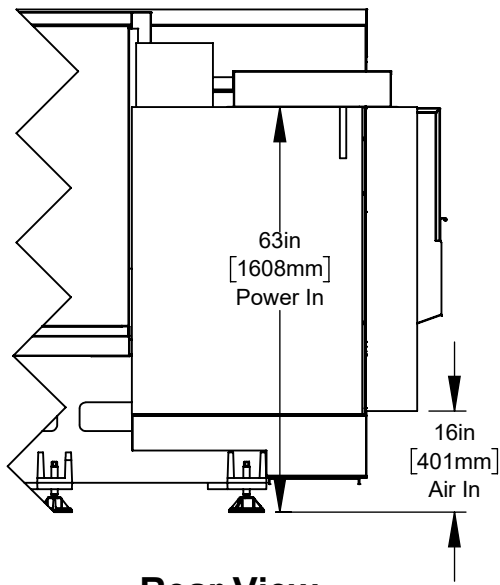
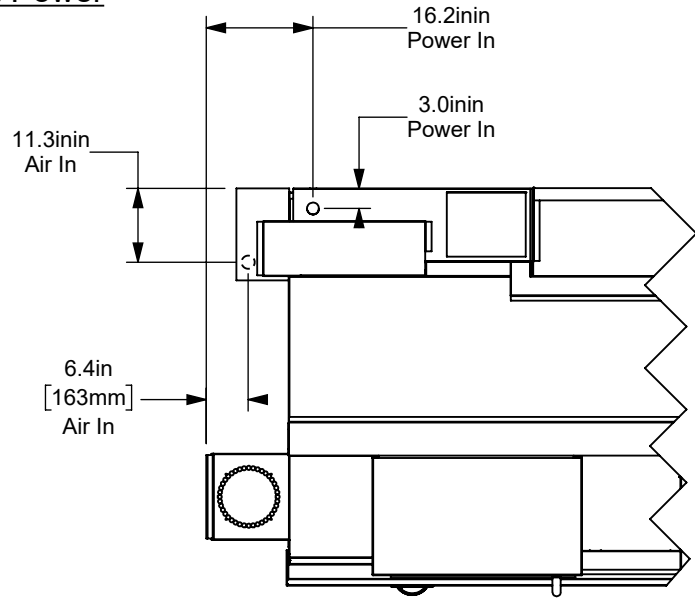


All dimensions based on stackup of sheetmetal, subject to variation of 1/2" (13 mm)

