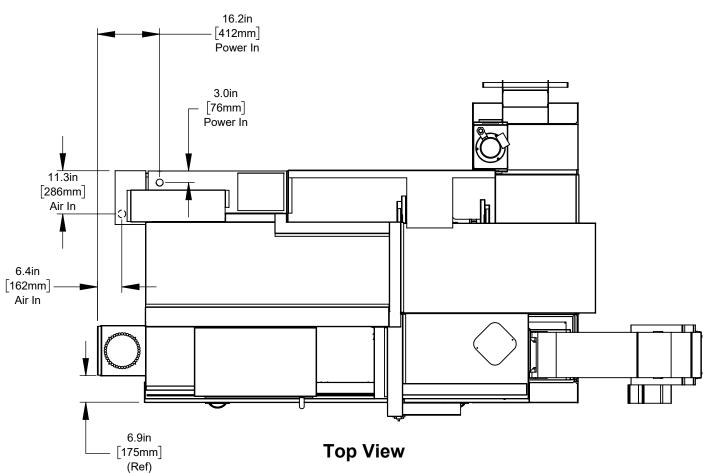
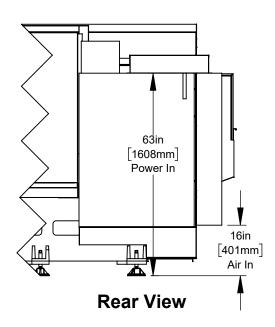


All dimensions based on stackup of sheetmetal, subject to variation of 1/2" (13 mm)

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

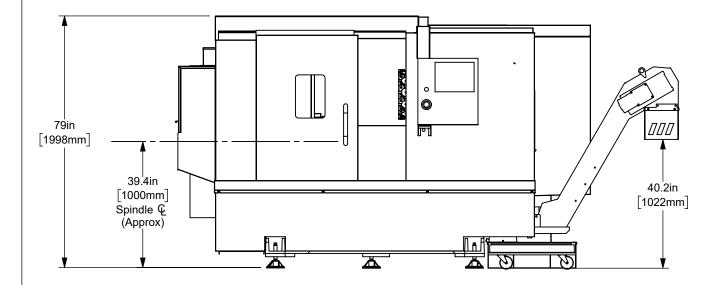
Machine Layout Drawing

ST-20/25

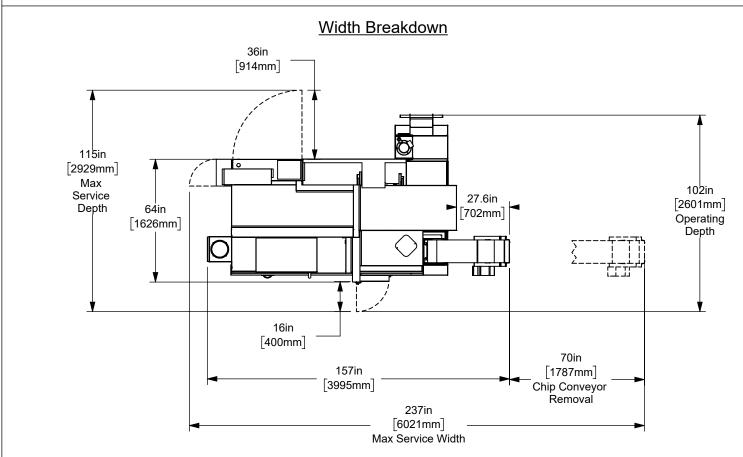
Breakdowns

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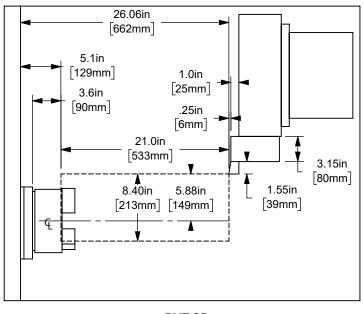
Height Breakdown



