

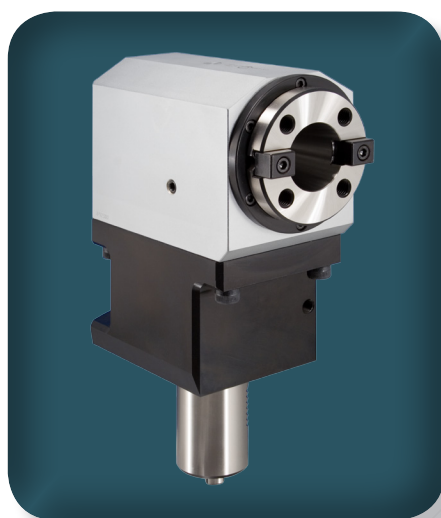


Mazak



Alberti

LIVE TOOLS



20 Thompson Rd | East Windsor | CT 06088

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Mazak


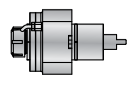
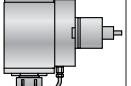
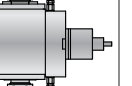


Alberti Lathe Tooling

Turn your Mazak Lathe into an ultimate performance profit center with lathe tooling from **Alberti** and KOMA Precision. With over 12,000 live tools and angle heads installed, KOMA is the world's largest supplier for **Alberti** - the originator and foremost innovator of productivity tooling.

Alberti lathe tools are covered by a one year warranty and backed by a KOMA service department with experience and expertise second to none. All **Alberti** tooling service and maintenance is performed in Connecticut. A comprehensive spare parts inventory ensures quick service turnaround.


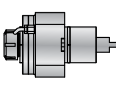
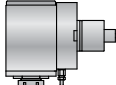
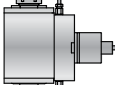
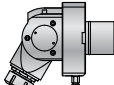


				STRAIGHT TOOLS	90° TOOLS	UNIVERSAL TOOLS
						
Lathe Model	MULTIPLEX 6100 MULTIPLEX 610	Standard		MA-3.5 R GH-44794-00	M90-3.5 GH-44423-00	MCU-2.5 GH-44774-00
			Output	ER-32	ER-32	ER-25
			Nm/ft.lbs.	30/22	25/18	20/15
			RPM	6,000	6,000	6,000
		Coolant Thru		MA-3.5 RI GH-44792-00	M90-3.5 RI GH-44793-00	
			Output	ER-32	ER-32	
			Nm/ft.lbs.	30/22	25/18	
			RPM	6,000	6,000	
	MULTIPLEX 6200 MULTIPLEX 620	Standard		MA-3.5 R GH-44225-00	M90-3.5 GH-44272-00	MCU-2.5 GH-44094-00
			Output	ER-32	ER-32	ER-25
			Nm/ft.lbs.	30/22	25/18	20/15
			RPM	6,000	6,000	6,000
		Coolant Thru		MA-3.5 RI GH-44273-00	M90-3.5 RI GH-44227-00	
			Output	ER-32	ER-32	
			Nm/ft.lbs.	30/22	25/18	
			RPM	6,000	6,000	
		4:1 Speeder		MA-3.5 RE GH-44274-00	M90-3.5 E GH-44773-00	MCU-1.5 E GH-44440-00
			Output	ER-32	ER-32	ER-16
			Nm/ft.lbs.	15/11	15/11	15/11
			RPM	12,000	12,000	12,000
	MULTIPLEX 6300 MULTIPLEX 630	Standard		MA-5.0 R GH-44775-00	M90-5.0 GH-44776-00	MCU-3.5 GH-44779-00
			Output	ISO 40	ISO 40	ER-32
			Nm/ft.lbs.	75/55	75/55	32/25
			RPM	6,000	6,000	6,000
		Coolant Thru		MA-5.0 RI GH-44777-00	M90-5.0 RI GH-44778-00	
			Output	ISO 40	ISO 40	
			Nm/ft.lbs.	75/55	75/55	
			RPM	6,000	6,000	

