



TURBODRILL/TURBOFLEX



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Alberti TURBODRILL & TURBOFLEX Air Driven Tools

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With over 12,000 angle heads and live tools installed, KOMA Precision is the world's largest supplier for ALBERTI - the originator and the foremost innovator of productivity tooling.

ALBERTI: A Complete Range of Productivity Tooling Without Comparison

ALBERTI has been manufacturing angle heads since 1986. Within a few years ALBERTI tooling became internationally renowned for precision, quality, and reliability. Available tools include over 50 different types of standard angle heads and more than 250 types of standard live tools. ALBERTI innovation and passion for perfection has made it the world leader in precision tooling.

Compact Ultra High Speed NSK® Output Air Driven Tools

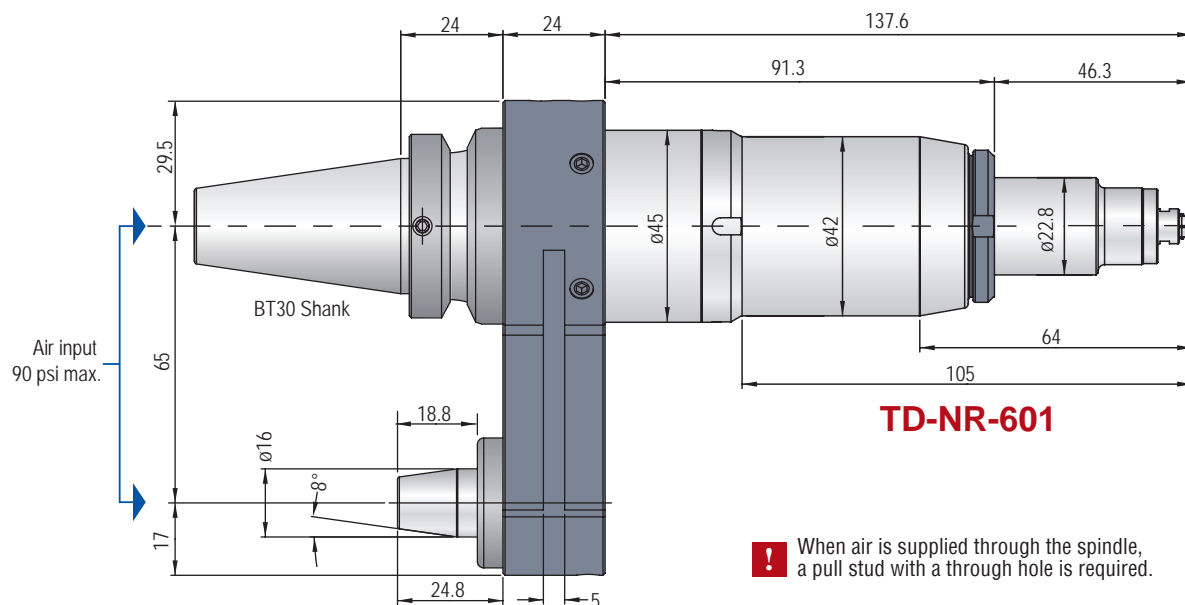
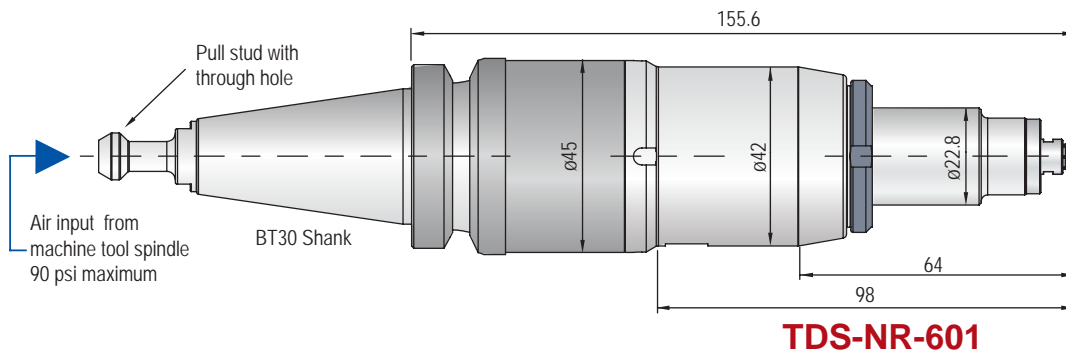
ALBERTI Turbodrill models are compact, ultra high speed air driven tools especially suited for compact vertical machining centers.

Turbodrill tools are offered in four versions:

- TDS-NR-601: an axial model with air supplied through the spindle.
- TD-NR-601: an axial model with air supplied through the spindle or a stop block.
- TD-NR-601-30: an axial model with air supplied through the spindle or a stop block.
- TD-RA-200: a 90° model with air supplied through the spindle or a stop block.

An optional conversion kit is available to transform a TD-NR-601-30 to a TD-RA-200.

Dimensional Drawing

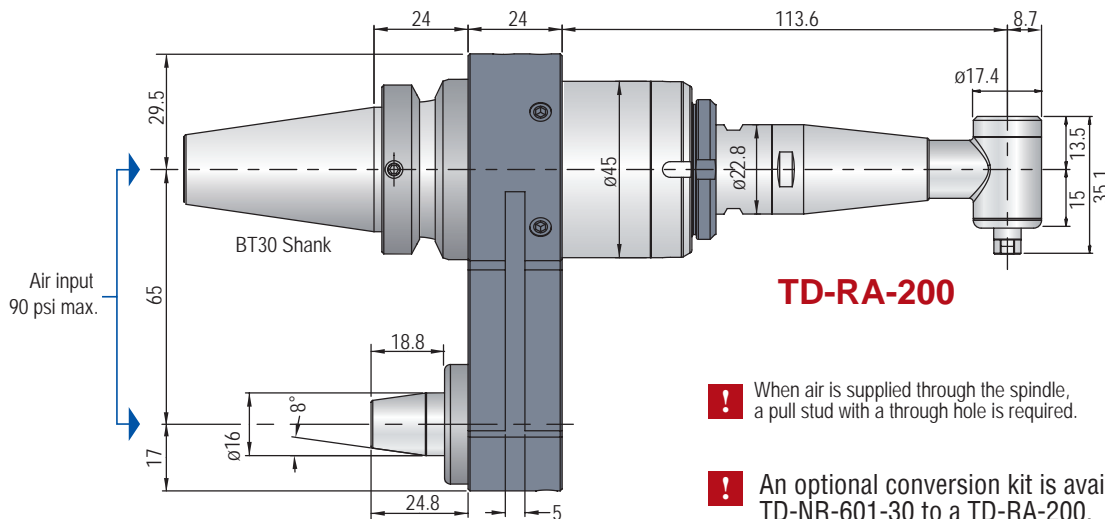
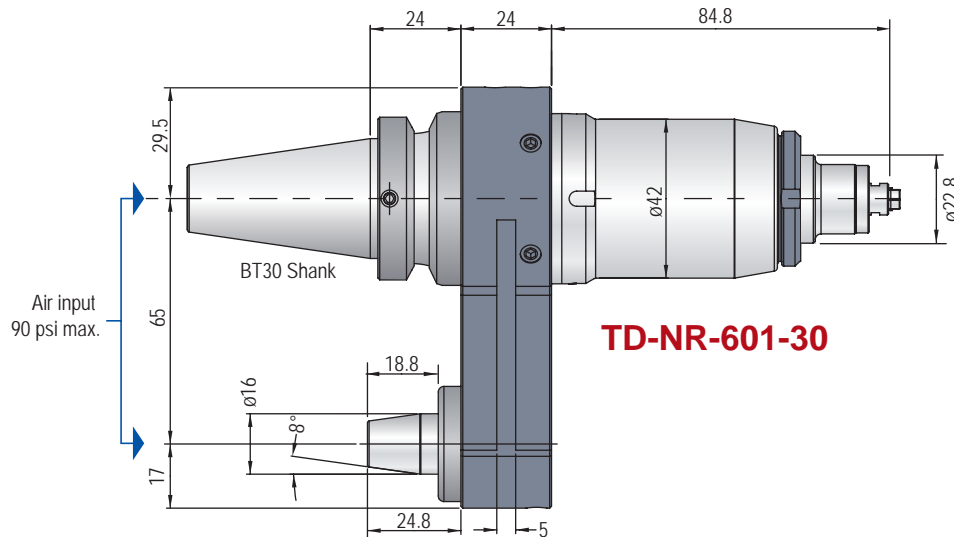


