



**KOMA PRECISION**  
THE KEY TO PERFORMANCE  
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# Alberti

## ANGLE HEAD

### Selection Guide

2022

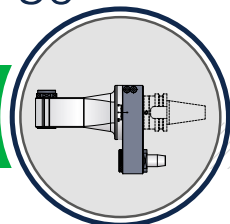


**WE FOCUS ON BEING THE BEST—**  
that's why leading companies choose Koma.

WE ARE THE EXCLUSIVE NORTH AMERICAN  
IMPORTER, NATIONAL DISTRIBUTOR, AND  
SERVICE CENTER FOR ALBERTI ANGLE HEADS.

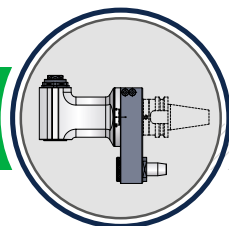
**Aluminum Series**  
Light Weight Angle Heads

## ISO30 DIN-69871 / BT-30



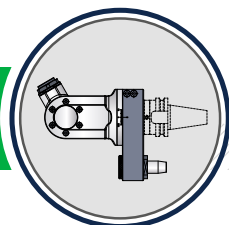
**T90cn-0.5M**

page 3



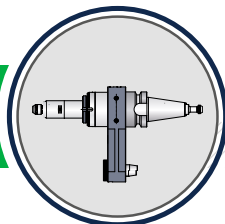
**T90cn-1.5M**

page 4



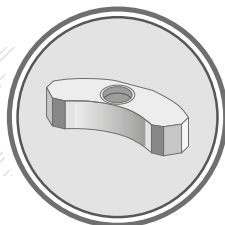
**TCUcn-0.5M**

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**TURBODRILL**

page 6

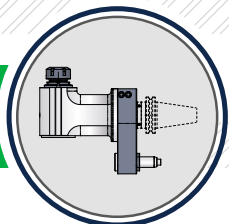


**STOPBLOCK**

page 7

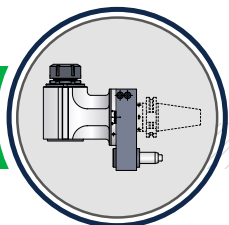


## ISO40 DIN-69871 / BT-40



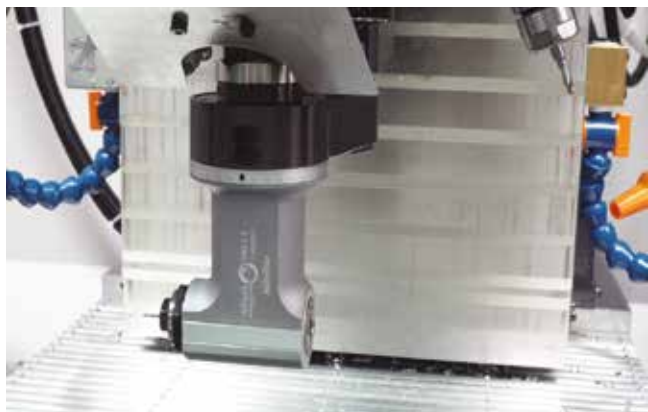
**T90cn-2.5M**

page 8



**T90cn-3.5M**

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The heads of the series Aluminum have been developed with lighter materials and reduced overall dimensions compared to the standard offering, in order to reduce the weight as much as possible, thus keeping the same characteristics of quality and reliability. The line of heads are suitable for all those lighter and smaller machines with ISO BT 30 and 40 whose toolchanger can only handle limited weight (i.e. Fanuc Robodrill, Brother, Haas..). For the BT 30 heads, Alberti can also offer an air driven unit, Turbodrill, capable of 60,000RPM, while on the BT 40 heads customer can mount our new quick change system, Smart change.

