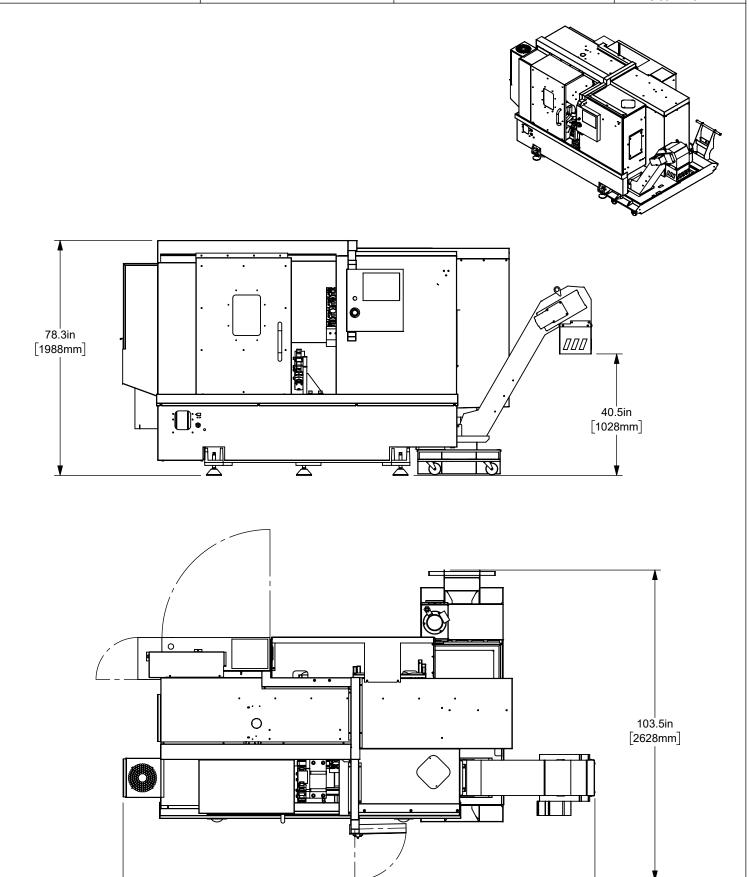
Machine Layout Drawing

ST-28/28Y

Installation Dimensions

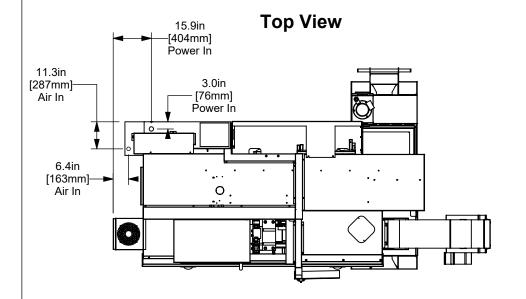
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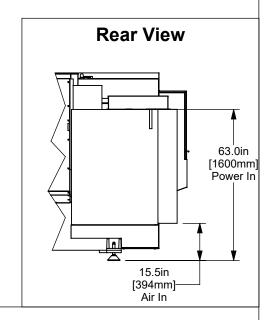


157.3in [3994mm]

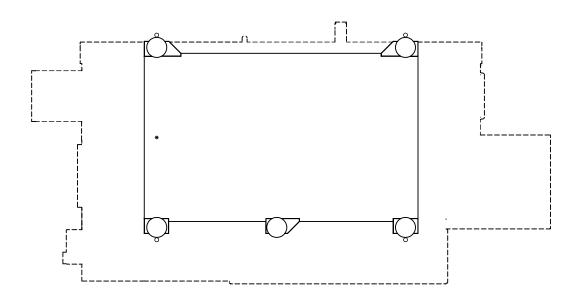
All dimensions based on stackup of sheetmetal, subject to variation of 1/2" (13 mm)