Air & Power

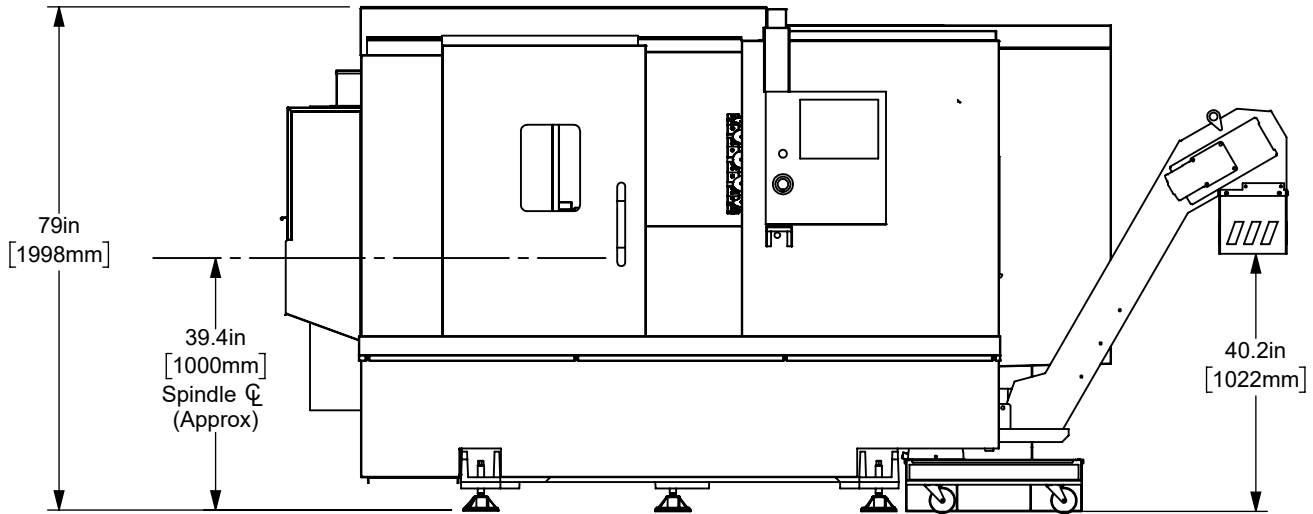


Rear View



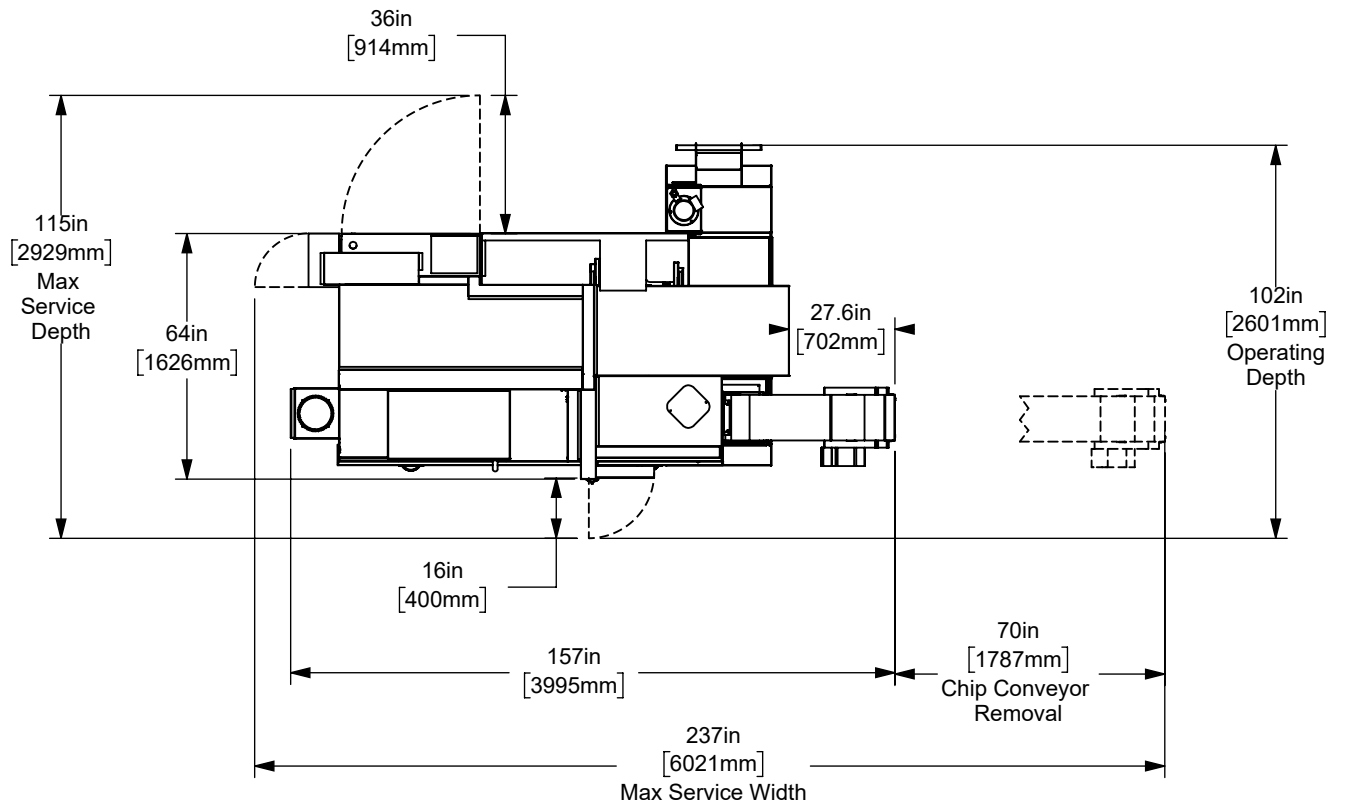
Top View

Height Breakdown

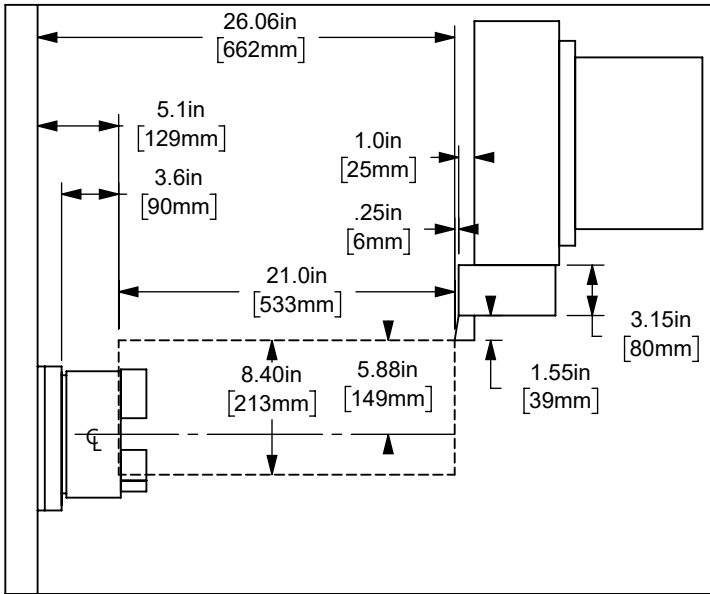


All dimensions based on stackup of sheetmetal, subject