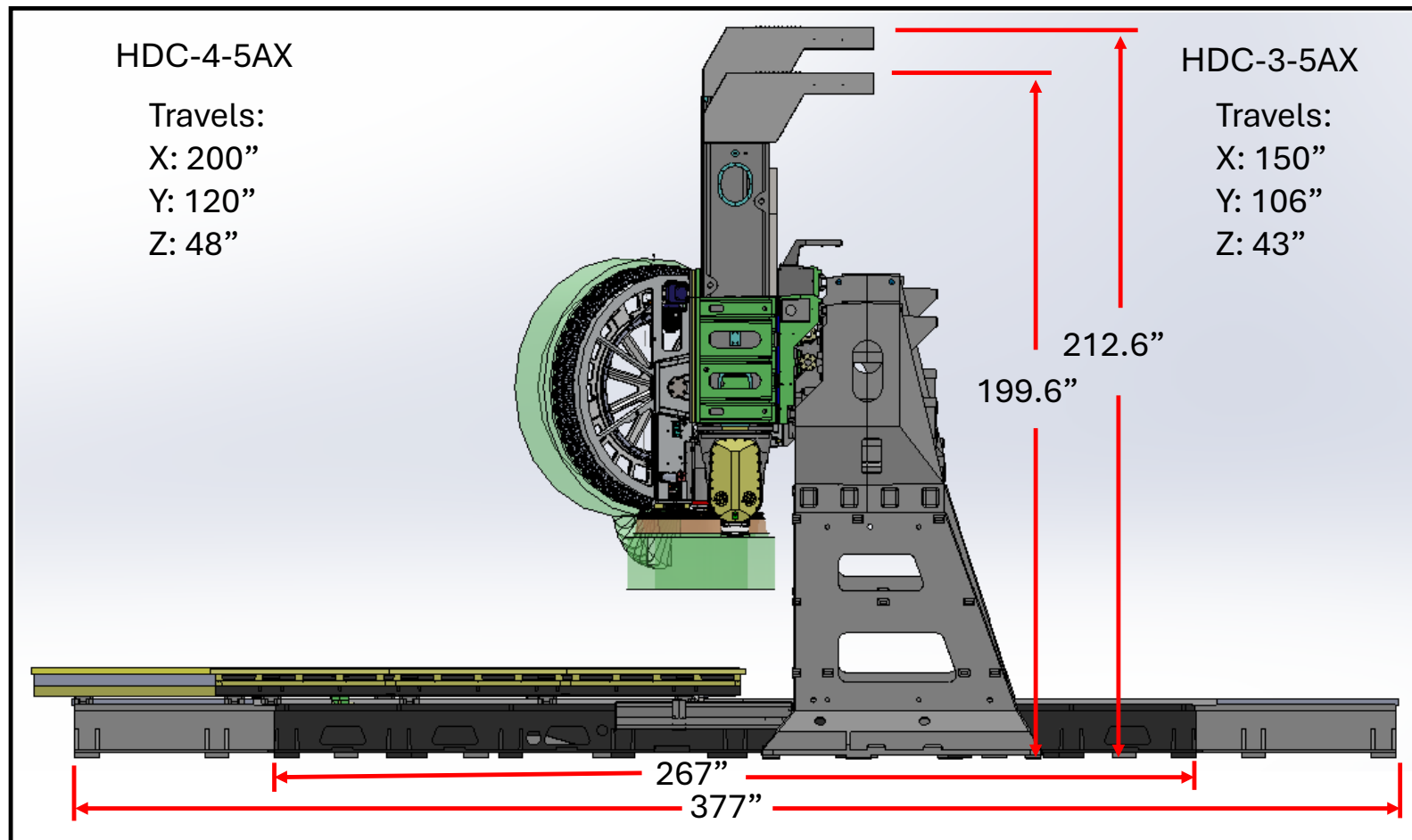
For reference: Toshiba MPC X: 275.6", Y: 133.9", Z: 39.4", W: 39.4"

# HDC-4-5AX



48" of Z travel can process a VF-6 Column with full face run-out at its feet

# HDC-4-5AX



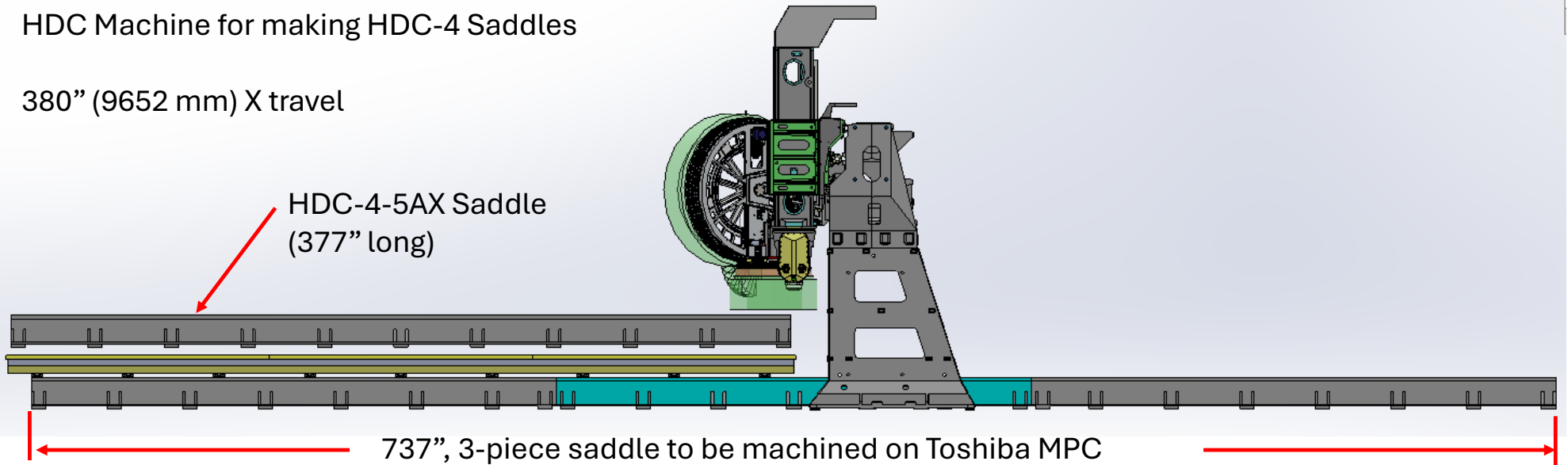
# HDC.....holy cow



HDC Machine for making HDC-4 Saddles

380" (9652 mm) X travel

HDC-4-5AX Saddle  
(377" long)



# Pocket Mill



- Small footprint, 40T entry level mill
- Based on Mini Mill
- 12" x 12" x 15" travels
- 4k spindle
- Optional 10 pocket tool changer and coolant system
- Release for sale July 1
- \$29,995

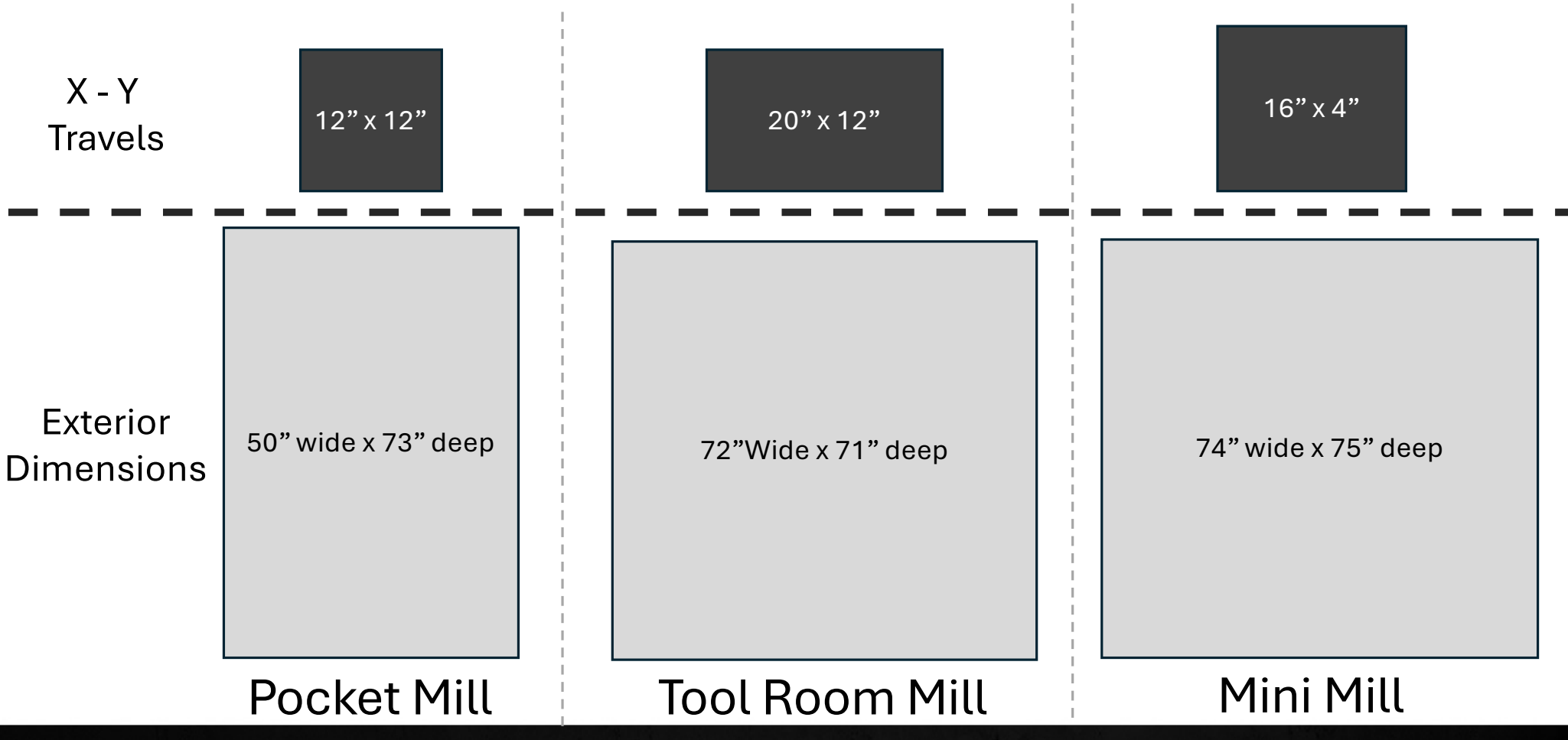


# Pocket Mill – Spec/Price Compare



	Pocket Mill	PM w/ Opts	TM-0	TM-0P	Mini Mill
<b>Price</b>	<b>\$ 29,995.00</b>	<b>\$ 40,280.00</b>	<b>\$ 37,995.00</b>	<b>\$ 41,995.00</b>	<b>\$ 44,995.00</b>
X-Axis	12"		20"	20"	16"
Y-Axis	12"		12"	12"	14"
Z-Axis	15"		16"	16"	15"
Dimensions					
Width	50"		72"	72"	74"
Depth	73"		71"	71"	75"
Spindle					
Max Rating	7.5 hp		7.5 hp	7.5 hp	10 hp
Max Speed	4000 rpm		4000 rpm	6000 rpm	8000 rpm
Optional Spindle	6000 rpm (opt)	\$ 4,295.00	\$ 4,295.00	STD	
Optional Spindle	8000 rpm (opt)	\$ 5,495.00			STD
Axis Speeds					
Rapids on X/Y/Z	200 in/min		200 in/min	400 in/min	800 in/min
Max Cutting	200 in/min		200 in/min	400 in/min	650 in/min
Tool Changer	10-umb (opt)	\$ 3,995.00	None	10-umb	10 / 20 (opt)
Coolant System	20 gal, 1/4 hp (opt)	\$ 1,995.00	20 gal, 1/4 hp	20 gal, 1/4 hp	45 gal/ 1 hp

# Travel and Size Compare



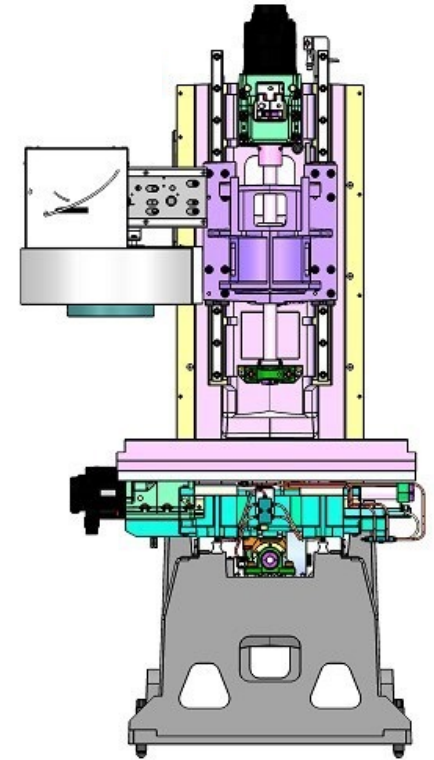
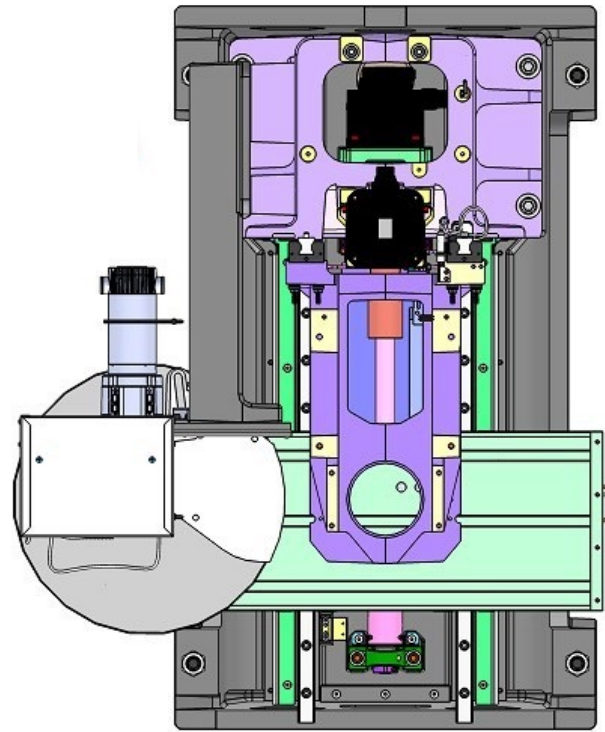
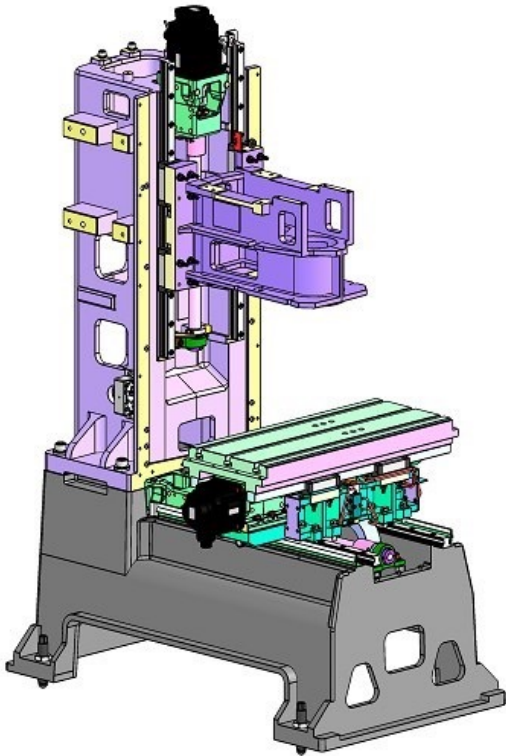
# Pocket Mill



- **Design goals:**
- Travel: 12" x 12" x 15"
- Pocket MM: no tool changer, no coolant option; starting price: \$29,995
- Options: 10-pocket carousel T/C & 20-gallon coolant tank options
- Small compact enclosure, swing-out door design
- New small table size: 28" x 11.2"
- Spindle: 40-taper
- Spindle speed: 4000 rpm, (optional: 6000 and 8000 rpm)
- Power: 10 hp
- WIPS option available
- 15" pendant control
- X, Y, Z max. rapid speed: 200 ipm (400 ipm optional)
- Max. cutting speed: 200 ipm
- Use same MM/SMM Y-axis SS way covers and Z-axis bellow
- Use same MM/SMM base, column, saddle casting assemblies



# Pocket Mill

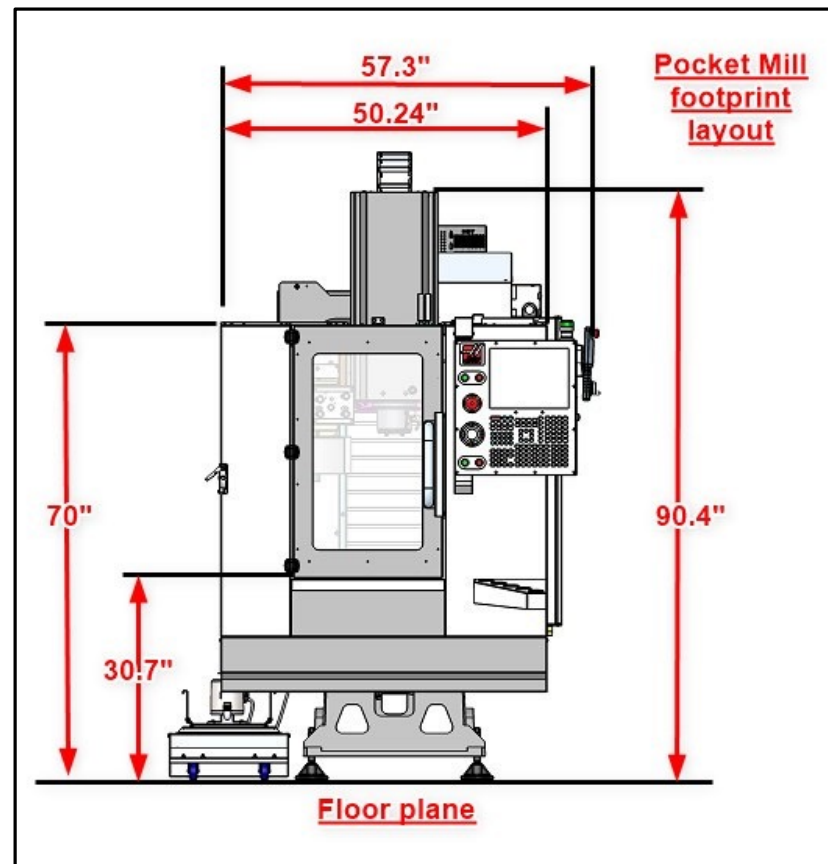
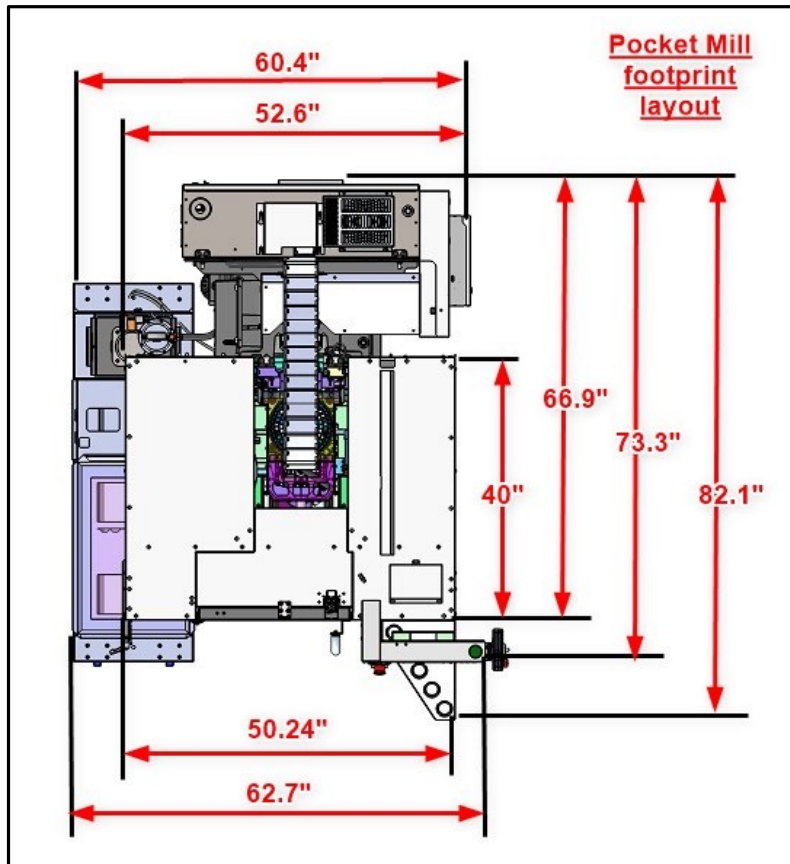


Sharing MM/SMM base, column, saddle and spindle head casting assemblies.  
New cast table unique to Pocket Mill

# Pocket Mill



Haas  
F1 Team



# Mill Spindle C-Axis Drive



## Mill Spindle C-Axis Drive

**Starting Price: US\$14,995**



- Mill, drill, and tap on multiple sides of a part
- Mounts to the mill spindle
- Accurate positioning to nearly any angle

Our Mill Spindle C-Axis Drive allows you to accurately position right-angle milling heads to nearly any angle for milling, drilling, and tapping on multiple sides of a part, and at any angle.

**NOTE:** Requires a Haas mill with 4th-axis drive and NGC software version 100.21.000.1130. Machines with a single-axis rotary installed will require both 4th- and 5th-axis drives. Not compatible with 2-axis rotaries.

### Benefits:

- Machine multiple faces with one angle head
- Achieves intermediate angles reliably; e.g., 30°, 45°, 60°
- Reduces set-up time
- Don't need to hand-load off-angle heads
- Ensures that angle heads can go into the tool changer

### SPECIFICATION

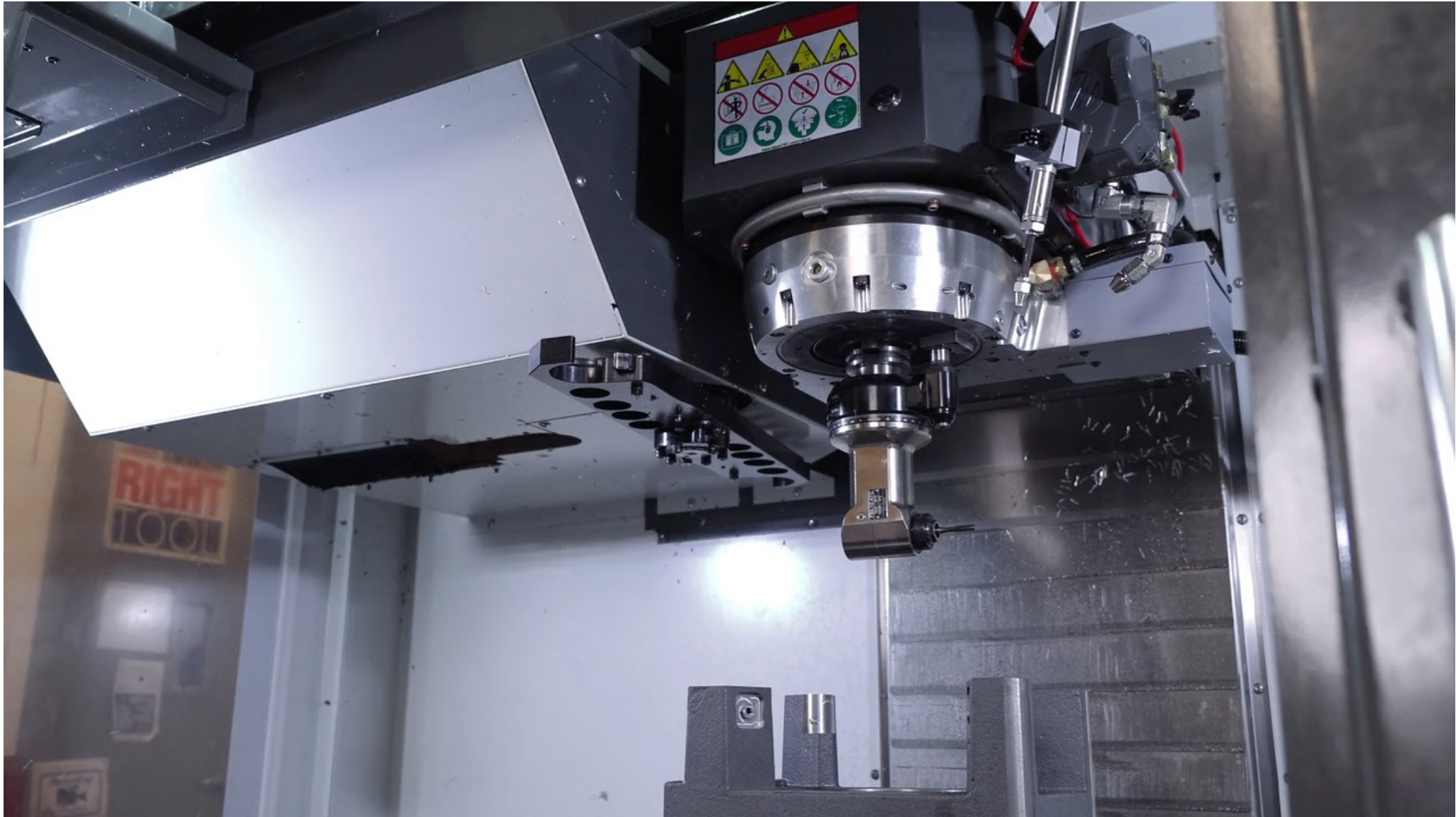
Max Speed  
Max Torque  
Positioning Increment  
Gear Ratio  
Drive Type

### S.A.E

100 °/sec  
145 ft-lbf  
0.001°  
83:1  
Worm Gear

### METRIC

100 °/sec  
197 Nm  
.001°  
83:1  
Worm Gear

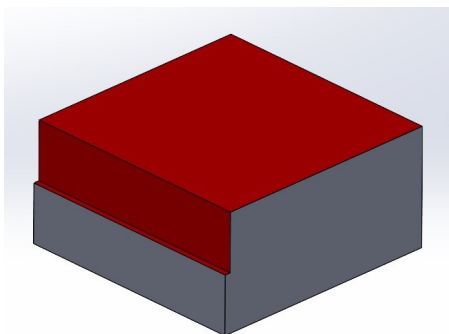
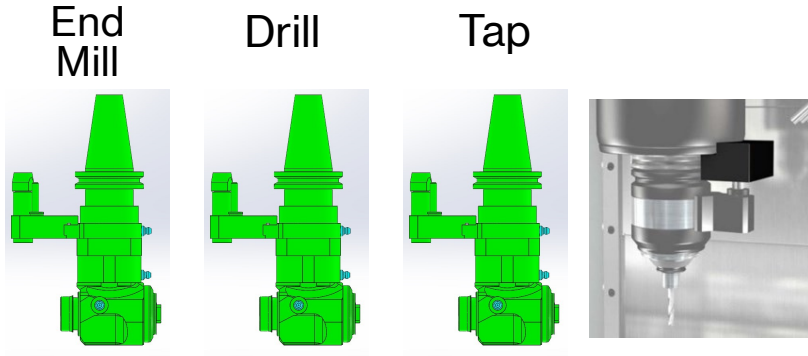


# Benefits of C-axis Drive



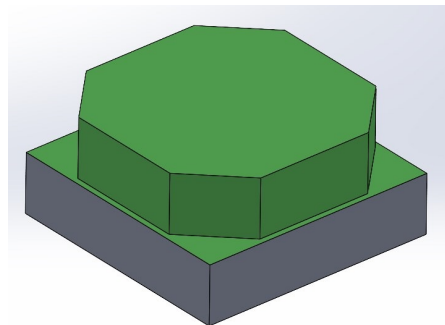
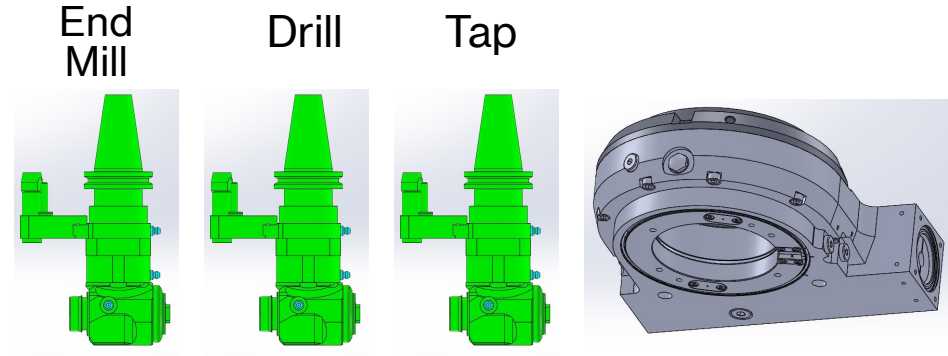
- Fixed stopping block limits the number of faces the tool can access.
- Tool must point in a specific direction to fit in the tool changer.
- Programmable C-axis drive allows 360-degrees of orientation to access all sides of the part, including synchronous motion.