Coolant Pressure = 70 Bar/1050 PSI • RPM = Maximum

ER-11 = 0.5-7mm • ER-16/ER-16A = 0.5-10mm • ER-20/ER-20A = 0.5-13mm • ER-25/ER-25A = 0.5-16mm

ER-32 = 1-20mm • ER-40 = 2-30mm


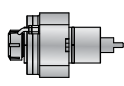
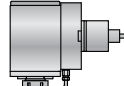
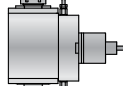
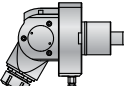
				STRAIGHT TOOLS	90° TOOLS	DUAL OUTPUT 90° TOOLS	UNIVERSAL TOOLS
							
Lathe Model	SQT 10 SQT 100 NEXUS QTN 100/150	Standard		MA-2.5 R	M90-2.5	M90-2.5 2U	MCU-2.5
				GH-44221-00	GH-44222-00	GH-44223-00	GH-44224-00
			Output	ER-25	ER-25	ER-25/16	ER-25
			Nm/ft.lbs.	30/22	25/18	25/18	20/15
			RPM	6,000	6,000	6,000	6,000
		Coolant Thru		MA-2.5 RI	M90-2.5 RI		
				GH-44282-00	GH-44284-00		
			Output	ER-25	ER-25		
			Nm/ft.lbs.	30/22	25/18		
			RPM	6,000	6,000		
		4:1 Speeder		MA-2.5 RE	M90-2.5 E		MCU-1.5 E
				GH-44285-00	GH-44280-00		GH-44780-00
			Output	ER-25	ER-25		ER-16
			Nm/ft.lbs.	15/11	15/11		15/11
			RPM	12,000	12,000		12,000

Coolant Pressure = 70 Bar/1050 PSI • RPM = Maximum

ER-11 = 0.5-7mm • ER-16/ER-16A = 0.5-10mm • ER-20/ER-20A = 0.5-13mm • ER-25/ER-25A = 0.5-16mm • ER-32 = 1-20mm • ER-40 = 2-30mm


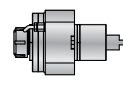
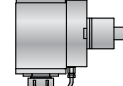
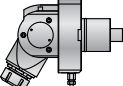


SQT 200

				STRAIGHT TOOLS	90° TOOLS	DUAL OUTPUT 90° TOOLS	UNIVERSAL TOOLS
							
Lathe Model	SQT 200/250 SQT 15/18 M NEXUS QTN 200/250	Standard		MA-3.5 R	M90-3.5	M90-3.5 2U	MCU-2.5
				GH-44184-00	GH-44186-00	GH-44277-00	GH-44093-00
			Output	ER-32	ER-32	ER-32/20	ER-25
			Nm/ft.lbs.	40/30	45/33	45/33	20/15
			RPM	6,000	6,000	6,000	6,000
		Coolant Thru		MA-3.5 RI	M90-3.5 RI		
				GH-44278-00	GH-44229-00		
			Output	ER-32	ER-32		
			Nm/ft.lbs.	40/30	45/33		
			RPM	6,000	6,000		
		4:1 Speeder		MA-3.5 RE	M90-3.5 E		MCU-1.5 E
				GH-44185-00	GH-44279-00		GH-44180-00
			Output	ER-32	ER-32		ER-16A
			Nm/ft.lbs.	30/22	30/22		6/4
			RPM	12,000	12,000		12,000

Coolant Pressure = 70 Bar/1050 PSI • RPM = Maximum

ER-11 = 0.5-7mm • ER-16/ER-16A = 0.5-10mm • ER-20/ER-20A = 0.5-13mm • ER-25/ER-25A = 0.5-16mm • ER-32 = 1-20mm • ER-40 = 2-30mm