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

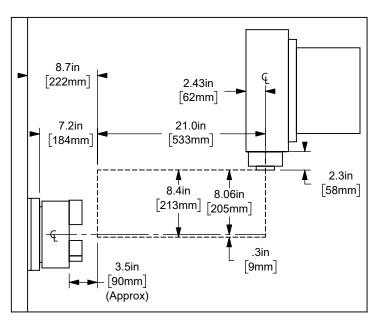


All dimensions based on stackup of sheetmetal, subject to variation of 1/2" (13 mm)



BMT OD

BMT ID / Drill / Bore **

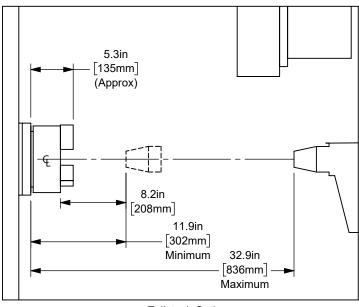


5.7in [145mm] 4.2in .6in 107mm [15mm] 21.0in [533mm] 2.835in 8.4in 7.60in [72mm] [213mm] [193mm] Ę .80in [20mm]

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



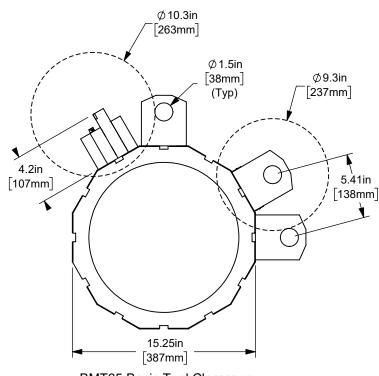
5.3in
[135mm]
(Approx)

19.3in
[489mm]

32.41in
[823mm]
Chuck Face to Chuck Face (Approx)
38.79in
[985mm]
Spindle Face to Spindle Face

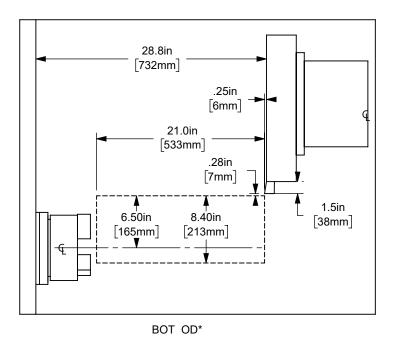
Tailstock Option

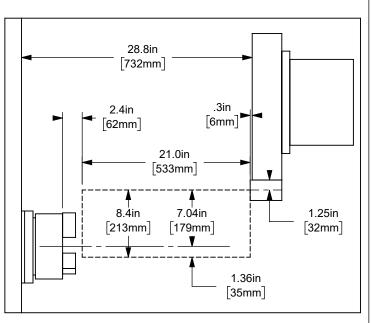
Sub Spindle Option



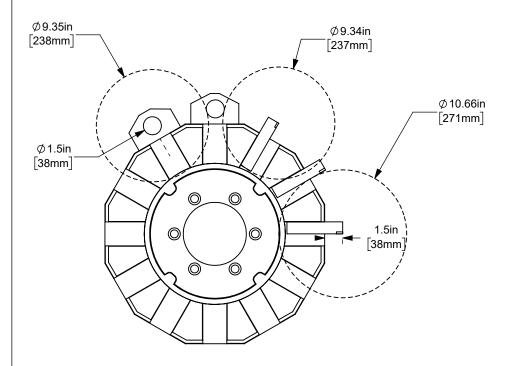
BMT65 Basic Tool Clearance

Maximum Turret Swing Ø 32.0in [889mm]

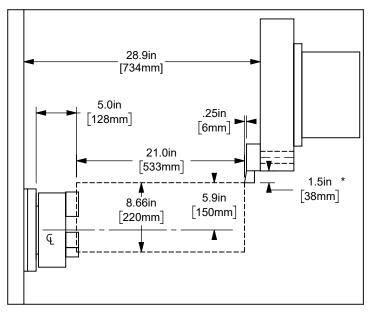


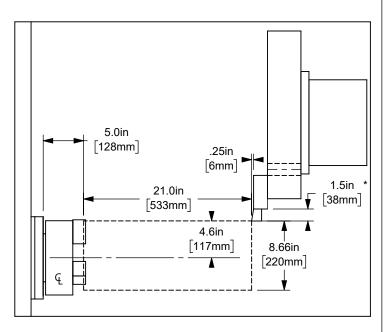


BOT ID / Drill / Bore */**



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





VDI OD Short*

28.9in
[734mm]