## Typical Fixed Stopping Block Configuration



Only 2-Sides Accessible

## C-Axis Configuration

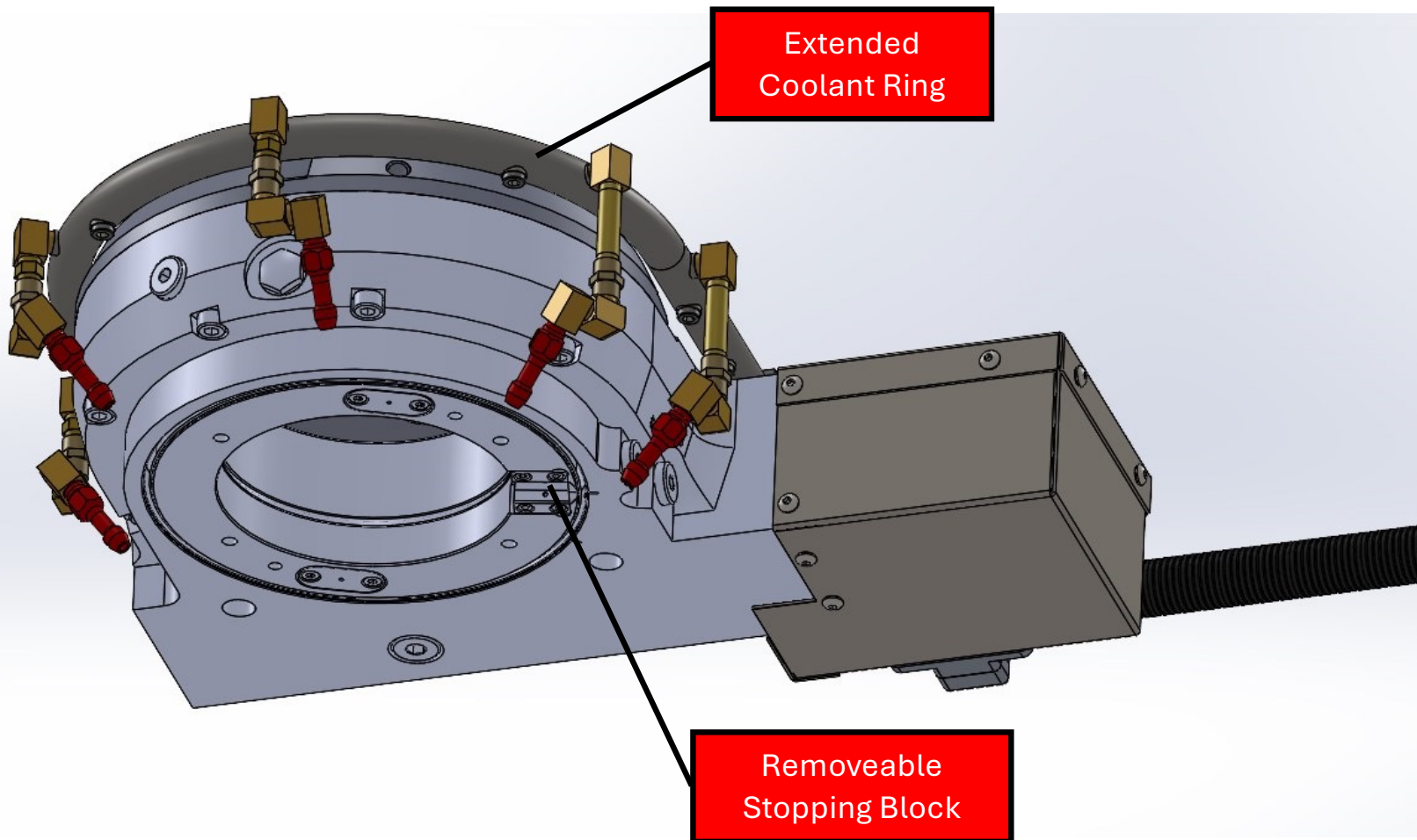


All Sides Accessible

# Key Components



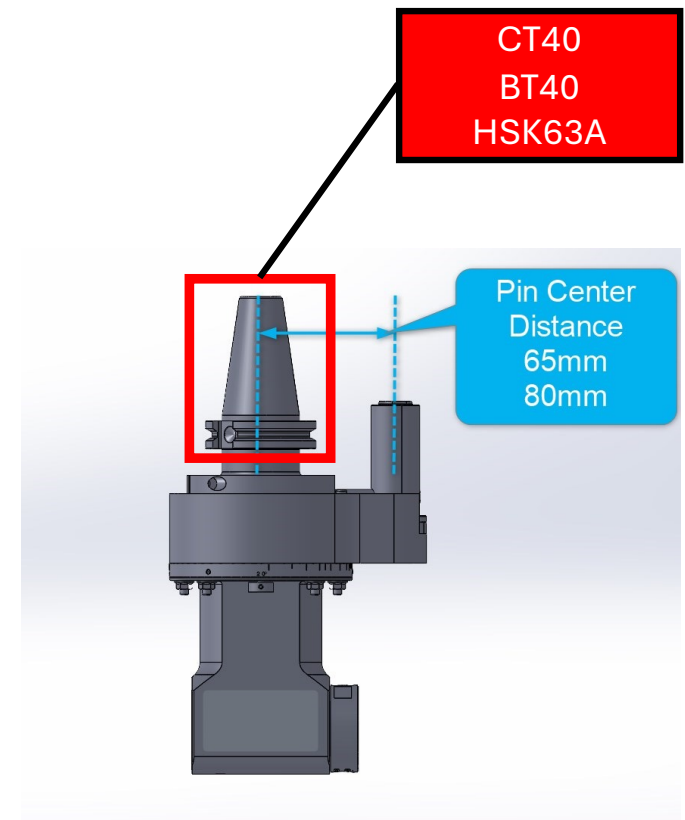
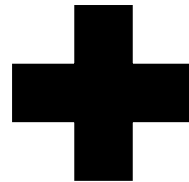
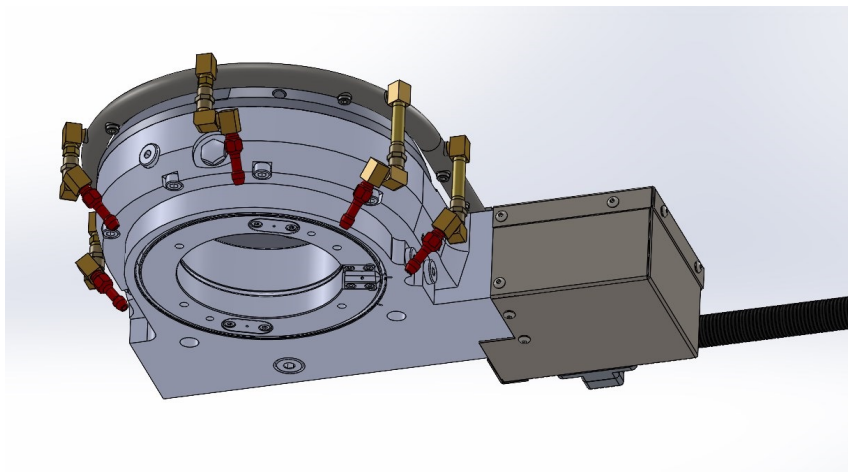
Haas  
F1 Team



# Tooling Compatibility



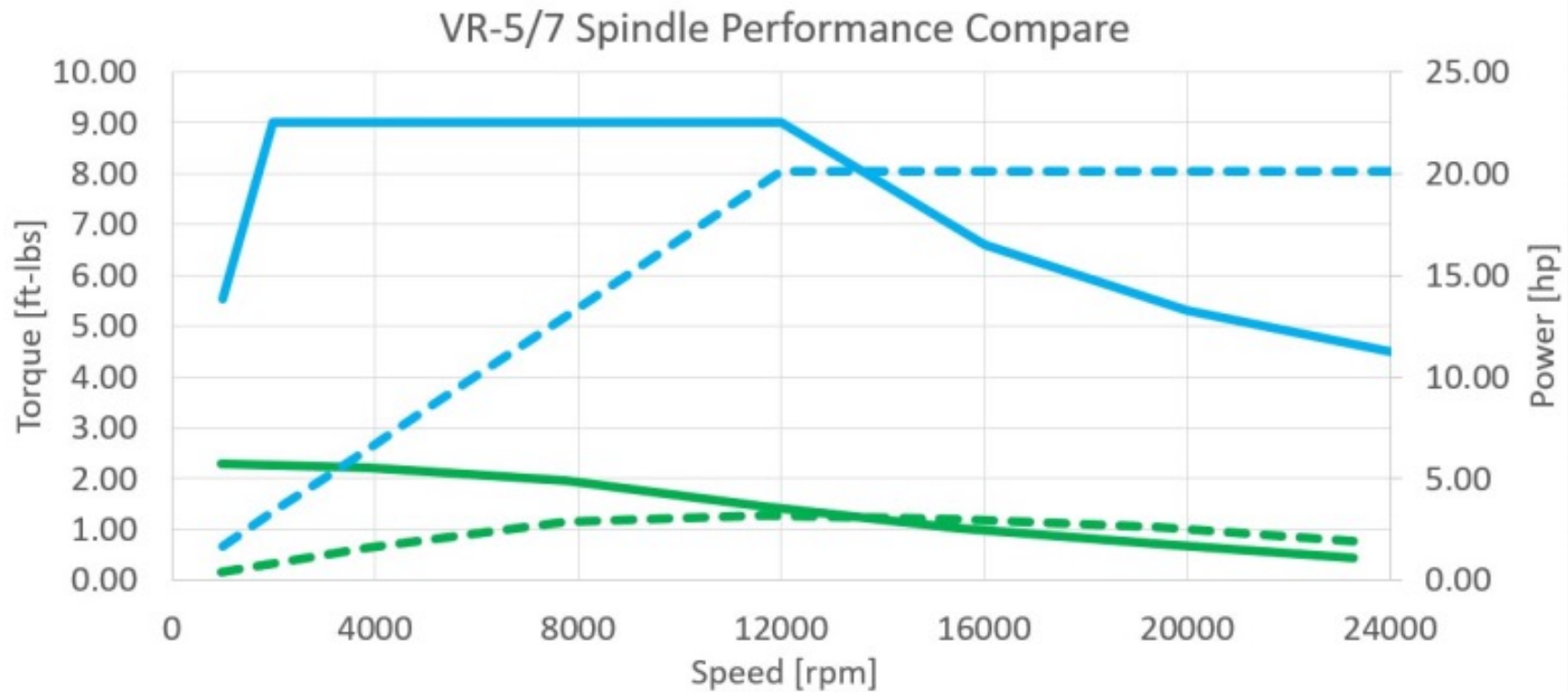
- Can be configured for tools with either 65mm or 80mm pin center distance



# VR-5 Updates



- Working towards a better performing spindle for VR-5



# TSC Parts Washer Tool



- Simple tool with nozzle outputs: 4x 1 mm orifice at 400 PSI
- VPS Template to program wash cycle like chip fan
- Tool will come standard with TSC options
- Tool with kits available on Haas Tooling in July



**UMCs**

# UMC-400



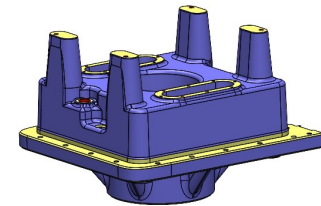
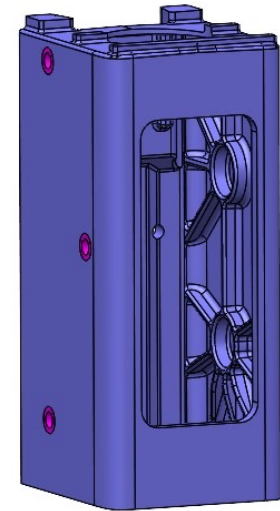
- UMC-400 & UMC-400SS
  - 5-axis entry-level UMC with a small footprint
  - Released for sale Sept 2024
  - Regular production
  - Sales:
    - UMC-400 – 43
    - UMC-400SS - 18



# UMC Spindle Head



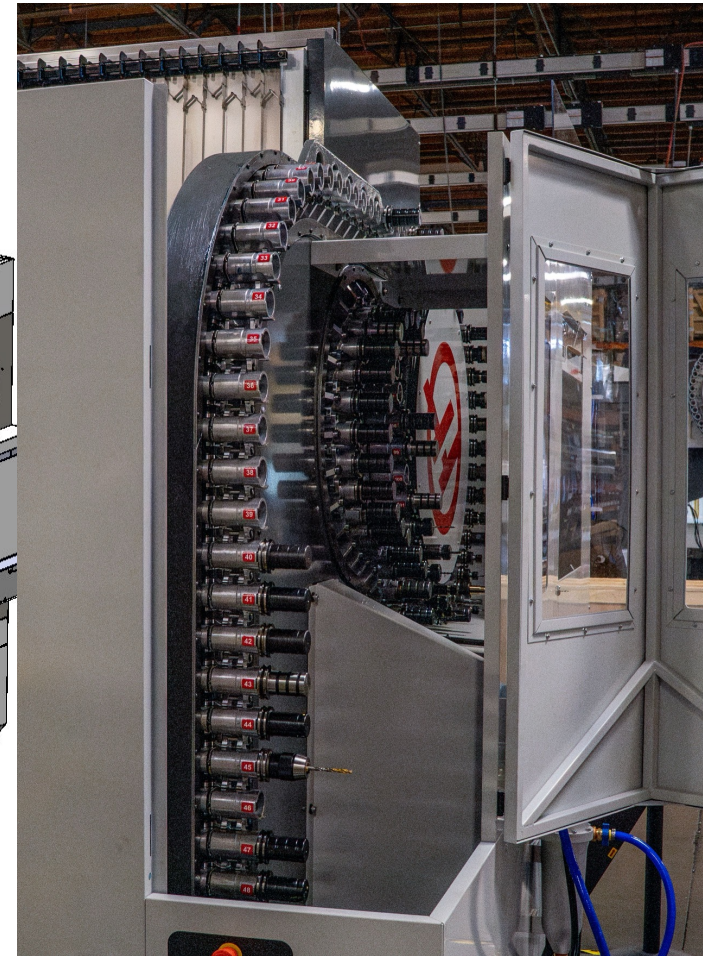
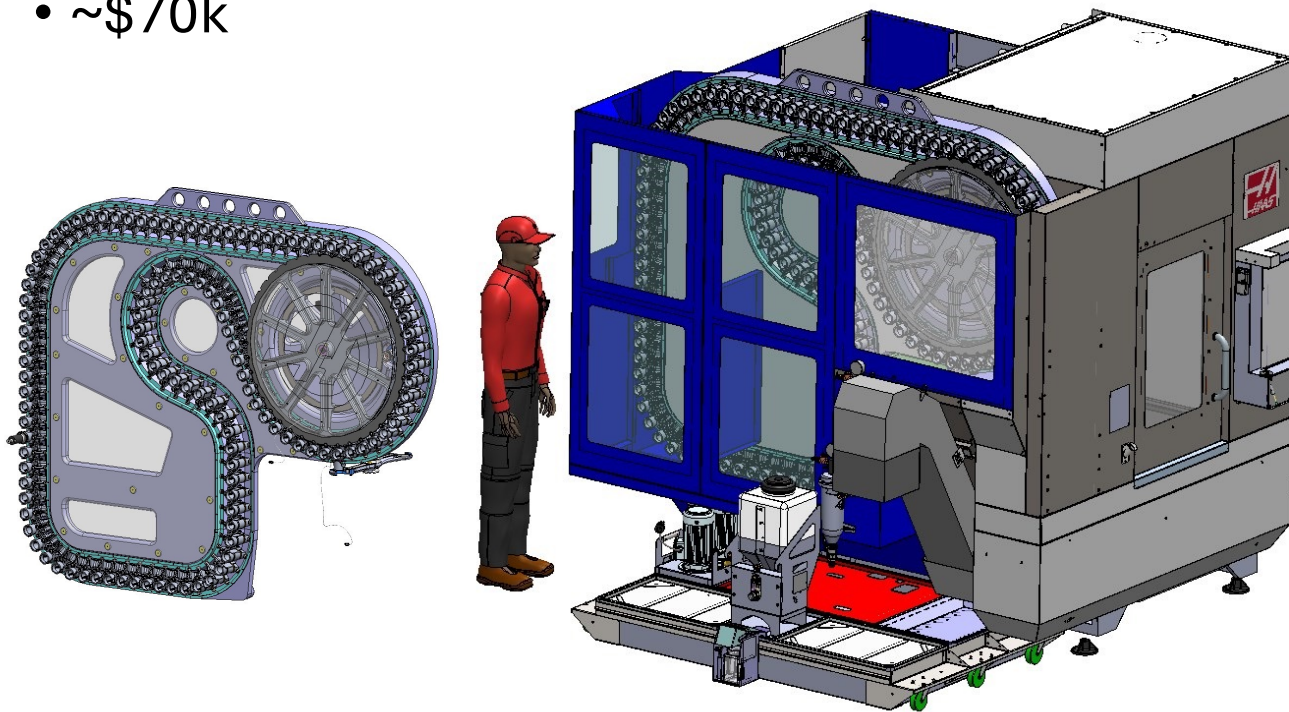
- Exposed cast iron spindle head
- No sheet metal
- Access cover to internal components
- Spindle removed out the bottom
  
- Released on:
  - UMC-1250/50
  
- Will be expanded to:
  - UMC-400
  - UMC-500
  - UMC-750/1000
  - UMC-1250/1500



# 120 Pocket SMTC for UMCs



- July 1, release for sale
- Q3-2025 deliveries
- ~\$70k

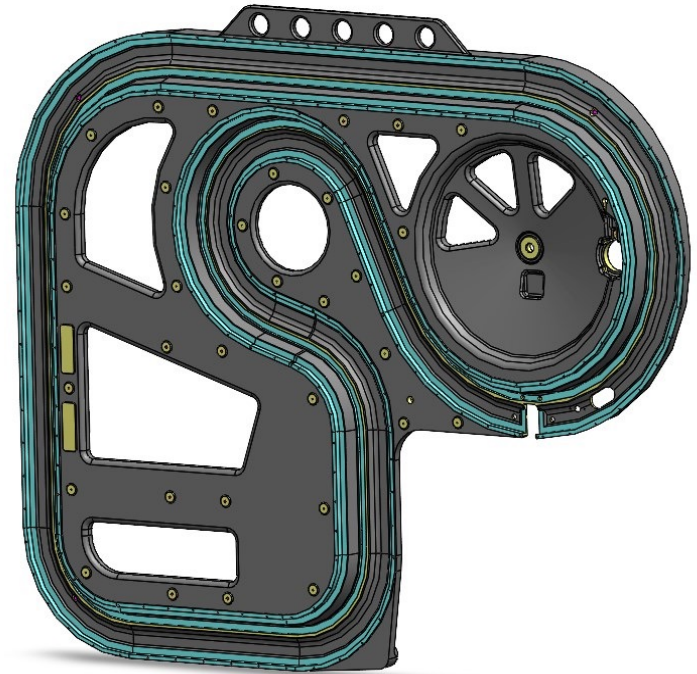




# 120 Pocket SMTC



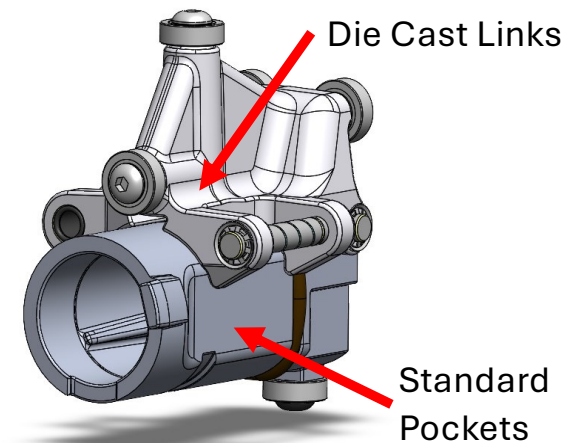
- 120+1 tools – BT, CT, HSK63A
- 4.5 sec tool-to-tool
- 16 sec pocket 1 to pocket 60
- 2.5" tool dia adjacent pockets full
- 5" max tool dia “large tool”
- 12" max tool length
- 12 lb max tool weight
- Servo drive, bi-directional
- 2000 lb unloaded
- 3440 lb max loaded
- Broken Tool Detection compatible



# 120 Pocket SMTC

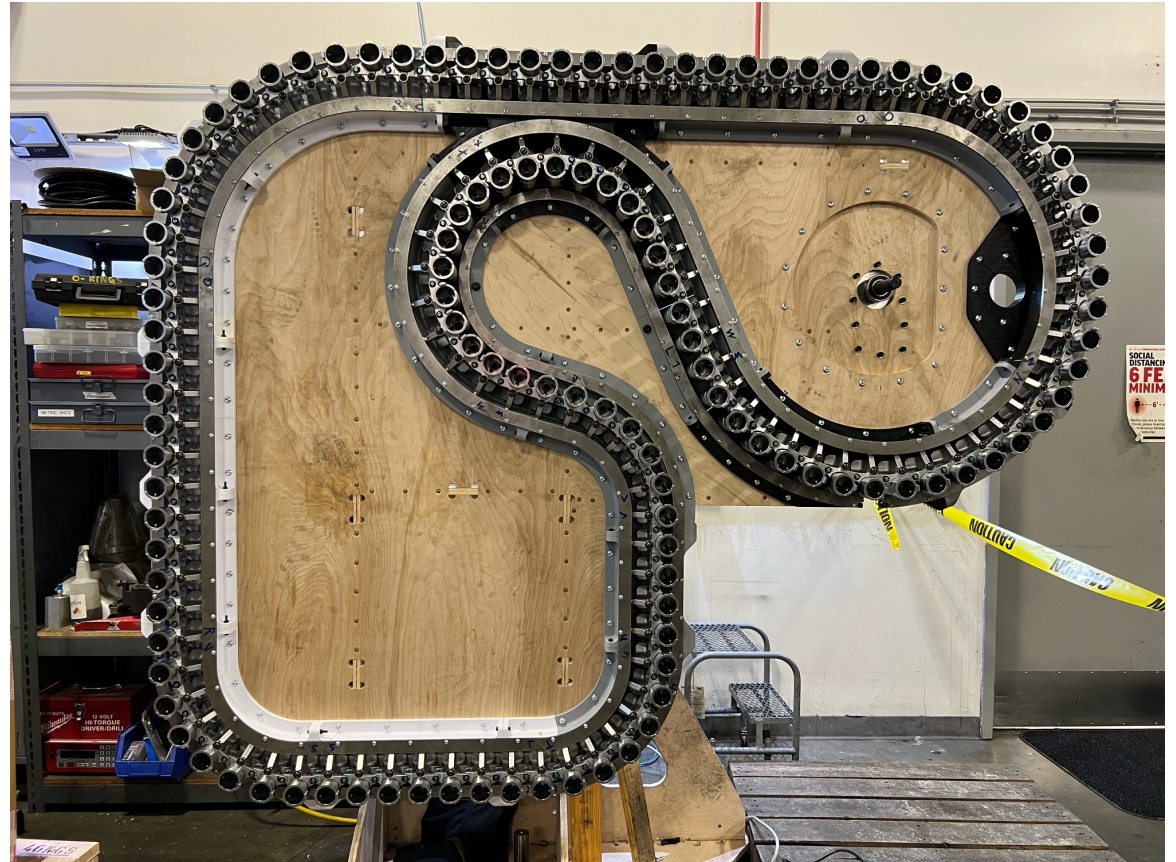
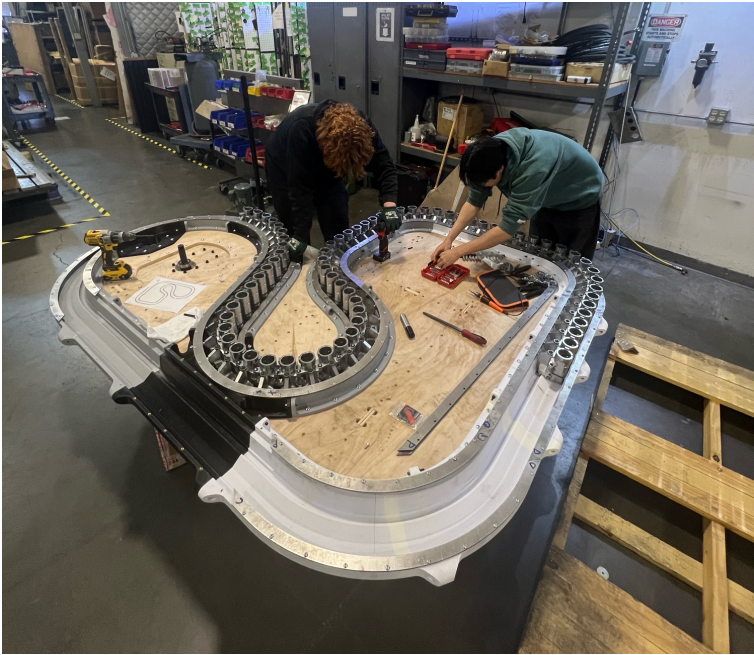


- Mounts to Bridge and Base
- 120 SMTC is balanced on the mount
  - Tool change does not twist the bridge
- Extensive use of existing parts:
  - Pocket
  - Cambox & Double Arm
  - TT drive system (shared with 70 pocket)
  - Tool Tip Mechanism
  - Software (configured just like a carousel)
- Non-Tensioned, reduces wear on components
- The act of tipping the pocket centers and positions precisely
- All this allows for compliance, minimal wear, increased reliability, decreased service instances, and lower entry cost



70-pocket drive system

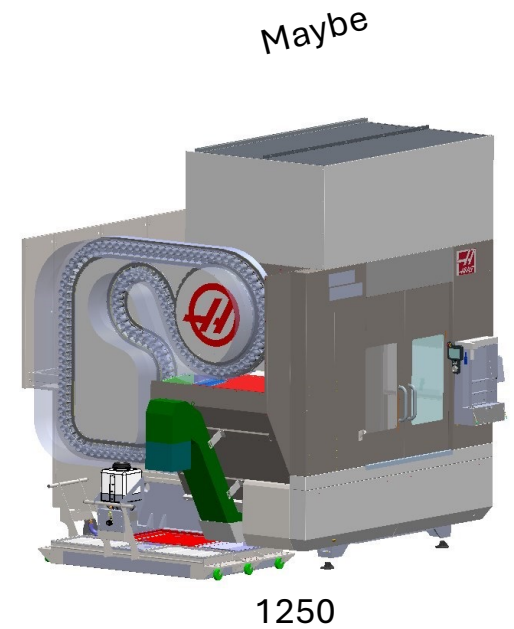
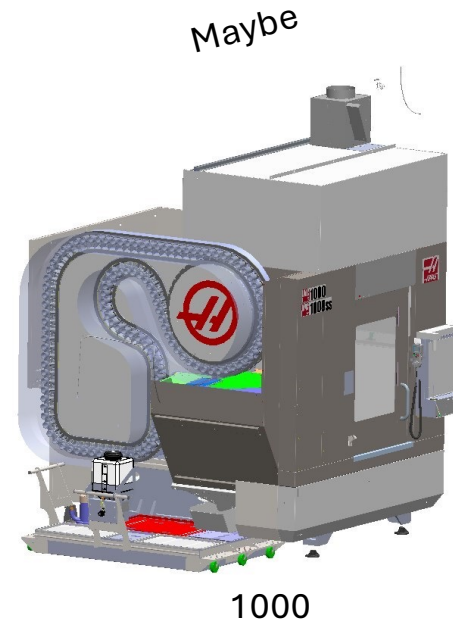
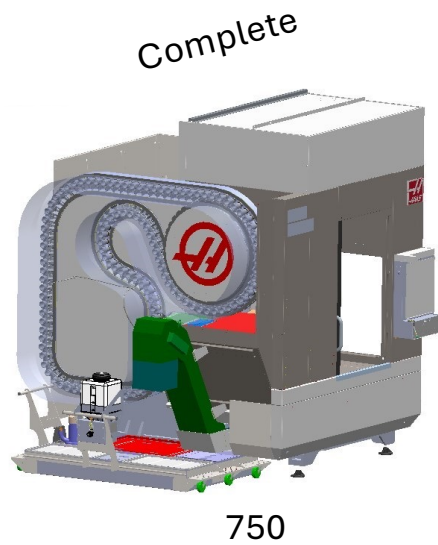
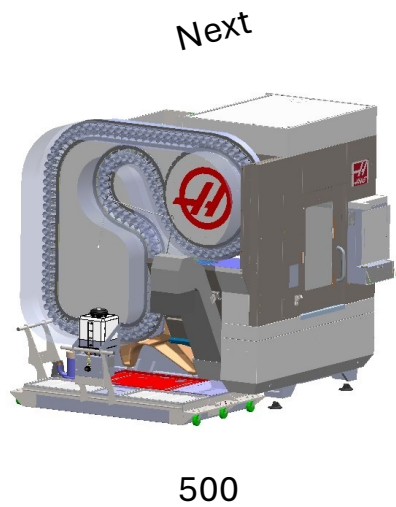
# 120 Pocket SMTC for UMCs



# Billet Trolley for Prove Out

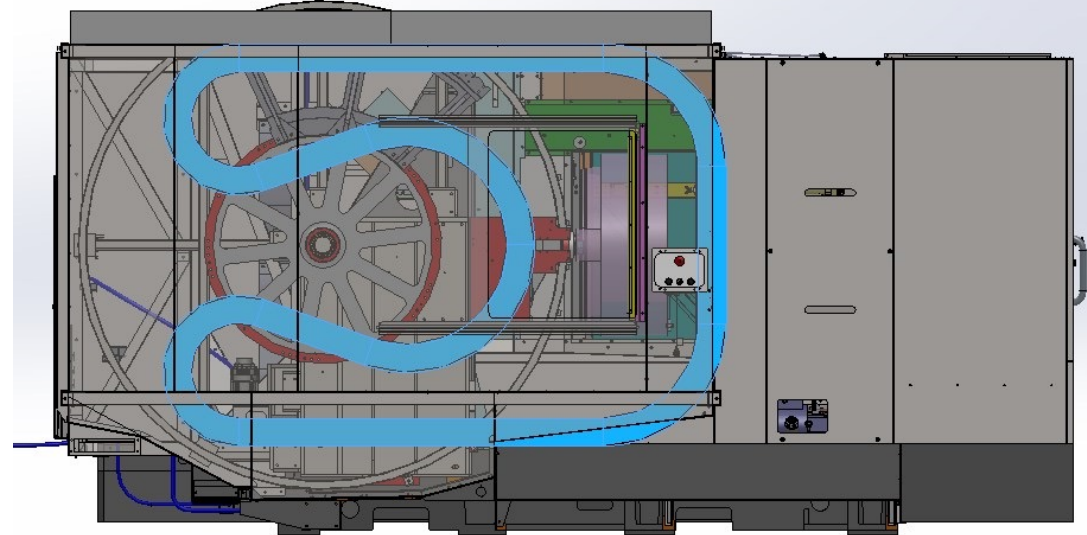
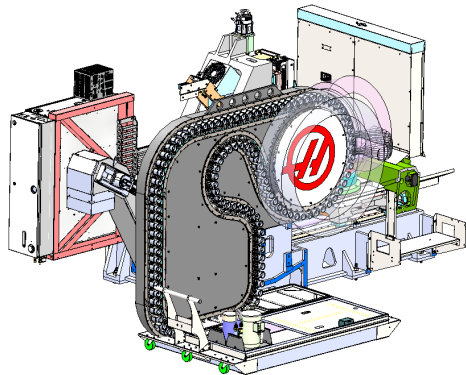
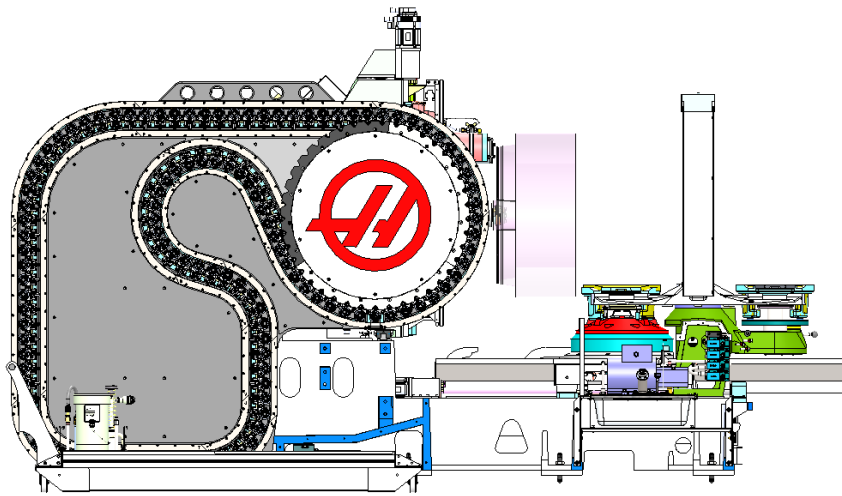


# Future Machines for SMTC120



VF-3 / VF-4 / EC-400 / EC-500

# EC-400 and EC-500



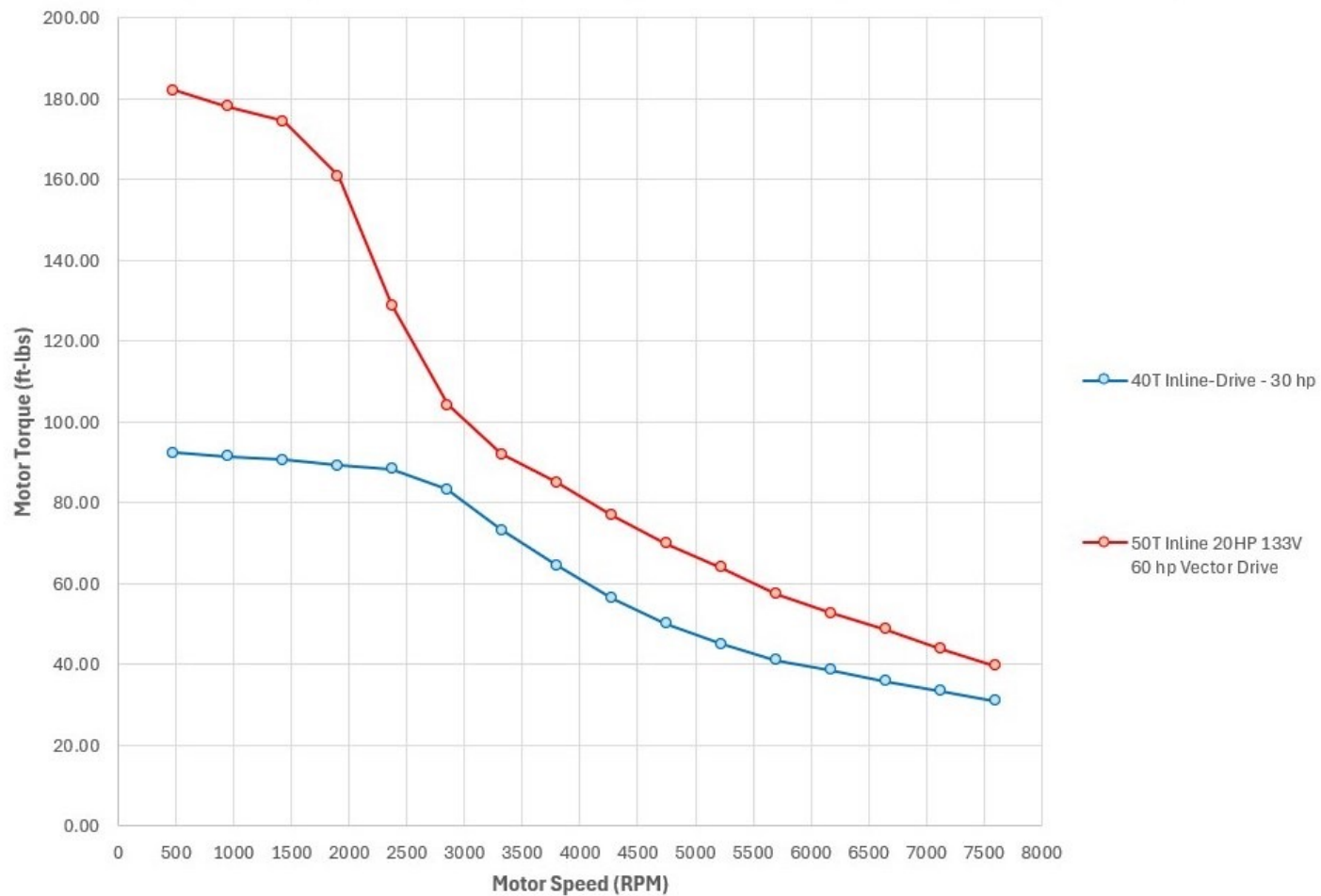
# UMC-1250/50



- 50T version of UMC built on UMC-1250 frame
- Haas Inline 50T spindle
- July 1 release globally
- Q3-2025 deliveries
- \$339,995



# UMC-1250/50 Torque Chart

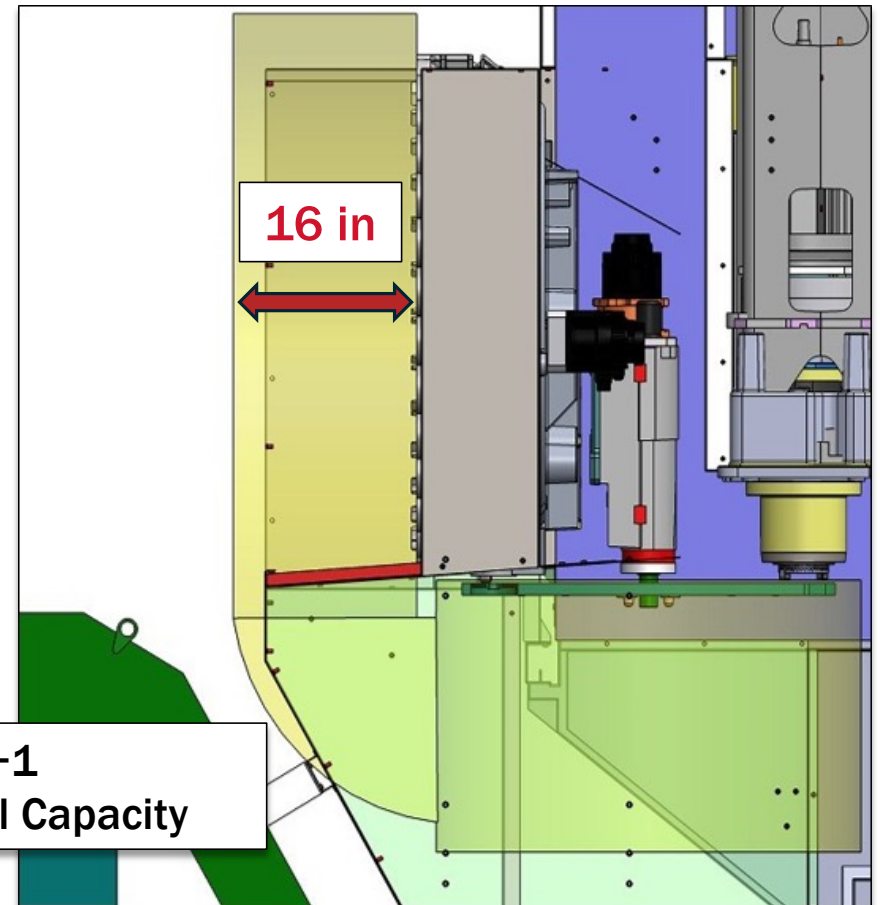


# UMC-1250/50



- Increased tool diameter and length vs UMC-1250 (40T)