- Aluminum body for significant weight reduction
- Reduced overall dimensions to be mounted on smaller machines
- Possibility of internal coolant
- High speed up to 10,000RPM for mechanical heads and up to 60,000RPM for air driven units
- Customized stop block for different machine type for an easy installation





Ratio  
1:1



RPM  
10,000



Max. axial load  
120 N



Torque  
8 Nm



Weight  
6 lb



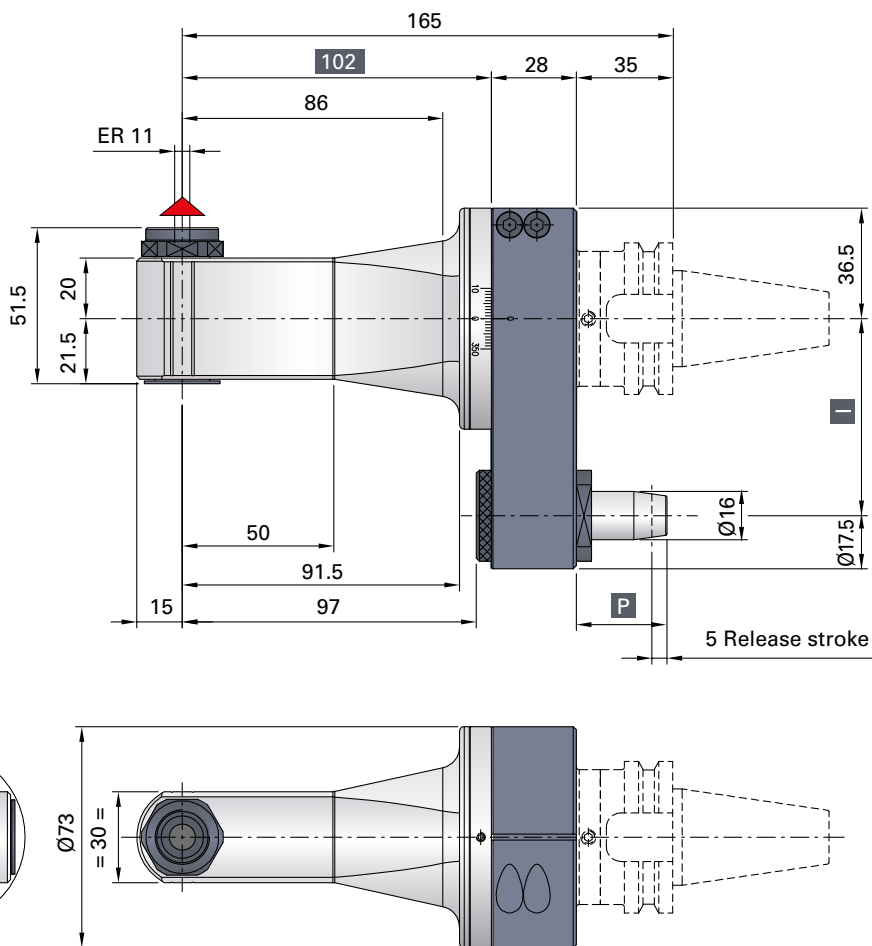
Collet  
ERAX-11  
(0.5-7 mm)



