

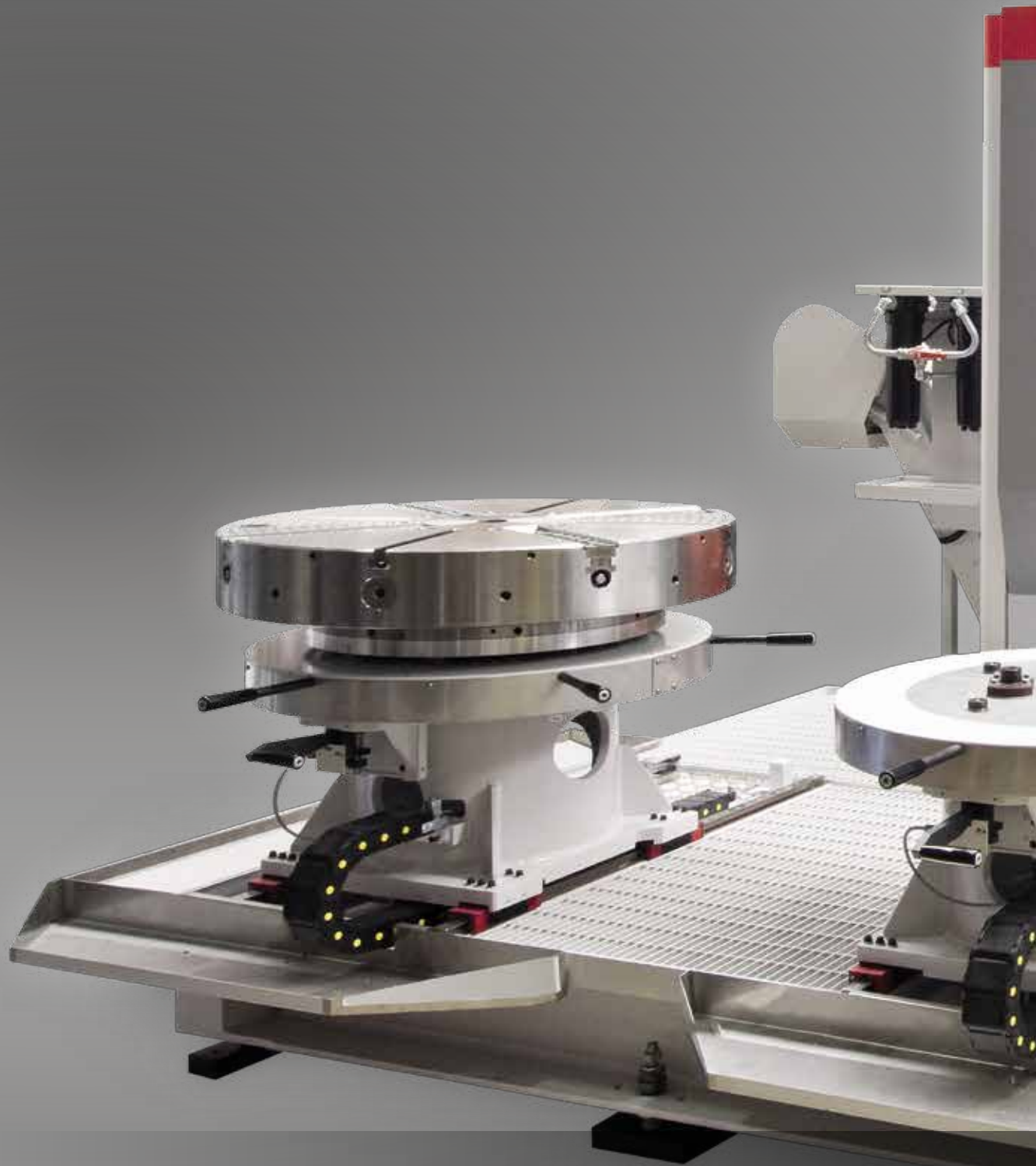


# ULTRIX



Flexible High Tech Solutions for Industry  
“Those who look a little harder discover a lot more”