Machine	Tool Diameter (in )	Max Tool Length (in)
VF-3YT/50	7	16
VF-6/50	10	16
EC-1600	10	20
UMC-1250/40	5	12
<b>UMC-1250/50</b>	<b>7</b>	<b>16</b>



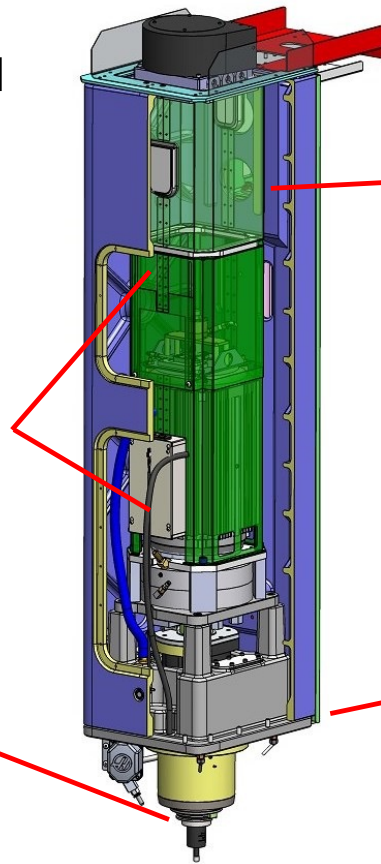
# UMC-1250/50 Spindle Head



Optimized cast structure for reduced mass & increased rigidity

Upper & lower front access covers for improved serviceability of TSC lines, lube lines, flood coolant line, wiring, spindle encoder, spindle balance, TRP hoses and prox switch

Remove spindle mount to service spindle, spindle motor, and TRP



Telescoping internal ducting allows for ease of serviceability

7.5K RPM standard  
10K RPM optional

Coolant jacket from the original 40T UMC-1250 for additional heat dissipation

# Horizontals

# EC-1600ZT Pallet Pool



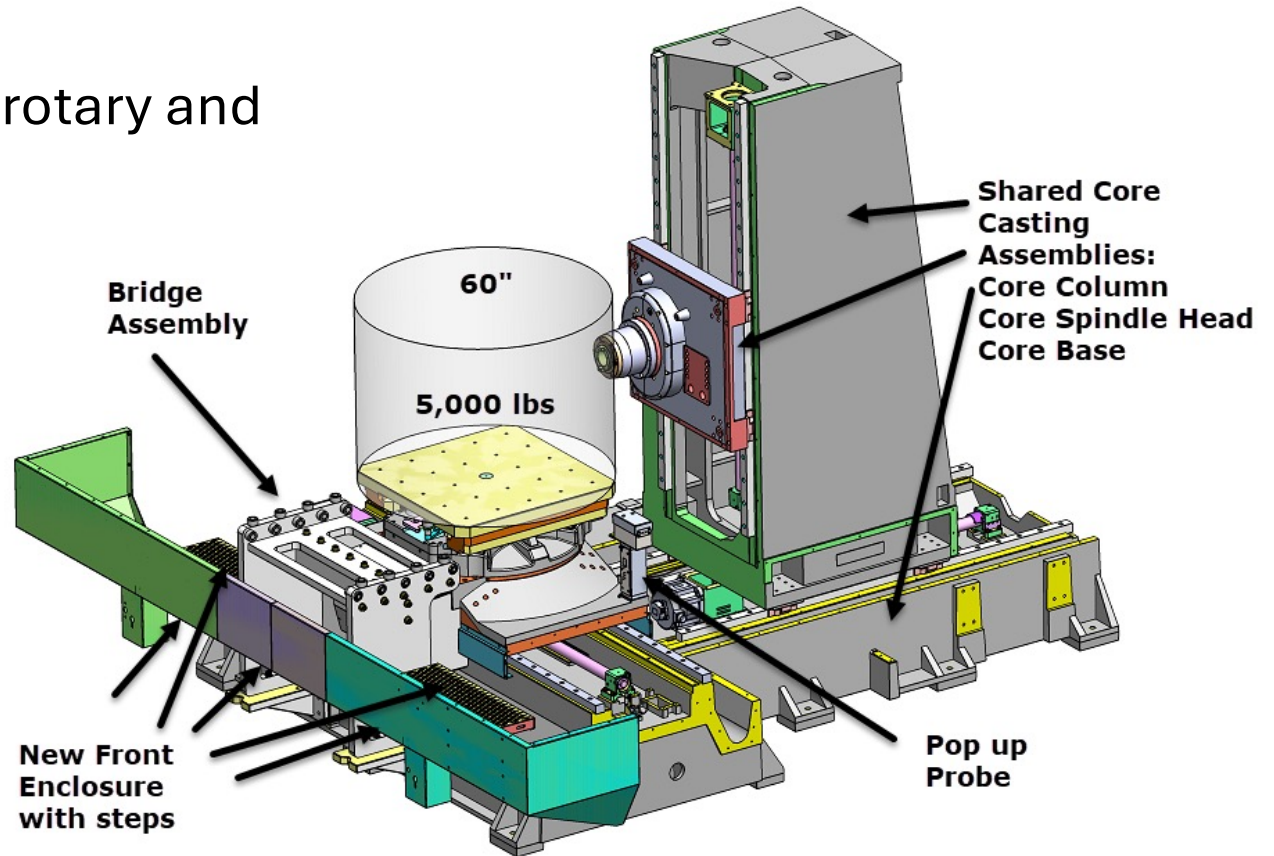
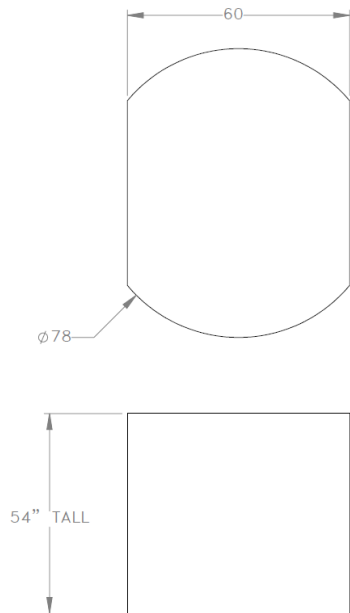
- 5 pallets
- Available only for EC-1600ZT
- July 1 release globally
- \$249,995
- Q3-2025 deliveries



# EC-1600ZT Pallet Pool



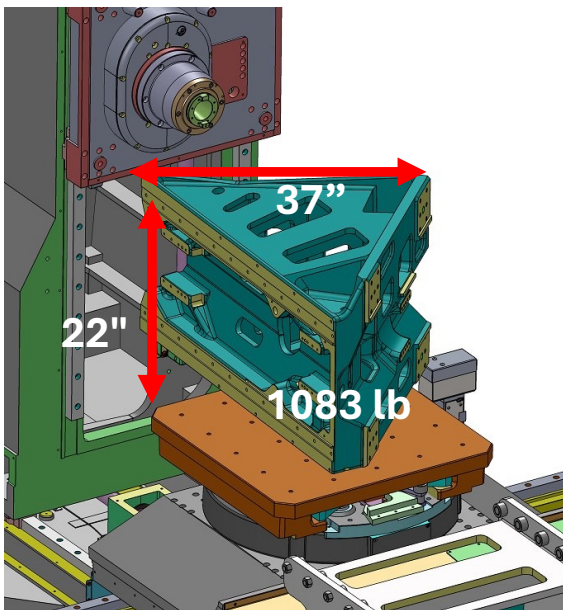
- 5,000 lb pallet capacity
- Combination of EC-1600 rotary and EC-400 pallet clamping



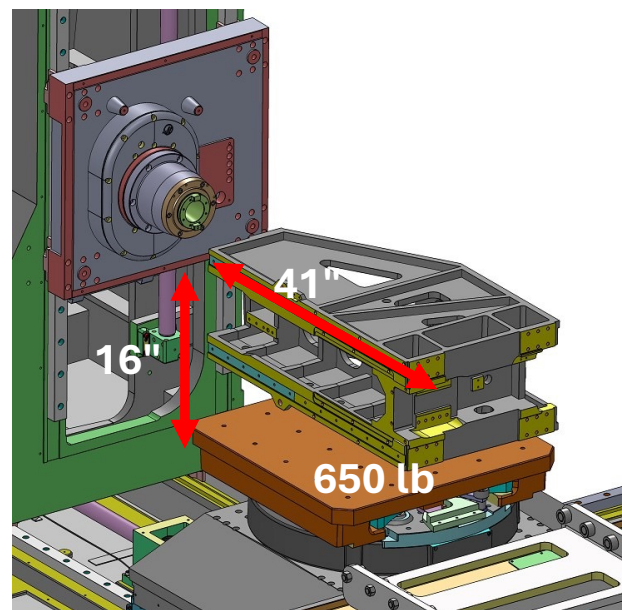
# EC-1600ZT Pallet Pool



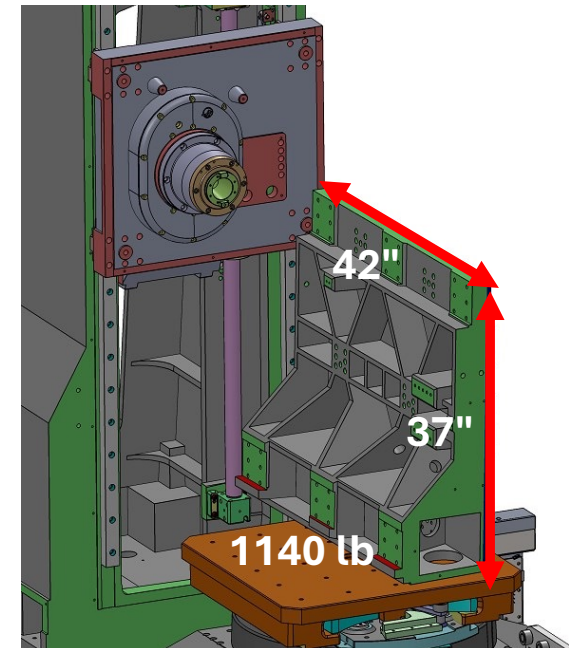
- Potential parts to be machined on EC-1600ZT Pallet Pool (currently made on BMC-1000)



- **ST-40Y/45Y Wedge**
  - 37" Width
  - 22" Height
  - 1083 lb (not including fixture/pallet)



- **UMC-500 Ram**
  - 41" Width
  - 16" Height
  - 650 lb (not including fixture/pallet)

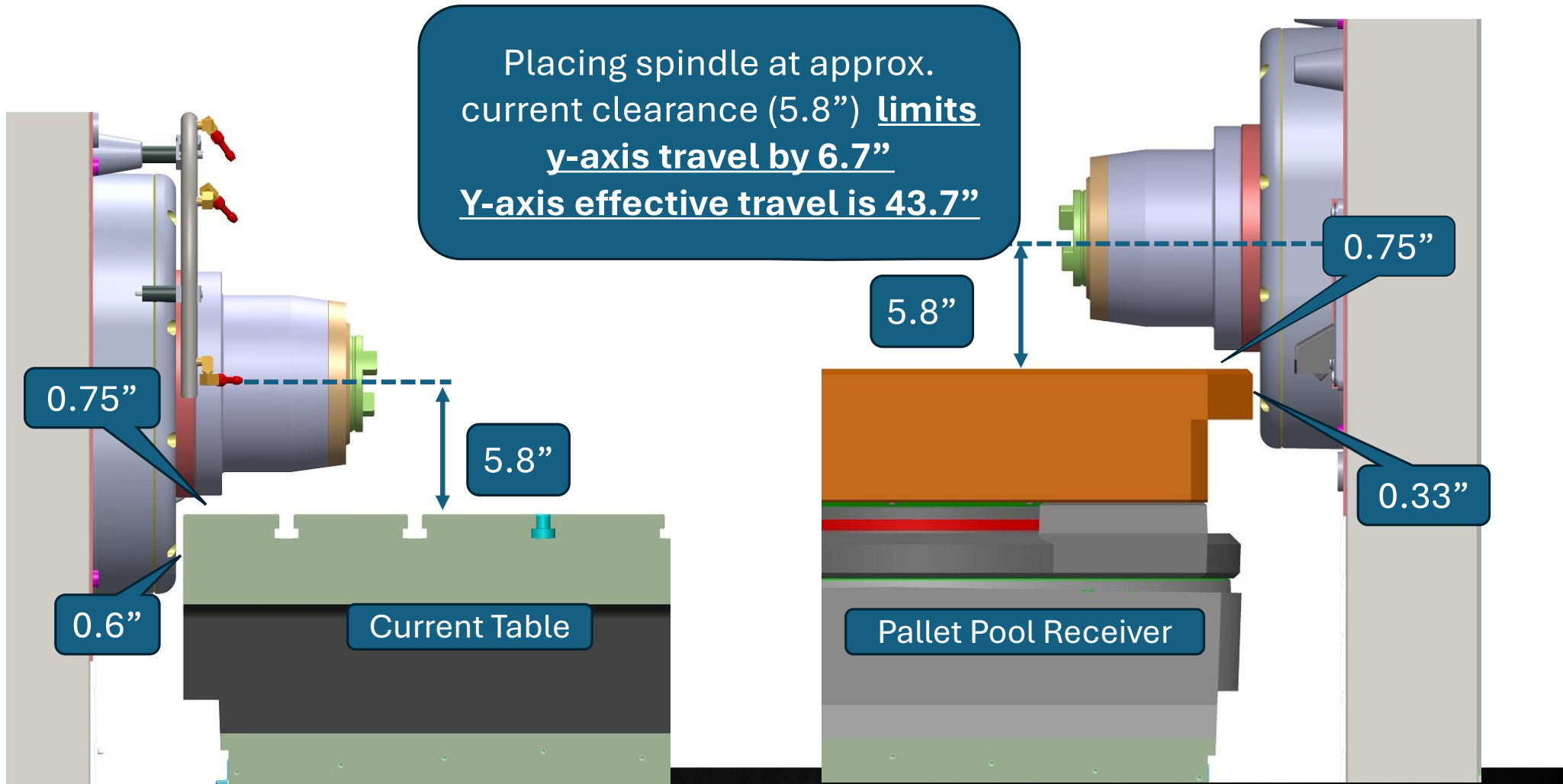


- **HDC Spindle Head**
  - 41" Width
  - 16" Height
  - 650 lb (not including fixture/ pallet)

# EC-1600ZT Pallet Pool



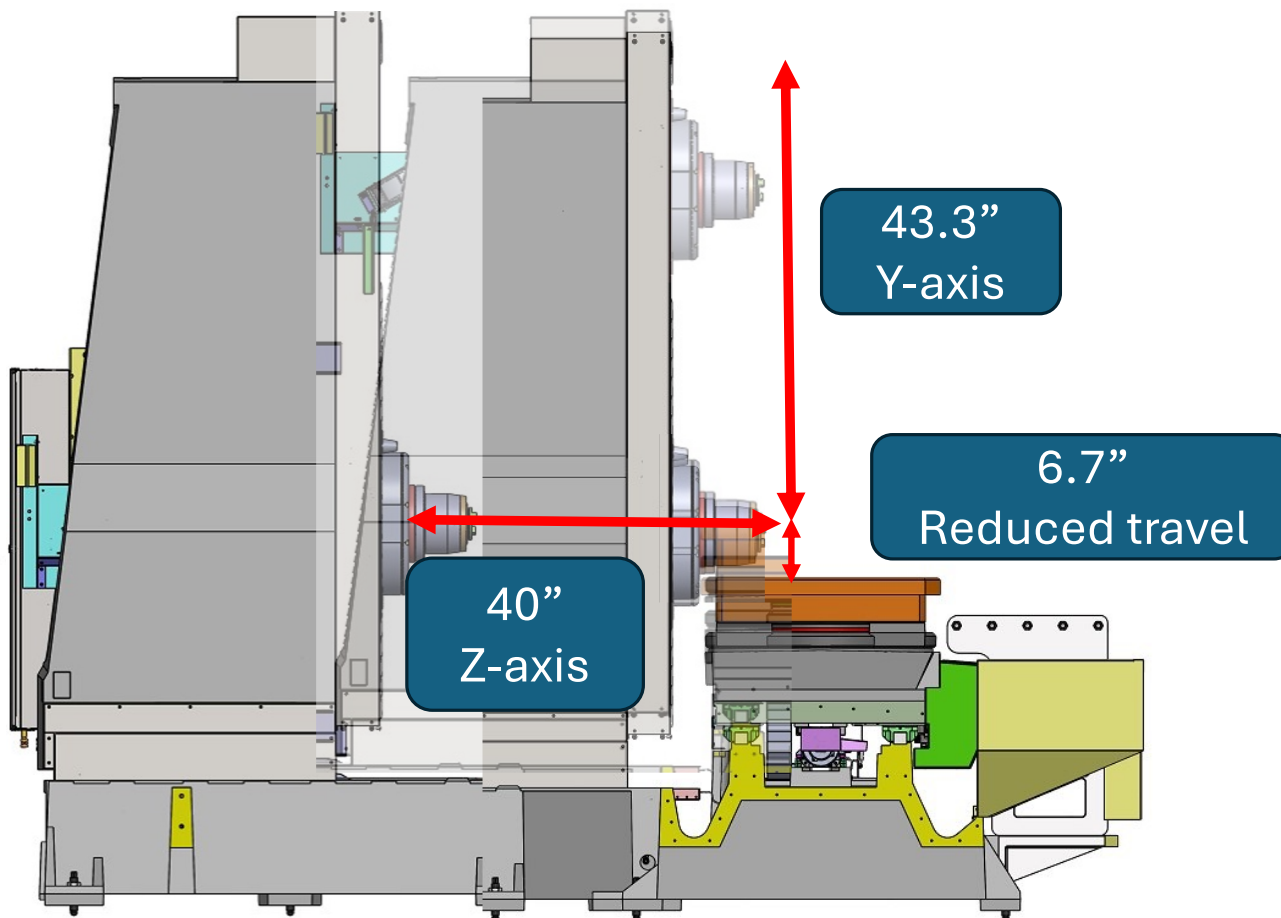
Placing spindle at approx. current clearance (5.8") limits y-axis travel by 6.7"  
Y-axis effective travel is 43.7"



# EC-1600ZT Pallet Pool



Haas  
F1 Team

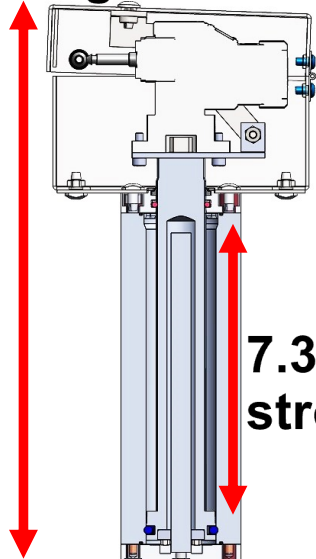


# EC-1600ZT Pallet Pool



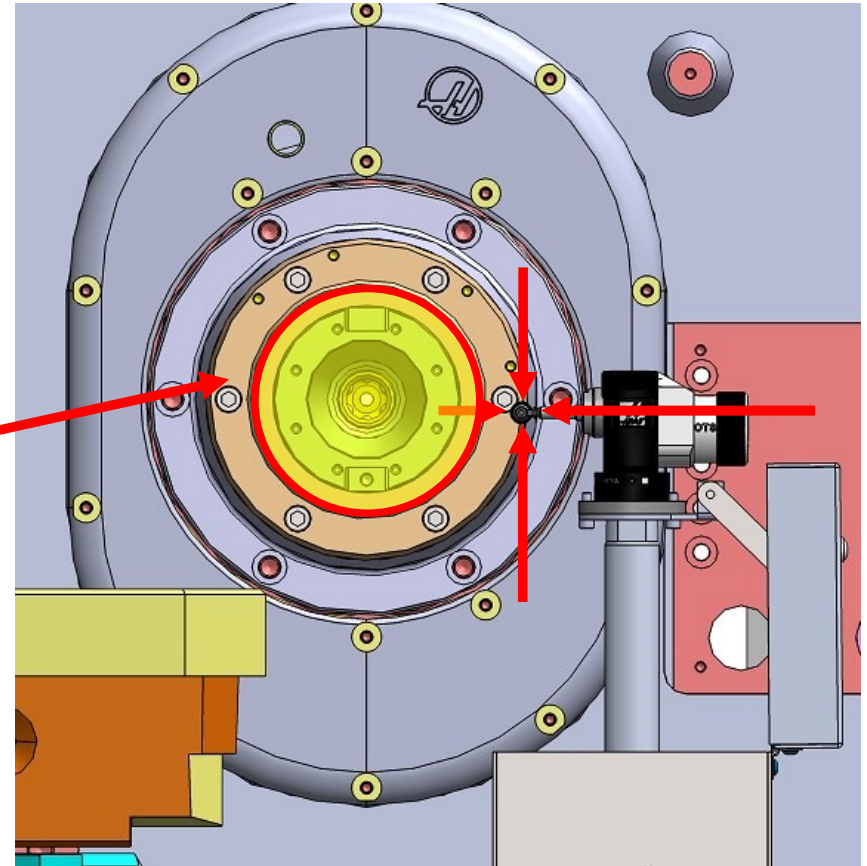
- Tool probe will be same as EC-400, all same components
- Clearance to probe in all directions

**14" closed length**



**7.33" stroke**

Will have room to probe up to 5" dia. tool



# EC-1600ZT Pallet Pool



Haas  
F1 Team



# EC-1600ZT Pallet Pool

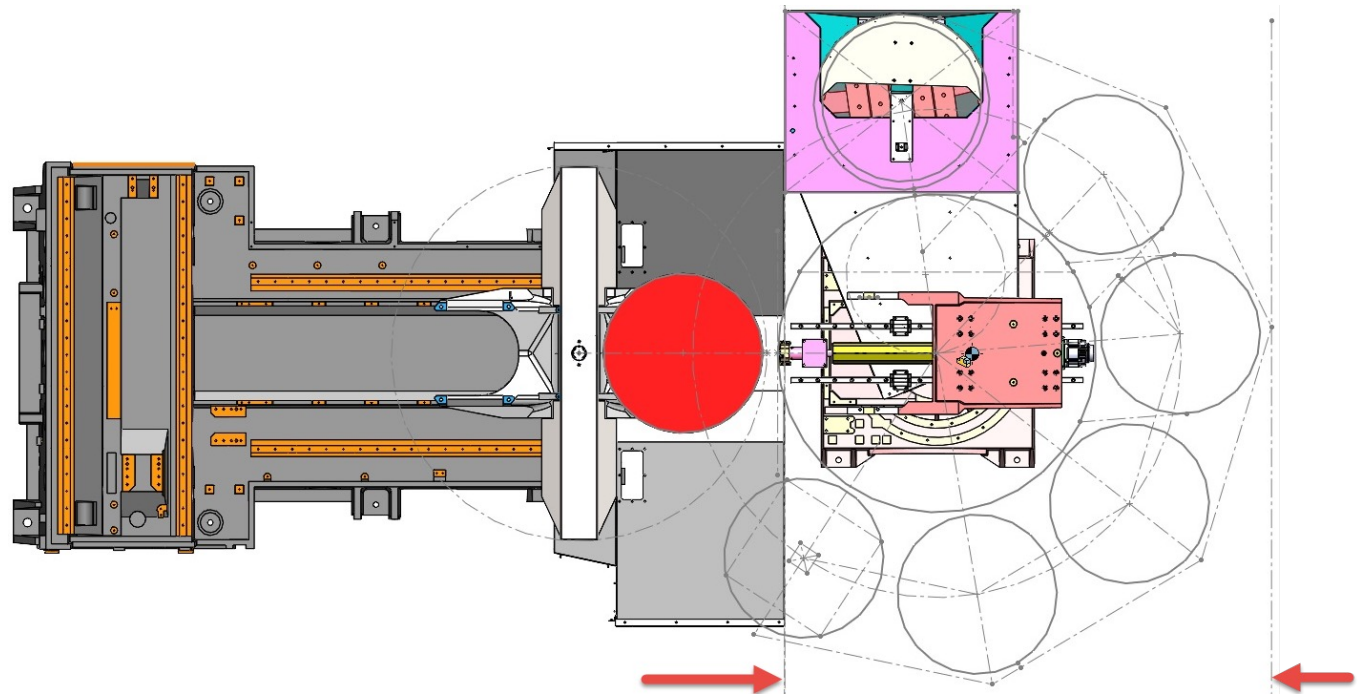




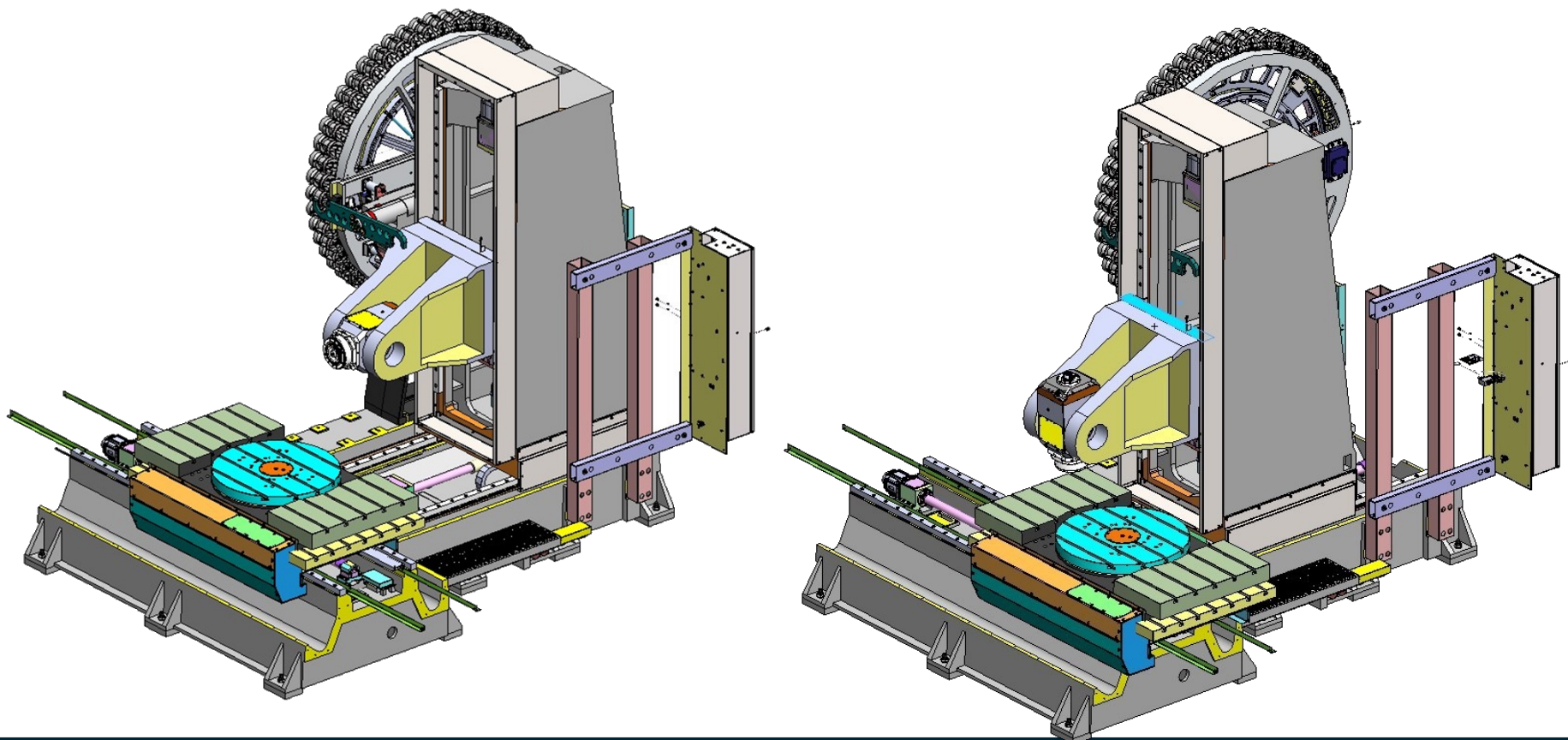
# EC-500 Pallet Pool



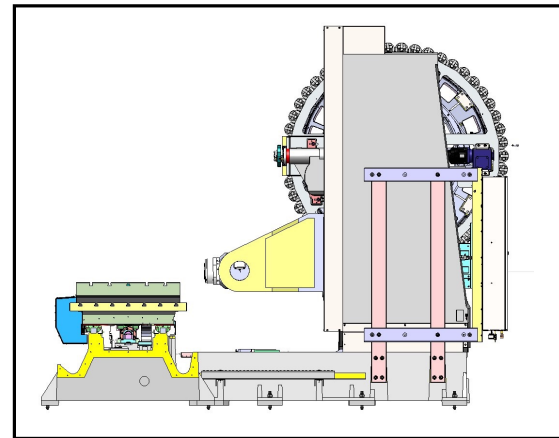
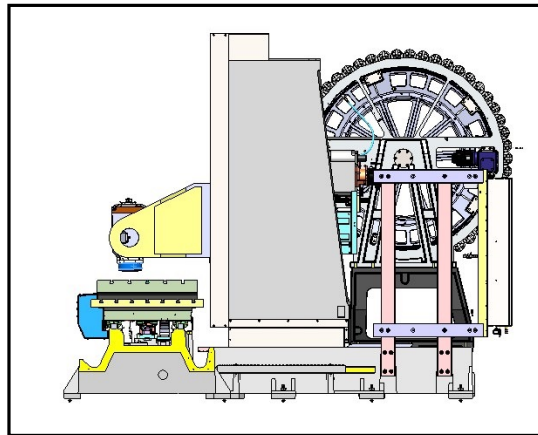
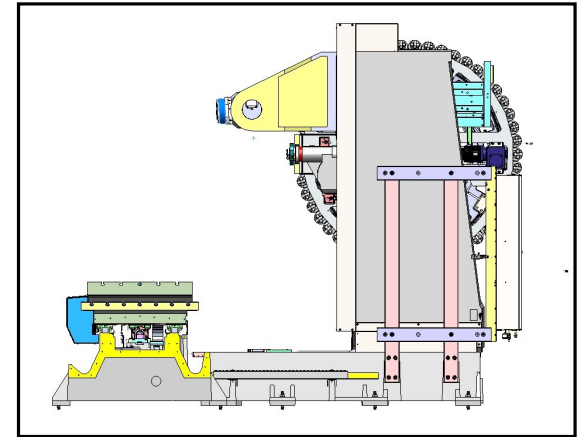
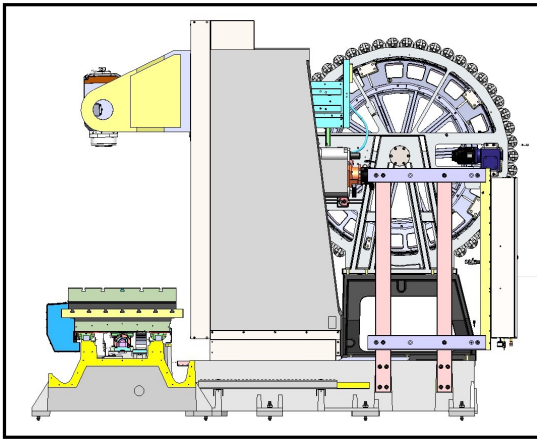
- EC-500 6+1 Pallet Pool
- Fits in a container
- 29" Part Swing
  - EC-400 is 22" Part Swing
- Use load station from UMC-1250
- Use existing base casting
- New saddle and trolley castings
- Q1-2025 est



# EC-1600ZT-??



# EC-1600ZT-??



# Lathes

# TL Production Models



- TL-1P and TL-2P
  - Production version of the Toolroom Lathes
  - Includes:
    - 3000-rpm A2-5 spindle
    - 4-station automatic tool turret
    - **New** 6.5" chuck with hydraulic closer and HPU
  - Sales
    - TL-1P - 10
    - TL-2P - 7



# ST-40 Y-Axis



- ST-40s with Y-axis
  - BMT75 live tooling and  $\pm 3''$  (76mm) Y-axis travel
- Sales
  - ST-40Y – 22
  - ST-45Y – 13
  - ST-40SY – 10
  - ST-45SY – 1
  - ST-45LY – 1



# ST-40 Short Beds



- ST-40 with a short bed
  - Short Z-axis travel ST-40s for smaller footprint
    - 11% smaller than standard ST-40s
    - 30% smaller than long-bed ST-40s
      - 28" (711mm) Z-axis travel
  - Sales
    - ST-40S – 12
    - ST-40SY – 10
    - ST-45S – 2
    - ST-45SY – 1



❖ Large lathes (ST-40s) have increased from 4% of all ST sales in 2023 to 6% of all ST sales in 2025

# Direct Feedback



*I'm frequently running into the DN Lynx 2100 SY (Sub) with Y-axis and full C-axis on Sub.*

*This is equivalent to the Haas ST-20Y-S but with the Finishing Sub and no C-axis on Sub.*

*The DN sales staff seems to lead with this machine at Haas shops, as they know we have no competitive model. And they push the full C-axis on the Sub ... and it becomes the deciding factor to rule Haas out.*

*It forces us to quote a much larger DS-30Y and is about \$ 50k to \$ 60k more and bigger footprint and lower RPM.*

*And existing Haas customers want (and ask for) other Y-axis models with full C-axis on the Sub ... every model on the ST-line up. They seem frustrated or "disenchanted" that Haas only has 1 model with full C-axis on Sub ... and sends them wondering to other brands.*

*Jeff ... can you ask Gasish / Haas if they can look at adapting the existing C-axis Sub on the DS-30Y on to the other ST models?*

*If it does not fit ... can they make it fit?*

*Ideally their would be: DS-20Y, DS-25Y, DS-28Y, DS-30Y, DS-35Y ... this would dramatically help keep the competition out and sell more machines.*

# DS-20Y Proposal

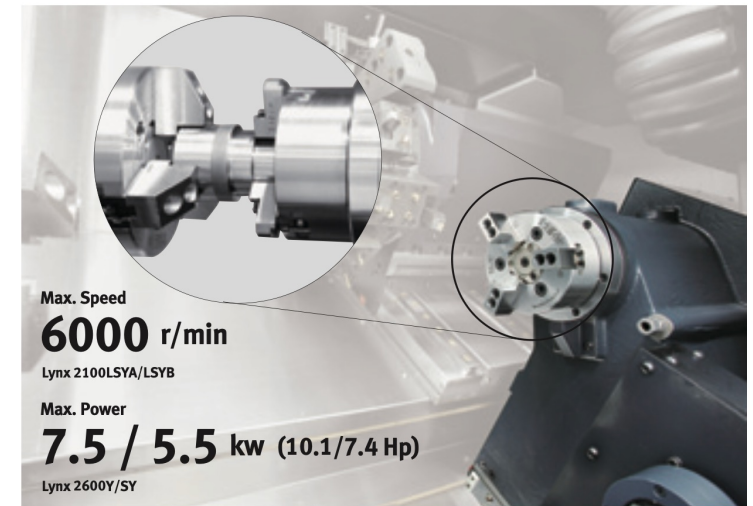


- Offer the DS-30Y second spindle on the ST-20Y frame size
- Competitors, mainly Doosan, offer a full C-axis on the second spindle/sub-spindle
- Haas offers full C-axis control of second spindle of DS-30Y, but size and price is not competitive w/ Doosan's Lynx 2100 series
  - Lynx 2100 = ST-15/20



## Sub-spindle

The sub-spindle function enables rear-side cutting by a single setup, thereby maximizing the user's productivity and efficiency. Full C axis 0.001 degree control is included to optimize capability.