Air & Power





Anchor Pattern



Anchor Pattern Provided with Purchase of Haas Anchoring Kit

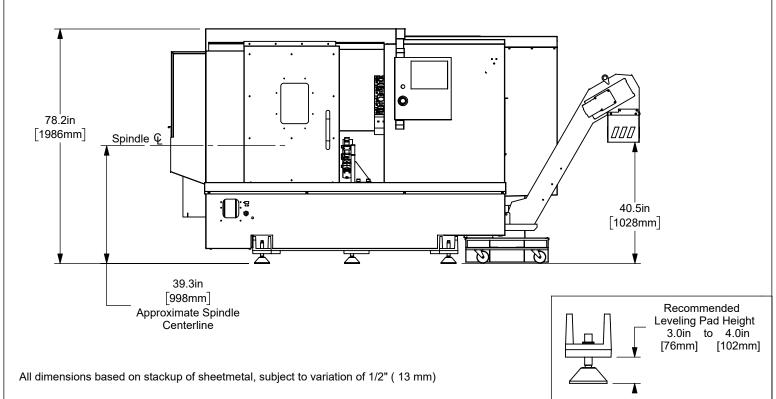
Machine Layout Drawing

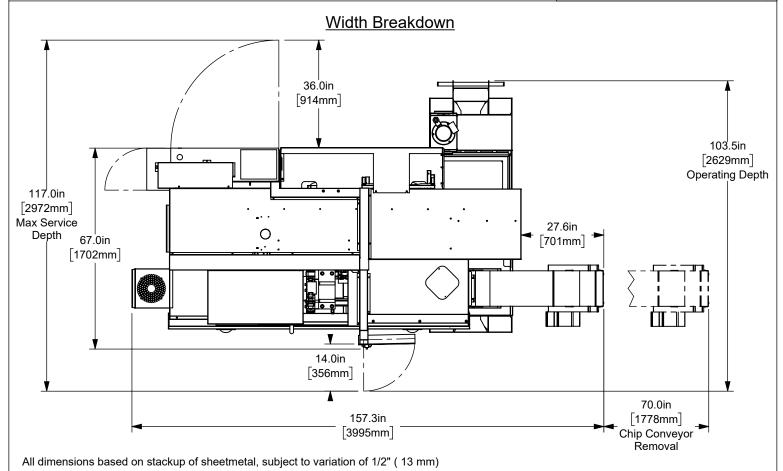
ST-28/28Y

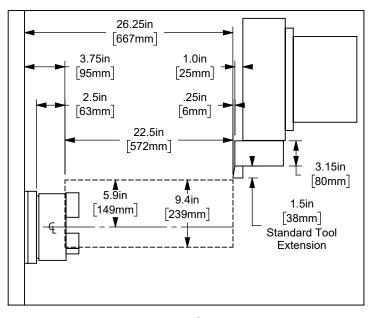
Breakdowns

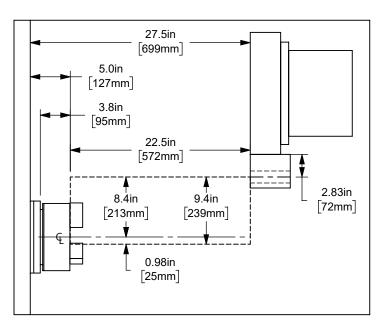
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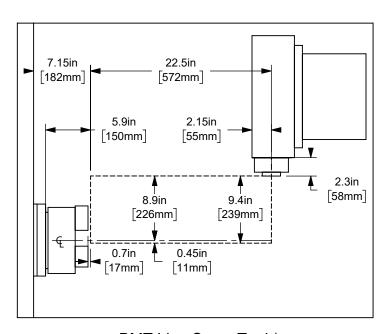




