



Alberti

LIVE TOOLS



HYUNDAI
WIA



20 Thompson Rd | East Windsor | CT 06088

1.800.249.5662 | 860.623.4132 Fax

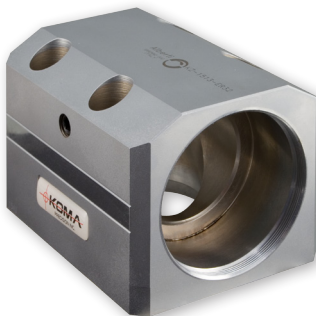
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ALBERTI lathe tooling is designed to facilitate unmatched precision when machining parts with demanding complexity. **Over 250 types of standard live tools are available from stock.** With over 12,000 tools installed, **KOMA PRECISION** is the world's largest supplier for **ALBERTI** - the originator and the foremost innovator of productivity tooling.

Turn your CNC Lathe into an ultimate performance profit center with tooling from **ALBERTI** and **KOMA PRECISION**. Innovative design, passionate attention to detail, and state of the art production facilities result in unmatched precision at an affordable price.

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.

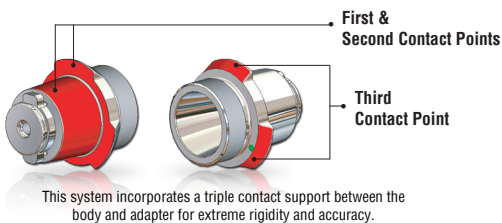
SmartChange System

New from Alberti, a complete range of live tools with interchangeable adapters for Okuma are now available in stock. The SmartChange System units have a standard profile with **no additional projection** to reduce the chance of interference with the machine's enclosures. Alberti's patent pending design creates **three points of contact** between the driven tool holder body and tool holder output surfaces so there is **no compromise in concentricity and rigidity** to gain the speed and convenience of quick-change tooling. With the SmartChange System one set of live tools can always stay in the machine with only the adapters needing to be changed. This provides **improved efficiency and flexibility**, plus a reduction in overall tooling costs.

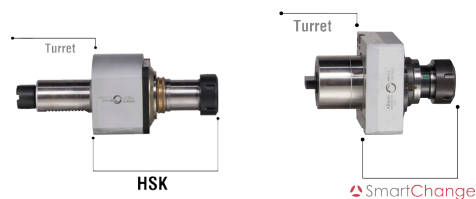


QUICK • EASY • PRECISE

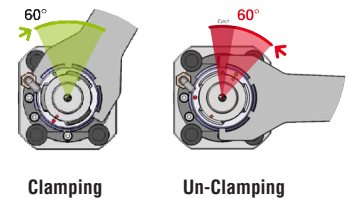
Triple Contact System



Low Profile



How It Works

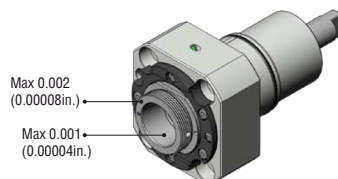


The patent pending Alberti SmartChange collet clamp & wrench system quickly and precisely locks the quick change adapter, reducing tool cutter changing time to a minimum.

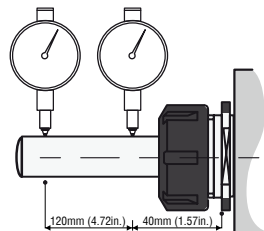
Highest Accuracy & Repeatability

Run-Out of the Collet Chuck with Adapter Mounted Repeatability	0.006 μ m
Adapter Change Time	20 seconds
Repeatability	0.003mm (0.0001 in.)

Run Out with SmartChange System



Accuracy with Gauge Bar Inserted in the Collet Chuck



Accuracy with Gauge Bar Inserted in the Collet Chuck

at 40mm = 0.008mm (1.57 in. = 0.0003 in.)
at 120mm = 0.01mm (4.72 in. = 0.0004 in.)


Large Selection of Adapters




ER Collet Chuck

Weldon Output


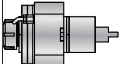
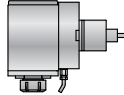
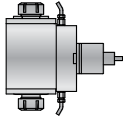
Shell Mill Output

 BMT-55				STRAIGHT TOOLS	90° TOOLS	DUAL OUTPUT 90° TOOLS
Lathe Model	L230LMSA LF1600M/2SP LF1800M/2SP LF2000M/2SP	Standard		GH-44941-00	GH-44943-00	GH-44945-00
			Output	ER-25	ER-25	ER-25
			Nm/ft.lbs.	-	25.1/18.5	25.1/18.5
		Coolant Thru	RPM	6,000	6,000	6,000
				GH-44942-00	GH-44944-00	
			Output	ER-25	ER-25	
			Nm/ft.lbs.	-	25.1/18.5	
			RPM	6,000	6,000	


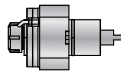
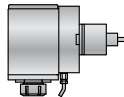
Coolant Pressure = 70 Bar/1050 PSI • RPM = Maximum

 BMT-65				STRAIGHT TOOLS	90° TOOLS	DUAL OUTPUT 90° TOOLS	ADJUSTABLE TOOLS
Lathe Model	L300MA L300MSA L300LMA L300LMSA L300MC L300MSC L300LMC LF2500M/2SP	Standard		GH-45051-00	GH-45053-00	GH-45055-00	GH-45159-00
			Output	ER-32	ER-32	ER-32	ER-25
			Nm/ft.lbs.	-	45/33.2	45/33.2	45/33.2
			RPM	6,000	6,000	6,000	6,000
		Coolant Thru		GH-45052-00	GH-45054-00		
			Output	ER-32	ER-32		
			Nm/ft.lbs.	-	45/33.2		
			RPM	6,000	6,000		

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

 BMT-75				STRAIGHT TOOLS	90° TOOLS	DUAL OUTPUT 90° TOOLS
						
Lathe Model	L400MA L400MC L400LMC LV500RM LV500LM LV800RM LV800LM	Standard		GH-44946-00	GH-44948-00	GH-44950-00
			Output	ER-40	ER-40	ER-40
			Nm/ft.lbs.	-	50/37	50/37
			RPM	6,000	6,000	6,000
		Coolant Thru		GH-44947-00	GH-44949-00	
			Output	ER-40	ER-40	
			Nm/ft.lbs.	-	50/37	
			RPM	6,000	6,000	

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

			STRAIGHT TOOLS	90° TOOLS
				
Lathe Model	L600MA L600LMA L700MA L700LMA LV1100RM	Standard	GH-44951-00	GH-44953-00
			Output	ER-50
			Nm/ft.lbs.	-
			RPM	6,000
		Coolant Thru	GH-44952-00	GH-44954-00
			Output	ER-50
			Nm/ft.lbs.	-
			RPM	6,000

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



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