Shank  
ISO 30DIN-  
69871/BT-30

**\* STANDARD EQUIPMENT INCLUDES:**

- Instruction book
- wrenches
- special bag



For the application on the machine please refer to page 7



Direction of rotation opposite to machine spindle

Option



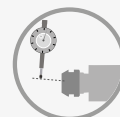
AIR/OIL

Oil lubrication



bar max  
12

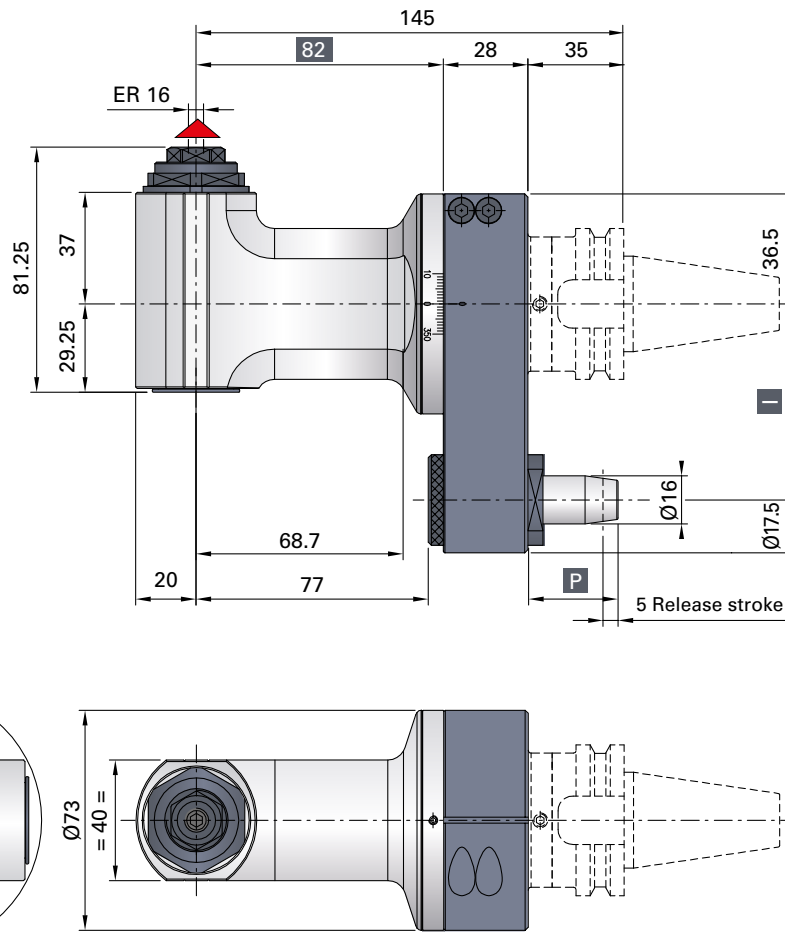
Coolant through pin



Spindle precision

0.002 mm / 0.00008 in

# T90cn-1.5M



Ratio  
1:1



RPM  
8,000 min<sup>-1</sup>



Max. axial load  
250 N



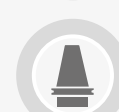
Torque  
15 Nm



Weight  
6.4 lb