to variation of 1/2" (13 mm)

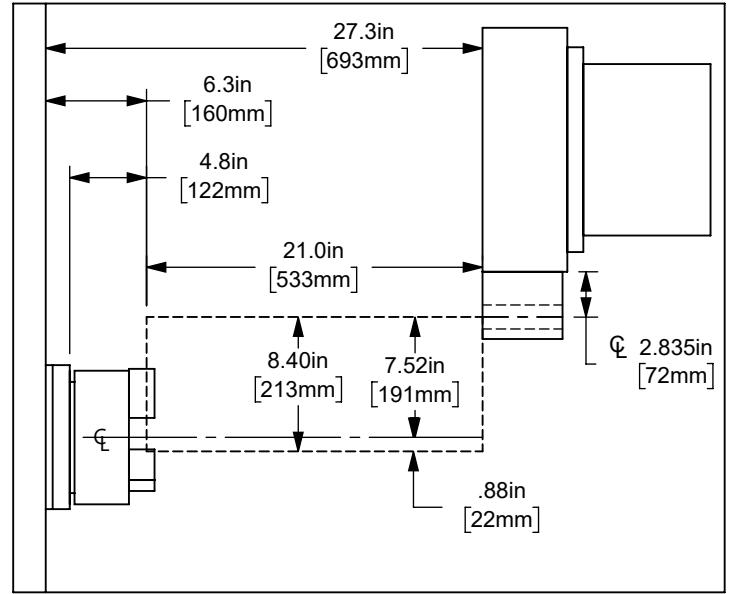
Width Breakdown



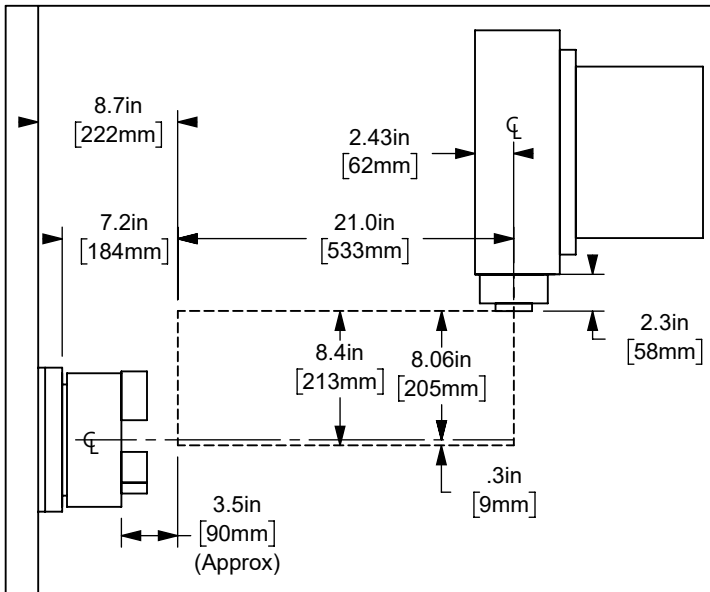
All dimensions based on stackup of sheetmetal, subject to variation of 1/2" (13 mm)