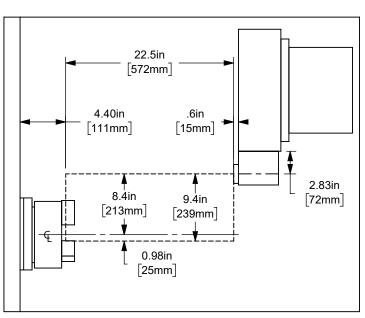


BMT OD

BMT ID / Drill / Bore **

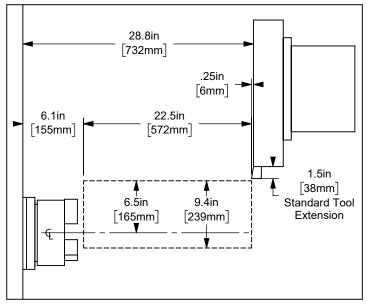


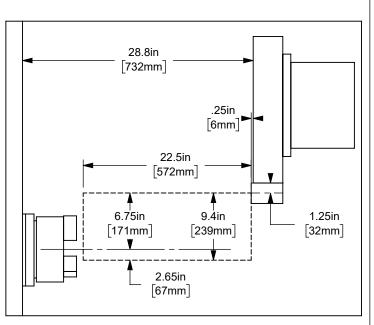
BMT Live Cross Tool *



BMT Live Face Tool **

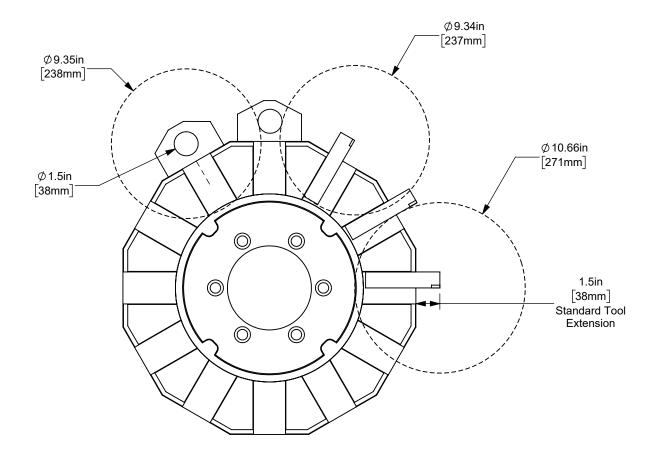
- * Shift the work envelope in X by the tool protrustion length
- ** Shift the work envelope in Z by the tool protrustion length



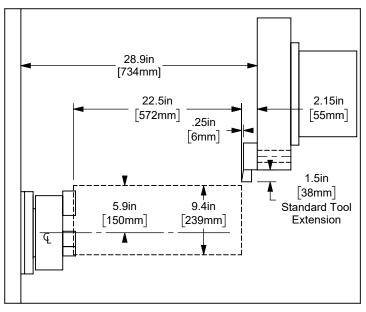


BOT OD*

BOT ID / Drill / Bore */**



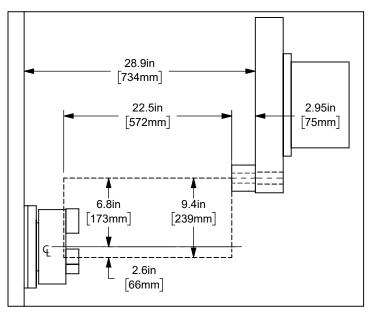
- * Shift the work envelope in X by the tool protrustion length
- ** Shift the work envelope in Z by the tool protrustion length



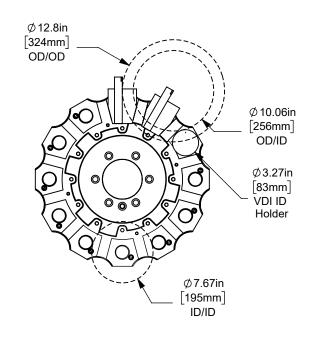
22.5in [572mm] .25in [55mm] .25

VDI OD Short*

VDI OD Long*

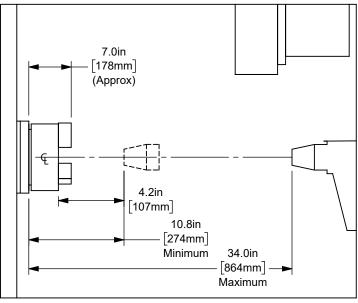


VDI ID */**



- * Shift the work envelope in X by the tool protrustion length
- ** Shift the work envelope in Z by the tool protrustion length

VDI Max Swing Ø 28.0in [711mm]



7.5in
[191mm]
(Approximate)

18.5in
[470mm]

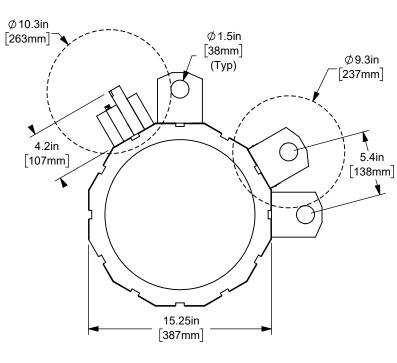
4.0in
[102mm]