Collet  
ER 16 (1-10 mm)



Shank  
ISO 30DIN-  
69871/BT-30

## \* STANDARD EQUIPMENT INCLUDES:

- Instruction book
- wrenches
- special bag



For the application on the machine please refer to page 7



Direction of rotation opposite to machine spindle

## Option



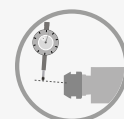
AIR/OIL

Oil lubrication



bar max  
40

Coolant through spindle



Spindle precision

0.002 mm / 0.00008 in



Ratio  
1.5:1



RPM  
6,000



Max. axial load  
215 N



Torque  
8 Nm



Weight  
6.2 lb



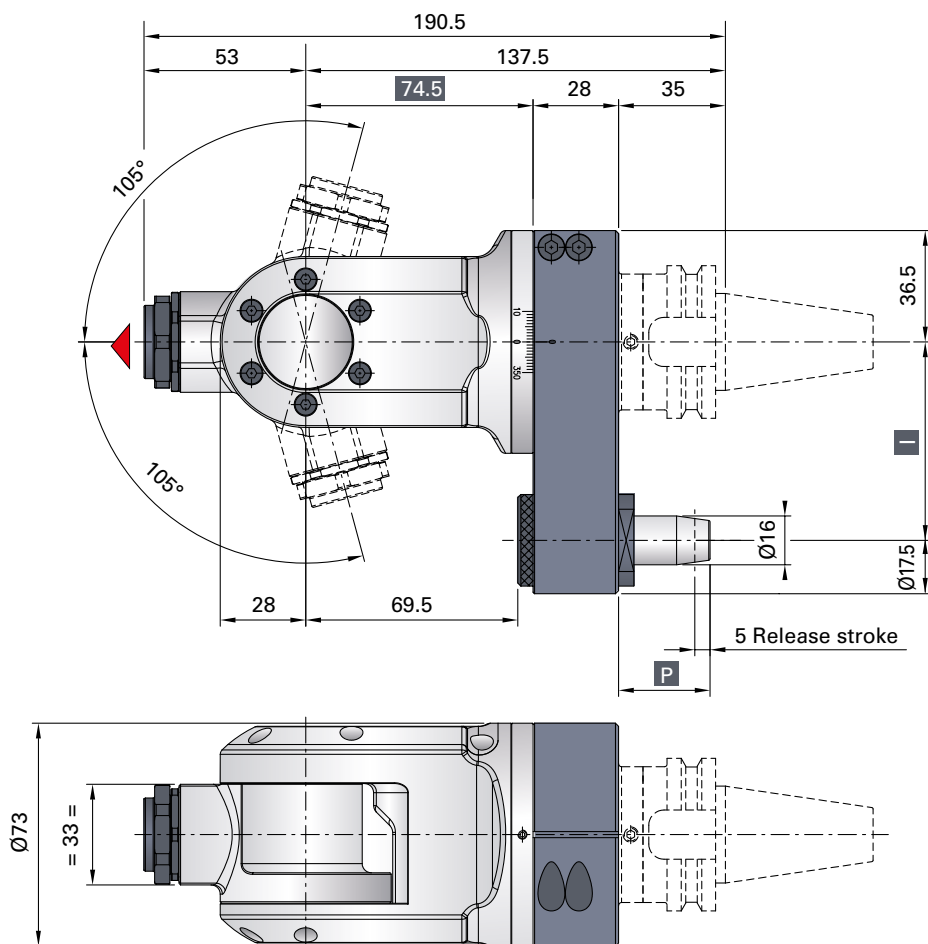
Collet  
ERAX-11  
(0.5-7 mm)