				STRAIGHT TOOLS	90° TOOLS	UNIVERSAL TOOLS
						
Lathe Model	SQT 28 NEXUS QTN 350/450	Standard		MA-5.0	M90-5.0	MCU-3.5
				GH-44454-00	GH-44455-00	GH-44568-00
			Output	ISO 40	ISO 40	ER-32
			Nm/ft.lbs.	75/55	75/55	32/25
			RPM	6,000	6,000	6,000
		Coolant Thru		MA-5.0 RI	M90-5.0 RI	
				GH-44613-00	GH-44614-00	
			Output	ISO 40	ISO 40	
			Nm/ft.lbs.	75/55	75/55	
			RPM	6,000	6,000	

Coolant Pressure = 70 Bar/1050 PSI • RPM = Maximum

ER-11 = 0.5-7mm • ER-16/ER-16A = 0.5-10mm • ER-20/ER-20A = 0.5-13mm • ER-25/ER-25A = 0.5-16mm
ER-32 = 1-20mm • ER-40 = 2-30mm

KOMA PRECISION has the FINEST the world has to offer in machine tool Productivity Innovation

For over thirty years KOMA Precision has been the foremost source for the finest the world has to offer in machine tool Productivity Innovation.

With over 30,000 rotary table installations, KOMA is the largest distributor of Tsudakoma NC rotary tables and indexers in the world. With over 12,000 angle heads and live tools installed, KOMA is the world's largest supplier for Alberti - the originator and the foremost innovator of productivity tooling.



Alberti Tooling Build Features

Alberti GS 600 Cast Iron Tool Bodies



**MATERIAL: GS 600
Spheroidal Cast Iron**

GS 600 is the same cast iron as used for the beds of machine tools. GS 600 features a low percentage of carbon, and spheroids are added during casting to provide compact grain structure and enhance the mechanical features of the material.

GS 600 ADVANTAGES:

- High tensile strength - 60kg/mm² (40% higher than steel, twice that of aluminum).
- High compression strength (absorbs vibration).
- Low thermal expansion (maintains accuracy & bearing pre-loads).
- Excellent dimensional stability (maintains accuracy).

TOOL BODY FEATURES:

- Bodies are completely machined inside & outside contributing to uniform weight.
- Bearing housing surfaces are ground.
- Bodies are chromium plated with (2) precision-lapped surfaces parallel to the tool output spindle for accurate alignment.

Alberti: Gleason Gears



**GEARING MATERIAL -
ADJUSTABLE ANGLE TOOLS:**

Aerospace/military grade steel with ultimate strength of 300 kg/mm².

**GEARING MATERIAL -
ALL OTHER MODELS:**

Same steel as in the gears of Formula One race car transmissions with an ultimate strength of 190 kg/mm². (A "good" gear steel has an ultimate strength of 120 kg/mm².)

All bevel gears used are spiral Gleason gears, not spur gears. Gleason gears provide more than one tooth of engagement thereby creating optimized meshing of the teeth, greater power transmission, and reduced noise during operation. Gleason provides the following computerized data computation for each set of gears used in Alberti tools:

- Maximum pitch diameter.
- Ultimate strength of the material.
- Minimum & maximum RPM of the gears.

Alberti Spindle, Shaft, and Bearings



TOOL INPUT SHAFTS & OUTPUT SHAFTS

MATERIAL: 18 NiCrMo5 (Nickel Chrome Moly) with no lead, case hardened and tempered (Certified to ISO9000/9001/9002).

ADVANTAGES

Lead increases machinability prior to heat-treating, but reduces strength up to 50%. This is especially important for the shafts and shanks, which are subject to great stress during heavy machining operations.

BEARINGS

All shafts are supported by (2) or (3) Abec 7 angular contact bearings. Angular contact bearings represent the evolution of conical rollers and support both axial & radial loads. All tool body bearing housing surfaces are ground for maximum precision.





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ROTARY TABLES | ANGLE HEADS | LIVE TOOLS | SWISS TOOLS | TOOL PRESETTERS