Max. Speed

**6000** r/min

Lynx 2100LSYA/LSYB

Max. Power

**7.5 / 5.5** kw (10.1/7.4 Hp)

Lynx 2600Y/SY

Models	Standard chuck size	Spindle speed r/min	Max.power (15min/cont.) kW (Hp)	Max torque N-m (ft-lbs)
Lynx 2100LSYA/LSYB	5 inch	6000	5.5/3.7 (7.4 / 5.0) (15min/Cont.)	47 (34.7)
Lynx 2600Y/SY	6 inch	4500	7.5/5.5/5.5 (S6 25%/S6 40%/Cont.)	84 (62.0)

# Sub-Spindle Sales

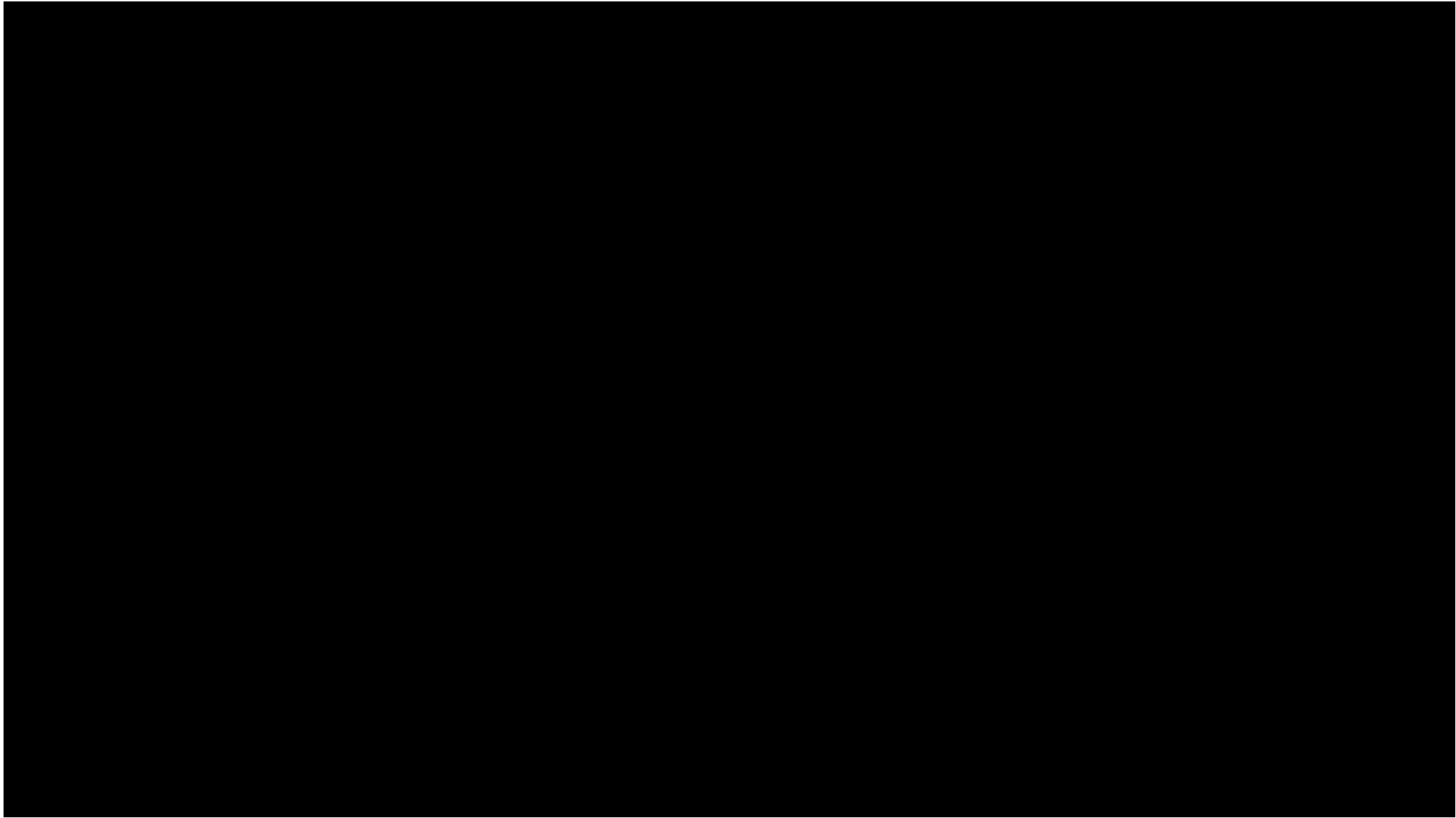


- Growth opportunity in ‘Sub Spdl’ market segment
- Doosan sells more DS-20Y equivalent Lynx 2100 than DS-30Y equivalent, Lynx 2600
- Potential for 100+ more DS-20Y sales per year

Doosan	# Sold	Haas Eqv
LYNX-2100-SYA/B	350	ST-20Y
LYNX-2600-SY	66	DS-30Y
DS-30Y	271	

USMTO Code	USMTO Dedscription	Haas Machines	USMTC	HFO	MS
3541.726	VMC, Y 20" TO 26"	VF-3/4/5	8,639	4,121	48%
3541.725	VMC, Y > 15" < 20"	VF-1/2, MM2, DM, TM1/2'S,	5,058	3,445	68%
3541.561	LATHES, A2-6 W/O Y-AXIS	ST-10/15/20/25/28/30	4,513	1,453	32%
3541.701	VMC, LESS THAN 40T/HSK-A63	DT/CM	2,447	336	14%
3541.727	VMC, Y > 26" TO < 42"	VF-6+	2,435	1,100	45%
3541.571	LATHES, A2-6 OR LESS W/ SUB SPDL	DS-30Y	2,211	377	17%
3541.745	VMC, 5-AXIS, 401MM - 630MM	UMC-750/1000/1500	2,142	671	31%
3541.563	LATHES, A2-8, W/O Y-AXIS	ST-28/35/40 + L'S	1,816	294	16%
3541.562	LATHES, A2-6 W/ Y-AXIS	ST-10Y/15Y/20Y/25Y/30Y	1,705	1,186	70%
3541.744	VMC, 5-AXIS, 201MM - 400MM	UMC-500	1,524	785	52%
3541.752	HMC, 400MM PALLET OR LESS	EC-400	1,296	116	9%
3541.723	VMC, Y 15" OR LESS	MM'S, TM-0'S, VMT-750	1,257	1,099	87%
3541.564	LATHES, A2-8 W/ Y-AXIS	ST-28Y/35Y/40Y + L'S	1,146	304	27%
3541.525	LATHES, TOOL ROOM LATHE	TL'S	1,080	861	80%
3541.753	HMC, 401MM TO 500MM PALLET	EC-500'S	1,074	25	2%
3541.565	LATHES A2-11 W/O Y-AXIS	ST-45/45L	973	54	6%
3541.746	VMC, 5-AXIS, 631MM - 1500MM	UMC-1250, UMC-1250SS	687	99	14%
3541.754	HMC, 501MM TO 630MM PALLET	EC-630	589	9	2%
3541.728	VMC, Y > 42"	GR/GM/VS	524	187	36%
3541.755	HMC, 631MM TO 800MM PALLET	EC-1600'S	369	95	26%
3541.747	VMC, 5-AXIS, > 1500MM	VR, GM-2-5AX	247	81	33%
3541.554	LATHES, A2-20	ST-55	197	8	4%
3541.765	HMC, 5-AXIS, 631MM TO 800MM	UMC1600H, EC-1600-5X	150	4	3%

	2022	2023	2024	2025
DS as % of ST-10 to ST-30 Sales	7.69%	9.81%	9.79%	10.39%
DS-30Y Sales / Year	142	158	183	67



# DS Model Line Up



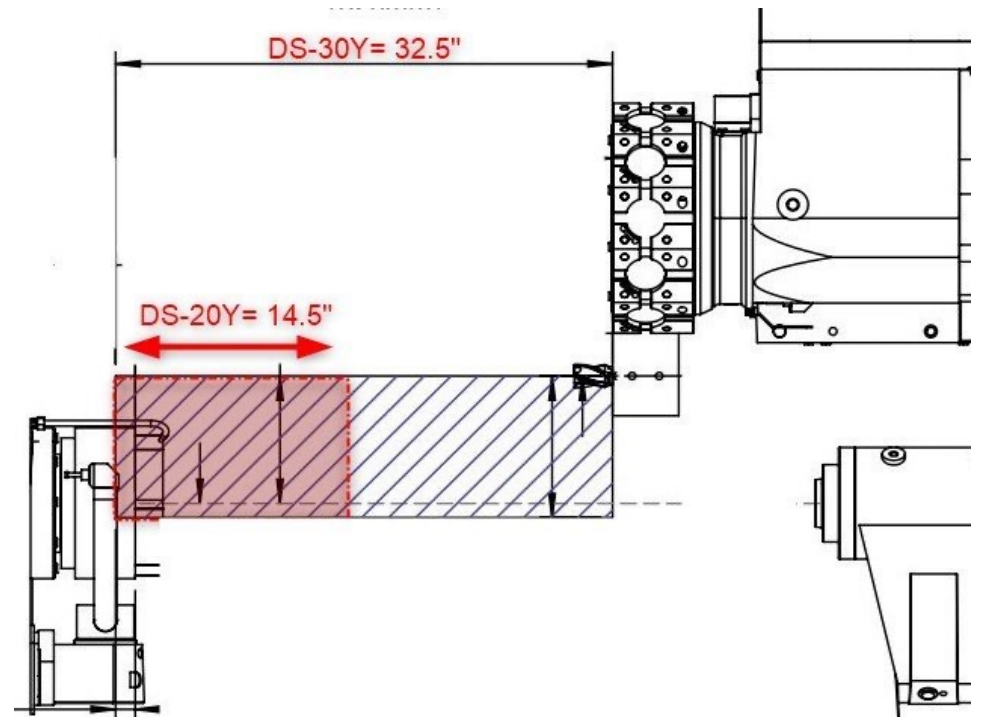
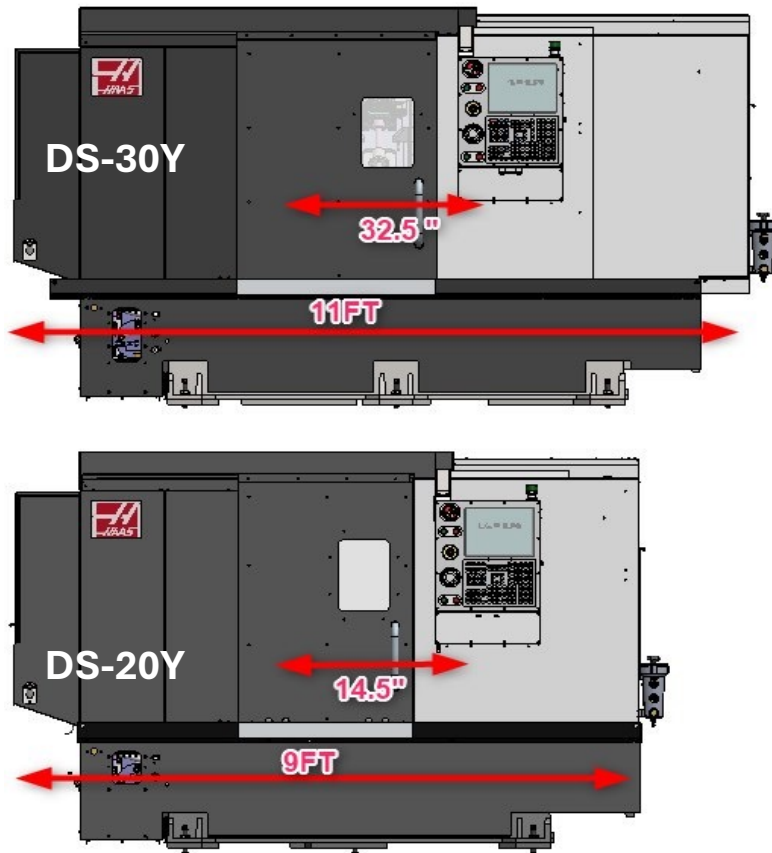
- Expand DS sub spindle across the ST-20 and ST-30 frame size
- \$47,000 for DS to base price

Model	Price
ST-30Y	\$ 127,995.00
DS-30Y	\$ 174,995.00
ST-20Y	\$ 108,995.00
DS-20Y	\$ 155,995.00
ST-25Y	\$ 120,995.00
DS-25Y	\$ 167,995.00
ST-28Y	\$ 127,995.00
DS-28Y	\$ 174,995.00
ST-35Y	\$ 143,995.00
DS-35Y	\$ 190,995.00

If demand is there

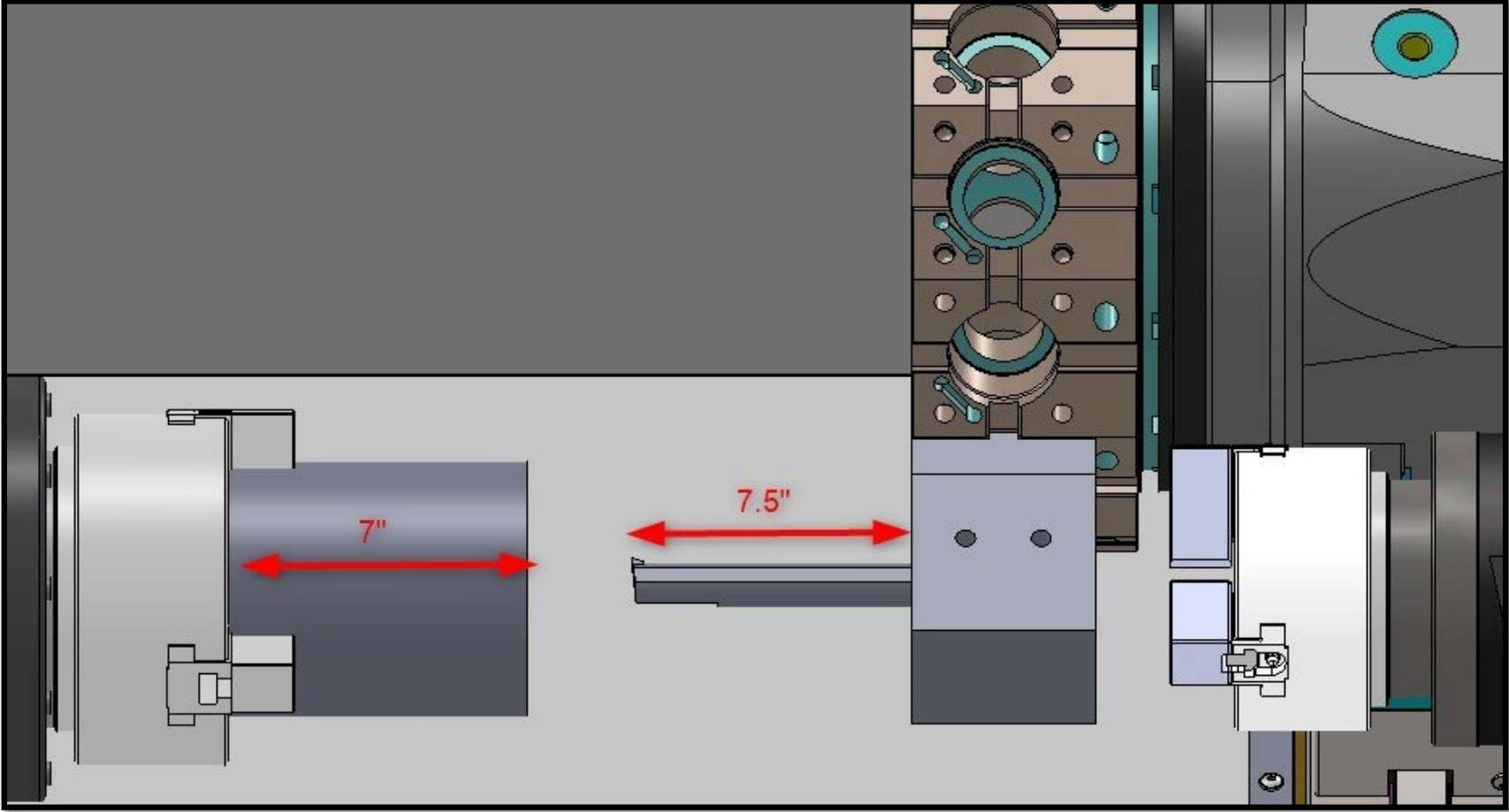
If demand is there

# DS-20Y vs DS-30Y

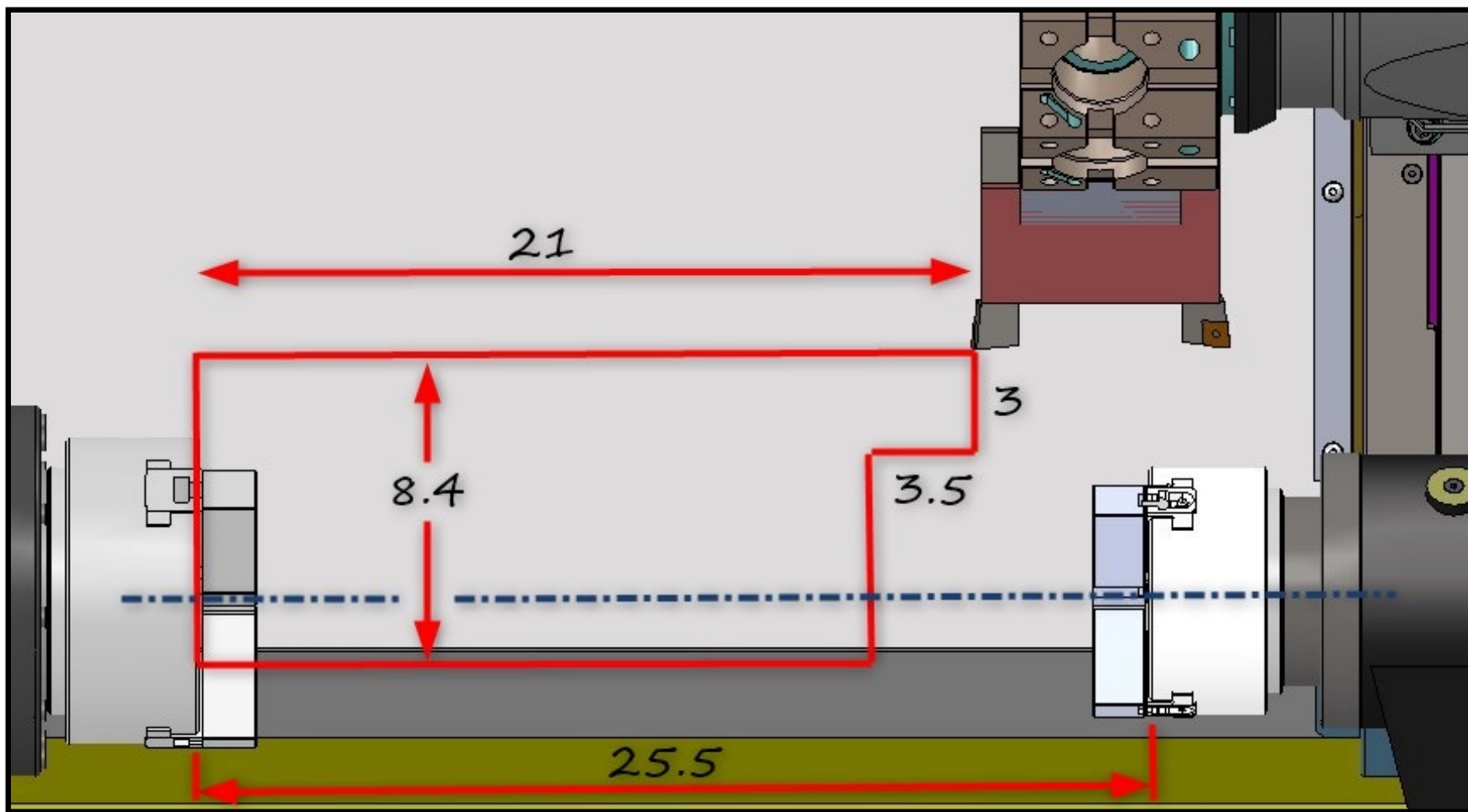


- DS-30Y 6" Chuck Sub-Spindle
- Current ST-20 Sub-Spindle is 5" Chuck
- Minor Enclosure Changes

# DS-20Y



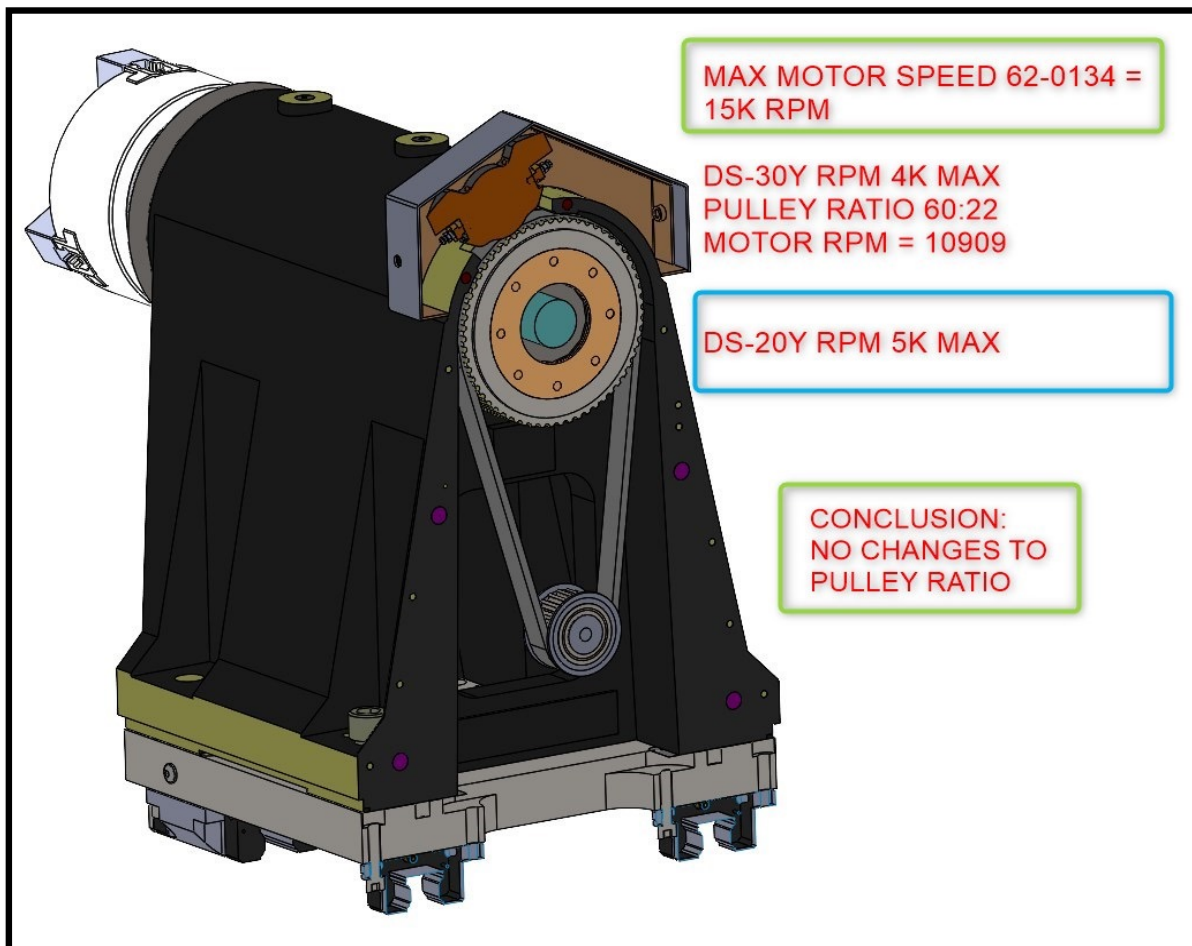
# DS-20Y



# DS-20Y

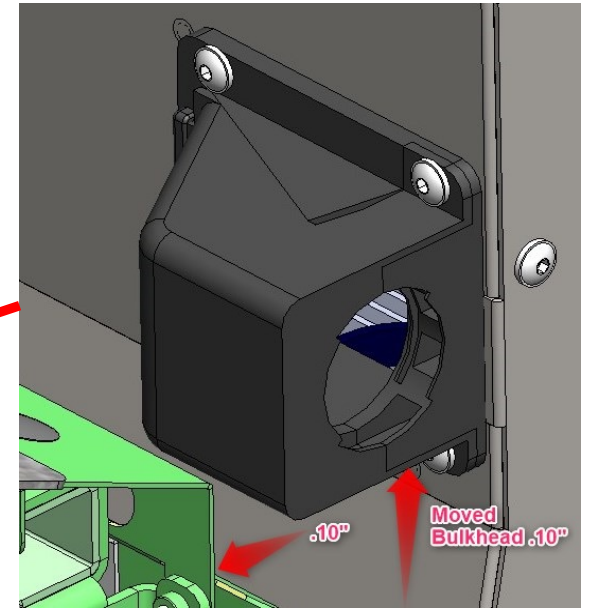
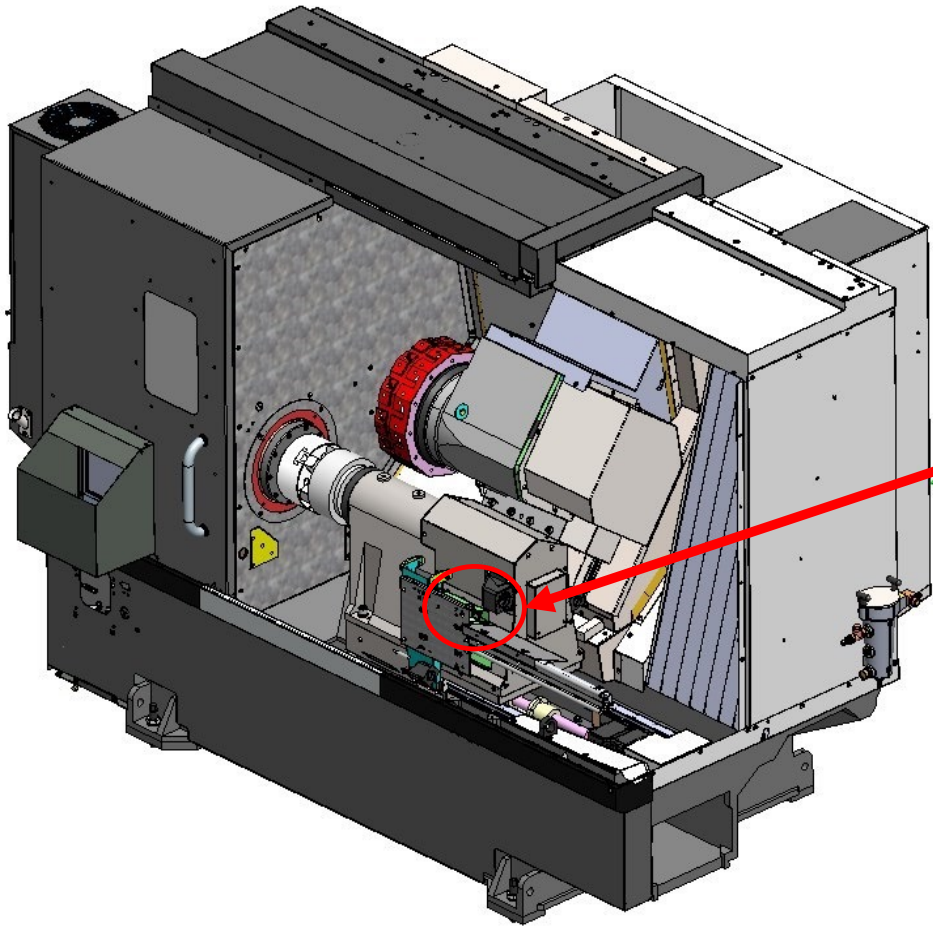


Haas  
F1 Team



# DS-20Y

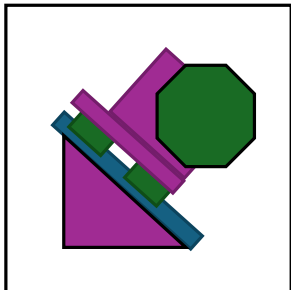
PCAT CVR Interference Fixed  
PCAT Cover new version



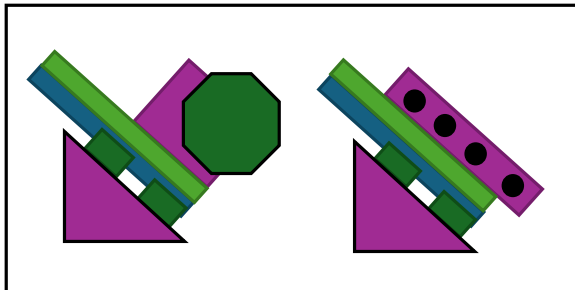
# Pocket Lathe Concept



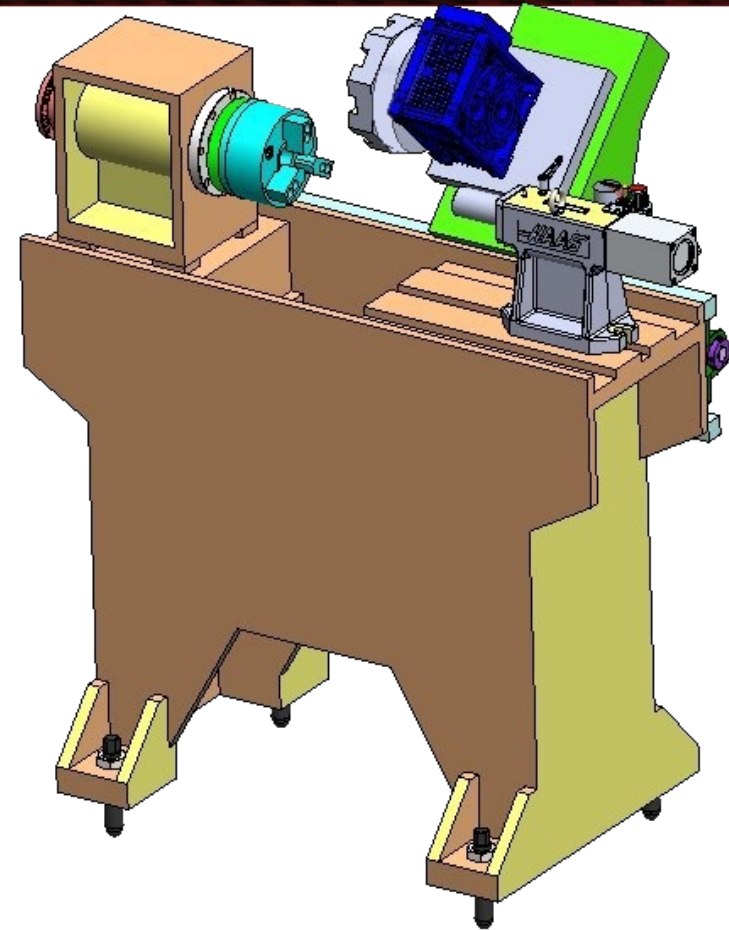
- 36" Wide
- 34" Floor Spindle Center
- 4" X Travel
- 10" Z Travel
- A2-5 plate on mill spindle assy
- CL Collet Closer
- Blind Union Closer ( sub spindle )
- Rotary Air T/S