Technical Data

TDS-NR-601			
Tool RPM maximum	58,000	Reduction Ratio	1/1
NSK Output RPM	58,000	Air Pressure	90 psi max.
Air Motor	AM-600	Air Consumption	5.65 cfm
NSK Output Tool	NR-601	Weight	2.7 lbs
Power	0.10 HP	Collet	CHM

TD-NR-601			
Tool RPM maximum	58,000	Reduction Ratio	1/1
NSK Output RPM	58,000	Air Pressure	90 psi max.
Air Motor	AM-600	Air Consumption	5.65 cfm
NSK Output Tool	NR-601	Weight	4.1 lbs
Power	0.10 HP	Collet	CHM

Included with Tool: Storage Case • Wrenches • Grease • Instruction Manual



! When air is supplied through the spindle, a pull stud with a through hole is required.

! An optional conversion kit is available to transform a TD-NR-601-30 to a TD-RA-200.

Technical Data

TD-NR-601-30			
Tool RPM maximum	30,000	Reduction Ratio	1/1
NSK Output RPM	30,000	Air Pressure	90 psi max.
Air Motor	AM-310	Air Consumption	7.98 cfm
NSK Output Tool	NR-601	Weight	4.1 lbs
Power	0.14HP	Collet	CHM

TD-RA-200			
Tool RPM maximum	30,000	Reduction Ratio	1/1.5
NSK Output RPM	20,000	Air Pressure	90 psi max.
Air Motor	AM-310	Air Consumption	7.98 cfm
NSK Output Tool	RA-200	Weight	4.1 lbs
Power	0.14 HP	Collet	CHS

Included with Tool: Storage Case • Wrenches • Grease • Instruction Manual

COLLETS

CHS (for TD-RA-200)



Model	Inside Diameter (mm)
GP-59027-00	0.8
GP-59028-00	0.9
GP-59029-00	1.0
GP-59030-00	1.1
GP-59031-00	1.2
GP-59032-00	1.3
GP-59033-00	1.4
GP-59034-00	1.5
GP-59012-00	1.6
GP-59035-00	1.7
GP-59036-00	1.8
GP-59037-00	1.9
GP-59016-00	2.0
GP-59038-00	2.1
GP-59039-00	2.2
GP-59040-00	2.3
GP-59041-00	2.35
GP-59042-00	2.4
GP-59013-00	2.5
GP-59043-00	2.6
GP-59044-00	2.7
GP-59045-00	2.8
GP-59046-00	2.9
GP-59009-00	3.0
GP-59011-00	3.175

COLLETS

CHM (for TDS-NR-601 • TD-NR-601/601-30)



Model	Inside Diameter (mm)
GP-59073-00	0.3
GP-59074-00	0.4
GP-59075-00	0.5
GP-59076-00	0.6
GP-59077-00	0.7
GP-59078-00	0.8
GP-59079-00	0.9
GP-59080-00	1.0
GP-59081-00	1.1
GP-59082-00	1.2
GP-59083-00	1.3
GP-59084-00	1.4
GP-59085-00	1.5
GP-59086-00	1.6
GP-59087-00	1.7
GP-59088-00	1.8
GP-59089-00	1.9
GP-59090-00	2.0
GP-59091-00	2.1
GP-59092-00	2.2
GP-59093-00	2.3
GP-59094-00	2.35
GP-59095-00	2.4
GP-59096-00	2.5
GP-59097-00	2.6
GP-59098-00	2.7
GP-59099-00	2.8
GP-59100-00	2.9
GP-59101-00	3.0
GP-59102-00	3.175

OPTIONAL AIR LINE KIT



Stop Block w/Air Valve

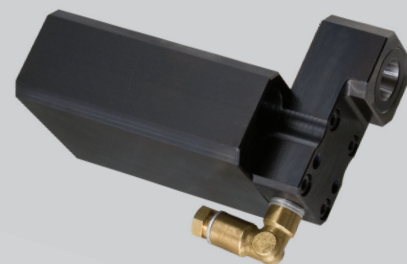


Air Through Spindle

OPTIONAL AIR LINE KIT



OPTIONAL TURBODRILL STOP BLOCK



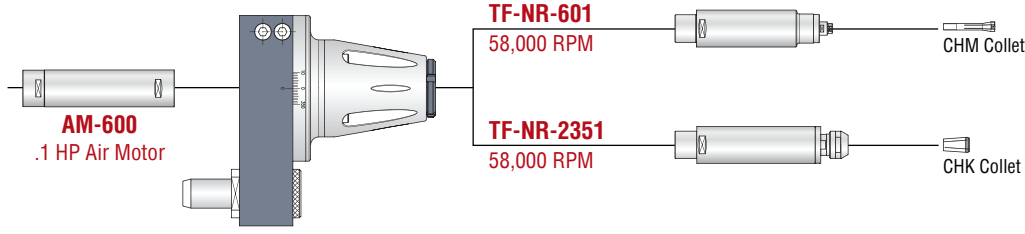


Ultra High Speed NSK® Output Air Driven Tools

ALBERTI Turboflex models are a line of high speed air driven tools designed to be used on machining centers equipped with automatic tool changers. The orientation ring and the arrester arm, which carries the arrester pin, can both be rotated through 360°. This allows easy adjustment of the drive taper and head relative to a stop block mounted on the machining center spindle housing.