Shank  
ISO 30DIN-  
69871/BT-30

**\* STANDARD EQUIPMENT INCLUDES:**

- Instruction book
- wrenches
- special bag



For the application on the machine please refer to page 7



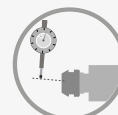
Direction of rotation opposite to machine spindle

**Option**



bar max  
12

Coolant through pin



Spindle precision

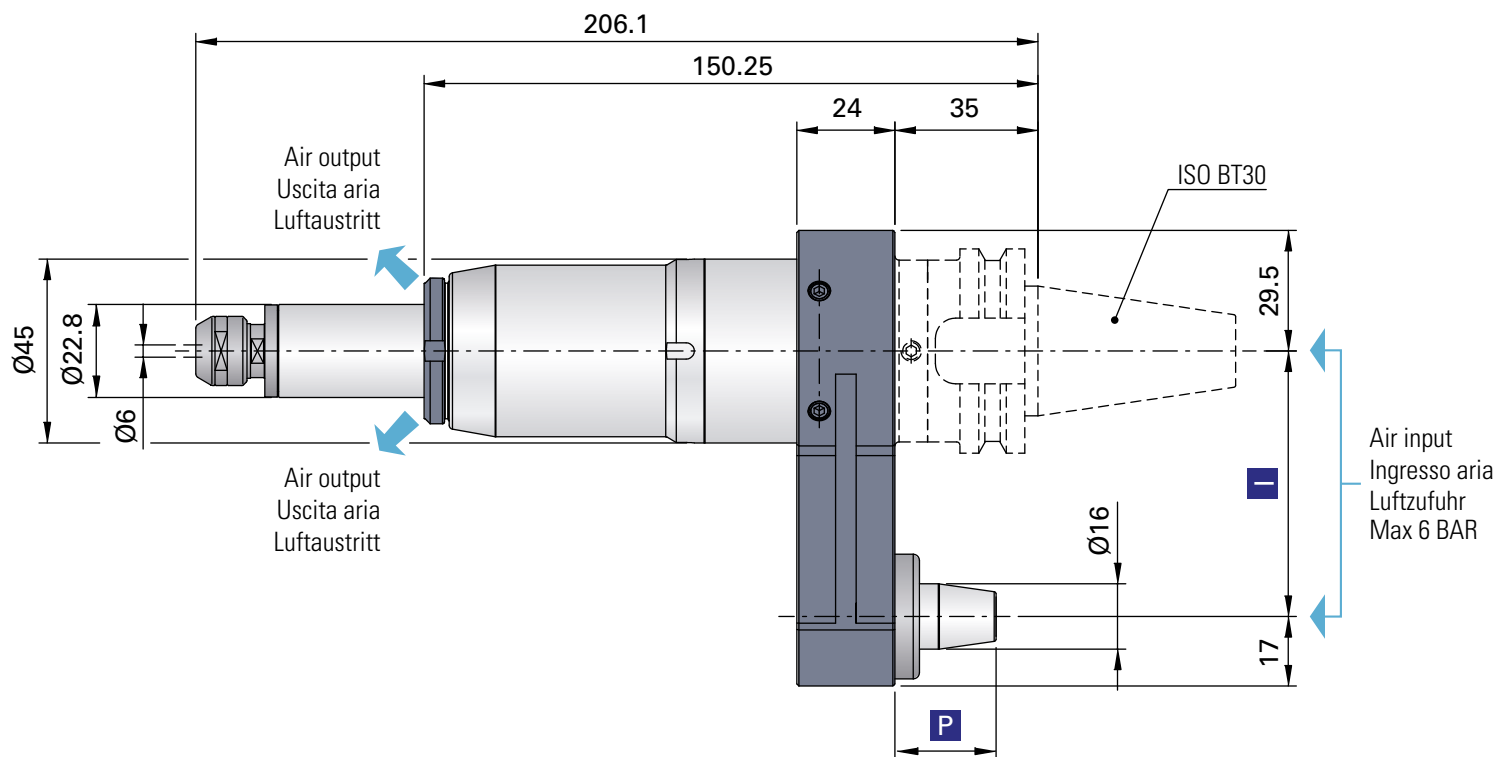
0.002 mm / 0.00008 in

# TURBODRILL NR-2351

Driven through air motor



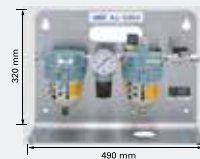
Machine spindle must not rotate



Possibility of order TURBODRILL without flange and pin with air through spindle

- Per other applications with air motor with ISO/BT40-50 please refer to Slimline Catalogue

## Air line kit



## STANDARD EQUIPMENT INCLUDES:

- NAKANISHI Kit
- Angle head
- Collet Ø 3 mm
- Wrenches
- Instruction book
- Case

## Performance

### Technical Data

RPM max		58,000
Type motor		AM-600
Type spindle		NR-2351
Power	W	76
Air pressure	Bar	max. 6 (max. 90 Psi)
Air consumption	NI/min	160
Weight	lb	4.4



CHK Ø 0.5 - max 6mm  
every 0.1 mm

Collet



Collant option

It is possible to use coolant external during the machining.