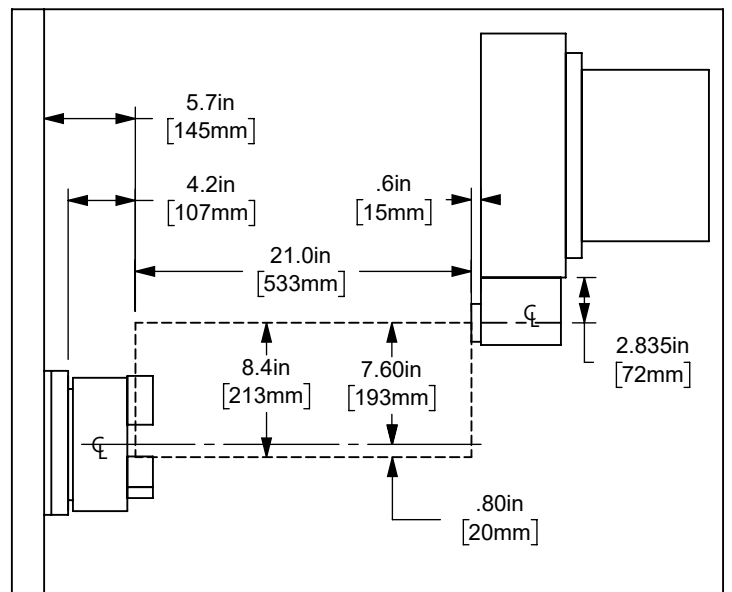
BMT OD



BMT ID / Drill / Bore (*) **



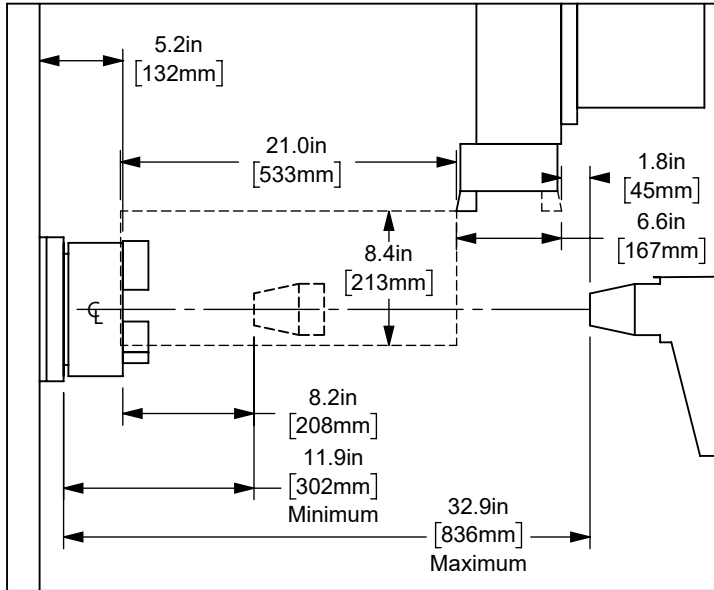
BMT Live Cross Tool *



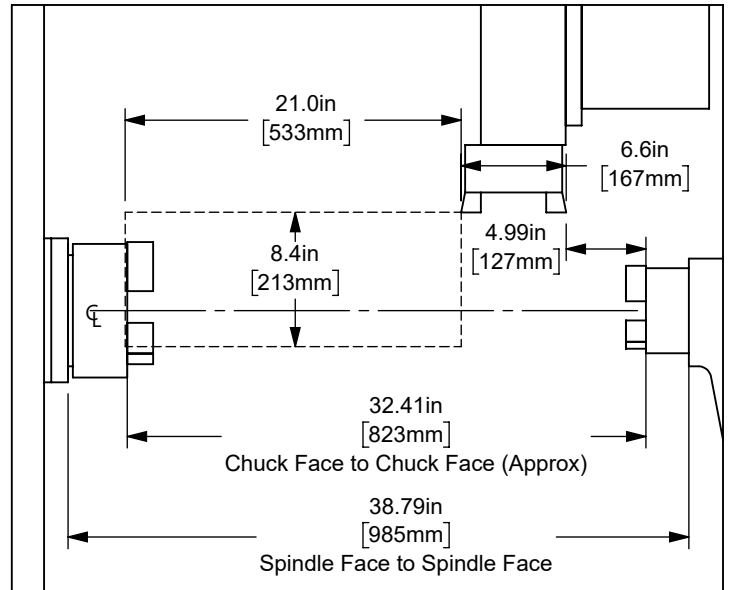