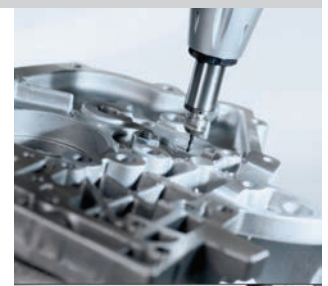
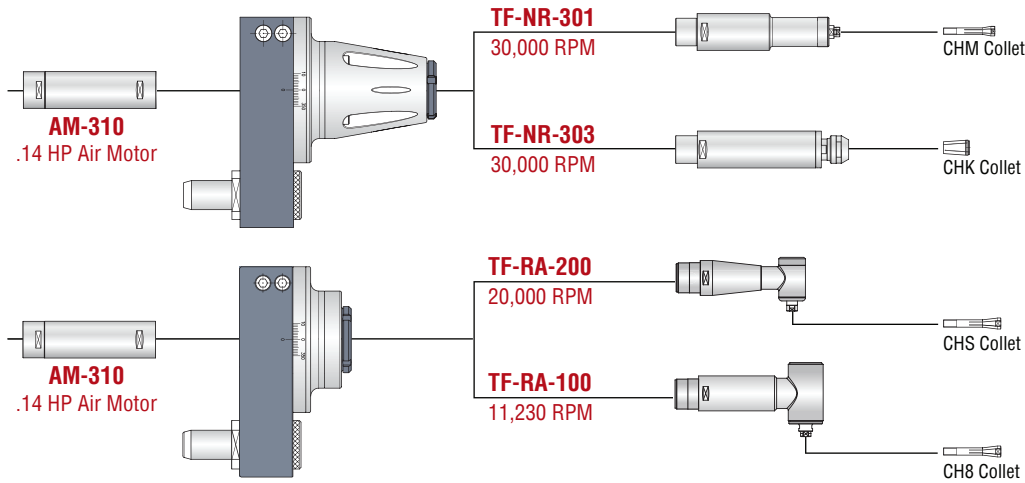
High Speed Tools up to 58,000 RPM

(Pages 9-10)



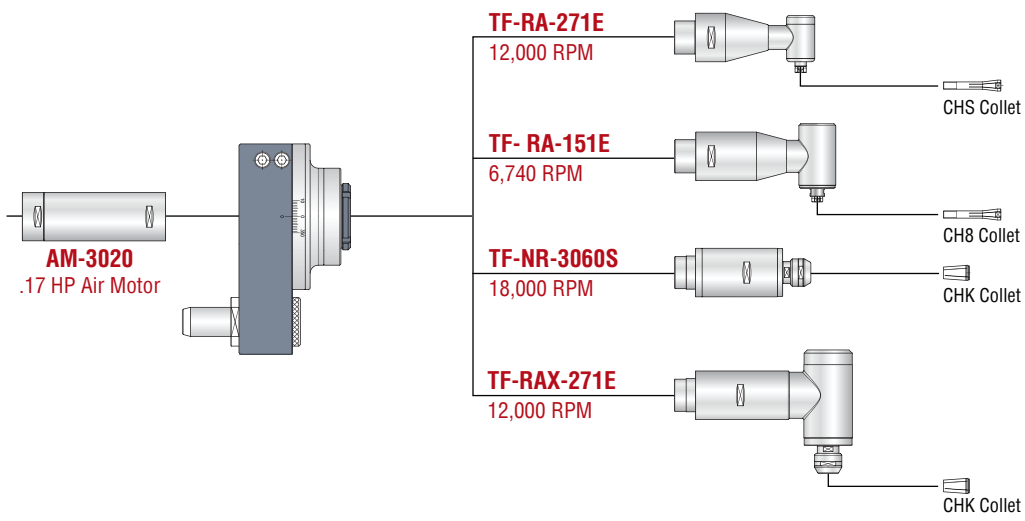
High Speed Tools up to 30,000 RPM

(Pages 11-14)

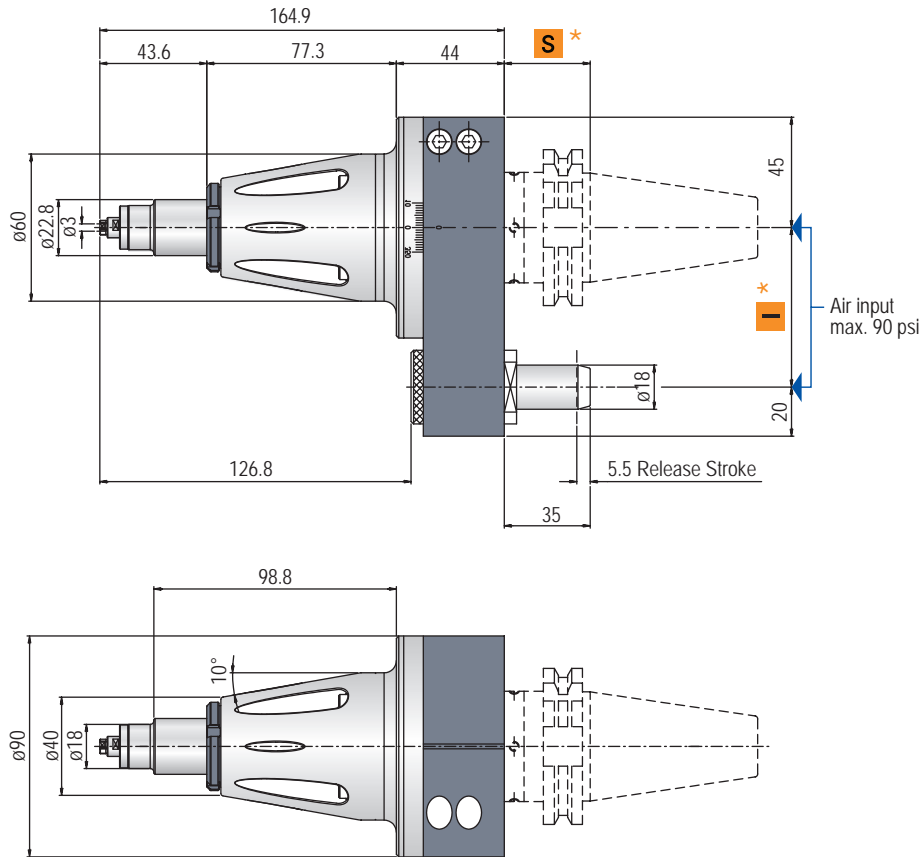


High Speed Tools up to 18,000 RPM

(Pages 15-18)

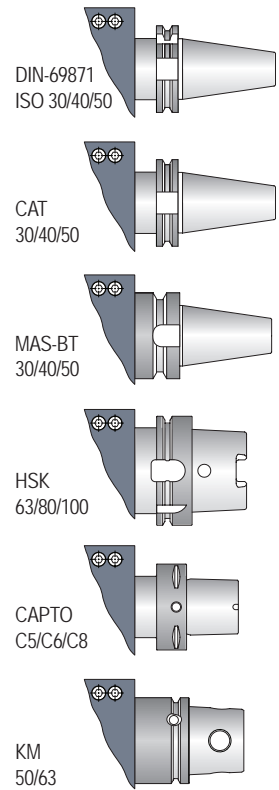


Dimensional Drawing*



Optional Drive Shanks*

Non interchangeable input drive shank



Dimensional Drawing & Optional Drive Shanks*

SHANK	DIN-69871 / CAT			MAS / BT			HSK		CAPTO		KM
Size	30	40	50	30	40	50	63/80	100	C5/C6	C8	50/63
I Arm Length (mm)	65,80	65,80 (110*)	80 (110*)	65,80	65,80 (110*)	80 (110*)	65,80 (110*)	80 (110*)	65,80 (110*)	80 (110*)	65,80 (110*)
S Flange Spacing (mm)	35	35	35	30	35	41	42	45	38	40	40