# MINILINE STOP BLOCK

## FANUC ROBODRILL



I	65
P	24

## BROTHER S2D



I	80
P	24

## BROTHER TC-32



I	80
P	30

## BROTHER R450X1



I	50
P	24

## BROTHER S500 S700 S1000



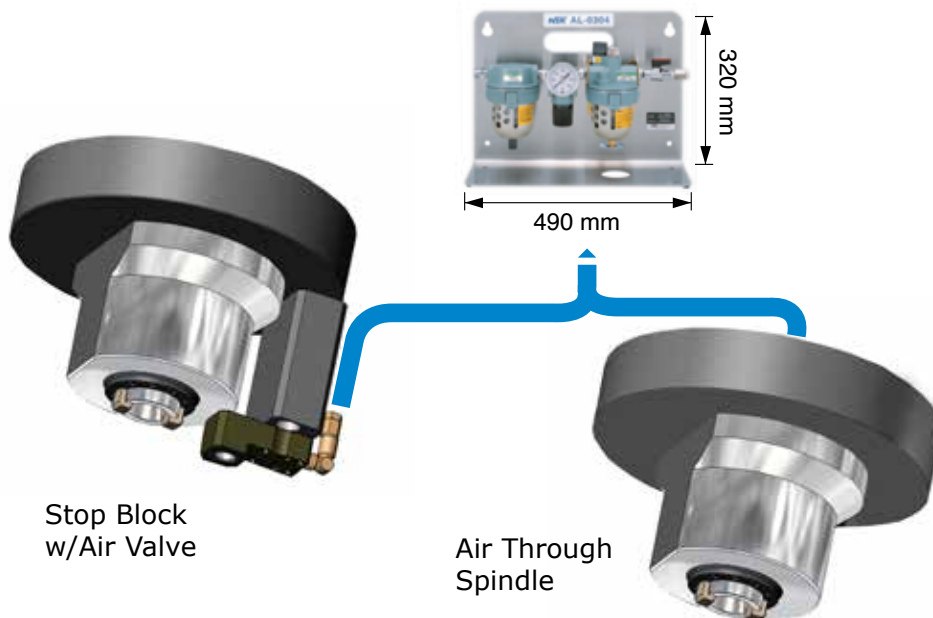
I	80
P	25,75

## DMG MORI MILLTAP 700



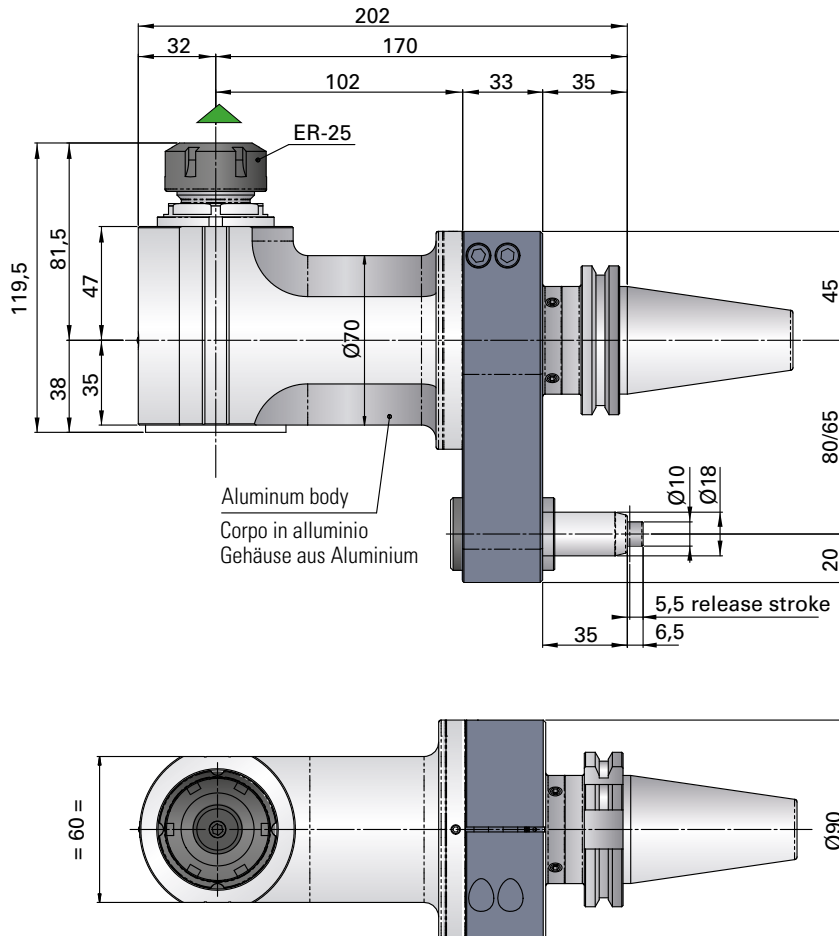
I	65
P	24

## AIR LINE KIT For Turbodrill only reference page 6





# T90cn-2.5M



Ratio  
1:1



RPM  
6,000



Max. axial load  
510 N



Torque  
20 Nm



Weight  
10.8 lb



Collet  
ER 25  
(Ø1-16 mm)



Shank  
ISO40 DIN-  
69871/BT-40

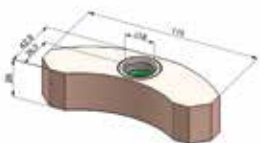
## \* STANDARD EQUIPMENT INCLUDES:

- Instruction book
- wrenches
- special bag

▲ Direction of rotation same as machine spindle

## Option

STOP BLOCK for heads



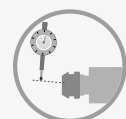
AIR/OIL

Oil lubrication



bar max  
40

Coolant through spindle



Spindle precision

0.002 mm / 0.00008 in



Ratio  
1:1



RPM  
4,000



Max. axial load  
1250 N



Torque  
40 Nm



Weight  
12.2 lb



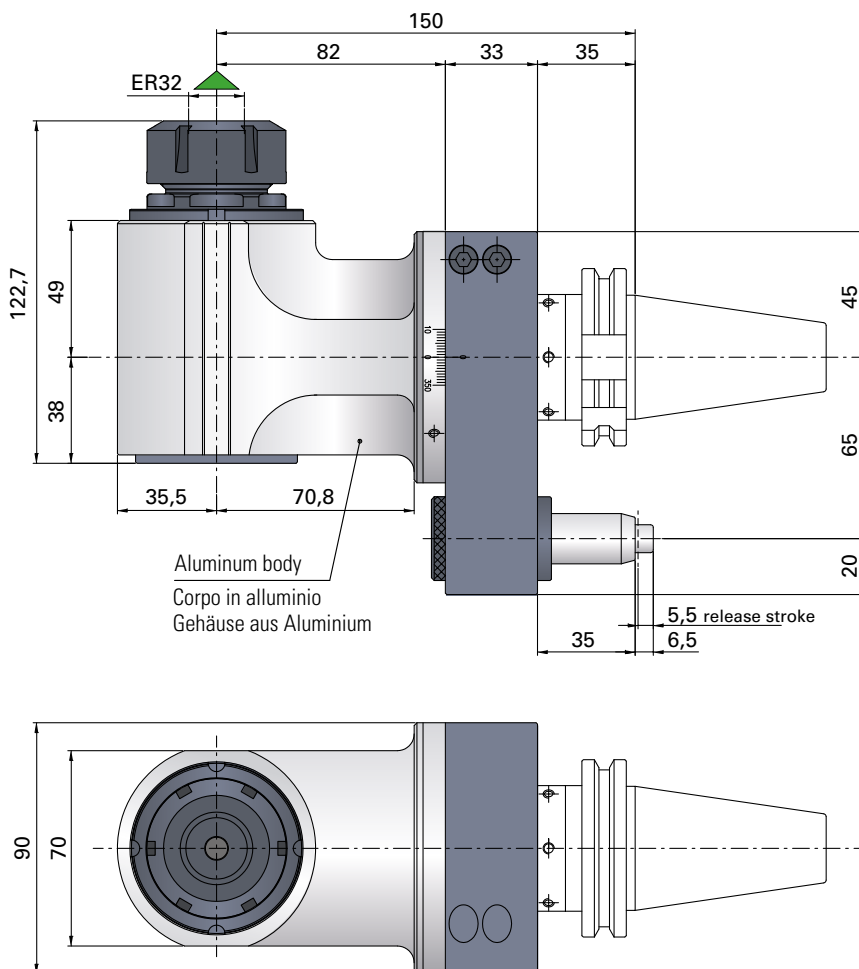
Collet  
ER 32  
(Ø2-20 mm)



Shank  
ISO40 DIN-  
69871/BT-40

**\* STANDARD EQUIPMENT INCLUDES:**

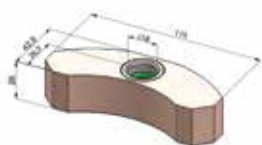
- Instruction book
- wrenches
- special bag



▲ Direction of rotation same as machine spindle

**Option**

STOP BLOCK for heads



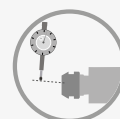
**AIR/OIL**

Oil lubrication



bar max  
**40**

Coolant through pin



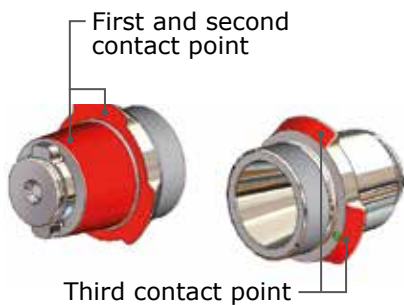
**Spindle precision**

0.002 mm / 0.00008 in

New innovative quick change system, SMART CHANGE, entirely developed and patented by Alberti. Thanks to the 3-point contacts it ensures the greatest precision and repeatability... **QUICK • EASY • PRECISE**