Chuck Face to Chuck Face (Approximate)

38.5in
[978mm]
Spindle Face to Spindle Face (Approximate)

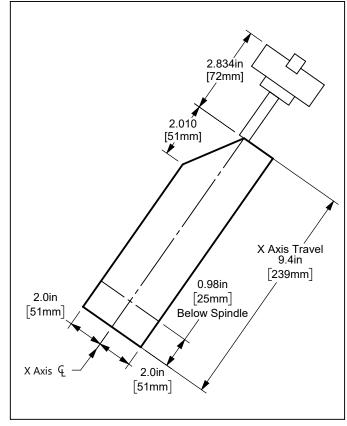
Tailstock Option

Sub Spindle Option



BMT65 Basic Tool Clearance

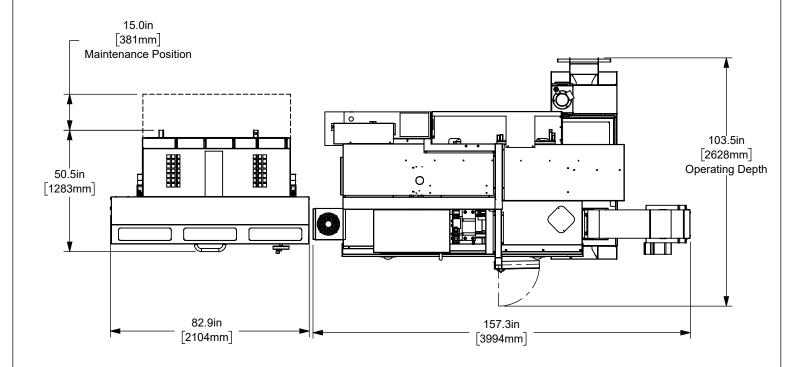
Maximum Turret Swing Ø 32.0in [889mm]