*optional

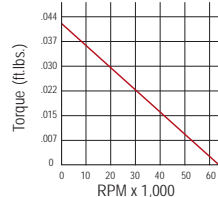
Technical Data

TF-NR-601			
Tool RPM Maximum	58,000	Reduction Ratio	1/1
NSK Output RPM	58,000	Air Pressure	90 psi max.
Air Motor	AM-600	Air Consumption	5.65 cfm
NSK Output Tool	NR-601	Weight	8.8 lbs
Power	0.1 HP	Collet	CHM

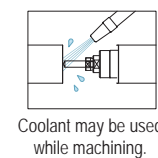
Included with Tool: Storage Case • Wrenches • Grease • Instruction Manual

Torque Speed

Torque-Speed Chart AM-600

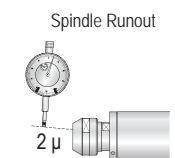


Coolant Option

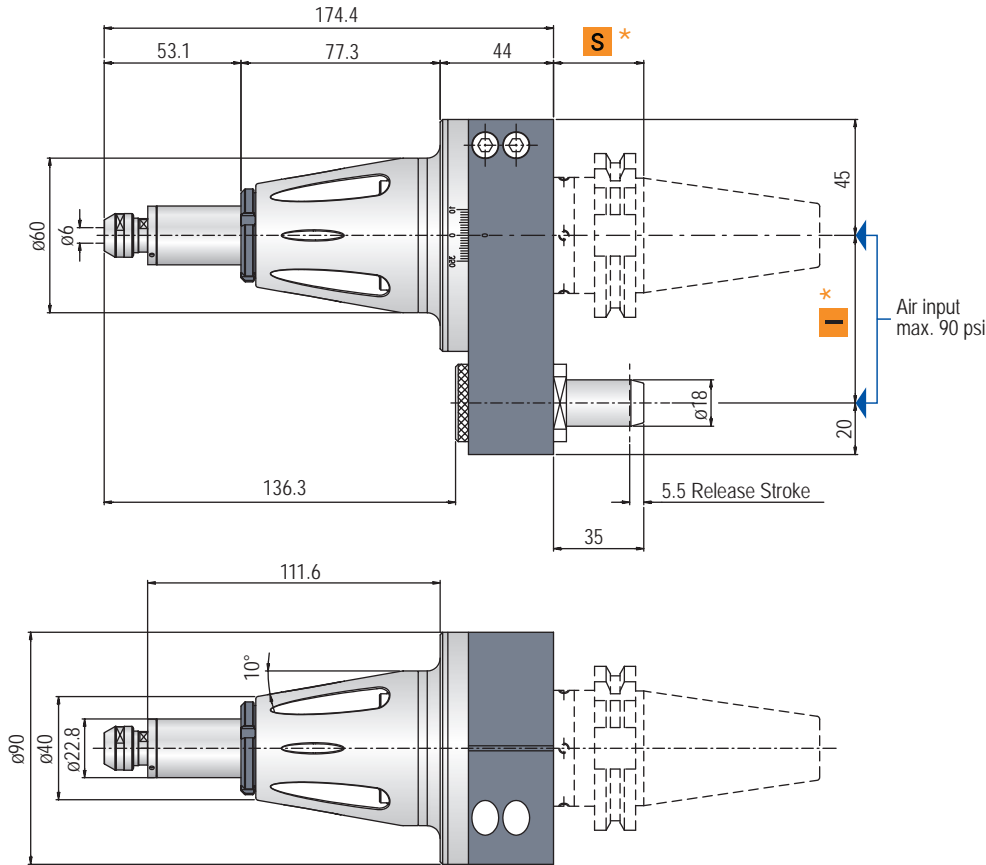


Coolant may be used while machining.

Spindle Runout

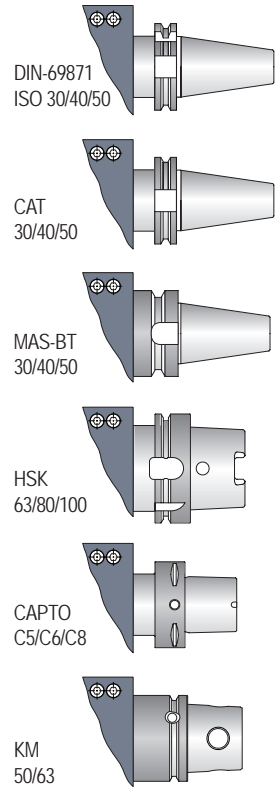


Dimensional Drawing*



Optional Drive Shanks*

Non interchangeable input drive shank



Dimensional Drawing & Optional Drive Shanks*

SHANK	DIN-69871 / CAT			MAS / BT			HSK	CAPTO		KM	
Size	30	40	50	30	40	50	63/80	100	C5/C6	C8	50/63
I Arm Length (mm)	65,80	65,80 (110*)	80 (110*)	65,80	65,80 (110*)	80 (110*)	65,80 (110*)	80 (110*)	65,80 (110*)	80 (110*)	65,80 (110*)
S Flange Spacing (mm)	35	35	35	30	35	41	42	45	38	40	40

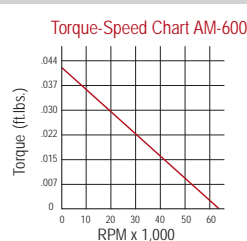
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Technical Data

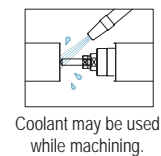
TF-NR-2351			
Tool RPM Maximum	58,000	Reduction Ratio	1/1
NSK Output RPM	58,000	Air Pressure	90 psi max.
Air Motor	AM-600	Air Consumption	5.65 cfm
NSK Output Tool	NR-2351	Weight	8.8 lbs
Power	0.1 HP	Collet	CHK