BMT Live Face Tool **

* Shift the work envelope in X by the tool protrusion length

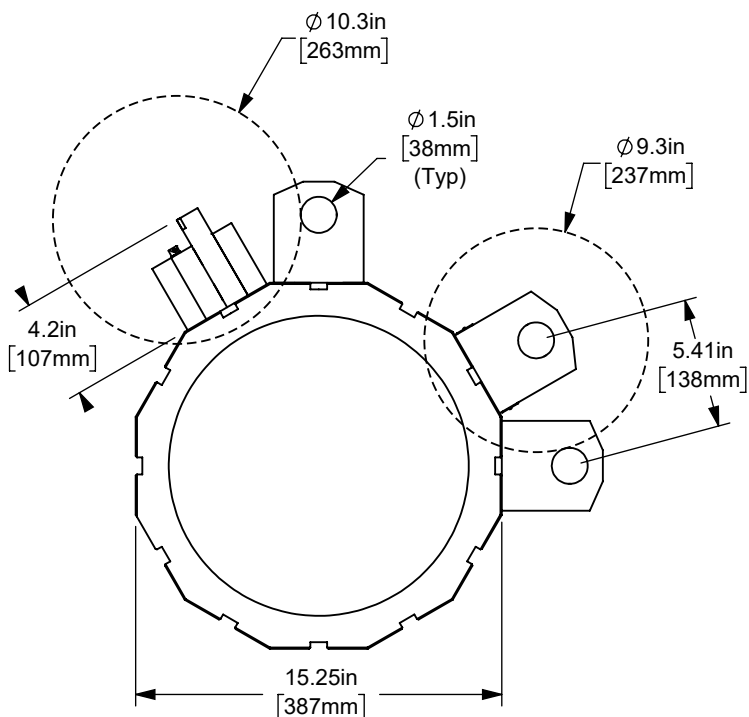
** Shift the work envelope in Z by the tool protrusion length