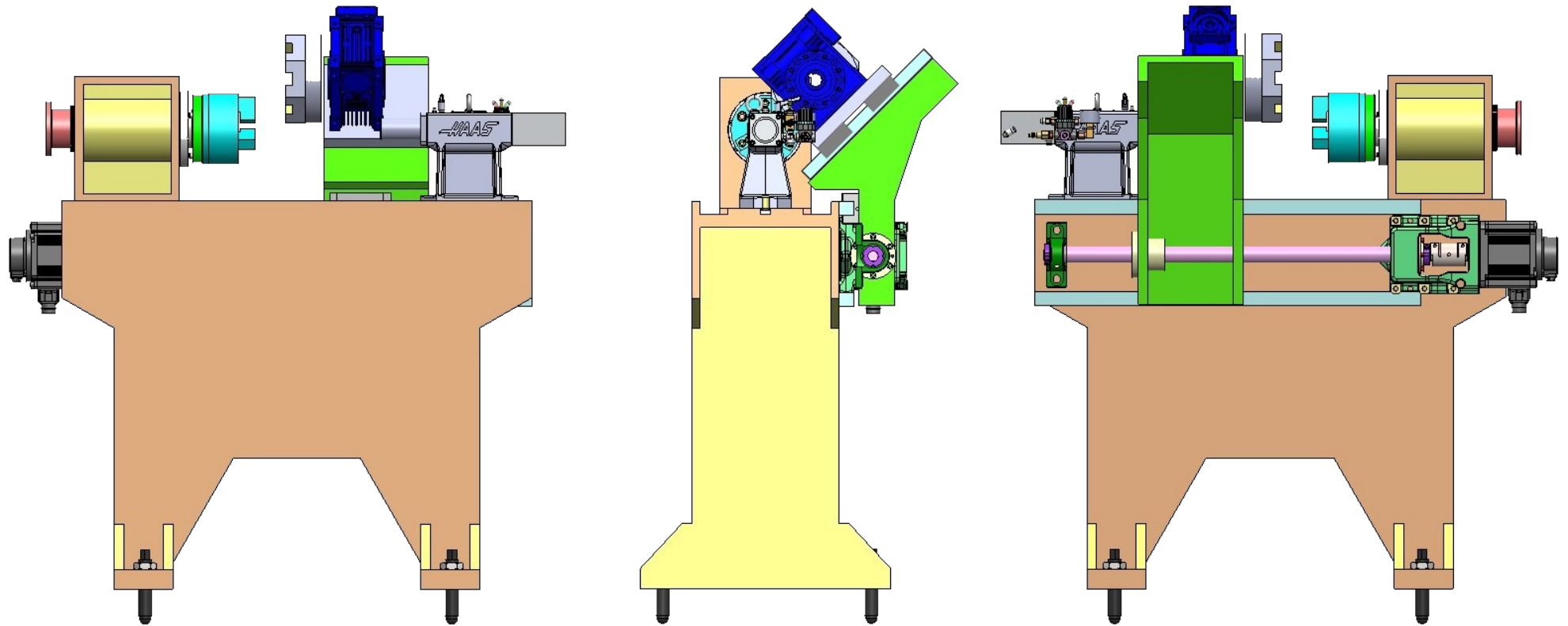
Turret Only



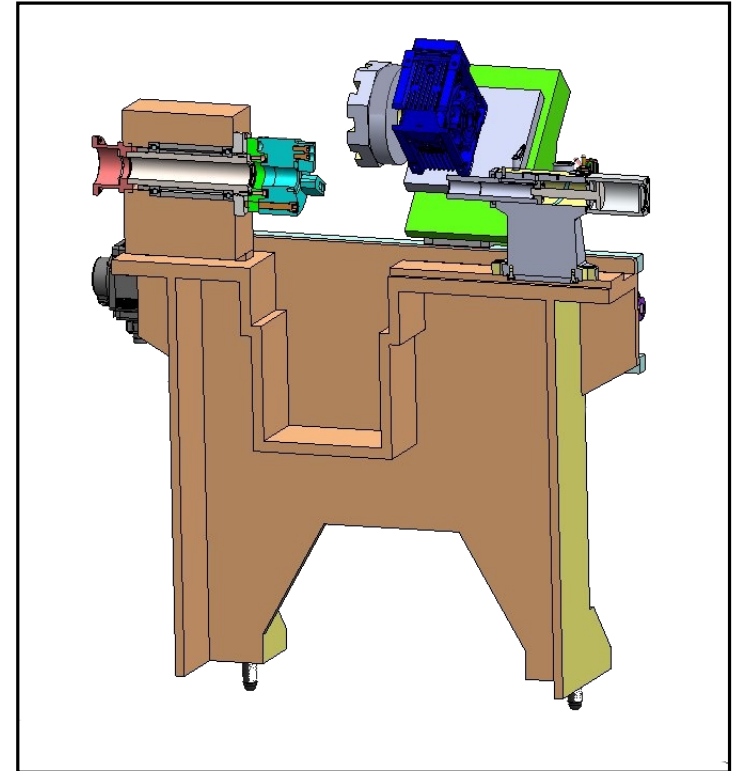
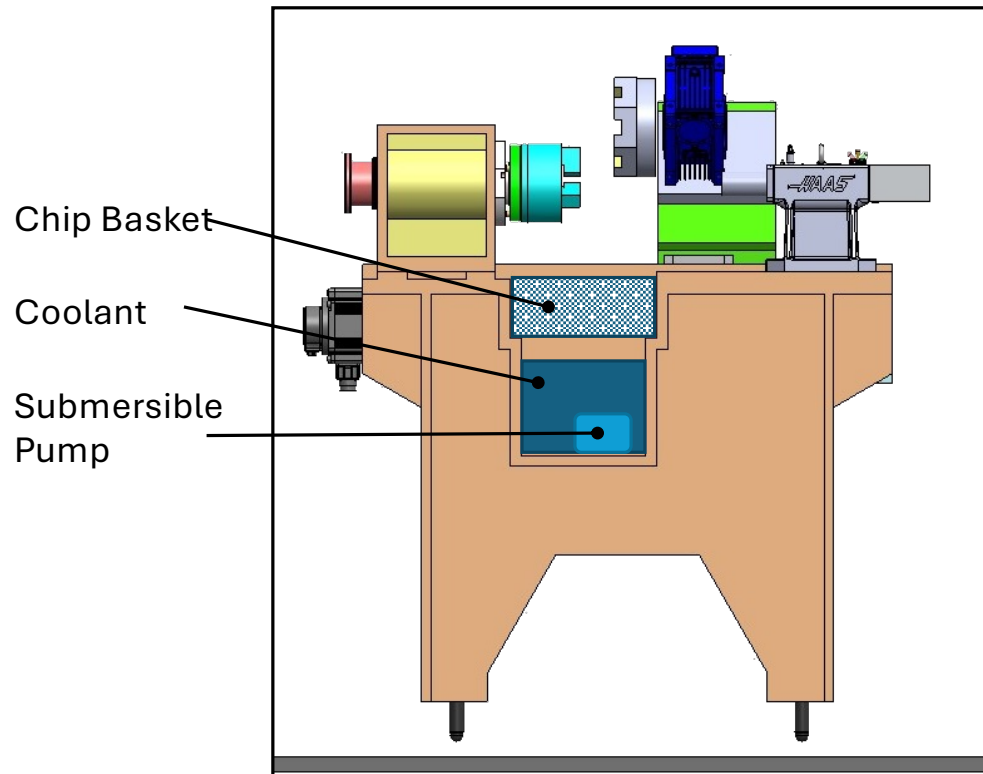
Gang and Turret on Slide



# Pocket Lathe Concept



# Pocket Lathe Concept



# Rotary

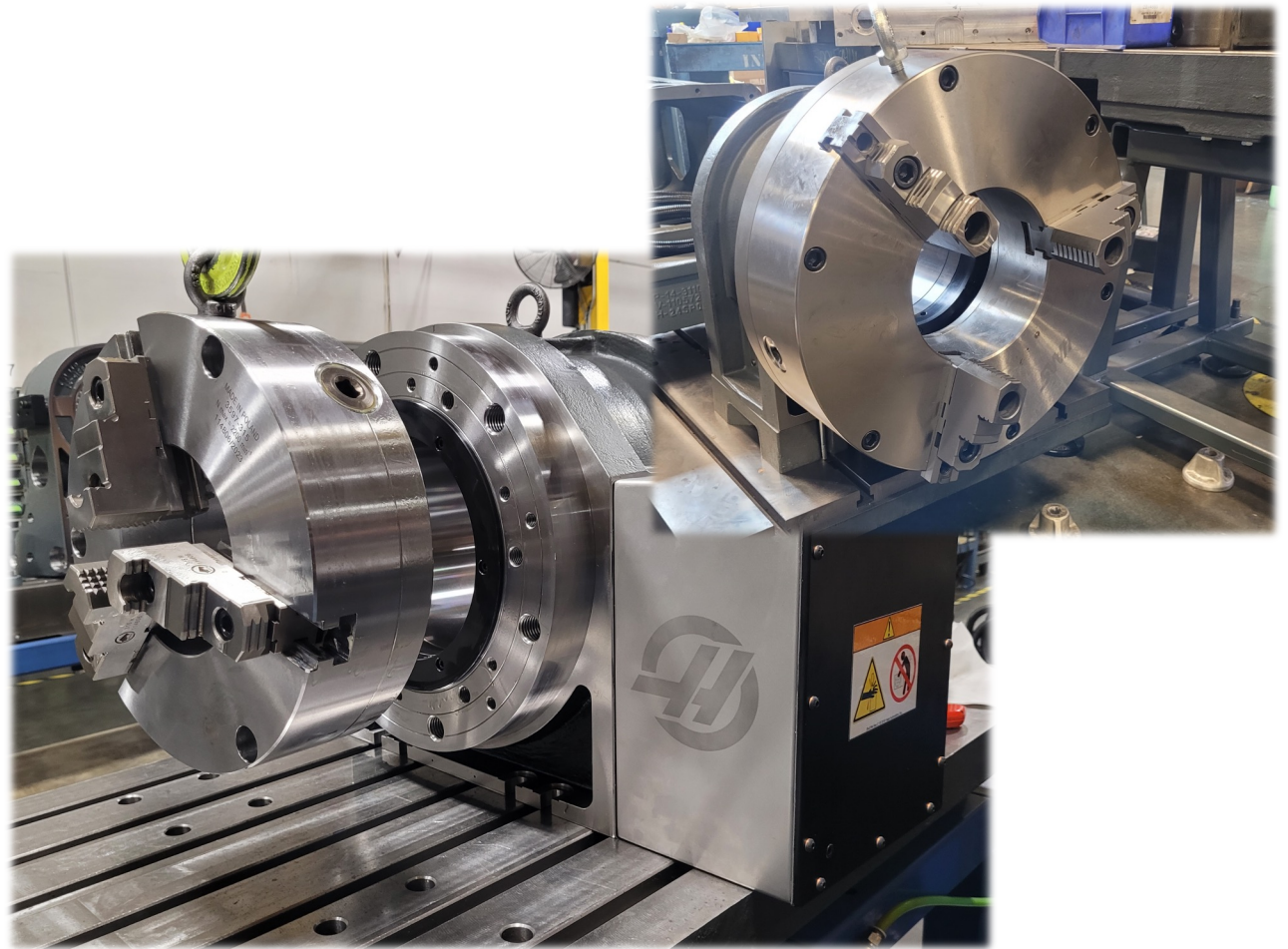
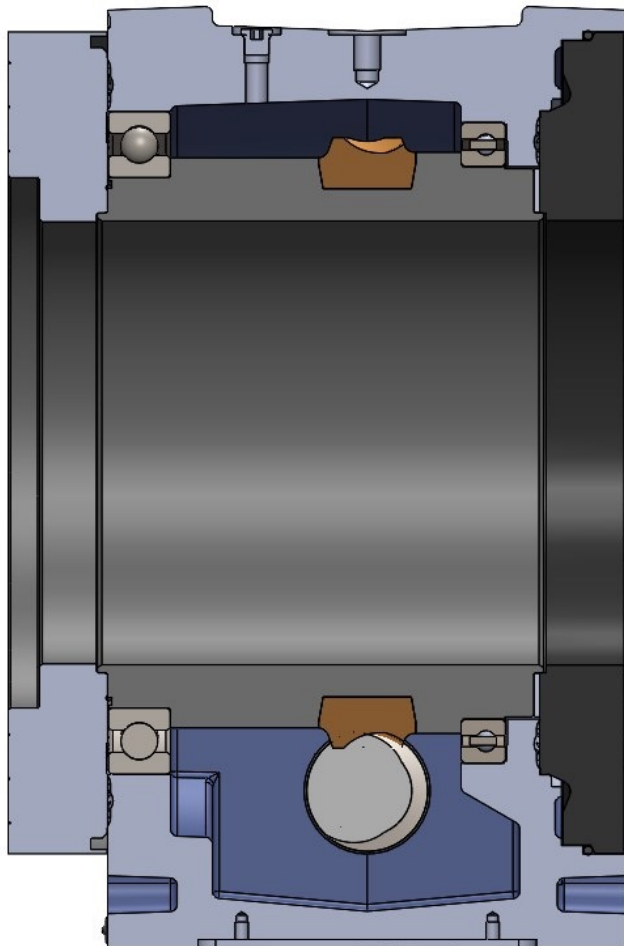
# 2025 New Products



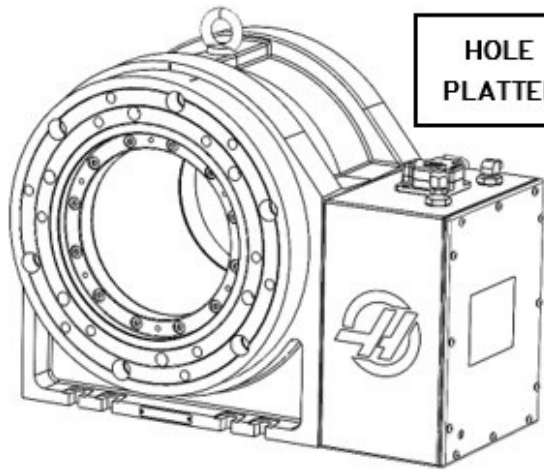
- LT350
  - Large-through-hole rotary table
  - 350mm platter
  - 200mm through-hole
  - Riser and chuck options
  - 6 sold
  
- LT350
  - Large-through-hole rotary table
  - 260mm platter
  - 135mm through-hole
  - 3 sold



# LT350 – Overview



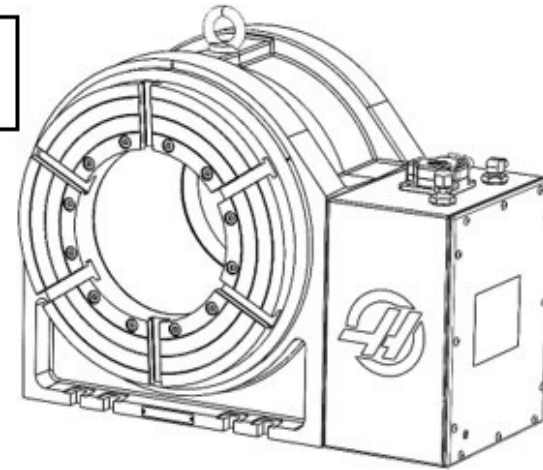
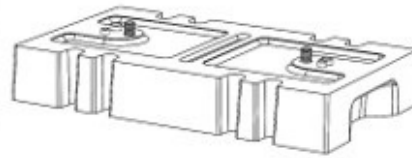
# LT350 – Options



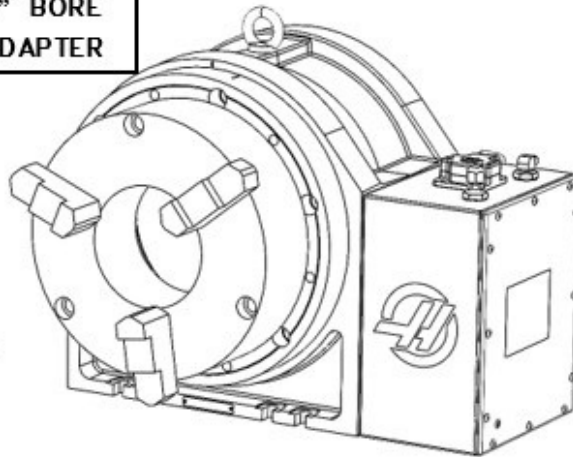
HOLE PATTERN  
PLATTER (*shown*)

T-SLOT  
PLATTER

2.5" RISER  
(*shown*)

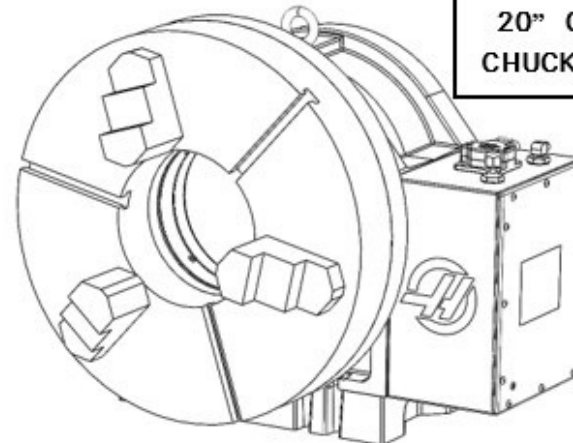


12" OD/5.7" BORE  
CHUCK & ADAPTER



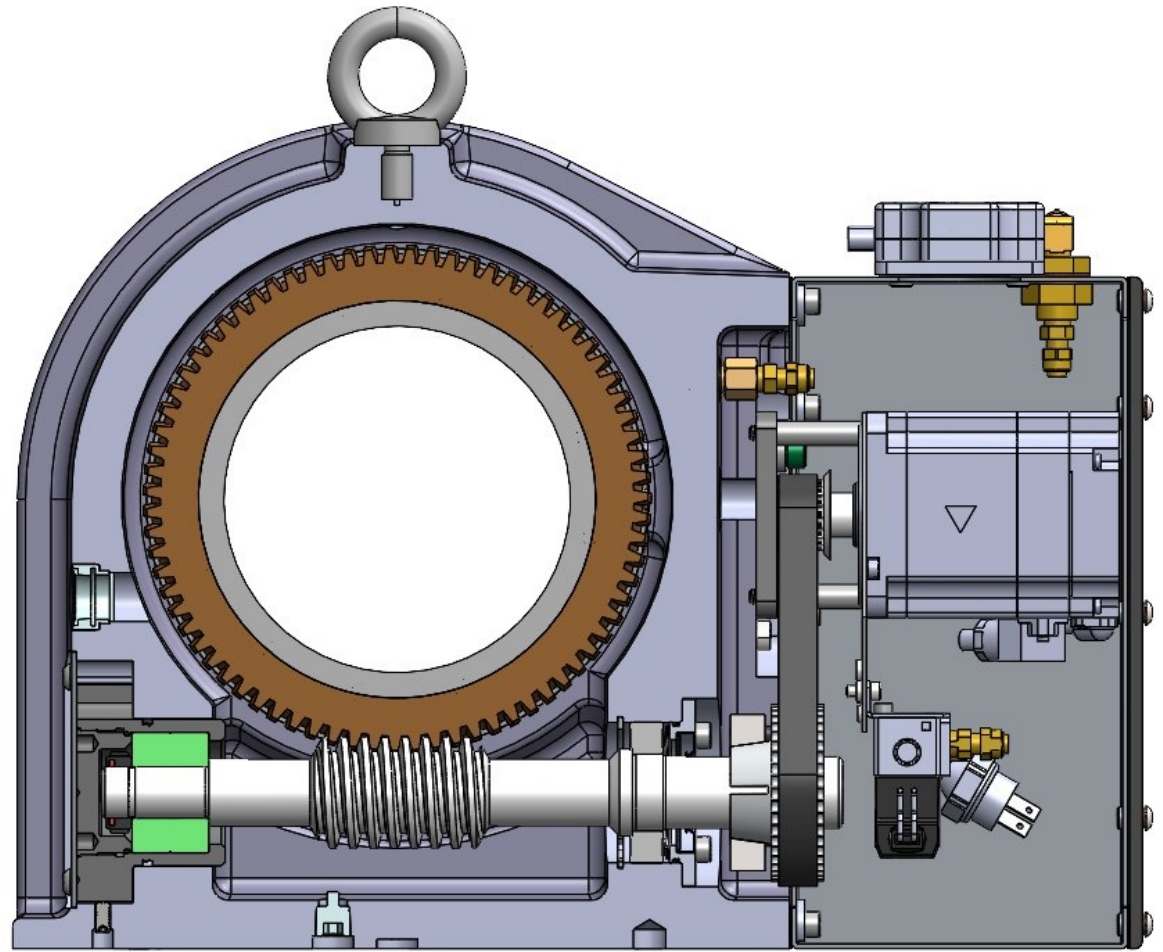
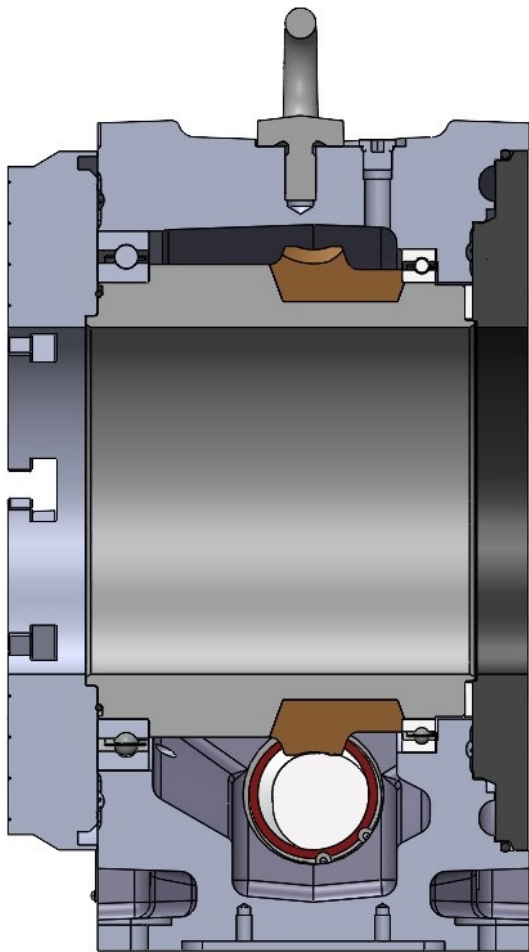
REQUIRES HOLE  
PATTERN PLATTER

20" OD/8" BORE  
CHUCK & ADAPTER



REQUIRES HOLE  
PATTERN PLATTER  
& 2.5" RISER

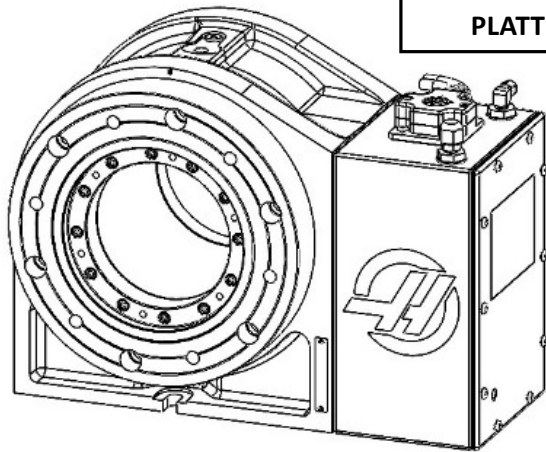
# LT260 – Overview



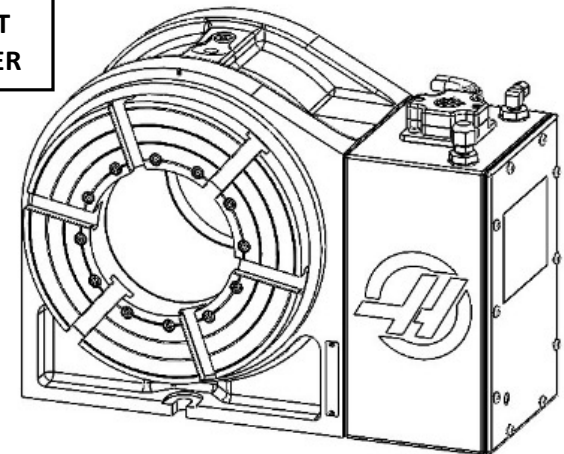
# LT260 – Options



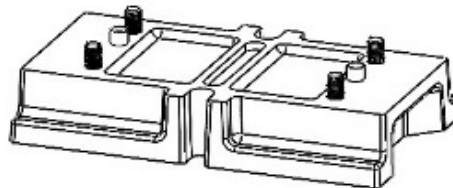
**HOLE PATTERN  
PLATTER**



**T-SLOT  
PLATTER**

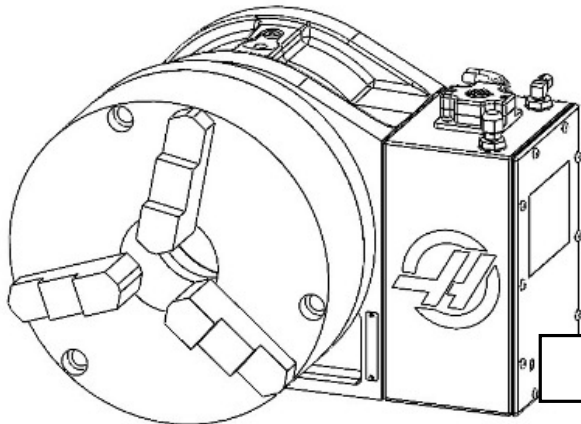


**2.1" RISER**



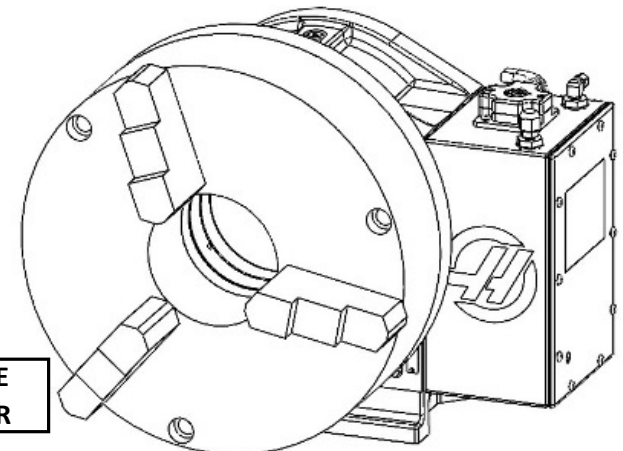
**12" OD/3.9" BORE  
CHUCK & ADAPTER**

REQUIRES HOLE PATTERN PLATTER



**16" OD/5.4" BORE  
CHUCK & ADAPTER**

REQUIRES HOLE PATTERN PLATTER & 2.1" RISER

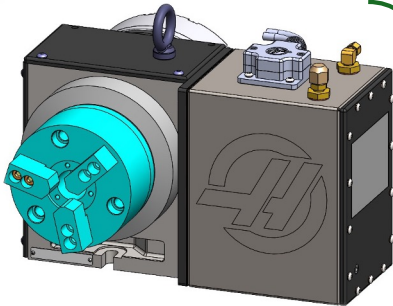


# HQDA5 – Overview

*“Haas Quick Drawbar, A5”*

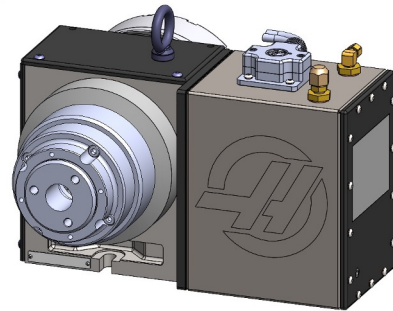
## 59-1810 POWER CHUCK 5-35 3 JAW A2-5 M35

- Max. input force **3934 lbf**
- **10mm [.39”]** full stroke



## 04-0299 HCB42-A5

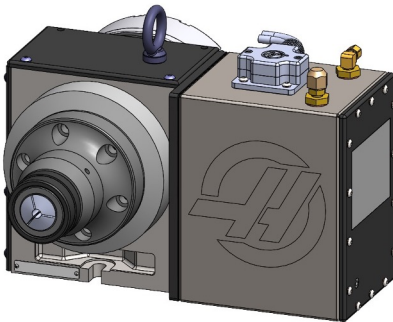
- Max. input force **7710 lbf**
- **4.5mm [.18”]** full stroke



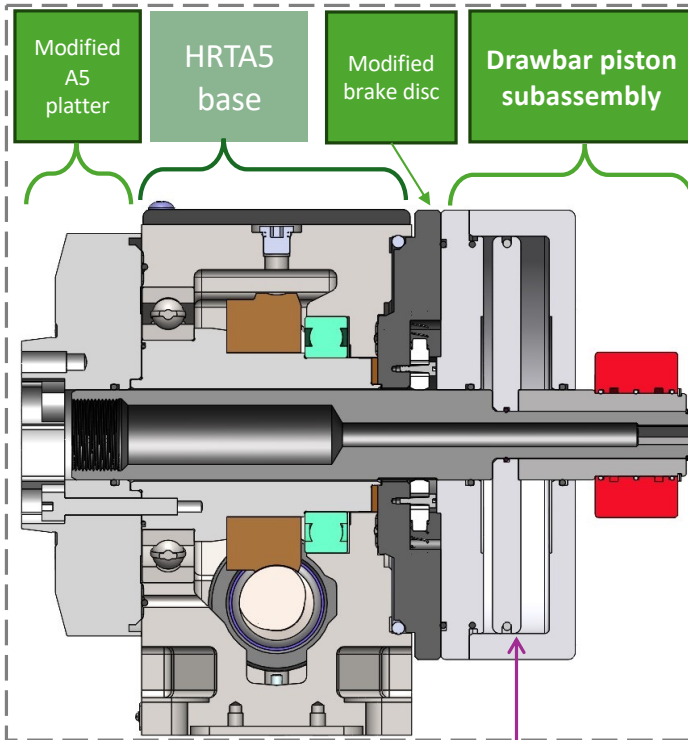
## 5C collet chuck, A2-5

## 3J collet chuck, A2-5

## 16C collet chuck, A2-5

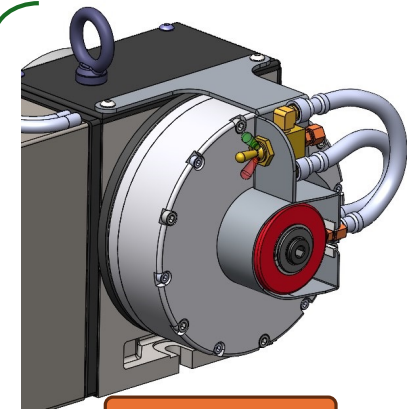


WORKHOLDING OPTIONS

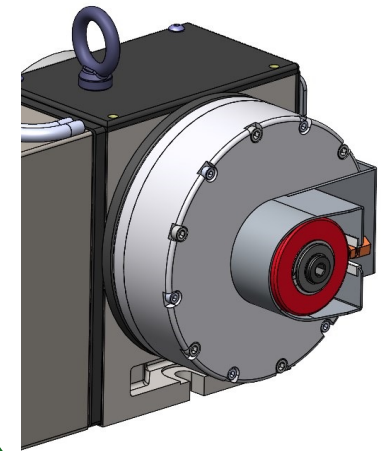


.625” stroke  
Up to 3900 lbs. push & pull force at 120 psi air pressure

ACTUATION STYLE



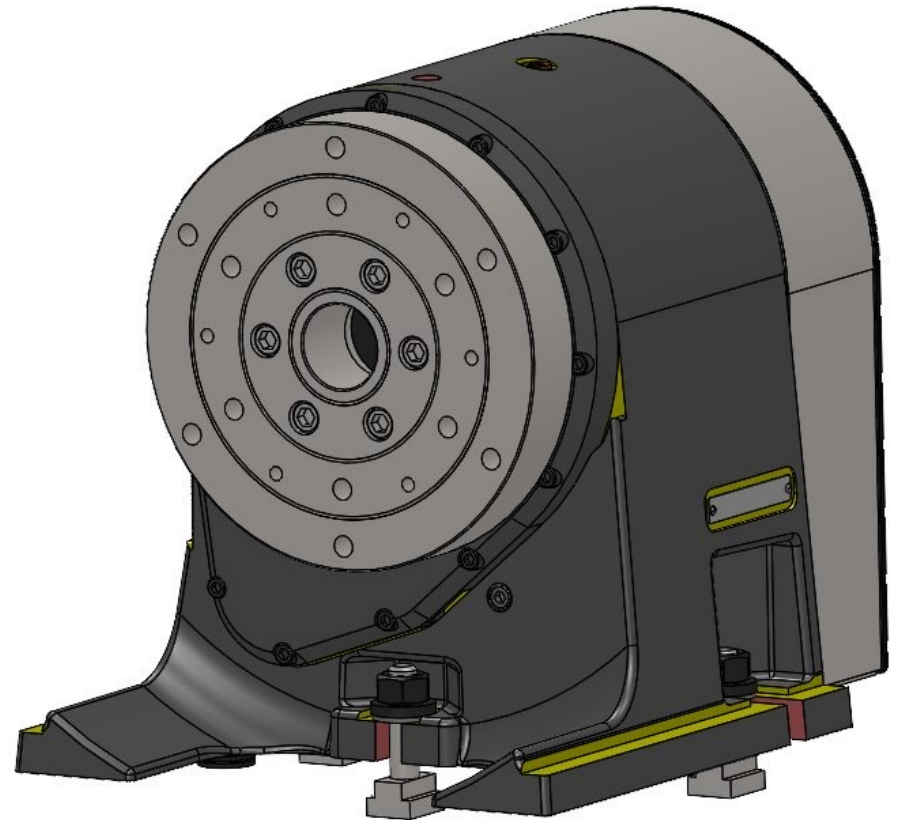
MANUAL  
OR  
AUTOMATIC



# HRT200HS



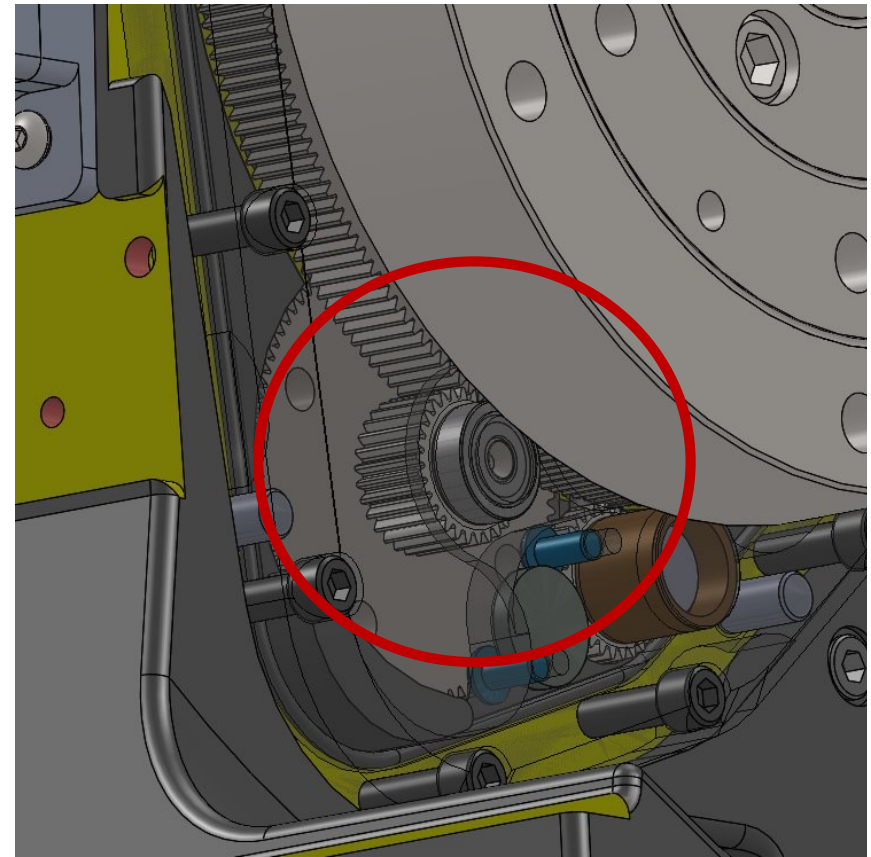
- Result of request from customers for 1,000 deg/sec rotary
- Fastest single-axis rotary table made by Haas, 100% faster than the next closest rotary table, HRT210SS
- Good for light cutting of low-inertia parts and 3+1 parts
- Compact design, so machine table is free for vises and other fixtures
- Fully supported, so fixtures can stay on rotary when removed from machine