Included with Tool: Storage Case • Wrenches • Grease • Instruction Manual

Torque Speed

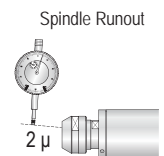


Coolant Option

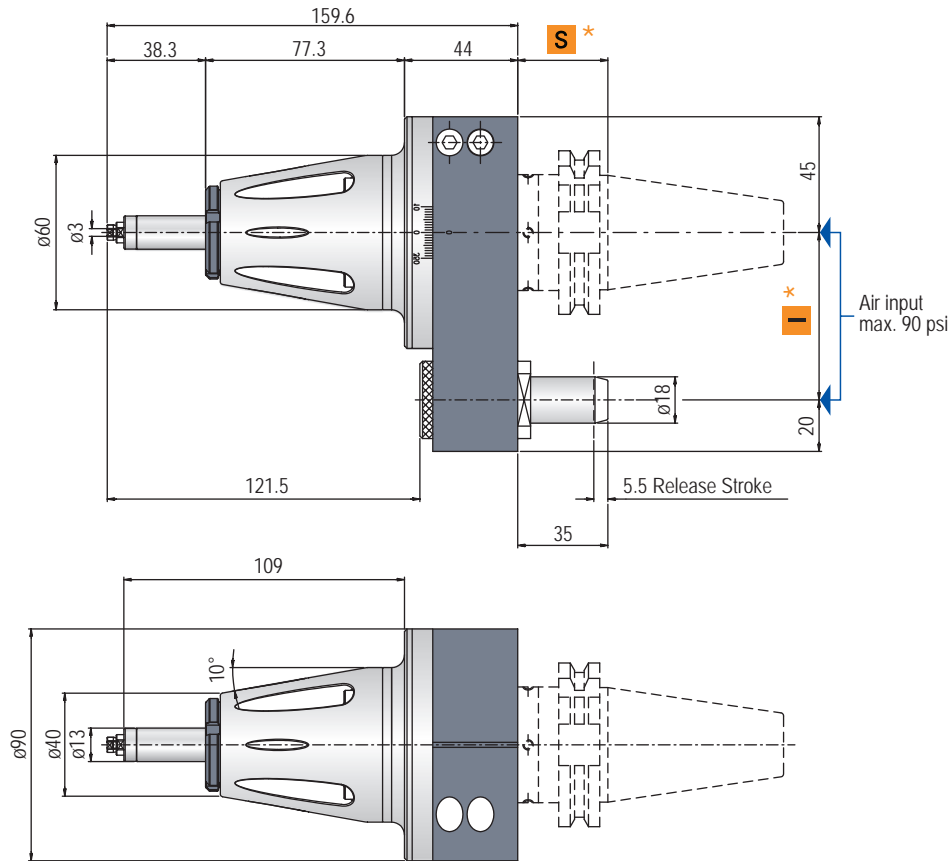


Coolant may be used while machining.

Spindle Runout

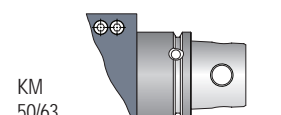
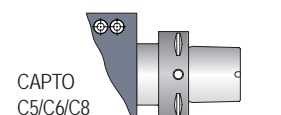
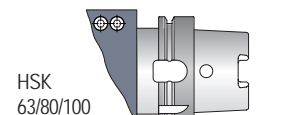
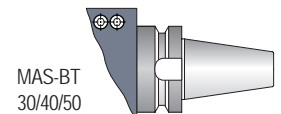
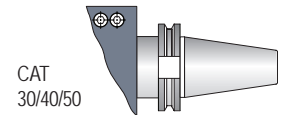
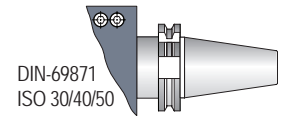


Dimensional Drawing*



Optional Drive Shanks*

Non interchangeable input drive shank



Dimensional Drawing & Optional Drive Shanks*

SHANK	DIN-69871 / CAT			MAS / BT			HSK		CAPTO		KM
Size	30	40	50	30	40	50	63/80	100	C5/C6	C8	50/63
I Arm Length (mm)	65,80	65,80 (110*)	80 (110*)	65,80	65,80 (110*)	80 (110*)	65,80 (110*)	80 (110*)	65,80 (110*)	80 (110*)	65,80 (110*)
S Flange Spacing (mm)	35	35	35	30	35	41	42	45	38	40	40

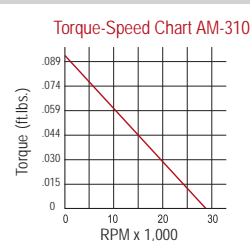
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Technical Data

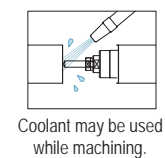
TF-NR-301			
Tool RPM Maximum	30,000	Reduction Ratio	1/1
NSK Output RPM	30,000	Air Pressure	90 psi max.
Air Motor	AM-310	Air Consumption	7.98 cfm
NSK Output Tool	NR-301	Weight	8.8 lbs
Power	0.14 HP	Collet	CHM

Included with Tool: Storage Case • Wrenches • Grease • Instruction Manual

Torque Speed

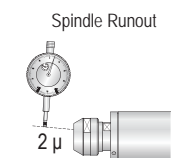


Coolant Option

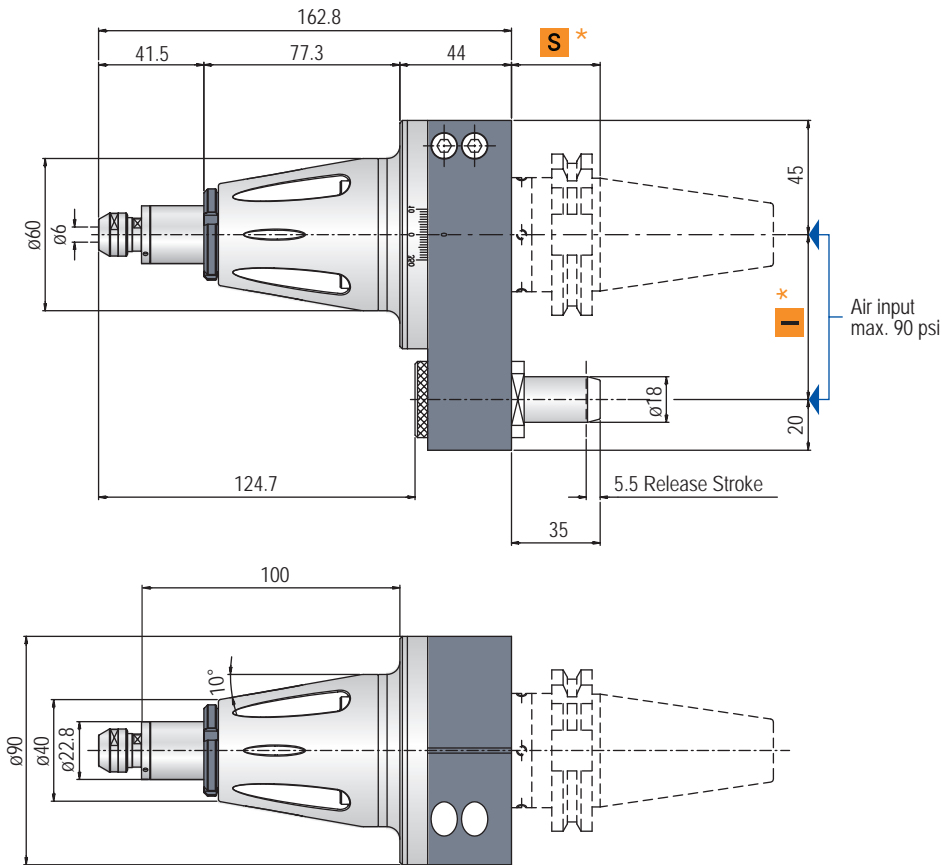


Coolant may be used while machining.