Tailstock Option

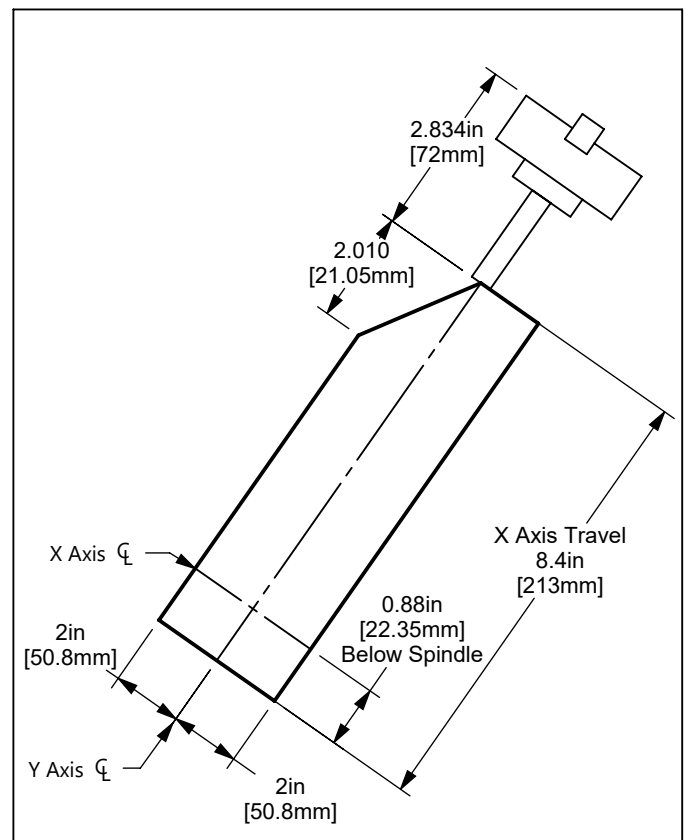


Sub Spindle Option



BMT65 Basic Tool Clearance

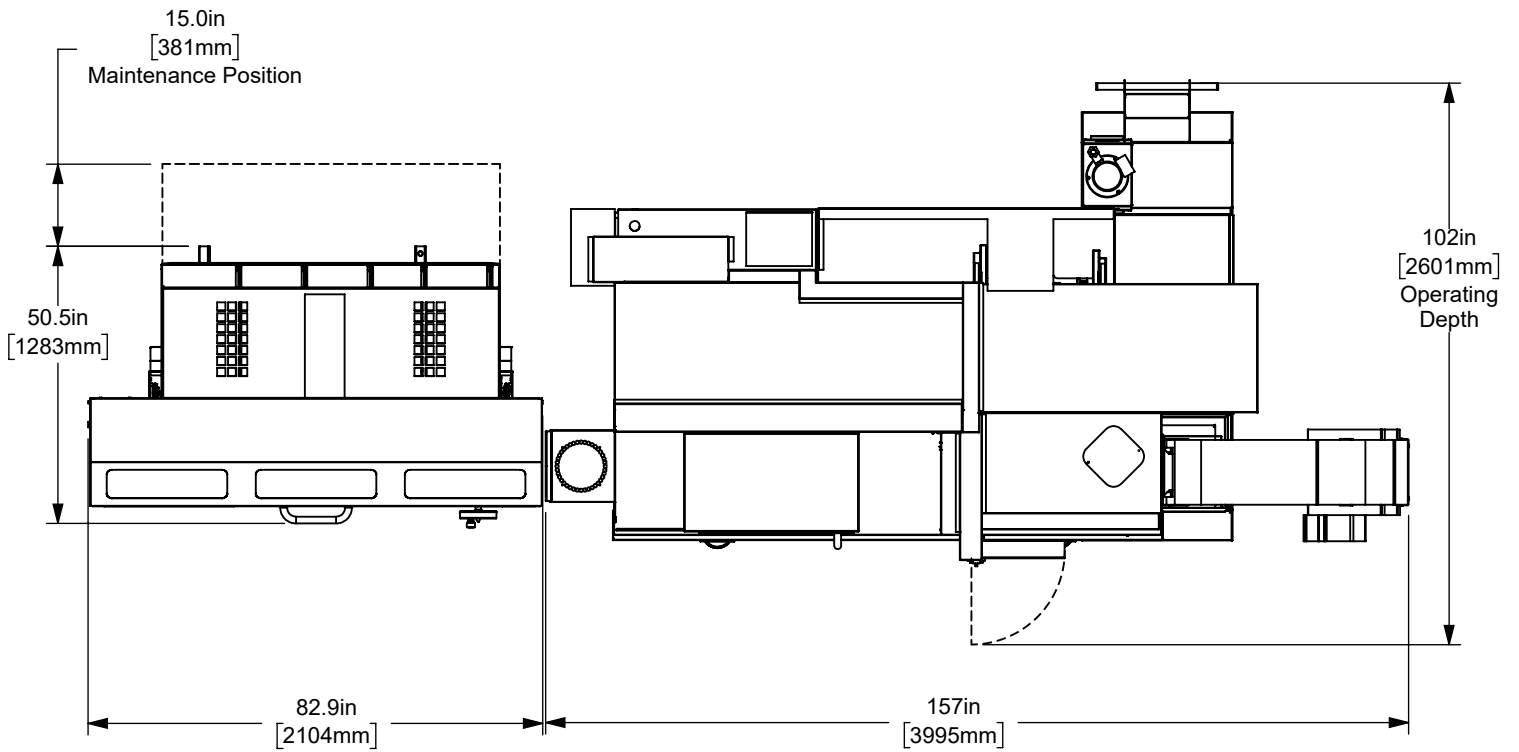
Maximum Turret Swing $\varnothing 35.0in$ [889mm]