3.4in
[87mm]

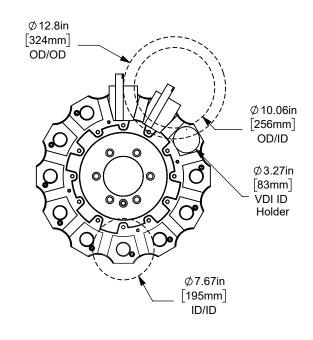
21.0in
[533mm]

8.66in
8.58in
[220mm]
[218mm]

.08in
[2mm]

VDI ID */**

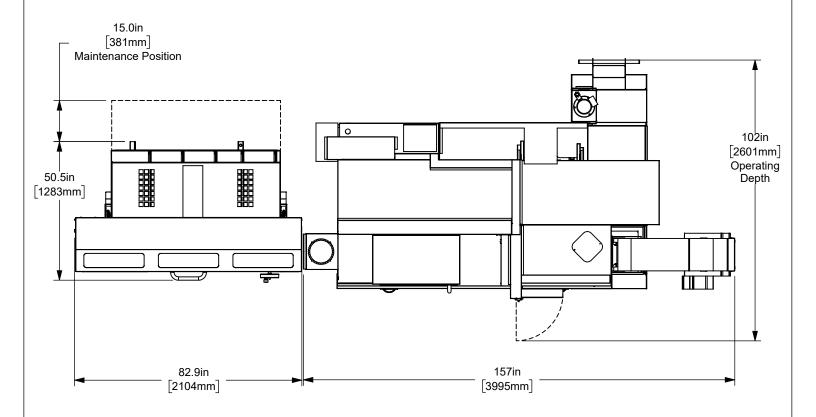
VDI OD Long*

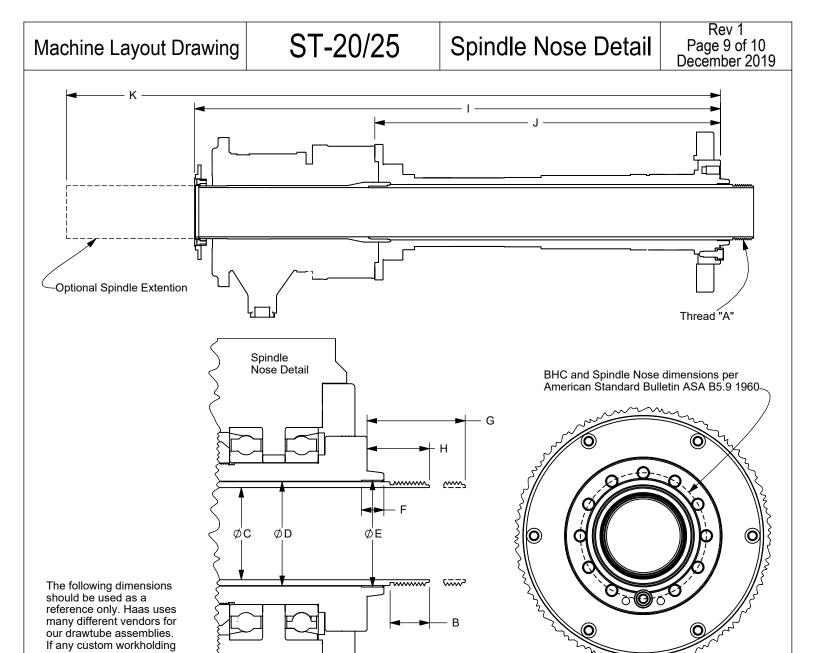


- * Shift the work envelope in X by the tool protrustion length
- ** Shift the work envelope in Z by the tool protrustion length

VDI Max Swing Ø 28.0in [711mm]