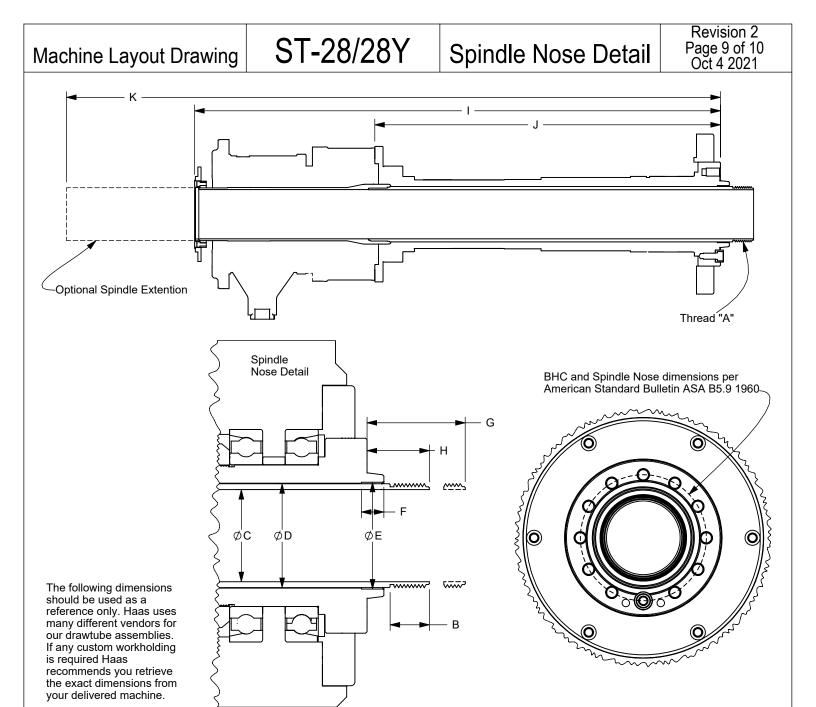


Y Axis Travel Envelope

Same Dimensions Apply To 90° Live Face Tool

Bar Feeder Layout





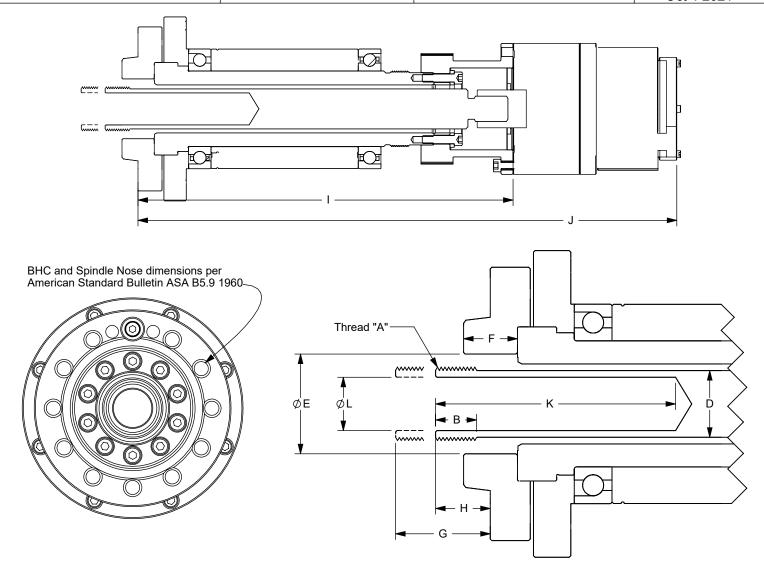
ST-28/28Y				
		ST-28/Y		
DESCRIPTION	DIMENSION	SAE	METRIC	
MAIN OR SUB SPINDLE & TYPE		Main / A2-8		
DIAMETER OF THREAD	Α	4.528"	115.0 MM	
THREAD PITCH	Α	0.079"	2.0 MM	
INTERNAL OR EXTERNAL	Α	External		
LENGTH OF THREAD	В	1.38"	35.1 MM	
DRAWTUBE INTERNAL DIAMETER	С	4.23"	107.4 MM	
DRAWTUBE EXTERNAL DIAMETER	D	4.56"	115.8 MM	
COUNTERBORE INTERNAL DIAMETER	E	4.625"	117.4 MM	
COUNTERBORE DEPTH	F	N/A	N/A	
DRAWTUBE EXTENDED	G	2.60"	66.0 MM	
DRAWTUBE RETRACTED	Н	1.23"	31.2MM	
SPINDLE FACE TO BACK OF UNION	I	33.0"	838.2 MM	
SPINDLE FACE TO UNION ADAPTOR	J	23.5"	596.9 MM	
TO BACK OF EXTENTION (OPTION)	K	N/A	N/A	

Machine Layout Drawing

ST-28/28Y

SS Nose Detail

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The following dimensions should be used as a reference only. Haas uses many different vendors for our drawtube assemblies. If any custom workholding is required Haas recommends you retrieve the exact dimensions from your delivered machine.

SUB-SPDL-A2-5 for ST-10 to ST-28/L/Y/LY				
DESCRIPTION	DIMENSION	SAE	METRIC	
MAIN OR SUB SPINDLE & TYPE		Sub-Spindle / A2-5		
DIAMETER OF THREAD	Α	1.378"	35 MM* or 40 MM	
THREAD PITCH	Α	0.059"	1.5 MM	
INTERNAL OR EXTERNAL	Α	External		
LENGTH OF THREAD	В	0.50"	12.7 MM	
DRAWTUBE INNER DIAMETER	С	N/A - SOLID DRAWBAR		
DRAWTUBE OUTER DIAMETEER	D	1.25"	31.75 MM	
COUNTERBORE INNER DIAMETER	E	1.870"	47.5 MM	
COUNTERBORE DEPTH	F	1.01"	25.65 MM	
EXTENDED DISTANCE TO NOSE	G	1.452"	36.88 MM	
RETRACTED DISTANCE TO NOSE	Н	0.94"	23.88 MM	
FROM SPINDLE FACE TO BACK OF UNION	I	11.72	297.7 MM	
FROM SPINDLE FACE TO UNION ADAPTOR	J	16.84	427.7MM	
EJECTOR POCKET DEPTH	K	4.5"	114.3 MM	
EJECTOR POCKET DIAMETER	L	1.0"	25.4 MM	
*M35 applies to Sub-Spindles made after July 2019 - M40 applies to older vintages				