**breton**  
Machine Tools



ULTRIX

Customized Efficiency

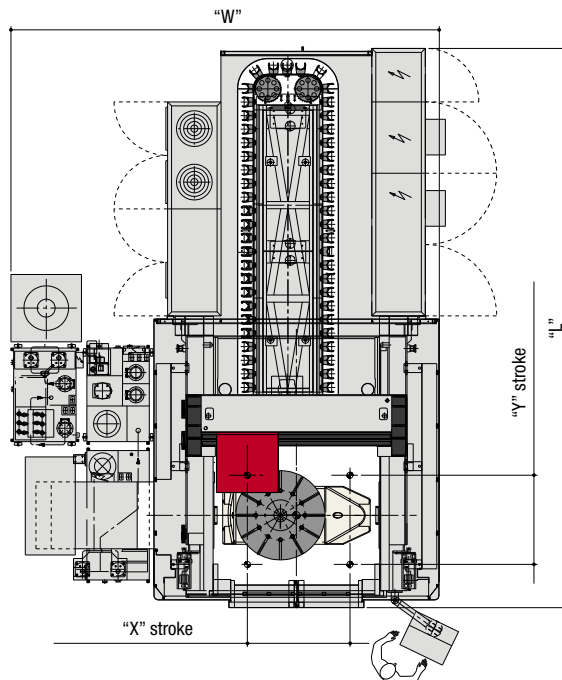
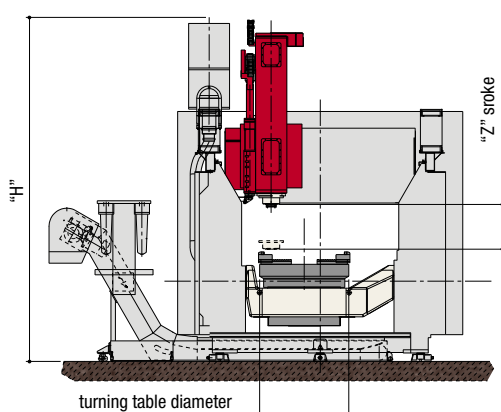


**breton**  
Machine Tools

# ULTRIX

**NEW**

		ULTRIX 800			ULTRIX 1000			ULTRIX 1200			
Interpolated axes		5			5			5			
"X" Stroke	mm in	800 31.5			1.150 45.2			1.700 66.9			
"Y" Stroke	mm in	900 35.4			1.000 39.4			1.600 63			
"Z" Stroke	mm in	600 23.6			700 27.6			1.000 39.4			
Turning table diameter	mm in	700 27.5			1.000 39.4			1.200 47.2			
Max. turning diameter	mm in	800 31.5			1.000 39.4			1.200 47.2			
"X" - "Y" Axes rapid feedrate	m/min ipm	60 2,362			60 2,362			50 1,968			
"Z" Axis rapid feedrate	m/min ipm	40 1,575			40 1,575			40 1,575			
"A" Axis rotation		-30° ÷ +110°			-30° ÷ +120°			± 120°			
"C" Axis rotation		continuous			continuous			continuous			
"A" Axis rapid feedrate	rpm	50			30			30			
"C" Axis rapid feedrate	rpm	100			60			60			
<b>MILLING SPINDLE:</b> Spindle power S6(40%) / S1	kW HP	40/40 53/53	or	41/37 55/50	or	55/40 73/53	85/74.6 114/100	or	41/37 55/50	or	40/40 53/53
Spindle torque S6(40%) / S1	Nm ft-lb	137/100 101/73.7	or	89/64 66/47	or	22/16 16.2/11.8	480/300 354/221	or	89/64 66/47	or	137/100 101/73.7
Spindle speed	rpm	18.000	or	28.000	or	40.000	14.000	or	28.000	or	18.000
<b>TURNING SPINDLE:</b> Spindle power S6(40%) / S1	kW HP	40/30 53/40			30/30 40/40			30/30 40/40			
Spindle torque S6(40%) / S1	Nm ft-lb	1.525/1.000 1,124/737			2.700/2.000 1,991/1,475			2.700/2.000 1,991/1,475			
Spindle speed range S6(40%) / S1	rpm	1.000/800			500/400			500/400			
DIN 69893-1 milling tool taper		HSK-A63			HSK-A63 or HSK-A100			HSK-A63 or HSK-A100			
Turning tool taper		Capto C6			Capto C8			Capto C8			
W x H x L	mm in	4.500 x 3.300 x 3.800 177.2 x 129.9 x 149.6			4.500 x 3.700 x 7.750 177.2 x 145.7 x 305.1			5.200 x 4.000 x 4.100 204.7 x 157.5 x 161.4			



Purely indicative picture



### **A comprehensive solution**

Our 5 axis gantry high speed tilt table machining center built for precision, longevity, and reliability in milling and turning small to large workpieces with ideal configurations ranging from super alloys to composites.