Spindle Runout

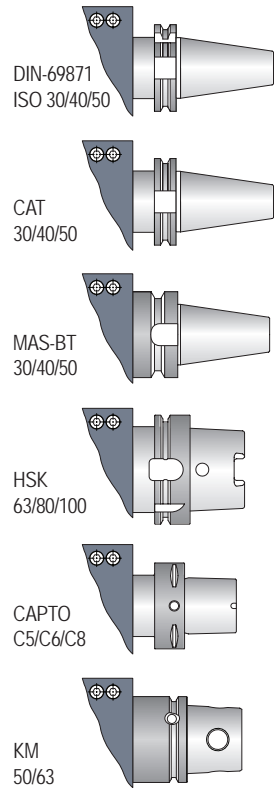


Dimensional Drawing*



Optional Drive Shanks*

Non interchangeable input drive shank



Dimensional Drawing & Optional Drive Shanks*

SHANK	DIN-69871 / CAT			MAS / BT			HSK		CAPTO		KM
Size	30	40	50	30	40	50	63/80	100	C5/C6	C8	50/63
I Arm Length (mm)	65,80	65,80 (110*)	80 (110*)	65,80	65,80 (110*)	80 (110*)	65,80 (110*)	80 (110*)	65,80 (110*)	80 (110*)	65,80 (110*)
S Flange Spacing (mm)	35	35	35	30	35	41	42	45	38	40	40

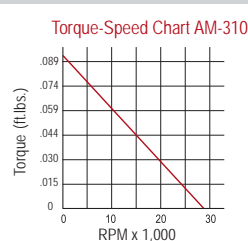
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Technical Data

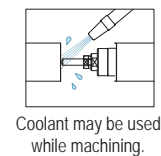
TF-NR-303			
Tool RPM Maximum	30,000	Reduction Ratio	1/1
NSK Output RPM	30,000	Air Pressure	90 psi max.
Air Motor	AM-310	Air Consumption	7.98 cfm
NSK Output Tool	NR-303	Weight	8.8 lbs
Power	0.14 HP	Collet	CHK

Included with Tool: Storage Case • Wrenches • Grease • Instruction Manual

Torque Speed

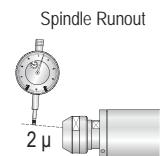


Coolant Option

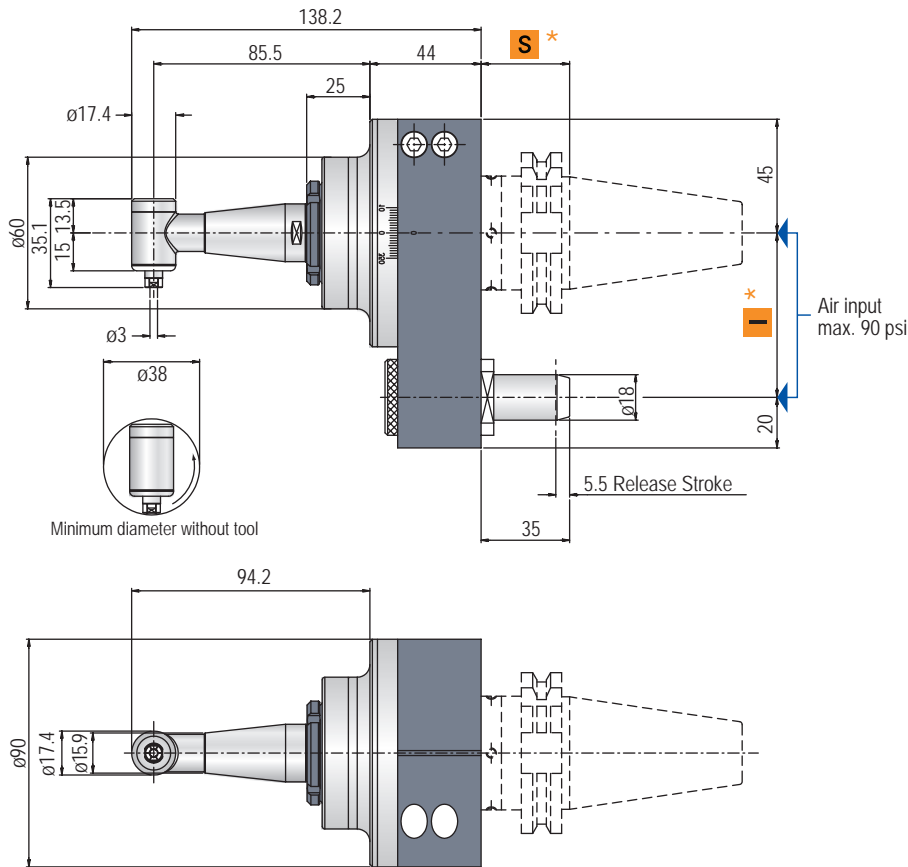


Coolant may be used while machining.

Spindle Runout

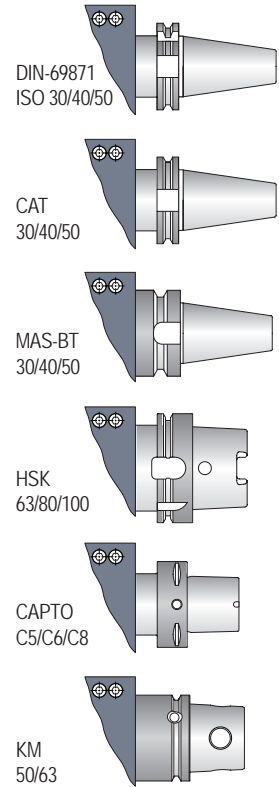


Dimensional Drawing*



Optional Drive Shanks*

Non interchangeable input drive shank



Dimensional Drawing & Optional Drive Shanks*

SHANK	DIN-69871 / CAT			MAS / BT			HSK		CAPTO		KM
Size	30	40	50	30	40	50	63/80	100	C5/C6	C8	50/63
I Arm Length (mm)	65,80	65,80 (110*)	80 (110*)	65,80	65,80 (110*)	80 (110*)	65,80 (110*)	80 (110*)	65,80 (110*)	80 (110*)	65,80 (110*)
S Flange Spacing (mm)	35	35	35	30	35	41	42	45	38	40	40

*optional

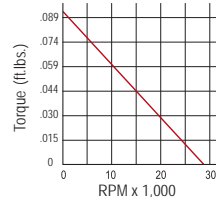
Technical Data

TF-RA-200			
Tool RPM Maximum	30,000	Reduction Ratio	1/1.5
NSK Output RPM	20,000	Air Pressure	90 psi max.
Air Motor	AM-310	Air Consumption	7.98 cfm
NSK Output Tool	RA-200	Weight	8.8 lbs
Power	0.14 HP	Collet	CHS

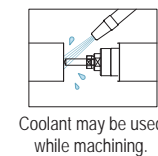
Included with Tool: Storage Case • Wrenches • Grease • Instruction Manual