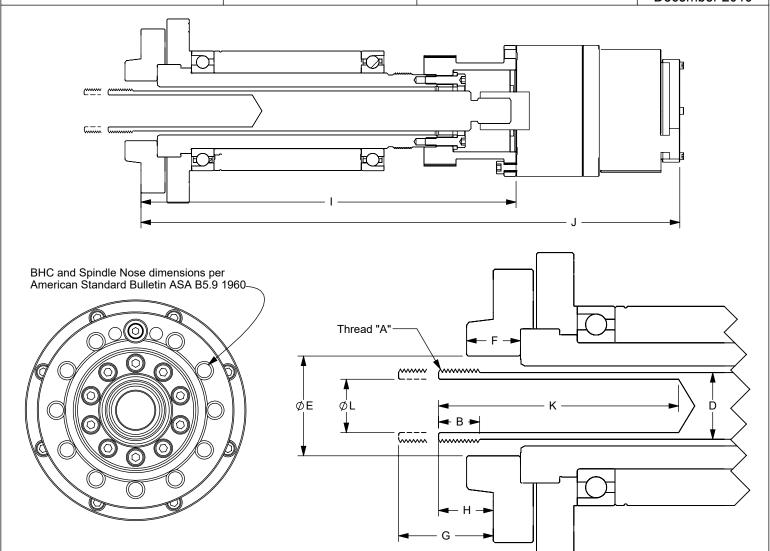
Bar Feeder Layout





ST-20/25/Y Reboot Spindle Schematic (For ST-20/Y built after May 2019 and all vintage ST-25/Y)								
		ST-20/Y		ST-25/Y				
DESCRIPTION	DIMENSION	SAE	METRIC	SAE	METRIC			
MAIN OR SUB SPINDLE & TYPE		Main / A2-6		Main / A2-6				
DIAMETER OF THREAD	Α	2.953"	75 MM	3.346"	85 MM			
THREAD PITCH	Α	0.0787"	2.0 MM	0.0787"	2.0 MM			
INTERNAL OR EXTERNAL	Α	External		External				
LENGTH OF THREAD	В	1.360"	34.5 MM	1.43"	36.3 MM			
DRAWTUBE INTERNAL DIAMETER	С	2.560"	65 MM	3.06"	77.7 MM			
DRAWTUBE EXTERNAL DIAMETER	D	2.960"	75.18 MM	3.50"	88.9 MM			
COUNTERBORE INTERNAL DIAMETER	E	3.560"	90.4 MM	3.560"	90.4 MM			
COUNTERBORE DEPTH	F	0.750"	19.05 MM	0.750"	19.05 MM			
DRAWTUBE EXTENDED	G	2.5"	63.5MM	2.75"	69.8MM			
DRAWTUBE RETRACTED	Н	1.375"	35MM	1.615"	41MM			
SPINDLE FACE TO BACK OF UNION		31.50"	800 MM	31.50"	800 MM			
SPINDLE FACE TO UNION ADAPTOR	J	22.25"	565 MM	22.00"	558 MM			
TO BACK OF EXTENTION (OPTION)	K	48.0"	1219MM	48.0"	1219MM			

is required Haas recommends you retrieve the exact dimensions from your delivered machine.



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-25					
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	А	0.059"	1.5 MM		
INTERNAL OR EXTERNAL	А	External			
LENGTH OF THREAD	В	0.50"	12.7 MM		
DRAWTUBE INNER DIAMETER	С	N/A - SOLID DRAWBAR			
DRAWTUBE OUTER DIAMETEER	D	1.25"	31.75MM		
COUNTERBORE INNER DIAMETER	E	1.870"	47.5 MM		
COUNTERBORE DEPTH	F	1.01"	25.65MM		
EXTENDED DISTANCE TO NOSE	G				
RETRACTED DISTANCE TO NOSE	Н				
FROM SPINDLE FACE TO BACK OF UNION	1	11.72	297.7MM		
FROM SPINDLE FACE TO UNION ADAPTOR	J	16.84	427.7MM		
EJECTOR POCKET DEPTH	K	4.5"	114.3MM		
EJECTOR POCKET DIAMETER	L	1.0"	25.4MM		
*M35 applies to Sub-Spindles made after July 2019 - M40 applies to older vintages					