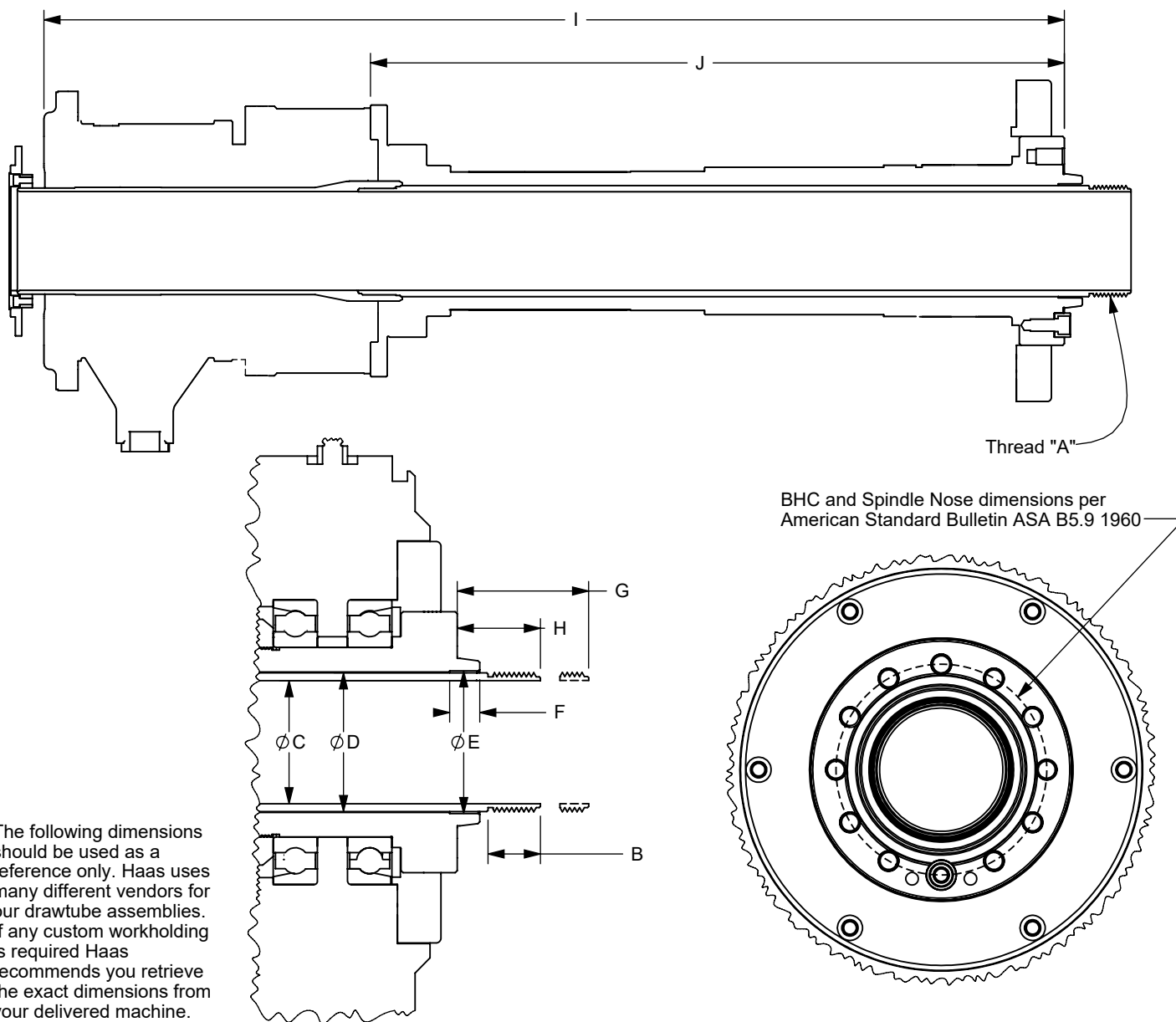
Y Axis Travel Envelope

Same Dimensions Apply To 90° Live Face Tool

Bar Feeder Layout

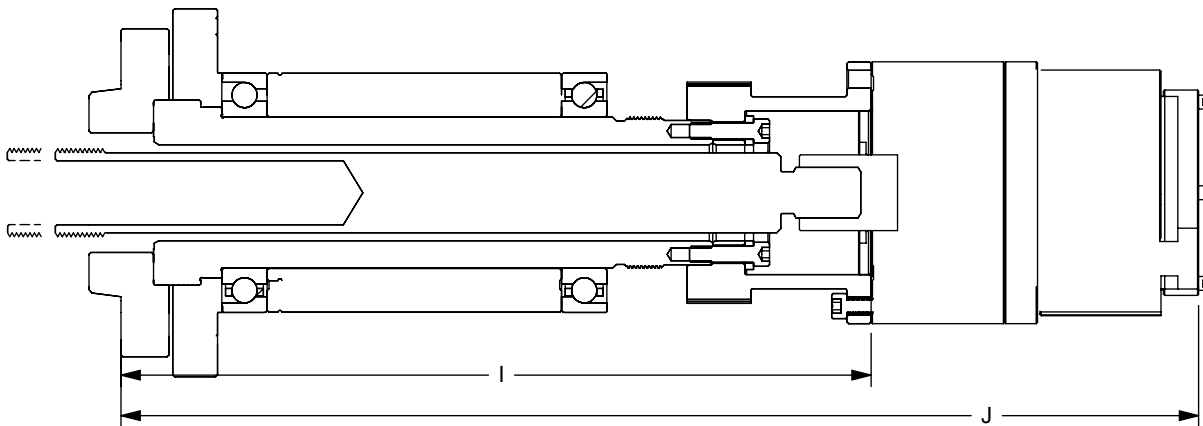


All dimensions based on stackup of sheetmetal, subject to variation of 1/2" (13 mm)