Torque Speed

Torque-Speed Chart AM-310

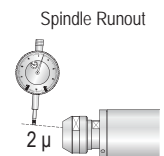


Coolant Option

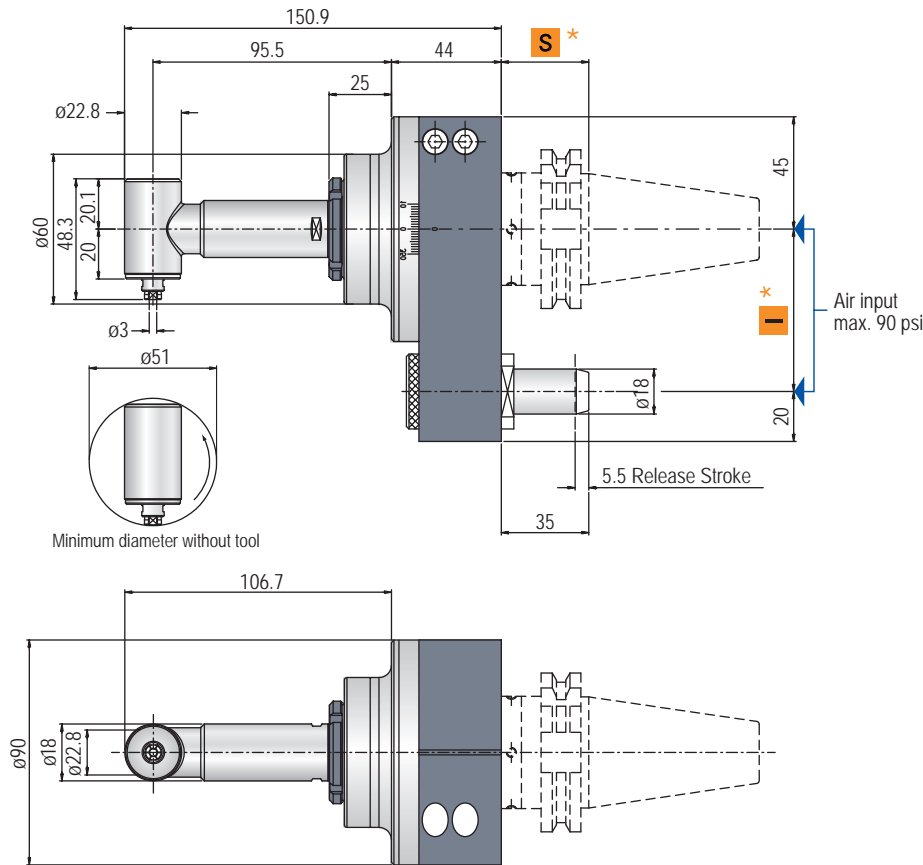


Coolant may be used while machining.

Spindle Runout

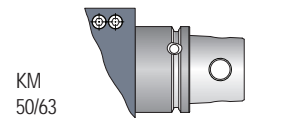
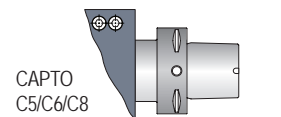
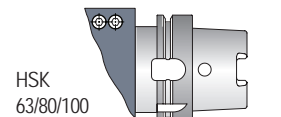
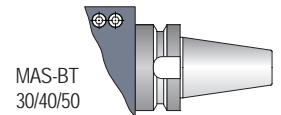
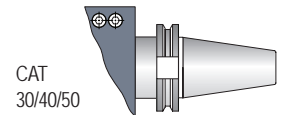
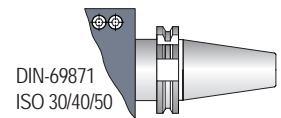


Dimensional Drawing*



Optional Drive Shanks*

Non interchangeable input drive shank



Dimensional Drawing & Optional Drive Shanks*

SHANK	DIN-69871 / CAT			MAS / BT			HSK		CAPTO		KM
	Size	30	40	50	30	40	50	63/80	100	C5/C6	C8
I Arm Length (mm)	65,80	65,80 (110*)	80 (110*)	65,80	65,80 (110*)	80 (110*)	65,80 (110*)	80 (110*)	65,80 (110*)	80 (110*)	65,80 (110*)
S Flange Spacing (mm)	35	35	35	30	35	41	42	45	38	40	40

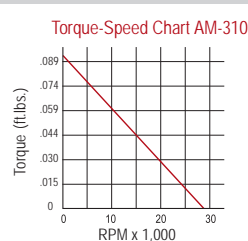
*optional

Technical Data

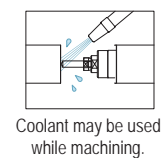
TF-RA-100			
Tool RPM Maximum	30,000	Reduction Ratio	1/2.67
NSK Output RPM	11,230	Air Pressure	90 psi max.
Air Motor	AM-310	Air Consumption	7.98 cfm
NSK Output Tool	RA-100	Weight	8.8 lbs
Power	0.14 HP	Collet	CH8

Included with Tool: Storage Case • Wrenches • Grease • Instruction Manual

Torque Speed

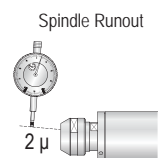


Coolant Option

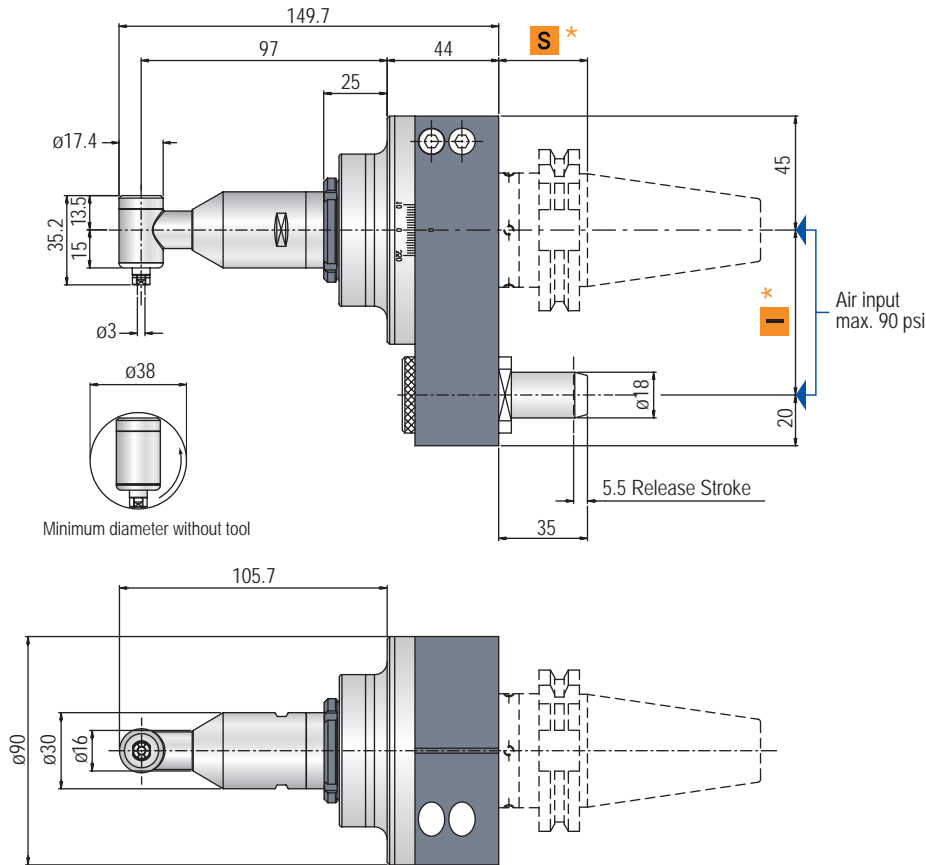


Coolant may be used while machining.