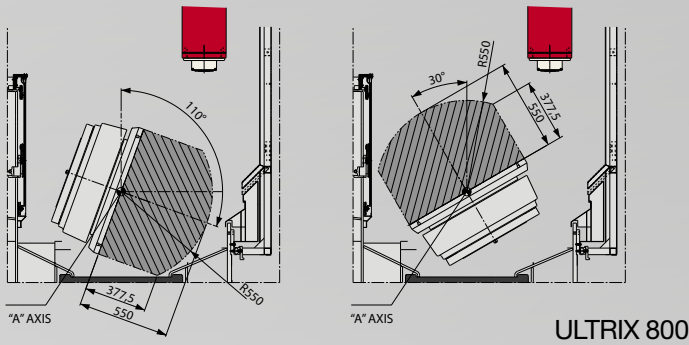
### **Purposeful workspace configurations**

Our ULTRIX series is standard in two main size platforms of 800 mm, 1000 mm and 1200 mm (round table diameters) tailored to applications ranging from complex gear,

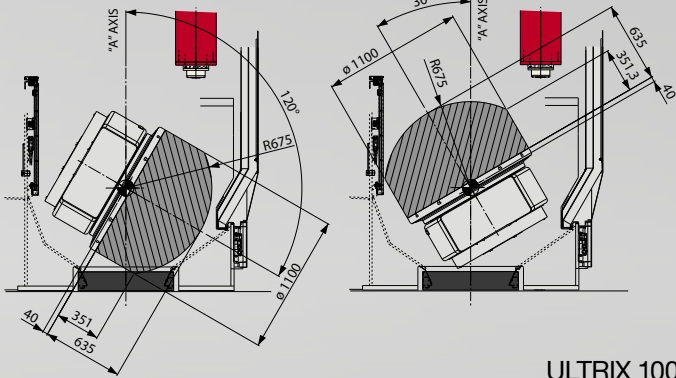
impeller, and blisk applications, molds, dies, tools, for projects in aerospace, automotive, power generation, and general industry.

### **Ergonomics and convenience**

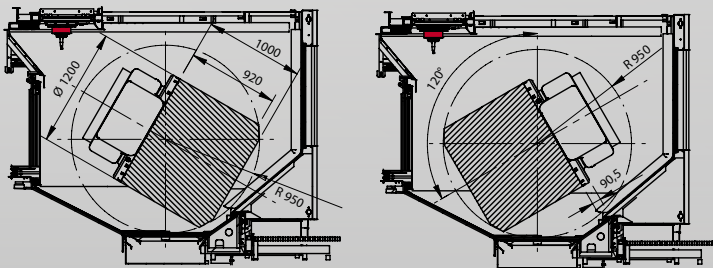
The ULTRIX is designed for User-Friendly and productivity enhancing operation. We provide full frontal and overhead access to simplify and normalize load/unload operations. We provide full visibility to the working project through wide doors with a generous viewing area.



