

HWACHEON

LIVE TOOLS

Includes SmartChange Tools















20 Thompson Rd | East Windsor | CT 06088 1.800.249.5662 | 860.623.4132 Fax www.komaprecision.com | info@komaprecision.com

Alberti

ALBERTI LIVE TOOLS

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.



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 First & Second Contact Points Third Contact Point This system incorporates a triple contact support between the body and adapter for extreme rigidity and accuracy. Clamping Un-Clamping

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.

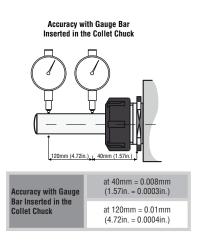
Highest Accuracy & Repeatability

0.006 µm



Run-Out of the Collet Chuck

with Adapter Mounted



Large Selection of Adapters



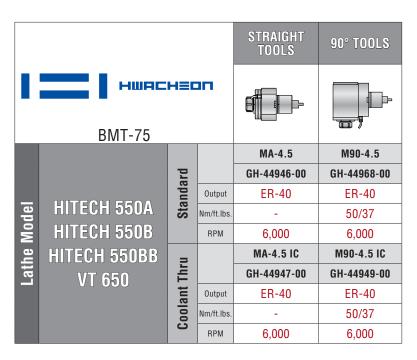


				STRAIGHT TOOLS	90° TOOLS	DUAL OUTPUT 90° TOOLS
НШЯСН≣ОП BMT-55						
	CUTEX 160A CUTEX 160B	Standard		MA-2.5	M90-2.5	M90-2.5 2U
				GH-44941-00	GH-44943-00	GH-44945-00
			Output	ER-25	ER-25	ER-25
del			Nm/ft.lbs.	-	25.1/18.5	25.1/18.5
Mo			RPM	6,000	6,000	6,000
Lathe Model		Coolant Thru		MA-2.5 IC	M90-2.5 IC	
				GH-44942-00	GH-44944-00	
			Output	ER-25	ER-25	
			Nm/ft.lbs.	-	25.1/18.5	
			RPM	6,000	6,000	

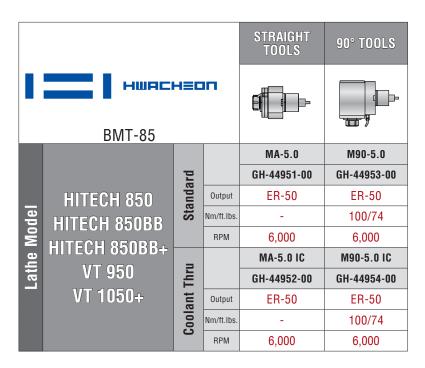


			STRAIGHT TOOLS	90° TOOLS	DUAL OUTPUT 90° TOOLS	ADJUSTABLE TOOLS	
ВМТ-65							
Lathe Model	CUTEX 240A	Coolant Thru Standard		MA-3.5	M90-3.5	M90-3.5 2U	MCU-2.5
	CUTEX 240B			GH-45051-00	GH-45053-00	GH-45055-00	GH-45159-00
	CUTEX 240C HITECH 200A		Output	ER-32	ER-32	ER-32	ER-25
	HITECH 200B		Nm/ft.lbs.	-	45/33.2	45/33.2	45/33.2
	HITECH 200C HITECH 350A		RPM	6,000	6,000	6,000	6,000
	HITECH 350A			MA-3.5 IC	M90-3.5 IC		
	HITECH 450A			GH-45052-00	GH-45054-00		
	HITECH 450B		Output	ER-32	ER-32		
	HITECH 450C T2		Nm/ft.lbs.	-	45/33.2		
	VT 450		RPM	6,000	6,000		











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