# HRT200HS



- HIGH SPEED 1000°/SEC INDEXING SPEED (166 RPM)
- MAX PLATTER TORQUE 105 FT-LBS (142 NM)
- MAX PART SWING WITH RISER 15.75" (400MM)
- ID 1.5" (38.1MM)
- EQUIPPED WITH AN AIR BRAKE 100 FT-LB (73NM)
- OPTIONAL AIR DOUBLER
- SCALE OPTIONAL
- COMPACT DESIGN
- HARDENED AND GROUND SPUR GEARS (24:1)
- OIL FILM DAMPING PLATTER DESIGN
- HI SPEED TEFLON PLATTER SEAL
- CONTINUOUS ROTATION
- CAN BE USED WITH A TAILSTOCK WITH (7.5" CENTER HEIGHT)

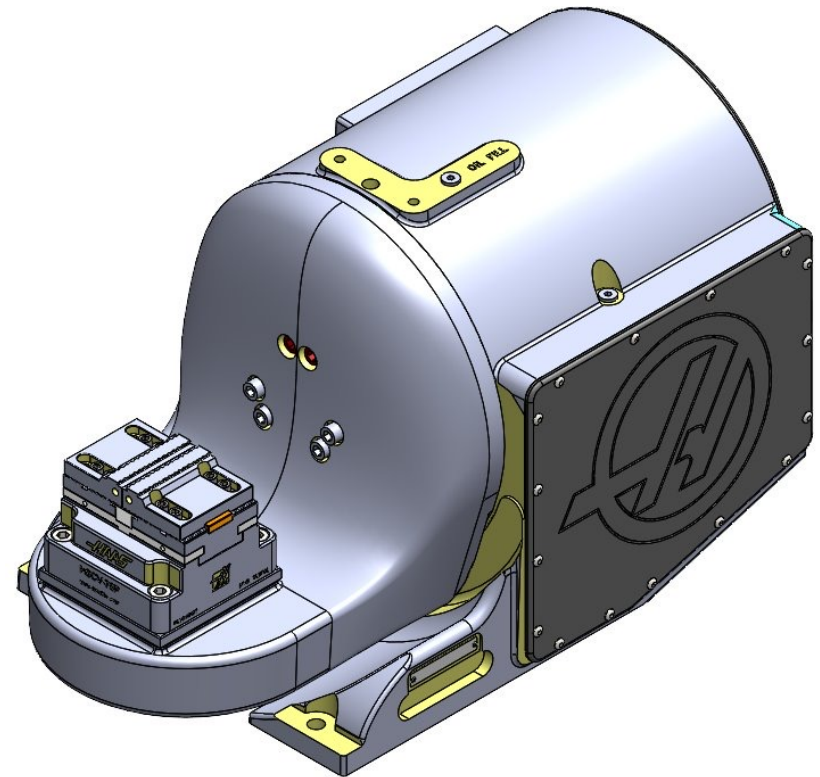


Spur Gear Drive

# HRT210VM – Vise Mount



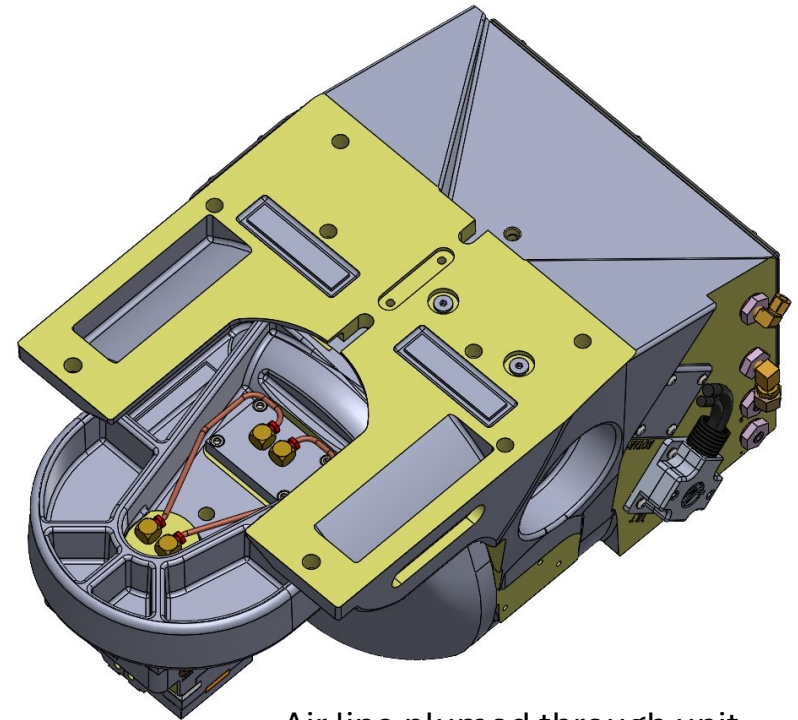
- Cost effective alternative to full 5th-axis table
- Good entry-level tilt-style rotary, possible gateway to full 5th-axis products
- Comes pre-assembled, pre-plumbed with either manual or machine controlled pneumatic vise
- Compact design, so machining table is free for vises and other fixtures
- Solid worm drive rotary table for heavy milling and drilling
- Fully supported, so fixtures can stay on rotary when removed from machine



# HRT210VM – Vise Mount

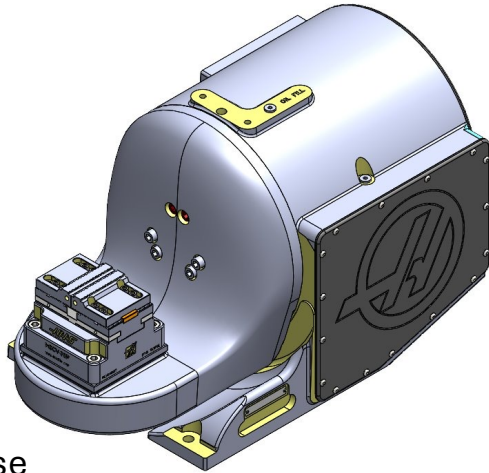


- SINGLE AXIS (TILT) ONLY (SAME AS TRT210)
- SPEED 80°/SEC
- HIGH TORQUE WORM DRIVE 300 FT-LB (406 NM)
- AIR BRAKE 425 FT-LB (576 NM)
- OPTIONAL AIR DOUBLER
- PNEUMATIC VISE STANDARD 3" (75MM)
- MANUAL OR CONTROL ACTUATED VISE
- SEVERAL MANUAL VISES OPTIONAL

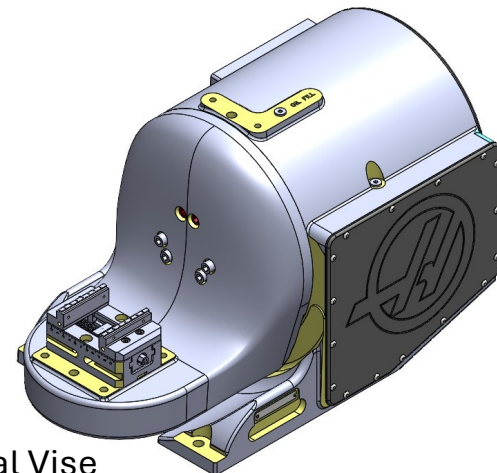


Air line plumed through unit

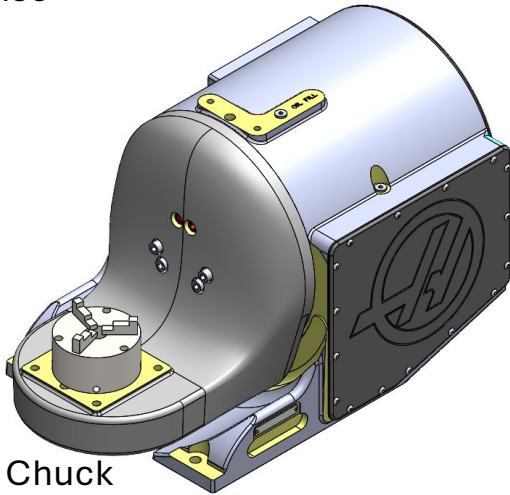
# HRT210VM – Work Holding Options



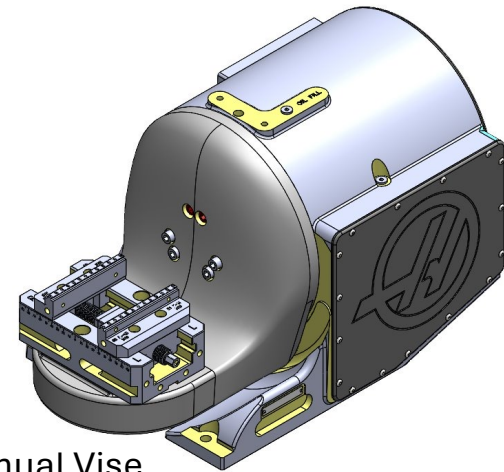
75mm Air Vice



75mm Manual Vice



4" Manual Chuck



130mm Manual Vice



# Naked Machines

# DC-1 *Example of Naked Machine*



- What it comes with from supplier:
  - THK, HIWN, or Rexroth linear guides and ballscrews
  - Spindle
  - Tool changer
  - Oil lubrication system
  - Coolant tank
- What we add at the factory (Haas IP)
  - Haas CNC control
  - Spindle motor & servomotors
  - Spindle chiller
  - Solenoids and manifold for lube
  - TSC system (union and pump)
  - Flood coolant pump (VFD, HCFP)
  - Work lights
  - Auto window
  - Haas convenience package



# DC Machines



- DC-1
  - 88 sold
  - \$65,995



- DC-2
  - 11 sold
  - \$85,995



- DC-1/40
  - 14 sold
  - \$69,995



- DC-2/40
  - 1 sold
  - \$89,995



- DC-3
  - \$109,995



- DC-4
  - 2 sold
  - \$149,995



- **116 sold in total**

# DC-3 and DC-4



- \$109,995
- 78" X-travel

## DC-3/40 Drill Center

**Starting Price: US\$109,995**

The DC-3/40 is a gantry-style drill/tap machine with 78.7" (2000 mm) of X-axis travel to accommodate long, narrow parts or high-density production setups. The machine's gantry-style spindle head travels in the X and Z axes, while the table travels in Y, and is fully supported along its length to handle heavier loads.

The machine is equipped with a 10,000-rpm 40-taper spindle and high-speed turret-style tool changer to minimize cut-to-cut times and shorten cycle times. Choose the optional 12,000-rpm or 15000-rpm spindle to cut production times even further.



- \$149,995
- 98" X-travel

## DC-4/40 Drill Center

**Starting Price: US\$149,995**

The DC-4/40 is a gantry-style drill/tap machine with 98.4" (2500 mm) of X-axis travel to accommodate long, narrow parts or high-density production setups. The machine's gantry-style spindle head travels in the X and Z axes, while the table travels in Y, and is fully supported along its length to handle heavier loads.

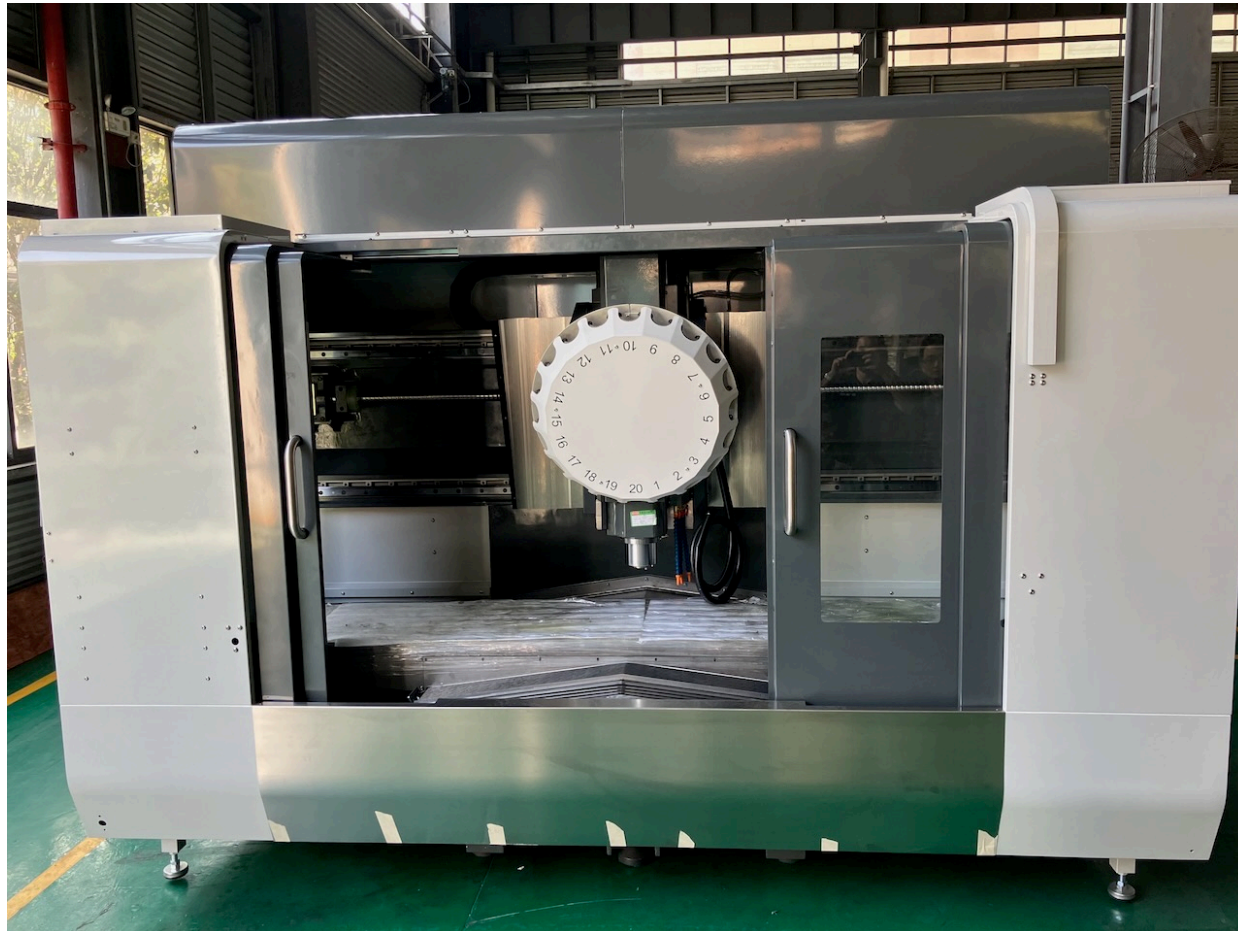
The machine is equipped with a 10,000-rpm 40-taper spindle and high-speed turret-style tool changer to minimize cut-to-cut times and shorten cycle times. Choose the optional 12,000-rpm or 15000-rpm spindle to cut production times even further.

Well suited to the construction, automotive, and aviation industries, the DC-4/40 can process parts more than 8 ft (2.5 m) long and 1.6 ft (0.5 m) wide, in a variety of shapes and profiles, such as long extrusions, steel channel, angle iron, and pipe.

- 98.4" (2500 mm) X travel to handle long parts and high-density setups
- 10,000-rpm 40-taper spindle (12,000-rpm or 15,000-rpm available)
- High-speed turret-style tool changer, 20 tools
- Rear chip discharge with front chip flush



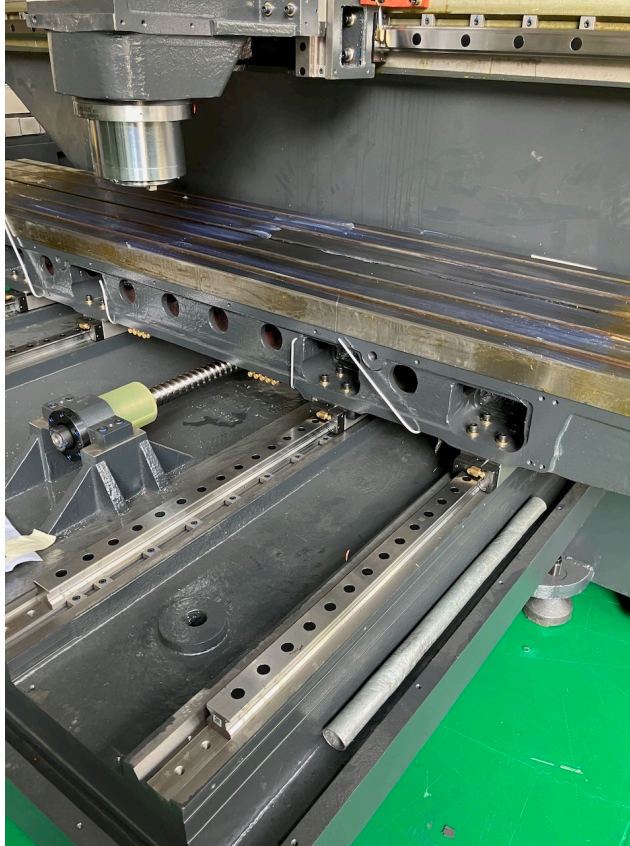
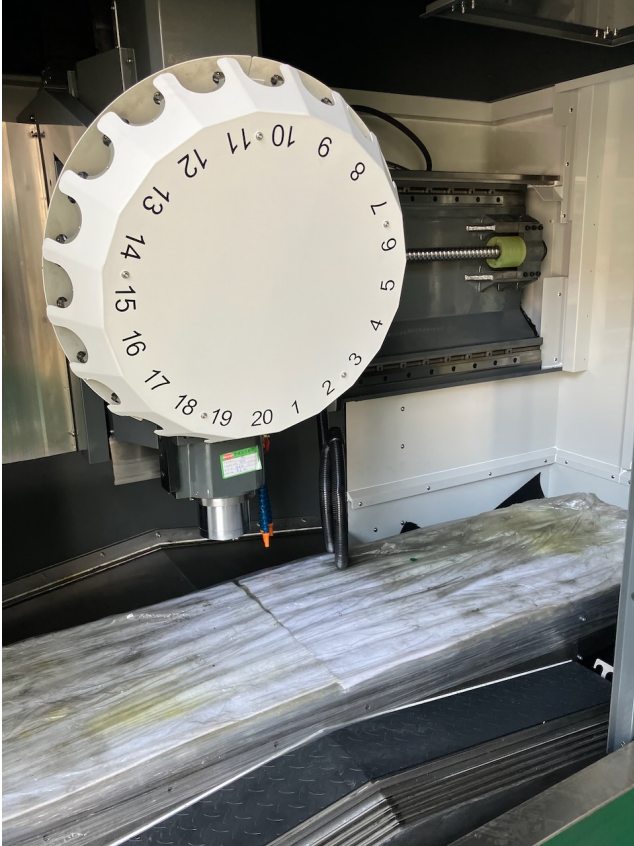
# DC-4



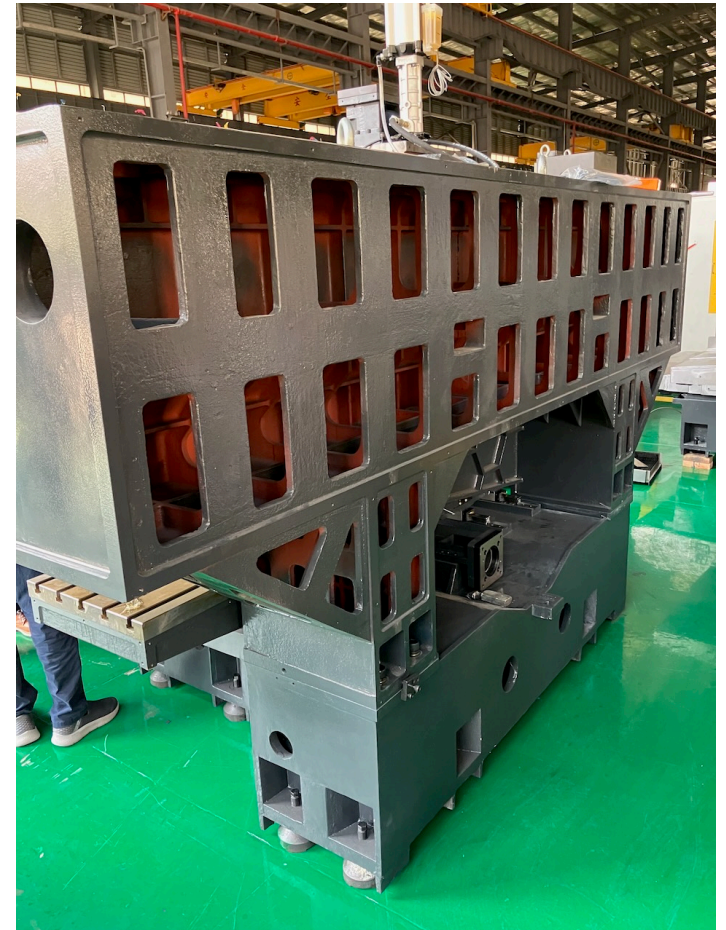
# DC-4



# DC-4



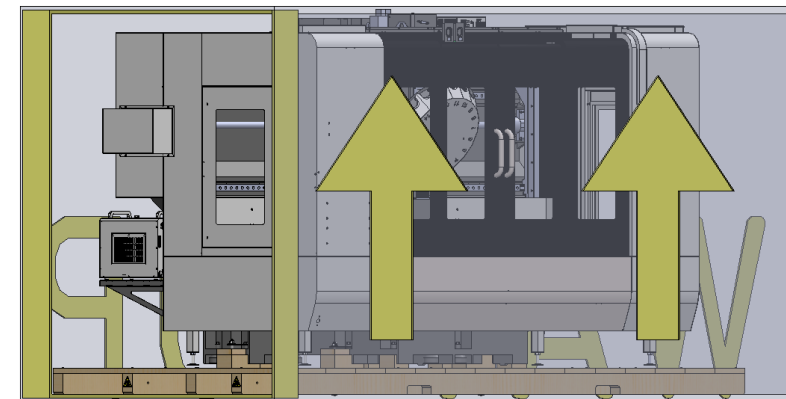
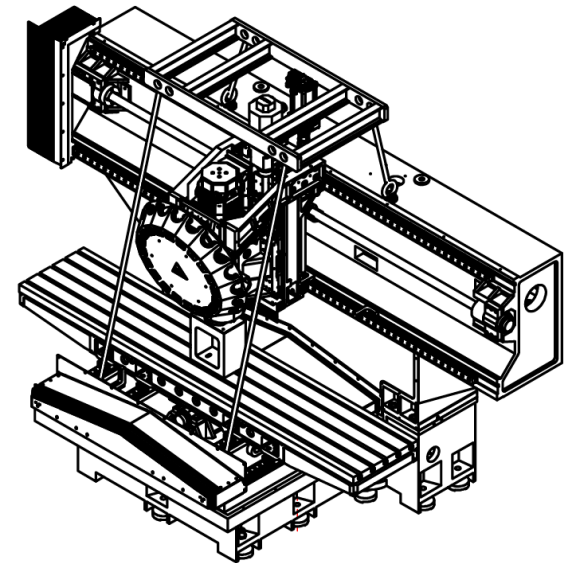
# DC-4



# DC-3 and DC-4



- Coolant capacity: 90 gal
- Standard dual multistage pump
  - Independent pump for flood & shower coolant
- Enclosure exhaust system compatible
- Pneumatically controlled drawbar
- Forklift recommended for handling as first choice, but machine has lift features
- Will fit in shipping container
  - with component removal
  - Roof & coolant tank to be shipped on separate pallet
  - TRP booster cylinder unmounted
  - Lay Z axis cable carrier flat on rear end
  - Pendant removed



# SB-28Y

- 6 sold
- Q2 delivery



# ALL NEW



## SB-28Y BOX WAY LATHE

**Y-AXIS CNC BOX WAY LATHE WITH 12" X 18.5" MAX CAPACITY,  
A2-8, 2.95" BAR CAPACITY, AND 4K RPM LIVE TOOLING STANDARD**

Haas SB Series lathes offer the high dynamic stiffness, load-bearing capacity, and vibration damping associated with traditional box way machines, combined with the powerful, easy-to-use Haas control, and backed by the industry-leading support of the Haas Factory Outlet network.

Scan here or contact your local HFO for more details.



**STARTING AT:**

**\$136,995**

Specifications subject to change without notice. Not responsible for typographical errors. Machines shown with optional equipment. Actual product appearance may differ. Pricing subject to change without notice.

## BY THE NUMBERS

**A2-8**  
SPINDLE

**10"**  
CHUCK SIZE

**3200**  
RPM

**40**  
HP

**BMT65**  
LIVE TOOLING STANDARD

**12" x 18.5"**  
MAX CAPACITY (DIA. x LENGTH)

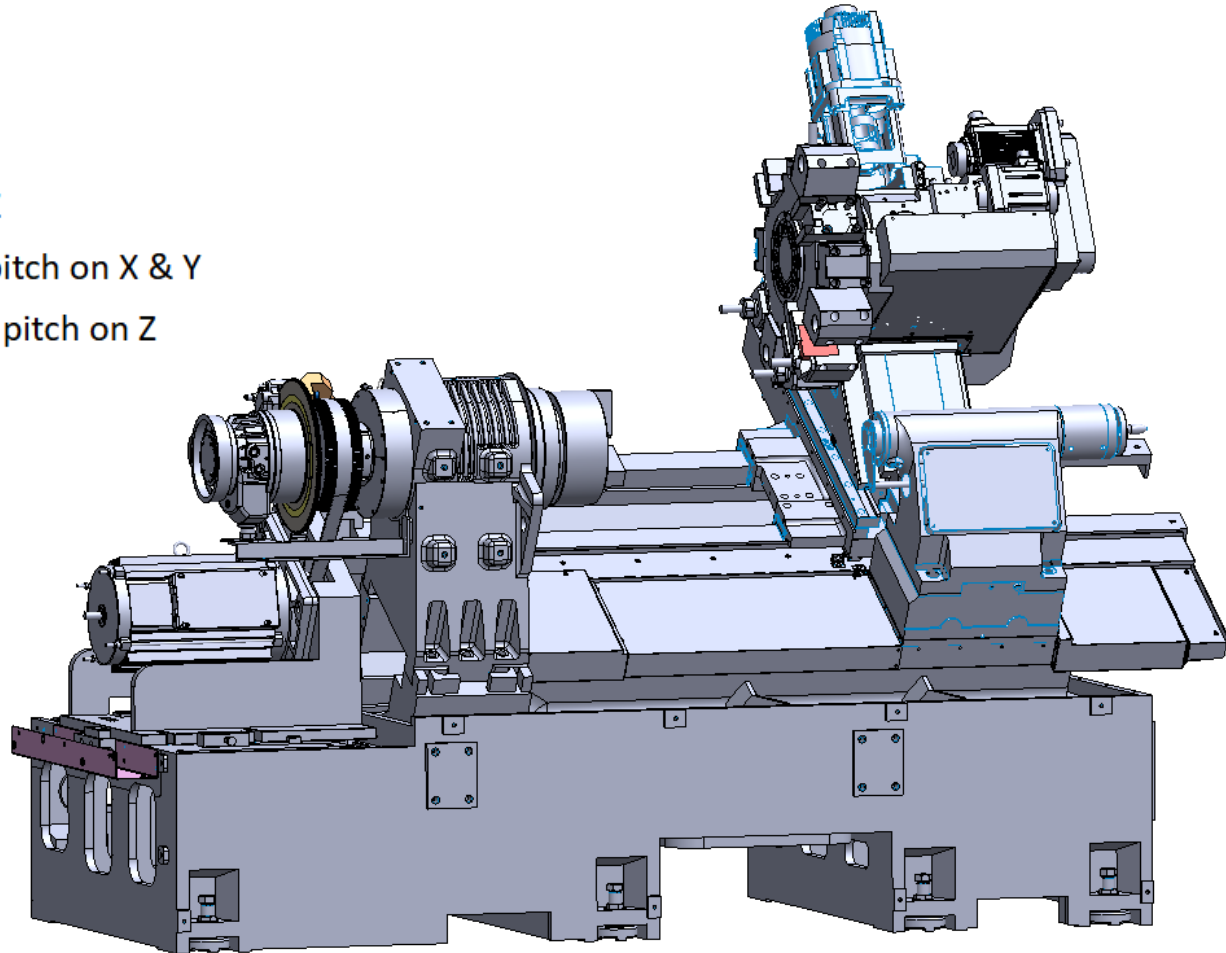
**2.95"**  
BAR CAPACITY

# SB-28Y



## Servos & ballscrews

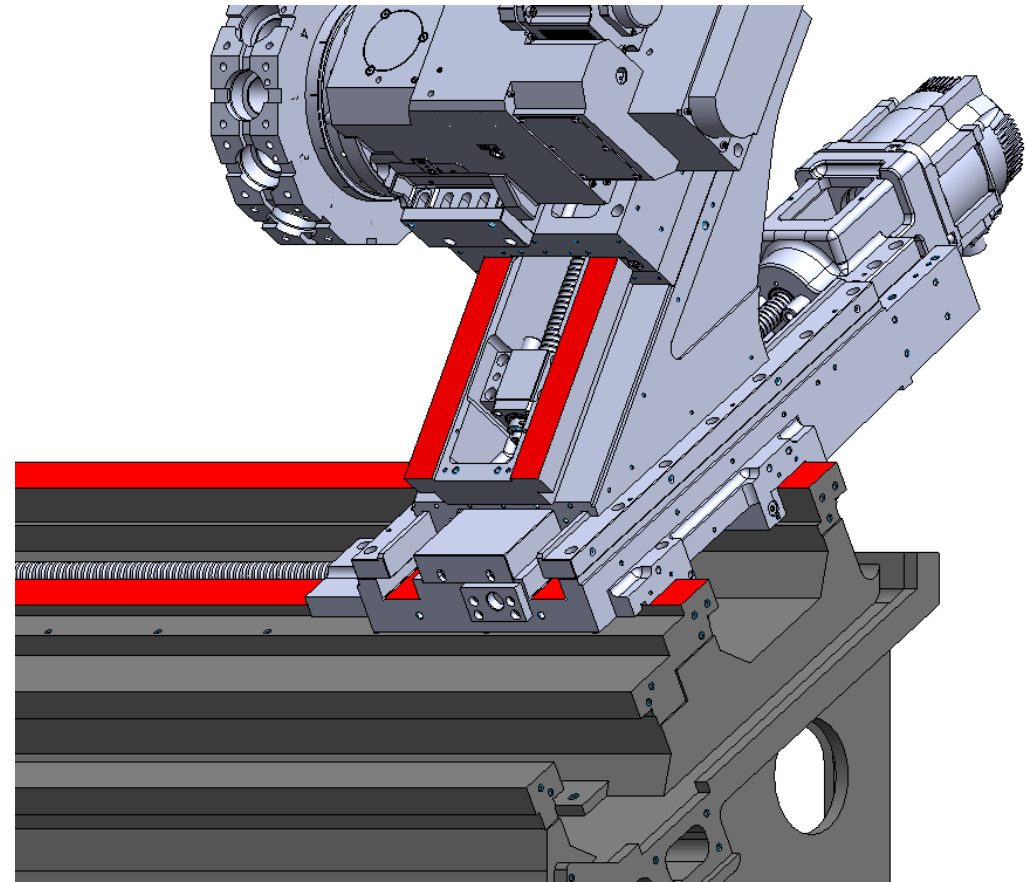
1. Size 20 motors on X, Y & Z
2.  $\text{Ø}32\text{mm}$  ballscrew, 8mm pitch on X & Y
3.  $\text{Ø}40\text{mm}$  ballscrew, 10mm pitch on Z



