













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

SMARTCHANGE





△SmartChange System

New from Alberti, a complete range of live tools with interchangeable adapters for DMG/Mori Seiki 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

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.





SMARTCHANGE TOOLS



The Alberti SmartChange System

A quick change system like no other...

QUICK • EASY • PRECISE

				STRAIGHT TOOLS	90° TOOLS
DM(QP) DMG MORI QUALIFIED PRODUCT					
				MA-3.5	M90-3.5
<u></u>	NLX 1500	Standard		GH-66323-00	GH-66324-00
			Output	SC2*	SC2*
po		Sta	Nm/ft.lbs.	-	45/33
Lathe Model	NLX 2000		RPM	6,000	6,000
e	NLX 2500 NLX 3000	Coolant Thru		MA-3.5 RI	M90-3.5 RI
ath				GH-66617-00	GH-66621-00
Ľ			Output	SC2*	SC2*
			Nm/ft.lbs.	-	45/33
			RPM	6,000	6,000

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

				STRAIGHT TOOLS	90° TOOLS
DM(QP) DMG MORI QUALIFIED PRODUCT					
				MA-2.5	M90-2.5
	NZ 1500 NZ 2000	Standard		GH-66741-00	GH-66743-00
<u></u>			Output	SC2*	SC2*
ğ			Nm/ft.lbs.	-	25/18
Ž			RPM	6,000	6,000
e		Coolant Thru		MA-2.5 RI	M90-2.5 RI
Lathe Model				GH-66742-00	GH-66744-00
			Output	SC2*	SC2*
			Nm/ft.lbs.	-	25/18
			RPM	6,000	6,000

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

*Each tool comes standard with an ER & SmortChange Adapter, a Main Spindle Anti-Rotation Wrench & a Long Handle Wrench for Lock / Unlock Nut. For additional adapters & accessories, see below.

Accessories

Additional Adapters



ER Collets
SIZE
ER-20
ER-25



Weldon Outputs			
SIZE			
1/2"			
5/8"			



Shell Mill Arbors
SIZE
3/4"

Measuring Fixtures



SmartChange	Tool Pot
SIZE	
40 Taper	
50 Taper	

Holding-Fixture

SmartChange Holding Fixture

Note: Holding fixture does not include adapter and wrench.

SMARTCHANGE

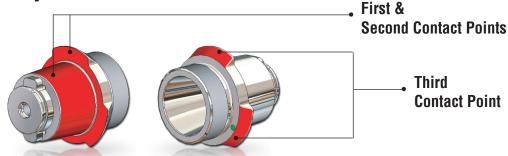


The Alberti SmartChange System

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QUICK • EASY • PRECISE

Triple Contact System

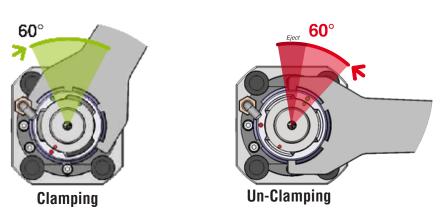


This system incorporates a triple contact support between the body and adapter for extreme rigidity and accuracy.

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.

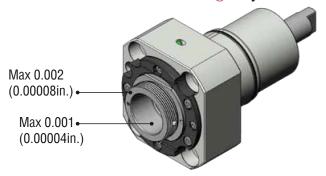
The \sim SmartChange System allows for tools to be externally preset for quick job change over and increased profitability.



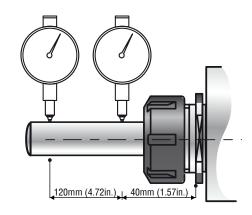
Highest Accuracy & Repeatability

Run-Out of the Collet Chuck with Adapter Mounted Repeatability	0.006 μm
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 $at 40mm = 0.008mm \\ (1.57in. = 0.0003in.)$ $at 120mm = 0.01mm \\ (4.72in. = 0.0004in.)$

Large Selection of Adapters





TOOL PRESETTER



- Natural Granite Base & Column for Increased Thermal Stability
- Stainless Steel Mechanical Elements for Higher Resistance
 & Longer Life

Spindle Interchangeability

- Fully Interchangeable to Handle a Multitude of Different Tool Shank Types (Optional)

Axis Movements

- Fast & Precise Adjustments for Immediate Visualization of Tool Profiles
- Simple, Easy-to-Use, Maintenance Free Design

Electronic Features

- Newly Upgraded Camera System with TFT Color LCD 5.7" Backlit Matrix Display for Improved User Interface
- C-MOS Sensor with 0.001 mm Resolution

DDP System Software

- Easy to Use, Intuitive Software



SPECIFICATIONS

LARTH CONSTRUCTION

Bench Model

Natural Granite Base & Column

Stainless Steel Mechanical Elements

Dimensions 512mm L x 406mm D x 827mm H

Weight 45 Kg / 99 lbs

AXIS MOVEMENT

X Axis (Radial) = 130mm / 5.188in

Z Axis = 360mm / 14.17in

Resolution X & Z Axis - 1 µm

Manual Rapid & Fine Adjustment Movement (Zero Backlash)

SPINDLE

Fixed or Interchangeable Rotating Spindles

ISO / HSK / CAPTO / VDI / Interchangeable Rotating Spindles Available

ISO 40, 50 Fixed Rotating Spindle Holder & Adapters Available

Manual Mechanical Brake

Concentricity - 4 µm

Maximum Tool Weight 30kg / 66 lbs.

OPERATING SYSTEM

5.7" Color LCD Touchscreen Display / Operator Interface / 640 x 480 Resolution

RISC 32 Bit Processor

Data Storage on Flash

Connectivity - USB / RS-232

Printer Support (optional)

Capable of Storing 9 Different Machine

Specifications

Capable of Storing 81 Different Tool Specifications

CAPABILITIES

Measure - Full Screen Auto Targeting

Measure - X&Z Axis Focusing Control Bar

Measure - Automatic Radius & Angle

Computing Cycle

Measure - Radius/Diameter, MM/Inches,

Absolute/Incremental Modes

VISION SYSTEM

Telecentric Lens / C-MOS Image Sensor with 0.001mm resolution / 20x Magnification

DPP SOFTWARE (Optional)

Tool List Management / Tool Sets & Post Processor Universal Generator

CNC Machine Origin Management

TOOL PRESETTER



SmartChange

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Outside Presetting

Speeds Up Tool Change & Replacement Times • Eliminate Tool Offset Input Errors Minimize Spindle Down Time • Increase Productvity



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To speed up tool changes & replacement times, \(\sigma\) SmartChange **Adapters** are pre-staged.



Tools then are loaded into the SmartChange Tool Pot for measuring on the Bootcontroll Larth Tool Presetter.





SmartChange Holding Fixture is used to clamp / unclamp Adapters in Tool Pot.



Tool Pot is inserted on the Larth Tool Presetter for measurement.







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