Possibility to preset the different adapters outside the machine

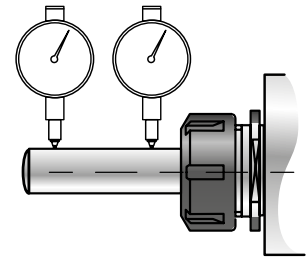
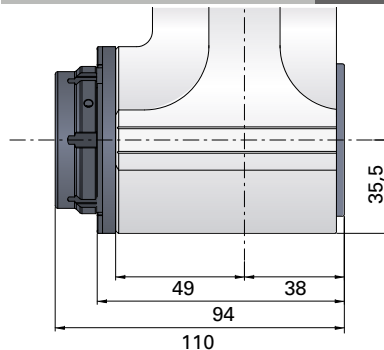
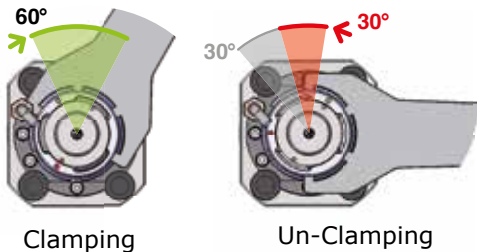
## TRIPLE CONTACT SYSTEM



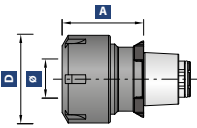
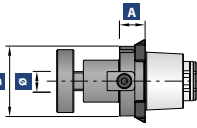
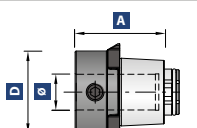
## HIGHEST ACCURACY AND REPEATABILITY

Run-Out of the collet chuck with adapter mounted repeatability	0.005 $\mu$ m	Accuracy with gauge bar inserted in the collet chunk
Adapter change time	20 sec.	at 40 mm = 0.008 mm (1.57 in = 0.0003 in)
Repeatability	0.003 mm 0.0001 in	at 120 mm = 0.01 mm (4.72 in = 0.0004 in)

## HOW IT WORKS



## SELECTION OF ADAPTERS

	ER-20 (Ø 1/13mm)		ER-25 (Ø 1/17mm)		ER-32 (Ø 2/22mm)		ERC-20 (Ø 1/13mm)		ERC-25 (Ø 1/17mm)		ERC-32 (Ø 2/22mm)	
	Ø	1/13	Ø	1/17	Ø	2/22	Ø	1/13	Ø	1/17	Ø	2/22
	A	28.5	A	30.5	A	41.5	A	33.5	A	35.5	A	46.5
	D	34	D	42	D	50	D	34	D	42	D	50
	SHELL MILL HOLDER		SHELL MILL HOLDER		SHELL MILL HOLDER		SHELL MILL HOLDER		SHELL MILL HOLDER		SHELL MILL HOLDER	
	Ø	13	Ø	16	Ø	22	Ø	13	Ø	16	Ø	22
	A	24.5	A	30.5	A	32.5	A	24.5	A	30.5	A	32.5
	H	13	H	17	H	19	H	13	H	17	D	19
	WELDON (Ø 6mm)		WELDON (Ø 8mm)		WELDON (Ø 10mm)		WELDON (Ø 12mm)		WELDON (Ø 16mm)			
	Ø	6	Ø	8	Ø	10	Ø	12	Ø	16		
	A	20	A	20	A	20	A	20	A	20		
	D	36.8	D	36.8	D	36.8	D	36.8	D	36.8		

# UNLOCK YOUR POTENTIAL TODAY!

For Over 40 years Koma Precision Inc. has partnered with Tsudakoma and Alberti, to become the North American leader in machine tool accessories. Both Tsudakoma and Alberti machine tool accessories are built to the highest standards and set the bar for excellence, quality, and performance.

Koma Precision has an installation base of over 30,000 Tsudakoma rotary tables and 25,000 Alberti angle heads and live tools, leading the way with knowledge and experience.

## **Knowledge and Experience Matter.**

Our three facilities totaling 40,000 sq/ft, feature a full machine shop, state-of-the-art inspection and test equipment, and product demonstration showroom. Our Connecticut based headquarters also houses our multi-million-dollar inventory of new products and spare parts.



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