# SB-28Y



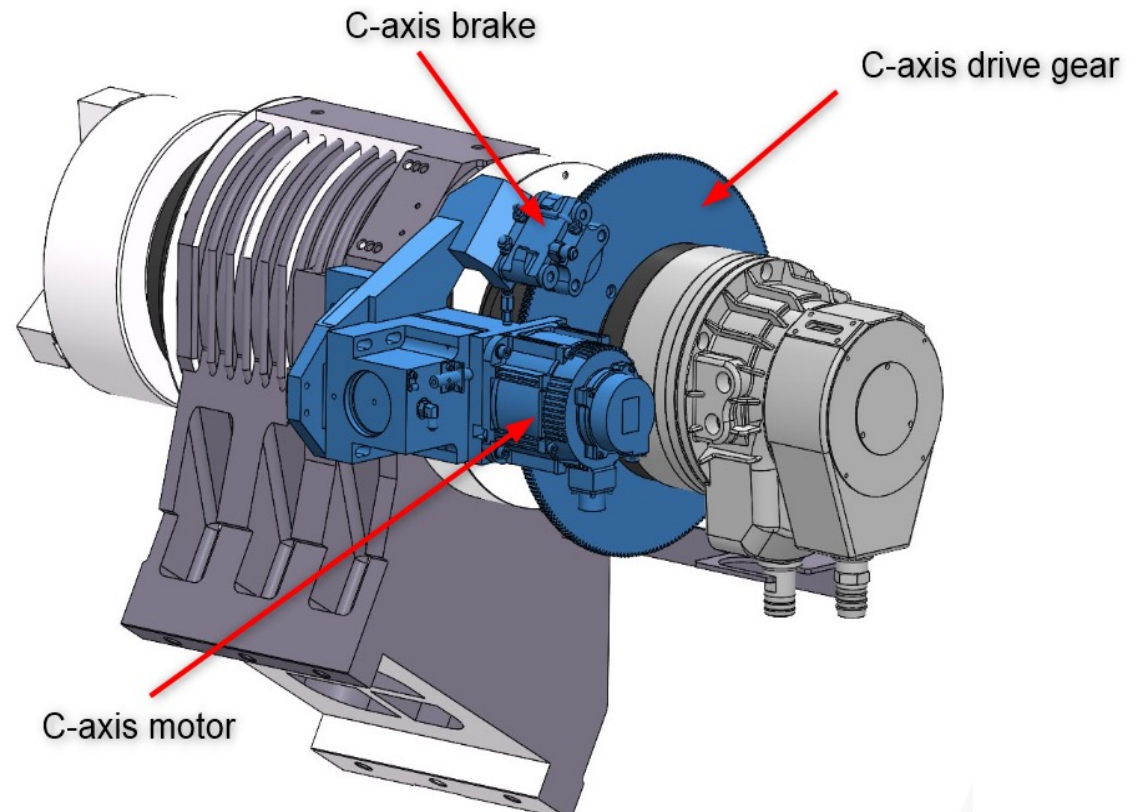
- 30 deg Y-axis angle plus 30 deg bed angle, total slant on X-axis 60 deg
- Turcite-B slideways
- Hardened & ground ways
- Class 30 cast iron



# SB-28Y C-Axis



- Haas designed and built
- Same as ST series
- Common components



# SB-28Y T/S Operation

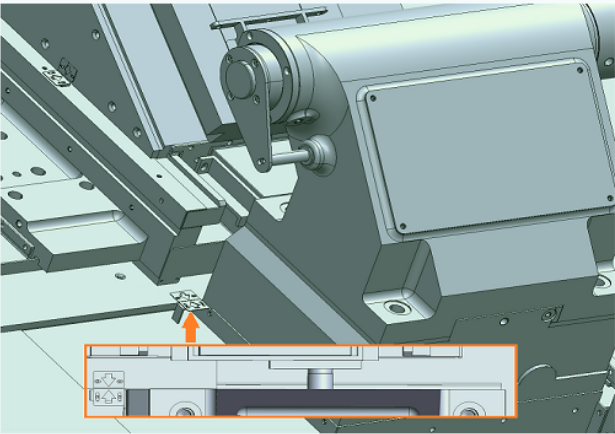


- M321 (P)
  - Tailstock engage and position
- M322
  - Engaging and parking the tailstock back home
- M21
  - Quill forward
- M22
  - Quill retract

Current Commands

Devices Timers Macro Vars Active Codes Tools Plane Calculator Media

Mechanisms Tailstock



- F2 Tailstock Position Recovery
- F3 Engage Tailstock
- F4 Extend Quill
- INSERT Extend Shotpin

Setting	Name	Value
448	Tailstock Engagement Tool Number	7
446	Tailstock Engagement X Position	0.0000
447	Tailstock Engagement Y Position	0.0000
341	Tailstock Rapid Position	-5.0000
105	Tailstock Retract Distance	2.0000
145	Tailstock At Part For Cyclestart	Off
322	Foot Pedal Tailstock Alarm	Off
332	Tailstock Foot Pedal Lockout	Off
	Tailstock Position Tracking	Known

# SB-28Y

- BMT65 live tooling
  - 4k standard
  - 6k optional
- Expanding the line up
  - A2-8, 12" chuck, 3.6" bore
  - SB-35Y – 27" turn length
  - SB-35LY – 47" turn length
- Non Y-axis versions
  - SB-28
  - SB-35
  - SB-35L
- Additional models available Q3-2025



## You Asked, We Delivered: CNC Box Way Lathes for Heavy Turning.

**10"** CHUCK SIZE    **2.95"** BAR CAPACITY    **3200** RPM    **40** HP



### BOX WAY CONSTRUCTION

- Hardened and precision ground ways
- Flame and induction hardened slide surfaces
- Hand-scraped Turcite-B slideways on the X and Y axes, and tailstock gib



Our SB Series boxway lathes are equipped with the same powerful, easy-to-use Haas Control found on every machine we build. Designed and built in-house – hardware and software – the Haas control is optimized specifically for Haas machine tools. It comes standard on every machine we sell, and is the same across the entire product line.



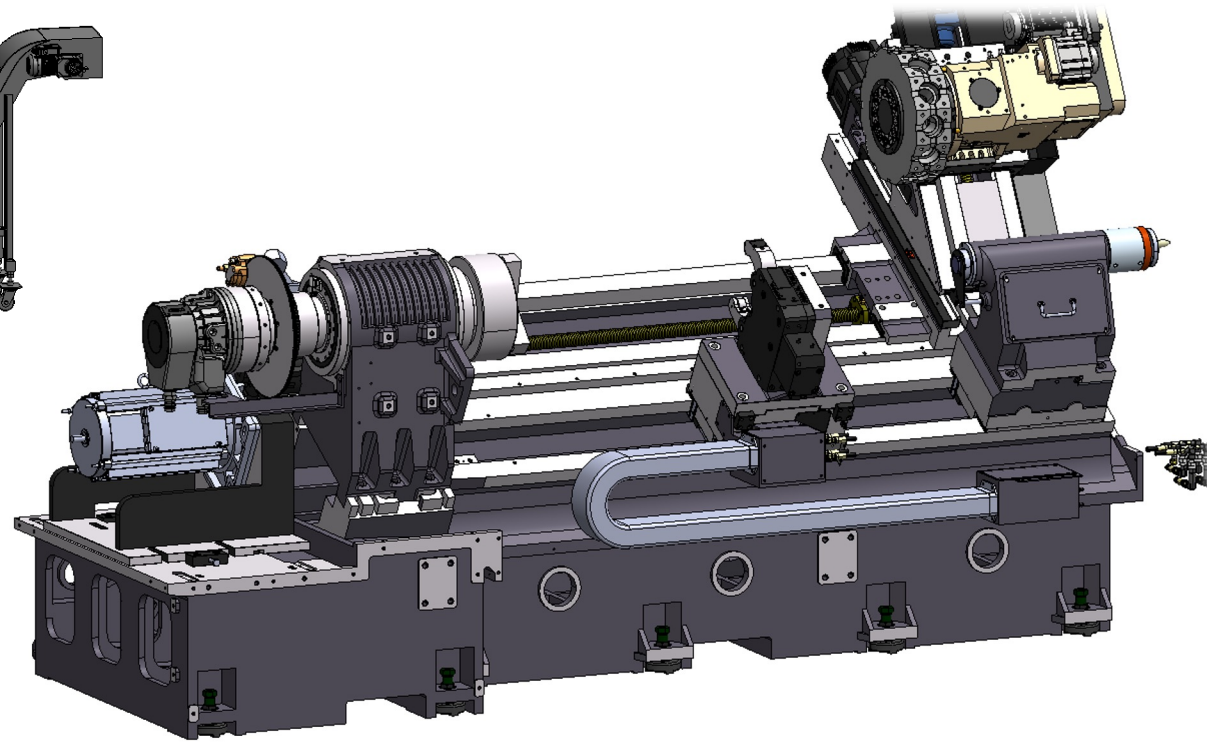
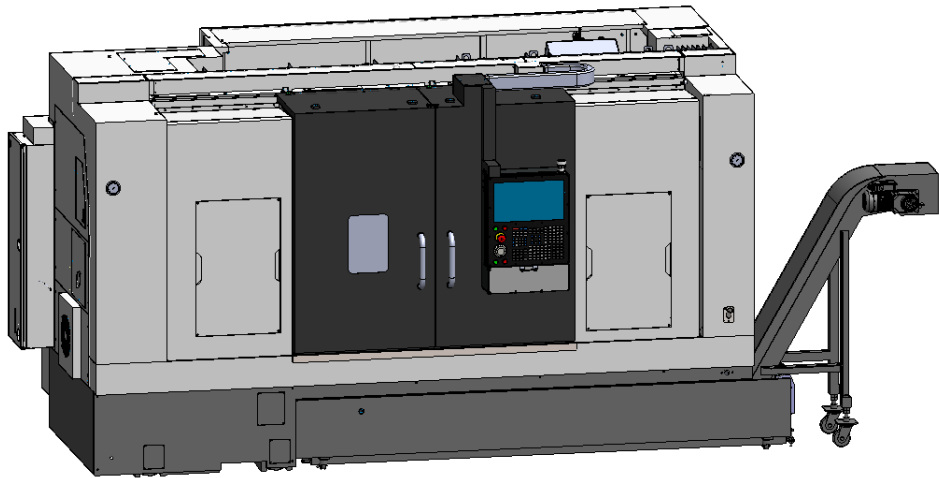
Each SB Series lathe is equipped with a robust 12-station BMT65 turret that accepts industry-standard base-mount tooling, as well as axial and radial driven live tools for secondary milling, drilling, and tapping operations.

### 30° SLANT-BED BASE CASTING WITH 30° Y-AXIS ANGLE FOR 60° TOTAL

All SB Series box way lathes feature a true slant-bed design that provides excellent rigidity and thermal stability, as well as efficient chip evacuation. The slant bed also allows generous X-axis travel in a smaller footprint, and provides a sturdy base to support the turret along the entire Z-axis.



# More Box Way Lathes



## Additional Box Way Models En Route

- SB-28 – 3 due October
- SB-28Y – 18 due July
- SB-35 – 3 due October
- SB-35L – 3 due October
- SB-35Y – 3 due October
- SB-35LY – 3 due October

# SB-28Y



- Cuts the same as a ST-35Y
  - Side by side comparison cuts
- More forgiving for a ‘sloppy’ set up
- Who to sell this to?
  - “I want a box way”
  - “I need a heavy machine”
- Other considerations
  - Standard w/ a conveyor, non-Haas
  - Non-Haas coolant tank, removes from the rear
  - No parts catcher
  - Drag style tailstock
  - Why 2.95” on drawtube ID?
  - Still has box way limitations



# Sheet Routers



- **SR-3015 Haas Router**

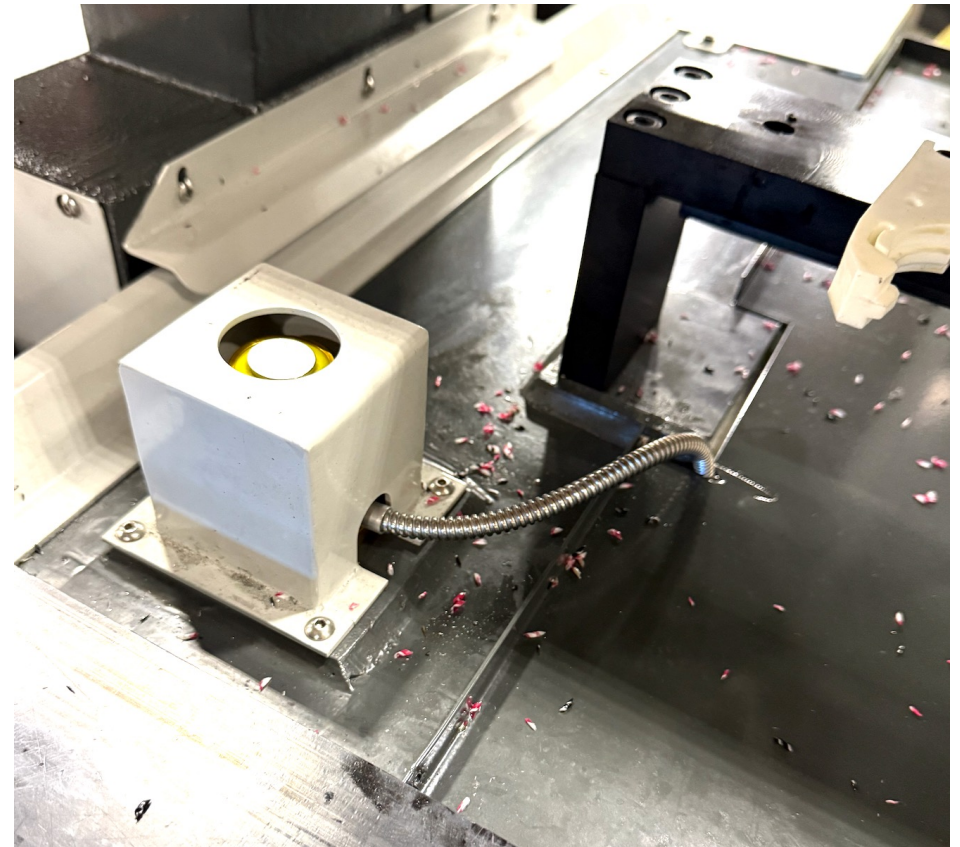
- Sheet router for non-metallic materials
  - Haas stepper CNC control
  - 3000 x 1500 x 200 mm travels
  - 4.5 kW, ER32 air-cooled spindle
  - Dust collection system and tool setter standard
- 12 sold

- **SR-3015P Production Version**

- Haas servo CNC control
- BT30 spindle
- Rack-style tool changer
- Vacuum table
- 19 sold



# SR-3015P



Tool Setter

# SR-4020 and SR-4020P



- SR-4020
  - Larger version of SR-3015
  - 4m x 2m
  - Haas stepper control
- SR-4020P
  - Larger version of SR-3015P
  - 4m x 2m
  - Haas servo control
  - BT30
  - 8-station wine rack tool changer
- Available now



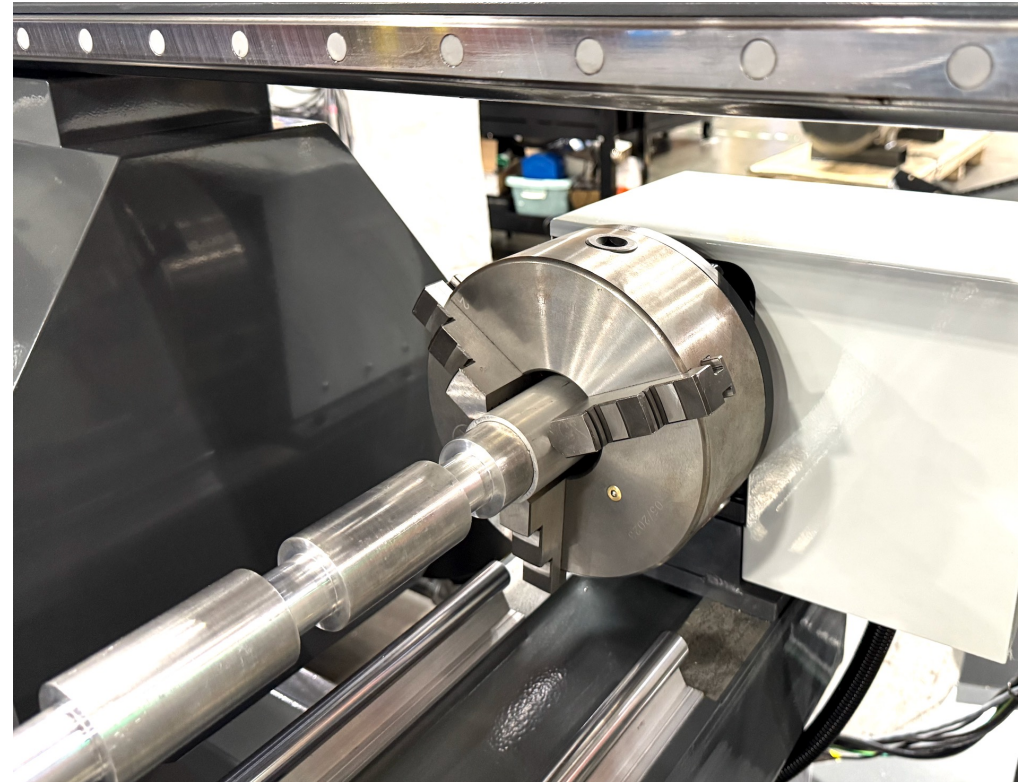
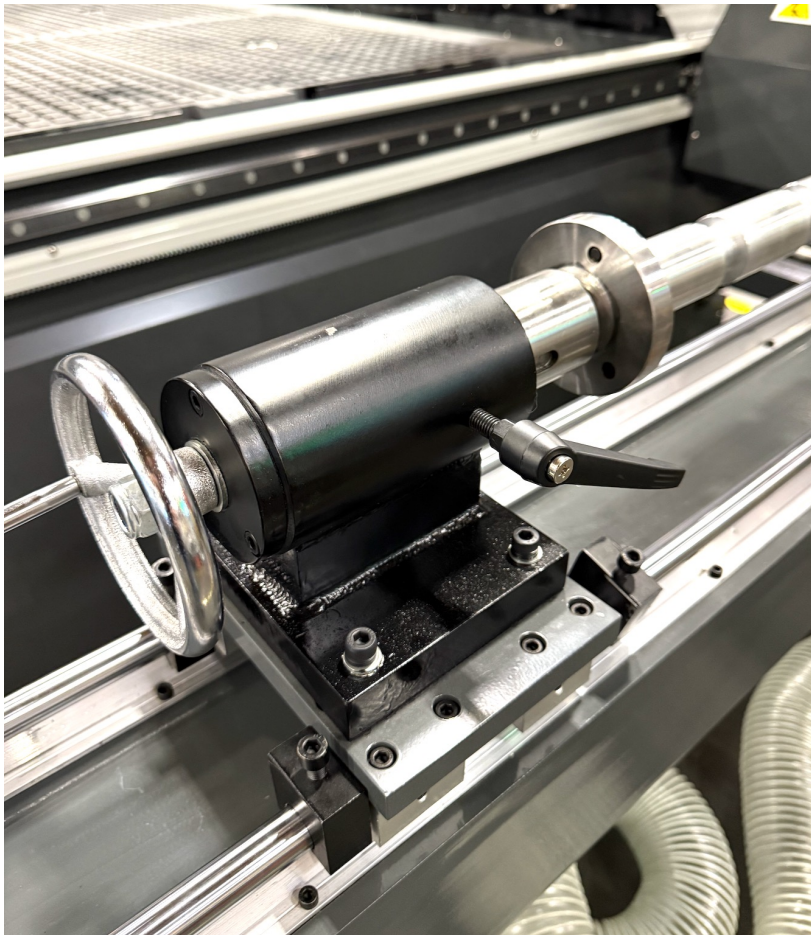
# SR-3015P-4AX



- SR-3015P-4AX
  - 4<sup>th</sup> Axis rotary off to side of bed
  - Haas servo control
  - BT30
  - 12-station wine rack tool changer
- Available Q3-2025



# SR-3015P-4AX



8" chuck



# Branded Machines

# HKM-1 (Haas Knee Mill)



- Traditional knee mill
  - 32.7" x 12" x 16" travels
  - Var speed R8 spindle, 4500 rpm, 5 hp
  - Pneumatic power drawbar
  - X-axis power feed w/clutch handles
  - XY DRO
  - Coolant system w/chip tray
  - Auto lube system
- \$25,995
  - 31 sold
- Shipping now
- CE version coming Q3



# HML-1 (Haas Manual Lathe)



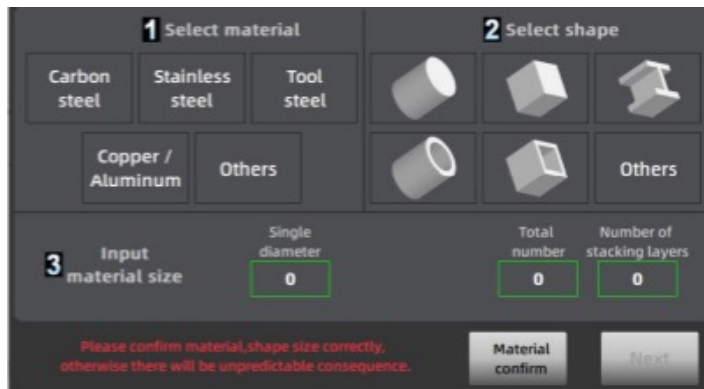
- Haas Manual Lathe
  - 14" x 39"
  - D1-6 spindle 1,800 rpm
  - 9" chuck, 2" bore
  - Tailstock
  - 4-way tool post
  - Steady rest
  - DRO
  - Chuck guard
- Price list July 1 for US/CA/MX
- \$25,995



# Band Saw



- HAB-3232 Haas Band Saw
  - 12.6" x 12.6" capacity
  - Easy-to-use touchscreen interface
  - \$39,995
  - 71 sold



# More Band Saws



- HVS-1

- Vertical band saw
- \$14,995
- July 1 price list (US/CA/MX)
- Q3 deliveries

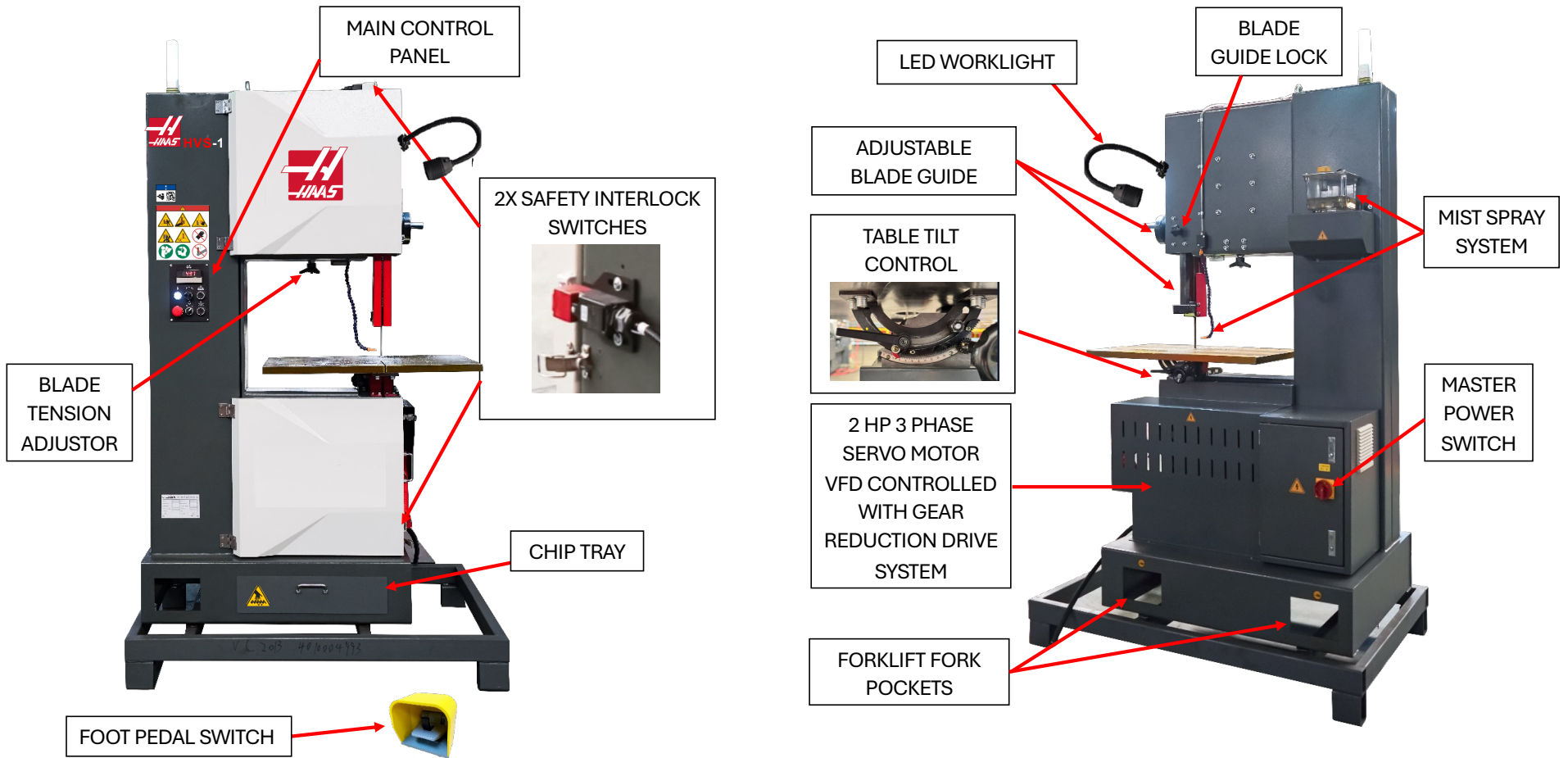


- HMS-3123

- Mitering horizontal band saw
- \$12,995
- July 1 price list (US/CA/MX)
- Q3 deliveries



# HVS-1



# HVS-1



## Cutting capacity

- Right 35° from 0°
- Left 15° from 0°
- 0° Height: 13" (330mm)
- 0° Width: 20" (510mm)

## Band Saw Blade Specification

- 154" x 0.35" x 1.1"
- (3912 x (9-27)mm)

## Cutting Speed

- 98-984 ft-min (30 – 300 m/min)

## Workbench Size

- 31.5" x 19.7" (800 x 500 mm)

## Main Drive Method

- Servomotor + Reducer

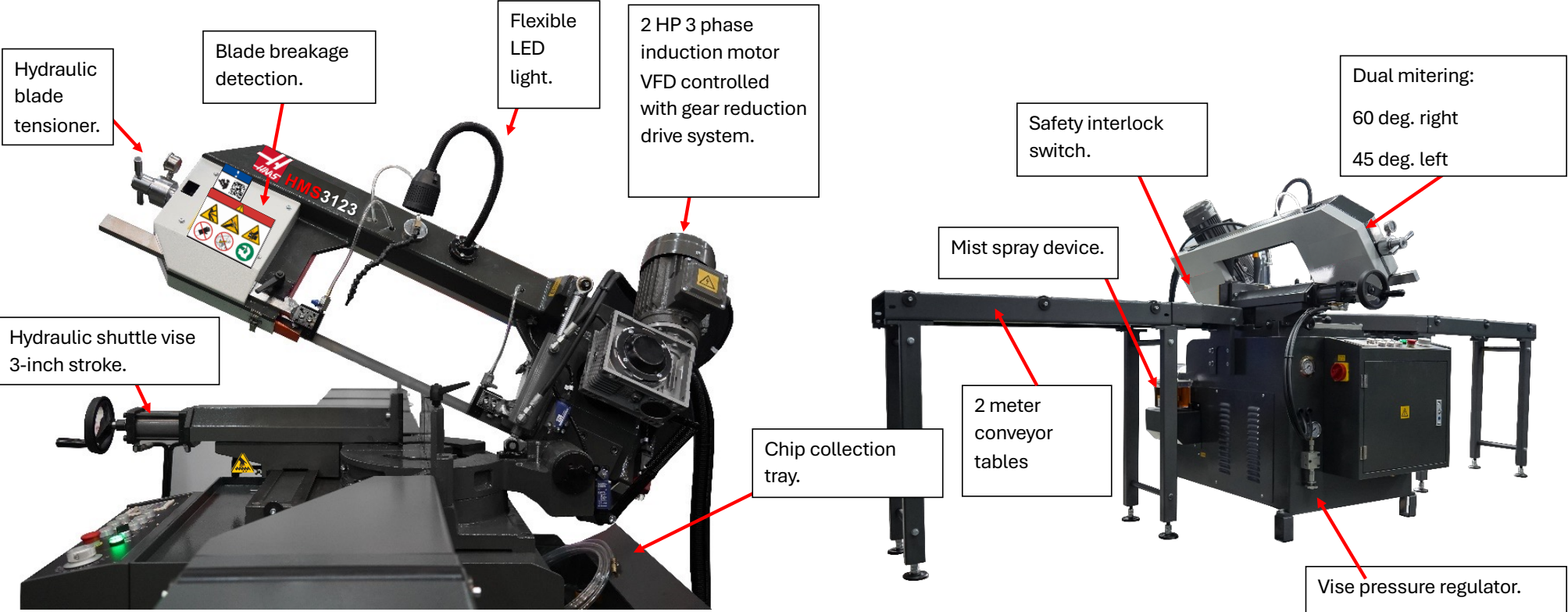
## Main Motor Power

- 2 hp (1.5 kW)
- Power Specifications:
- 220VAC, 3 Phase, 60 Hz, 9 FLA

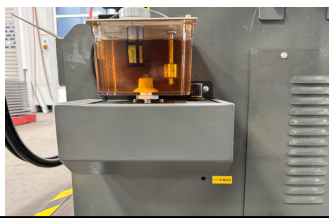
## Machine Weight

- 1168 lb (530 kg)

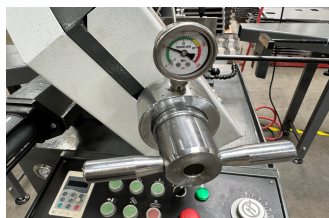
# HMS-3123



# HMS-3123



MIST SYSTEM



BLADE TENSION ADJUSTOR & GAUGE



MITER ANGLE ADJUSTMENT



BLADE CABINET SAFETY INTERLOCK



MASTER POWER SWITCH



MAIN CONTROL PANEL



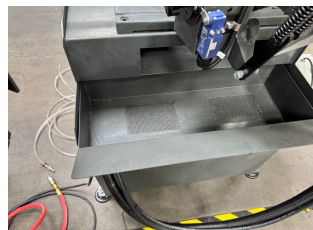
BLADE FEED & RETRACT LIMIT SWITCHES



HYDRAULIC SYSTEM REGULATOR & GAUGE



HYDRAULIC, SHORT-STROKE PART CLAMP



REMOVABLE CHIP BIN



ADJUSTABLE WORKPIECE HARD STOP

# HMS-3123



- Cut range @ 90°, round: Ø9" (Ø230mm)
- Cut range @ 90°, square (W x H): 12.2" x 9" (310 x 230mm)
- Cut range @ 45°, round: Ø8.3" (Ø210mm)
- Cut range @ 45°, square (W x H): 8.3" x 8.3" (210 x 210mm)
- Cut range @ 60°, round: Ø5.5" (Ø140mm)
- Cut range @ 60°, square (W x H): 5.5" x 5.5" (140 x 140mm)
- Saw blade dimensions: 114.6" x 1.06" x 0.03" (2910 x 27 x 0.9mm)
- Cutting speed (infinitely variable): 65.6 - 262.4 ft-min (20 - 80m-min)
- Saw feed speed: 0.04 – 11.8 in/min (1 – 300 mm/min)
- Saw motor power: 2 hp (1.5 kW)
- Hydraulic motor: 0.56 hp (0.42 kW)
- Total connected load: 2.8 hp (2.1 kW)
- Machine power: 220VAC, 60Hz, 3 Phase
- Total weight: 1102 lb (500 kg)

# CMM



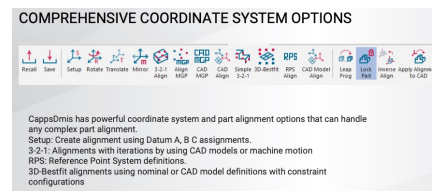
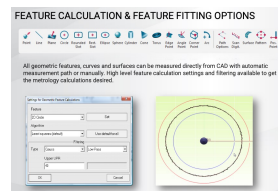
- HMM-430 Haas CMM

- Private labeled

- 400 x 430 x 350mm travels
- Renishaw linear scales 0.001mm (0.00004") all axes
- Renishaw MH20i probe and TP20 SF module
  - Servomotor driven
  - DIN 876 grade granite base
- Industry standard GeoCAD+ software
  - PC and 24" monitor included