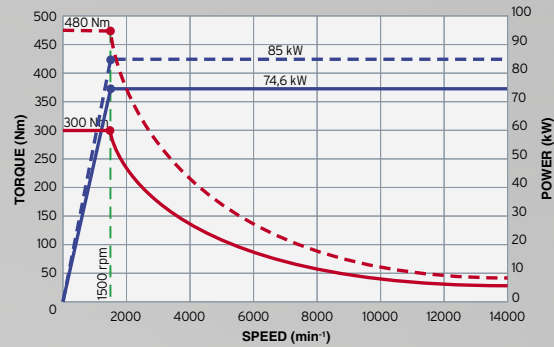
ULTRIX 800



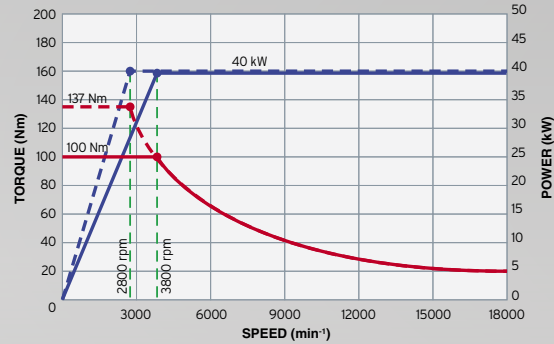
ULTRIX 1000



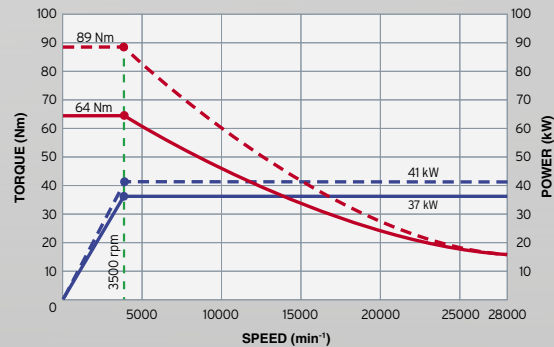
ULTRIX 1200



M 300/14



M 100/18



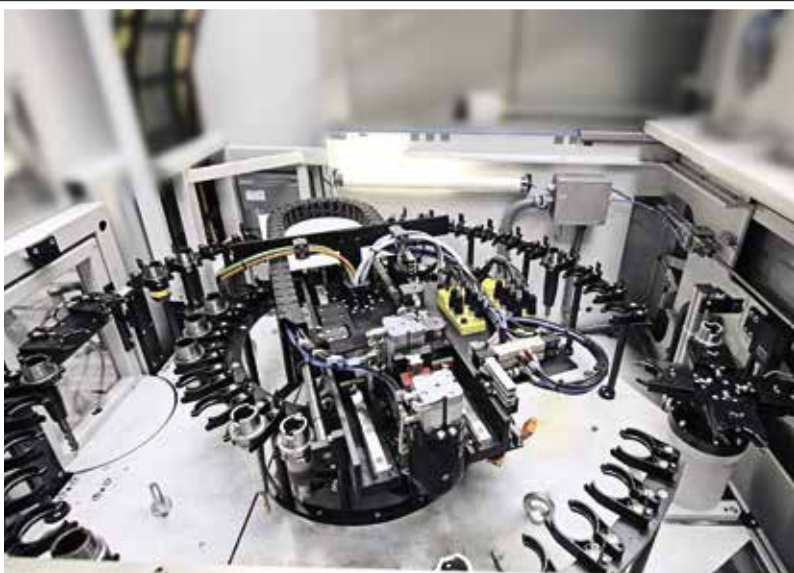
M 64/28

### Advanced dynamics

Through our heavy duty structurally ribbed gantry constructed platform, our shoulders assembled with our patented “Metalquartz®” dampening system in synergy with our Direct Drive tilting table we are able to provide our client with extreme material removal, precision, and achievable finishes, with ultimate control over his process.

### Head (RAM) and carriage

Our massive head structure also incorporates our “Metalquartz®” technology. The heavily ribbed and shielded cast iron spindle carriage slides on automatically lubricated reciprocating roller guides for frictionless motion with maximum way surface contact for truest motion under high feed rate stresses.



**Spindle performances**

Our ULTRIX can be customized according to the customers range with Only First Quality, World Class electrospindles in 14.000, 18.000, 28.000 and 40.000 rpm with HSK A63/A100 for milling and CAPTO C6/C8 for turning. We offer power configurations, respecting the characteristic demands of both dedicated applications and broad possibilities typical of both OEM and job shop operations.

**Axes motion**

Our X, Y, Z axis motion control systems are engineered for precise speed! The motion of the X and Y axis perform by precision inclined rack and pinion motion control with latest generation digital AC brushless servomotors. The Z axis movement is via precision ballscrew with a preloaded nut.



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UNI EN ISO 9001:2000  
CERT. No. 0056/4



UNI EN ISO 14001:2004  
CERT. No. 299A/O



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