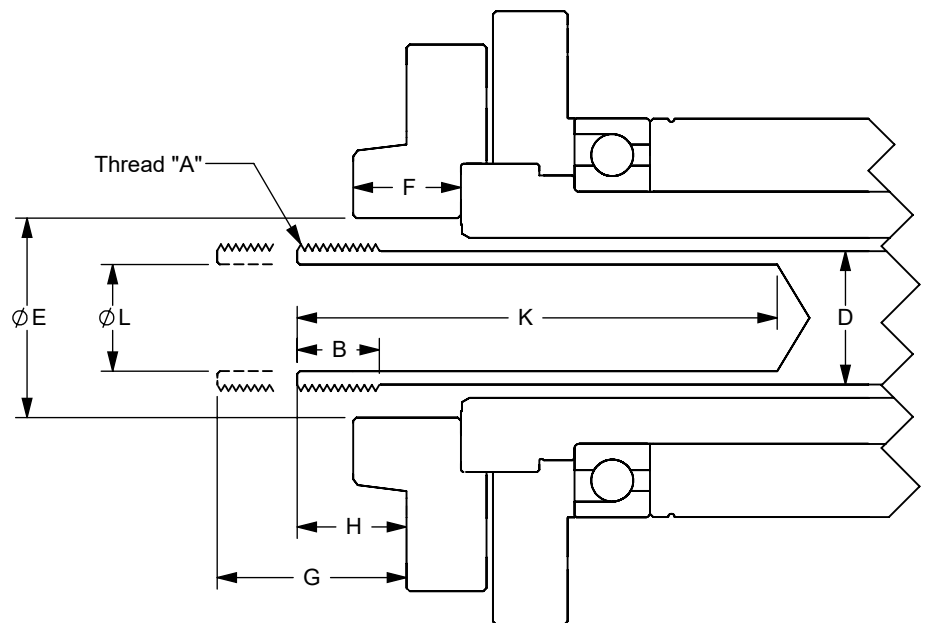
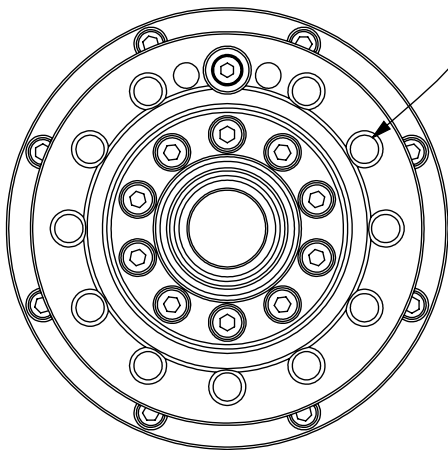


The following dimensions should be used as a reference only. Haas uses many different vendors for our drawtube assemblies. If any custom workholding is required Haas recommends you retrieve the exact dimensions from your delivered machine.

ST-20/25/Y Reboot Spindle Schematic (For machines built after May 2019)					
DESCRIPTION	DIMENSION	ST-20/Y		ST-25/Y	
		SAE	METRIC	SAE	METRIC
MAIN OR SUB SPINDLE & TYPE		Main / A2-6		Main / A2-6	
DIAMETER OF THREAD		2.953"	75 MM	3.346"	85 MM
THREAD PITCH		0.0787"	2.0 MM	0.0787"	2.0 MM
INTERNAL OR EXTERNAL	A	External		External	
LENGTH OF THREAD	B	1.360"	34.5 MM	1.43"	36.3 MM
DRAWTUBE INTERNAL DIAMETER	C	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	2.50"	63.5MM	2.75"	69.8MM
DRAWTUBE RETRACTED	H	1.375"	35MM	1.615"	41MM
SPINDLE FACE TO BACK OF UNION	I	31.50"	800 MM	31.50"	800 MM
SPINDLE FACE TO UNION ADAPTOR	J	22.25"	565 MM	22.00"	558 MM



BHC and Spindle Nose dimensions per
American Standard Bulletin ASA B5.9 1960



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	A	1.378"	35 MM* or 40 MM
THREAD PITCH	A	0.059"	1.5 MM
INTERNAL OR EXTERNAL	A	External	
LENGTH OF THREAD	B	0.50"	12.7 MM
DRAWTUBE INNER DIAMETER	C	N/A - SOLID DRAWBAR	
DRAWTUBE OUTER DIAMETER	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	H		
FROM SPINDLE FACE TO BACK OF UNION	I	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