- \$54,995

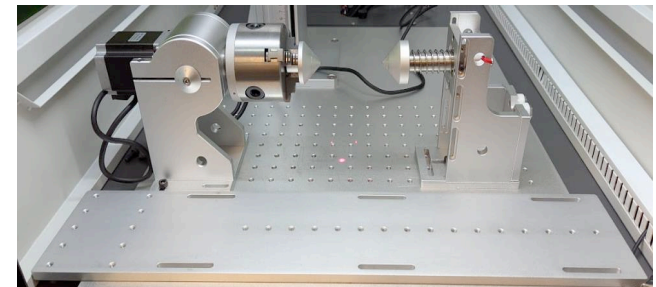
- 10 sold



# HL50E Laser Marker



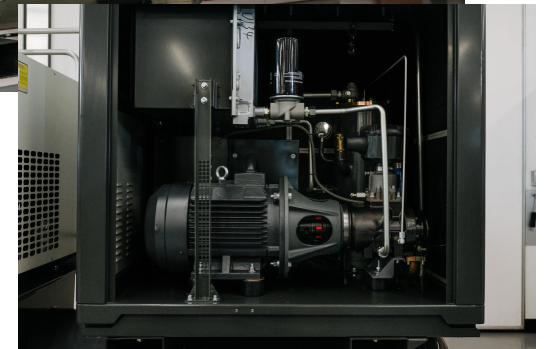
- Haas Laser Marker
  - Suitable for steel, alloy steel, stainless, brass, aluminum, iron, and some non-metal materials
  - 50W fiber laser, air-cooled
  - 50 x 50mm marking range
  - 105 sold
  - \$16,995.95
- 4<sup>th</sup> Axis option coming Aug 2025
  - Can be retrofitted
- 100+ on order
  - 20 in July
  - 30 in Aug



# Air Compressor



- Haas Air Compressor
  - Private labeled
  - Rotary screw compressor
  - 15 hp
  - Includes
    - Refrigerated Air Dryer
  - Low price of \$9,995.95
    - 106 variable speed sold
    - 25 fixed speed sold
  - Already expanding to add larger units



# More Air Compressors



## HAC15 – 15hp

CFM @ Working Pressure:

64 CFM @ 102 psi

57 CFM @ 116 psi

53 CFM @ 145 psi

46 CFM @ 174 psi

Noise dB: 64

Outlet Dia. G3/4"

Weight: 1015 lb (460 kg)

Dimensions (L x W x H):

41.34" x 27.17" x 42.52"

Power: 220VAC, 3 Phase, 60Hz

## HAC30 – 30hp

CFM @ Working Pressure:

131 CFM @ 102 psi

124 CFM @ 116 psi

110 CFM @ 145 psi

95 CFM @ 174 psi

Noise dB: 65

Outlet Dia. G1"

Weight: 1301 lb (590 kg)

Dimensions (L x W x H):

53.15" x 30.71" x 49.22"

Power: 220VAC, 3 Phase, 60Hz

## HAC50 – 50hp

CFM @ Working Pressure:

230 CFM @ 102 psi

219 CFM @ 116 psi

198 CFM @ 145 psi

173 CFM @ 174 psi

Noise dB: 68

Outlet Dia. G1-1/2"

Weight: 2205 lb (1000 kg)

Dimensions (L x W x H):

55.91" x 35.43" x 56.10"

Power: 220VAC, 3 Phase, 60Hz

New Models Due Q3-2025

# HAC30 – 30hp Compressor



- Larger version of 15hp compressore
- Integrated air tank

TANK MOUNTED,  
REFRIGERATED  
AIR DRYER



DIGITAL,  
TOUCH-SCREEN  
CONTROL  
PANEL

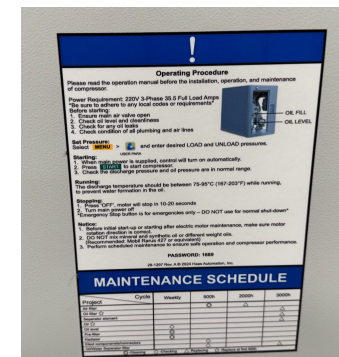
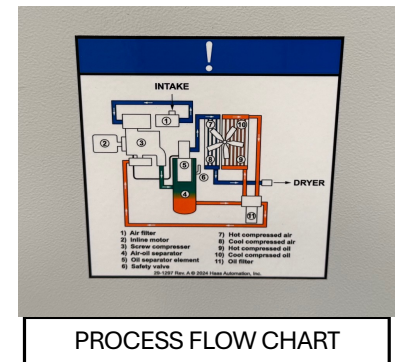
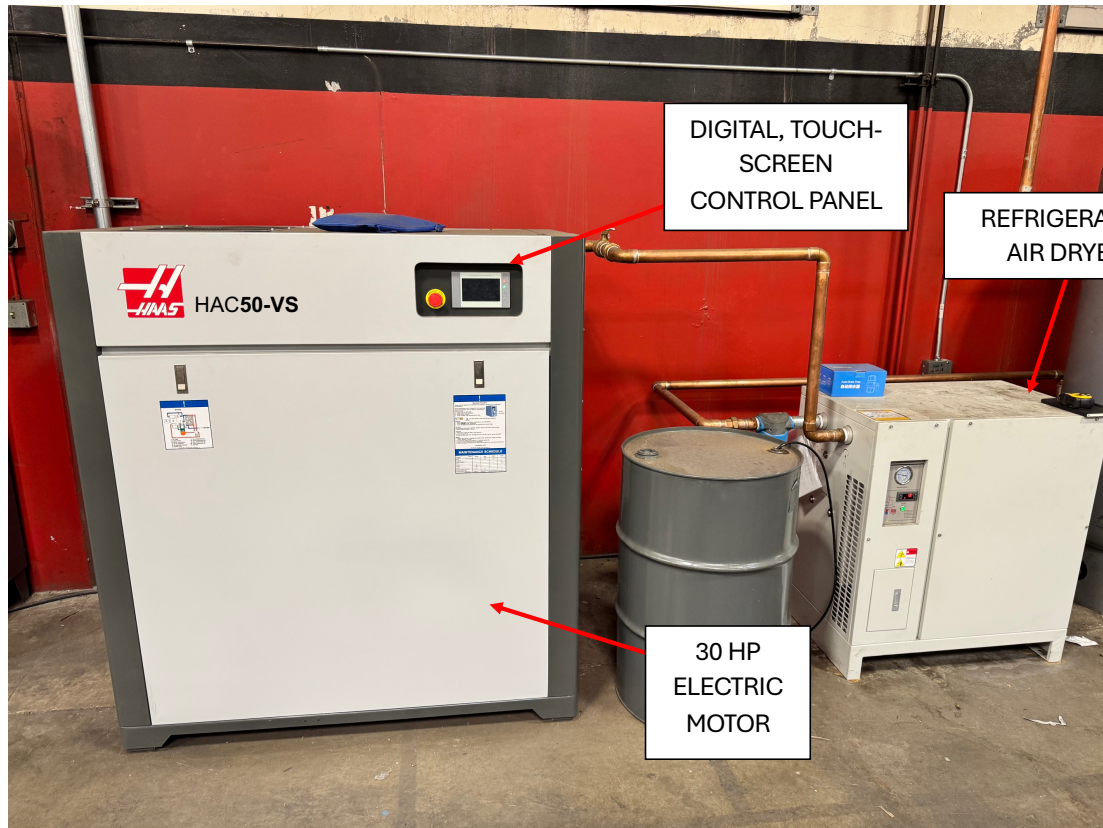


30 HP  
ELECTRIC  
MOTOR

# HAC50 – 50hp Compressor



- Separate air tank



# HTS600s (Larger Tool Presetters)



- HTS600 (400 x 600mm)
  - Tabletop
  - Pneumatic:
    - Axis Clamping
  - Interchangeable ISO/SK/BT 40, 50, HSK63a, HSK100
  - \$18,995.95
  - 3 sold
- HPTS600 (400 x 600mm)
  - Performance Model
  - Floor Unit
  - Pneumatic:
    - Pneumatic Tool Locking Mechanism Interlock System
    - Pneumatic Axis Clamping
    - Pneumatic Sleeve Rotation Brake Clamping
  - \$24,995.95
  - 4 sold
- HTS400
  - \$12,995.95
  - 223 sold



# Tool Presetters

- HTS400
  - General job shop unit for 40T
  - Bench top
- HTS600
  - Larger 40T tools
    - Diameter and length
  - Free standing
  - Higher tool count capacity
- HPTS600
  - 50T unit
  - Free standing
  - Highest tool count capacity

**Haas F1 Team**  
OFFICIAL MACHINE TOOL

## TOOL PRESETTERS

Haas Tool Presetters, designed to streamline your workflow, are the ultimate solution for maximizing efficiency and maintaining precision in your machining operations.

By eliminating the need for manual tool measuring, presetters allow tool offsets to be taken prior to each job, ultimately maximizing spindle time.

MACHINE SPECS	HTS400	HTS600	HPTS600
Max. X-Axis Travel	12.598" (320 mm)	15.748" (400 mm)	15.748" (400 mm)
Max. Z-Axis Travel	15.748" (400 mm)	23.622" (600 mm)	23.622" (600 mm)
Memory	5000 Tools / 50 Machine Origins	10,000 Tools / 100 Machine Origins	20,000 Tools / 200 Machine Origins
Standard Taper	40 Taper (Compatible with all sleeve options)	40 Taper (Compatible with all sleeve options)	50 Taper (Compatible with all sleeve options)
Additional Features	Table-top Unit (Table included)	Table-top Unit (Table included)	Stand-alone Unit
	Post processors for Haas + Non-Haas Machine tools.	Post processors for Haas + Non-Haas Machine tools.	Post processors for Haas + Non-Haas Machine tools.
	Dymo label maker / QR Code capabilities	Dymo label maker / QR Code capabilities	Dymo label maker / QR Code capabilities
	Data Matrix Scanner	Data Matrix Scanner	Data Matrix Scanner
		Pneumatic Axis Clamping	Pneumatic Axis Clamping
	Pneumatic Tool Interlocking System	Pneumatic Tool Interlocking System	
		Pneumatic Taper Sleeve Brake	

# Shrink Fit Machines

- HSF-325
  - Air cooled
  - Bench top unit
  - 12.8" gauge length
  - 456 sold
  - \$8,995
- HSF-450
  - Liquid cooled
    - 30 second cool down vs 10 min
  - Free standing unit
  - 17.7" gauge length
  - 58 sold
  - \$16,995



**SHRINK FIT SERIES**



**HSF-325**



**HSF-450**

<b>Tool Length Capability</b>	12.8"	17.7"
<b>Clamping Range</b>	Ø 0.394" - 1.25"	Ø 0.125" - 1.25"
<b>Cooling Time</b>	~ 10 Minutes <small>Shop Air attached to head</small>	~ 30 Seconds <small>Initial air-cooling \ Auto liquid-cooling</small>
<b>Heating Time</b>	~ 3-5 seconds <small>Induction heating head</small>	~ 4-14 seconds <small>Induction heating head</small>
<b>Standard Taper</b>	30, 40, 50, and HSK63A taper pots included	
<b>Power Supply</b>	220 AC 50	
<b>Air Pressure Req</b>	87 PSI \ 6 Bar	

**CURRENT PROMOS:**

- Buy 1 Shrink Fit machine get 10 free toolholders + pull studs
- Buy 1 Shrink Fit machine + Tool Presetter get 20 free toolholders + pull studs



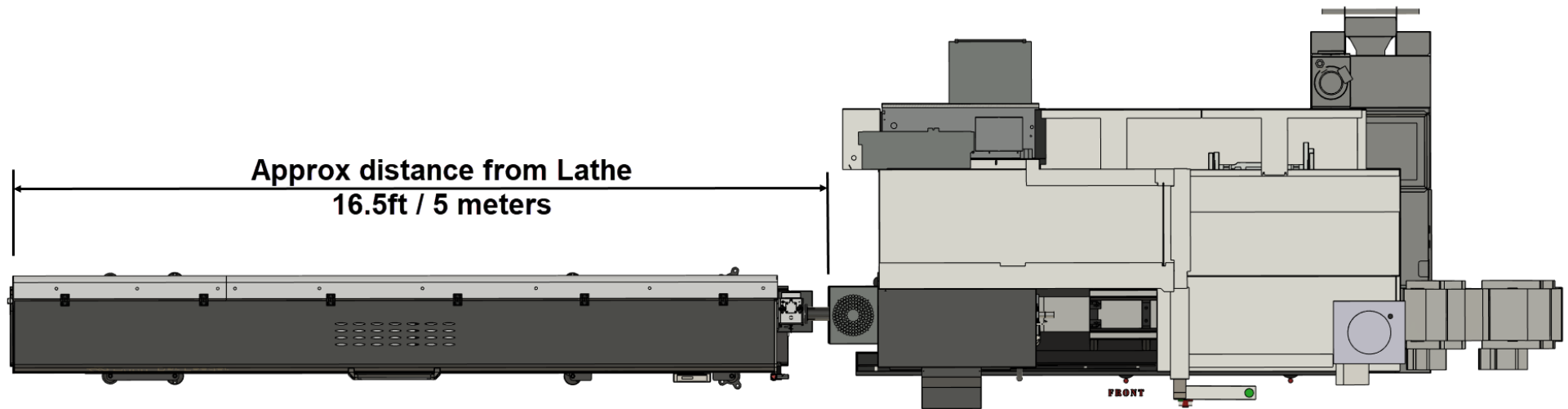
# Haas Bar Feeder 12



- 12' bar capacity
- 20mm Pusher .25" - .625" diam. bars
- 56mm Pusher .75 - 2.0" diam. Bars
- July 1 price list
  - US/CA/MX
- \$29,995
- Late Q3 delivery



# Haas DS-30Y with Bar Feeder



# Haas Bar Feeder 12

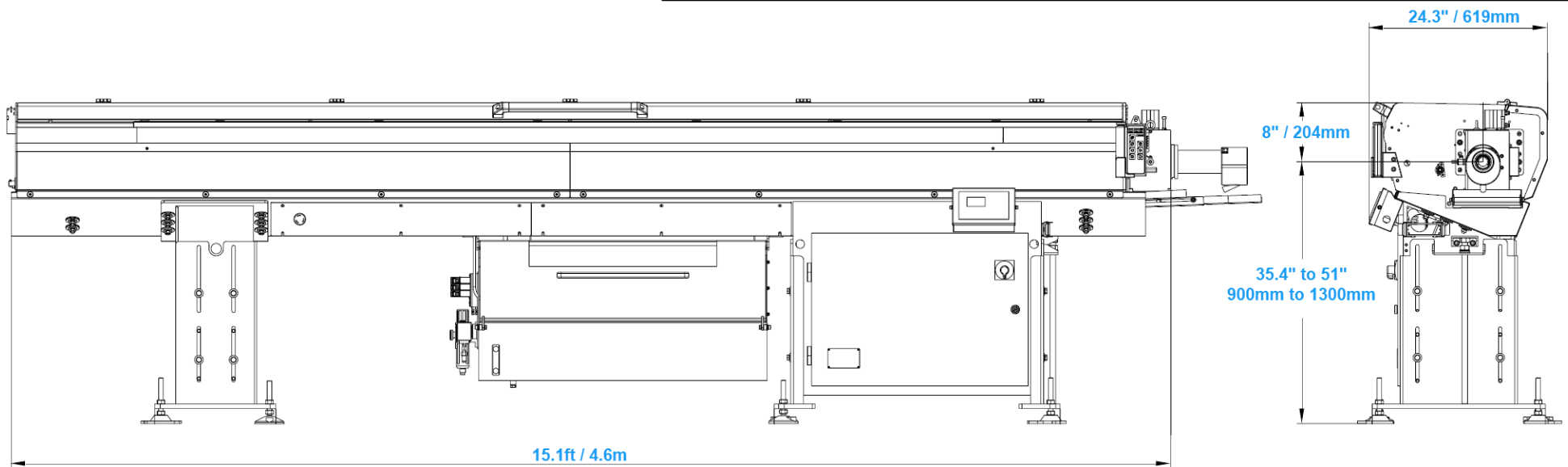


## Bar Loading Capacity

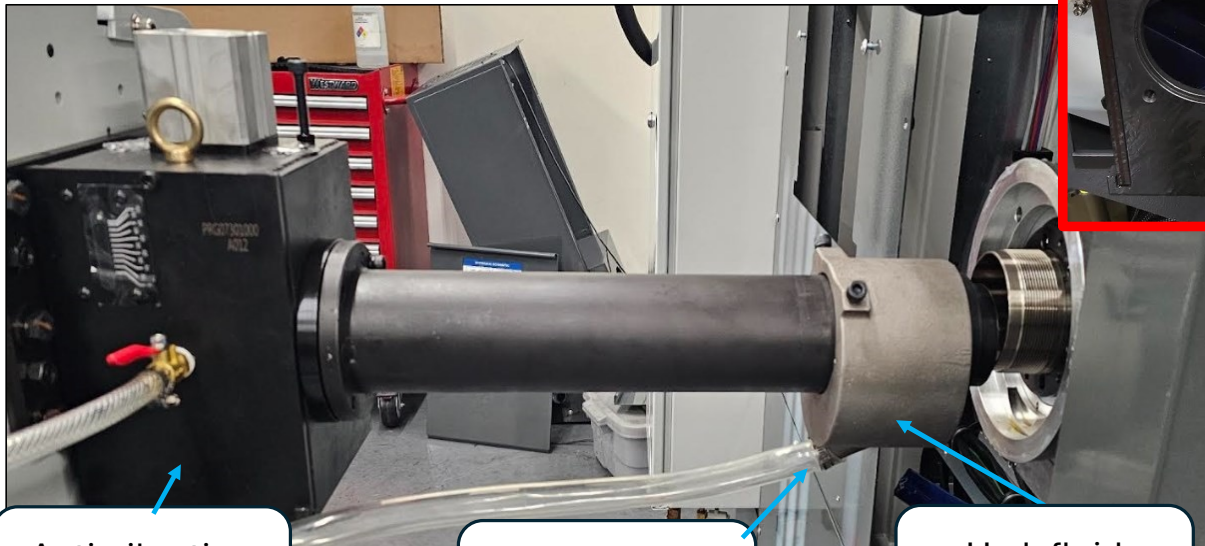
- Minimum Bar Diameter: 3/8" (10mm)
- Maximum Bar Diameter: 2.0" (51mm)
- Shortest Bar for DS-30Y: 62" (1575mm)
- Longest Bar: 149" (3800mm)

## Other Specs

- Max Speed: 6,000 rpm
- Bar Magazine Length: 10.26" (260mm)
- No of Bars Capacity Inch:  $10.26 \div \text{Bar diameter}$  (i.e 5 bars for 2.0" bar)
- No of Bars Capacity Metric:  $260 \div \text{Bar Diameter}$  (i.e 26 bars for 10mm bar)



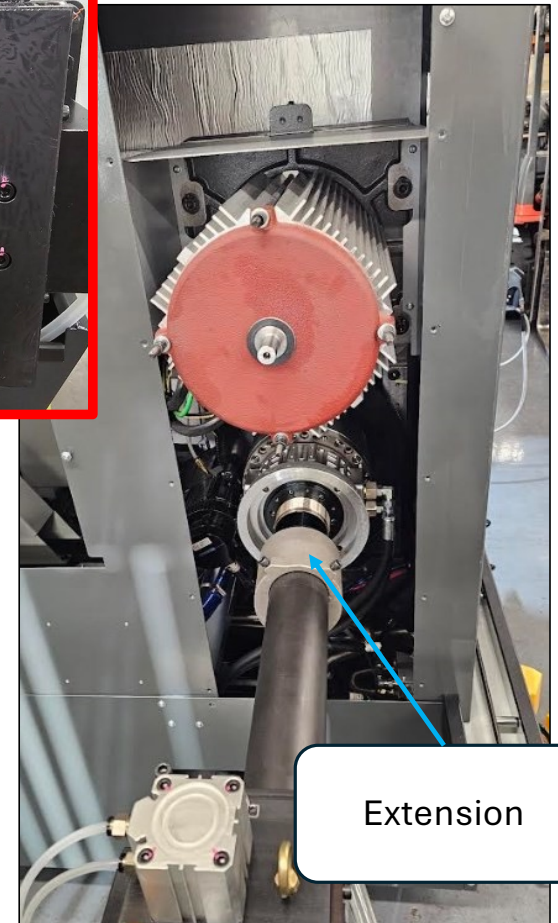
# Haas Bar Feeder 12



Anti-vibration  
device

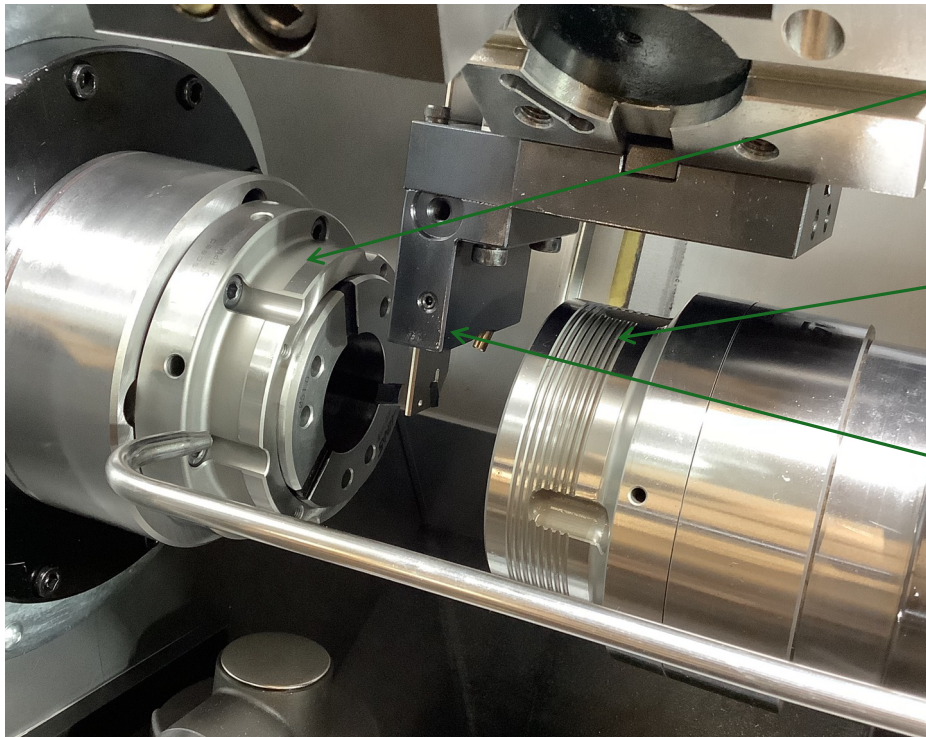
Hyd. fluid  
Return

Hyd. fluid  
collector



Extension

# New Collet Closers



- New Products: Pull back quick-change collet chucks for main spindles on all ST Lathes up to ST-35
- New Products: Dead length quick-change collet chucks for all main and sub spindles/finishing spindles on all ST lathes up to ST-35
- Chuck used, #05-0331  
[https://www.haascnc.com/haas-tooling/lathe\\_workholding/quick\\_change\\_collet\\_/05-0332.html](https://www.haascnc.com/haas-tooling/lathe_workholding/quick_change_collet_/05-0332.html)  
Collet used, #05-0516  
[https://www.haascnc.com/haas-tooling/lathe\\_workholding/quick\\_change\\_collets/05-0516.html](https://www.haascnc.com/haas-tooling/lathe_workholding/quick_change_collets/05-0516.html)

# HFL-3015



- 3kW Fiber laser
- 3m x 1.5m (10' x 5')
- Pallet changer
- Installed first unit at Haas Sheet Metal Feb 2025
- On hold, but committed to adding a sheet metal line up
  - Laser
  - Brake
  - Punch, maybe



# Software



# Syntax Highlighting



- Syntax highlighting is a feature that colors and styles code, making it easier to read and understand. It's a common feature in text editors, code editors, and online platforms that display code.

## BEFORE

```
N120 (END TOOL LIST)
N122 G21
N124 G0 G17 G40 G49 G80 G90
N126 (12MM BULL ENDMILL 3MM RAD TOOL 1)
N128 (ROUGH FIRST LEVEL)
N130 T1 M6
N132 G0 G90 G54 X-81.915 Y20.744 S4000 M3
N134 G43 H1 Z25.4 T3
N136 M83
N138 Z2.54
```

## AFTER

```
N120 (END TOOL LIST)
N122 G21
N124 G0 G17 G40 G49 G80 G90
N126 (12MM BULL ENDMILL 3MM RAD TOOL 1)
N128 (ROUGH FIRST LEVEL)
N130 T1 M6
N132 G0 G90 G54 X-81.915 Y20.744 S4000 M3
N134 G43 H1 Z25.4 T3
N136 M83
N138 Z2.54
```

- **Purpose:**

Syntax highlighting helps distinguish different parts of the code, such as G & M Codes, Axis variables, Macros, and comments, using various colors and fonts.

- **How it works:**

The editor will identify the various elements of the G code program and apply the appropriate styles.

- **Benefits:**

It improves readability, helps identify errors, and makes code easier to navigate.

# ECO Mode



MDI N0

Settings

Eco Settings   Eco Data

#	Name	Eco Value	Value	Unit
1	Auto Power Off Timer	30	0	Min
2	Power Off At M30	On		Off
196	Conveyor Shutoff	10		30 Min
197	Coolant Shutoff	1		5 Min
199	Display Off Timer	5		30 Min
216	Servo And Hydraulic Shutoff	5		5900 Sec
238	High Intensity Light Timer	5		10 Min
239	Worklight Off Timer	5		0 Min
267	Exit Jog Mode After Idle Time	5		30 Min

Range: 0.000 to 7200.000 ORIGIN Restore default settings menu.

**1 - Auto Power Off Timer**

This setting is used to automatically power-down the machine after a period of idle time. The value entered in this setting is the number of minutes the machine remains idle until it is powered down. The machine does not power down while a program is running, and the time (number of minutes) starts back at zero anytime a button is pressed or the [HANDLE]JOG control is used. The auto-off sequence gives the operator a 15-second warning before power down, at which time pressing any button stops the power down.

Electricity Price Per kWh: 0.50

Incoming AC Voltage: 240 V

Live Power Factor: 0.60

Energy Usage this Month: 140 KWh

Live Usage:  87 KW

F2 Enable Eco Mode
HELP To read full description

Active Tool

Tool: 1  
Offset: 1  
Type: None  
Tool Group: --  
Max Load: 0  
Life: 100%

---

Active Codes

G00 Rapid Motion  
G90 Absolute Position  
G40 Cutter Compensation Cancel  
G80 Cycle Cancel  
G54 Work Offset #54

D00   H00   M00   T0

---

Timers And Counters

This Cycle: 0:00:00  
Last Cycle: 0:00:00  
Remaining: 0:00:00  
M30 Counter #1: 0  
M30 Counter #2: 0  
Loops Remaining: 0

---

Favorites

Main Spindle

Spindle Speed: 0 RPM  
Spindle Power: 0.0 KW  
Surface Speed: 0 FPM

Chip Load: 0.000 IPT  
Feed: 100% Feed Rate: 0.0000 IPM  
Spindle: 100% Active Feed: 0.0000 IPM  
Rapid: 100%

Load 0%

Temp 32°F

Coolant 0%

Setup
Power Save

Positions

(IN)   Work G54 G43 H1   Distance To Go   Load

X	0.0000	0.0000	0%
Y	0.0000	0.0000	0%
Z	0.0000	0.0000	0%
B	0.000	0.000	0%
C	0.000	0.000	0%

SDEV: |

| 07:58:00

# ECO Mode



Zero Place holder file.nc N0

[Place holder file];

Settings

Settings | Network | Rotary | User Positions | Alias Codes | Eco Mode

Eco Settings | **Eco Data**

Live [1] | Day [2] | Month [3]

Electricity Price Per kWh	0.50
Incoming AC Voltage	240 V
Live Power Factor	0.60

Average Energy Usage	13 KW
Total Energy Usage	83KW/H

F2 Display Price Graph  
F3 Export Data

Active Tool

Tool: 1  
Offset: 1  
Type: None  
Tool Group: --  
Max Load: 0  
Life: 100%

---

Active Codes

G00 Rapid Motion  
G90 Absolute Position  
G40 Cutter Compensation Cancel  
G80 Cycle Cancel  
G54 Work Offset #54

D00 H00 M00 T0

---

Timers And Counters

This Cycle: 0:00:00  
Last Cycle: 0:00:00  
Remaining: 0:00:00  
M30 Counter #1: 0  
M30 Counter #2: 0  
Loops Remaining: 0

---

Favorites

Safe Run: Activate  
User Positions  
S32: Coolant Override

Calculator: Milling

Main Spindle

**STOP**

Spindle Speed: 0 RPM  
Spindle Power: 0.0 KW  
Surface Speed: 0 FPM  
Chip Load: 0.000 IPT  
Feed: 100% Feed Rate: 0.0000 IPM  
Spindle: 100% Active Feed: 0.0000 IPM  
Rapid: 100%

Load 0%

Temp 32°F

Coolant 0%

Setup Power Save

Positions

(IN)	Work G54 G43 H1	Distance To Go	Load
X	0.0000	0.0000	0%
Y	0.0000	0.0000	0%
Z	0.0000	0.0000	0%
B	0.000	0.000	0%
C	0.000	0.000	0%

SDEV: \_\_\_\_\_

13:46:24

# ECO Mode



Zero Place holder file.nc N0

(Place holder file);

Settings

Settings | Network | Rotary | User Positions | Alias Codes | Eco Mode

Eco Settings | **Eco Data**

Live [1] | Day [2] | Month [3]

Day	Usage (kWh)
6	45
7	125
8	135
9	75
10	100
11	70
12	95
13	95
14	10
15	65
16	110
17	100
18	125
19	170
20	140
21	45

Electricity Price Per kWh	0.50
Incoming AC Voltage	240 V
Live Power Factor	0.60

Average Energy Usage	106 KW/H
Total Energy Usage	488 KW/H

**F2** Display Price Graph

**F3** Export Data

Active Tool

Tool: 1  
Offset: 1  
Type: None  
Tool Group: --  
Max Load: 0  
Life: 100%

---

Active Codes

G00 Rapid Motion  
G90 Absolute Position  
G40 Cutter Compensation Cancel  
G80 Cycle Cancel  
G54 Work Offset #54

D00 H00 M00 T0

---

Timers And Counters

This Cycle: 0:00:00  
Last Cycle: 0:00:00  
Remaining: 0:00:00  
M30 Counter #1: 0  
M30 Counter #2: 0  
Loops Remaining: 0

---

Favorites

Safe Run: Activate  
User Positions  
S32: Coolant Override  
Calculator: Milling

Main Spindle

**STOP**

Spindle Speed: 0 RPM  
Spindle Power: 0.0 KW  
Surface Speed: 0 FPM  
Chip Load: 0.000 IPT  
Feed: 100% Feed Rate: 0.0000 IPM  
Spindle: 100% Active Feed: 0.0000 IPM  
Rapid: 100%

Load 0% | Temp 32°F | Coolant 0%

Setup | Power Save

Positions

(IN) Work G54 G43 H1 Distance To Go Load

X	0.0000	0.0000	0%
Y	0.0000	0.0000	0%
Z	0.0000	0.0000	0%
B	0.000	0.000	0%
C	0.000	0.000	0%

SDEV: |
13:36:22

# ECO Mode



Zero Place holder file.nc N0

(Place holder file);

Settings

Settings Network Rotary User Positions Alias Codes Eco Mode

Eco Settings Eco Data

Live [1] Day [2] Month [3]

Month	Usage (kWh)
Oct	~1600
Nov	~1650
Dec	~1550
Jan	~1550
Feb	~1650
Mar	~1600
Apr	~1650

Electricity Price Per kWh: 0.50

Incoming AC Voltage: 240 V

Live Power Factor: 0.80

Average Energy Usage: 1723 KW/H

Total Energy Usage: 12,061 KW/H

F2 Display Price Graph

F3 Export Data

Active Tool

Tool: 1  
Offset: 1  
Type: None  
Tool Group: --  
Max Load: 0  
Life: 100%

Active Codes

G00 Rapid Motion  
G90 Absolute Position  
G40 Cutter Compensation Cancel  
G80 Cycle Cancel  
G54 Work Offset #54

D00 H00 M00 T0

Timers And Counters

This Cycle: 0:00:00  
Last Cycle: 0:00:00  
Remaining: 0:00:00  
M30 Counter #1: 0  
M30 Counter #2: 0  
Loops Remaining: 0

Favorites

Safe Run: Activate  
User Positions  
S32: Coolant Override  
Calculator: Milling

Main Spindle

**STOP**

Spindle Speed: 0 RPM  
Spindle Power: 0.0 KW  
Surface Speed: 0 FPM

Overrides  
Chip Load: 0.000 IPT  
Feed: 100% Feed Rate: 0.0000 IPM  
Spindle: 100% Active Feed: 0.0000 IPM  
Rapid: 100%

Load 0% Temp 32°F Coolant 0%

Setup Power Save

Positions

(IN) Work G54 G43 H1 Distance To Go Load

Axis	Position	Distance To Go	Load
X	0.0000	0.0000	0%
Y	0.0000	0.0000	0%
Z	0.0000	0.0000	0%
B	0.000	0.000	0%
C	0.000	0.000	0%

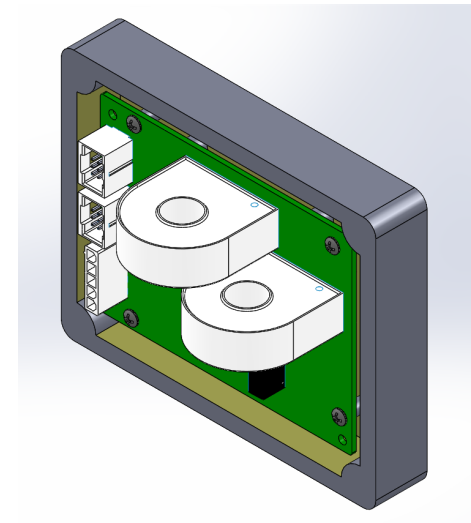
SDEV: |

13:36:56

# ECO Mode



- Current plan
- ECO Mode
  - Include as standard feature
  - Power consumption based on estimates
  - Q3-2205
- ECO Mode Plus
  - Optional
  - Includes power measuring module
  - Provides real time and more accurate power consumption
  - Reporting via HaasConnect
  - Q4-2025



# Final Thoughts

# Final Thoughts



- Make the calls
- Sell Haas value
- Use the 'More Than' approach
- Make an offer that a customer can't refuse
- Blind quote, don't wait for them to ask
- Ask for the order



---

**ABC**  
**ALWAYS BE**  
**CLOSING**

---