Spindle Runout

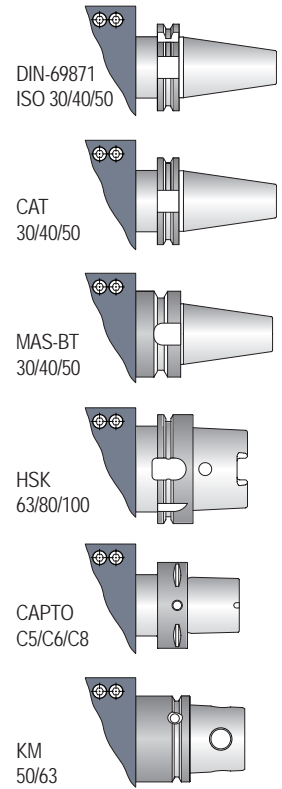


Dimensional Drawing*



Optional Drive Shanks*

Non interchangeable input drive shank



Dimensional Drawing & Optional Drive Shanks*

SHANK	DIN-69871 / CAT			MAS / BT			HSK		CAPTO		KM
Size	30	40	50	30	40	50	63/80	100	C5/C6	C8	50/63
I Arm Length (mm)	65,80	65,80 (110*)	80 (110*)	65,80	65,80 (110*)	80 (110*)	65,80 (110*)	80 (110*)	65,80 (110*)	80 (110*)	65,80 (110*)
S Flange Spacing (mm)	35	35	35	30	35	41	42	45	38	40	40

*optional

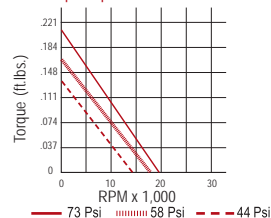
Technical Data

TF-RA-271E			
Tool RPM Maximum	18,000	Reduction Ratio	1/1.5
NSK Output RPM	12,000	Air Pressure	90 psi max.
Air Motor	AM-3020	Air Consumption	6.29 cfm
NSK Output Tool	RA-271E	Weight	8.8 lbs
Power	0.17 HP	Collet	CHS

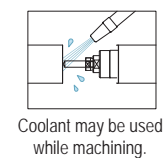
Included with Tool: Storage Case • Wrenches • Grease • Instruction Manual

Torque Speed

Torque-Speed Chart AM-3020

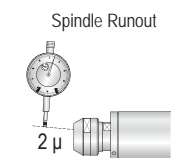


Coolant Option

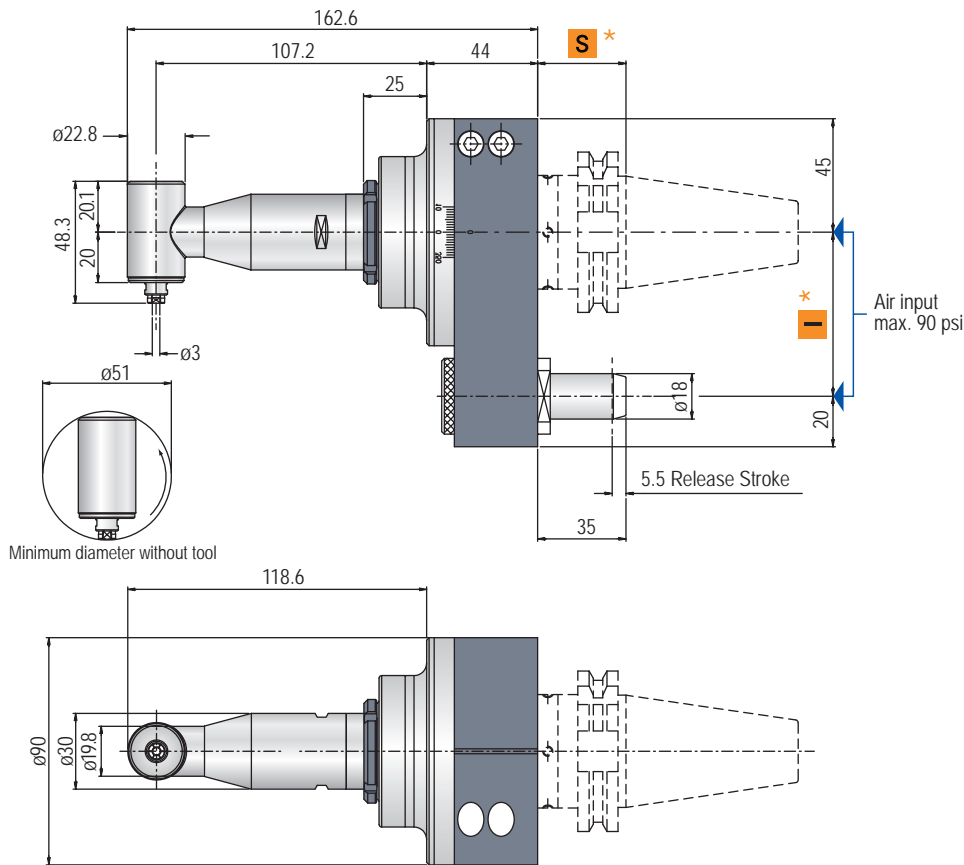


Coolant may be used while machining.

Spindle Runout

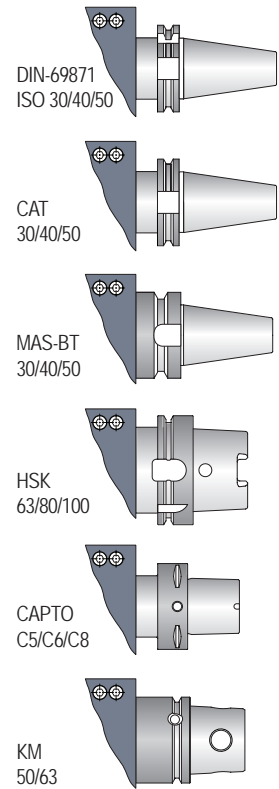


Dimensional Drawing*



Optional Drive Shanks*

Non interchangeable input drive shank



Dimensional Drawing & Optional Drive Shanks*

SHANK	DIN-69871 / CAT			MAS / BT			HSK	CAPTO		KM	
Size	30	40	50	30	40	50	63/80	100	C5/C6	C8	50/63
I Arm Length (mm)	65,80	65,80 (110*)	80 (110*)	65,80	65,80 (110*)	80 (110*)	65,80 (110*)	80 (110*)	65,80 (110*)	80 (110*)	65,80 (110*)
S Flange Spacing (mm)	35	35	35	30	35	41	42	45	38	40	40

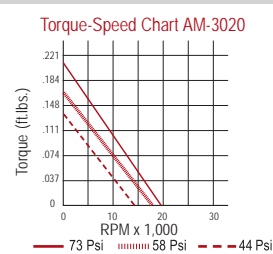
*optional

Technical Data

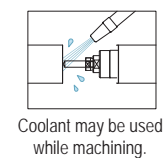
TF-RA-151E			
Tool RPM Maximum	18,000	Reduction Ratio	1/2.67
NSK Output RPM	6,740	Air Pressure	90 psi max.
Air Motor	AM-3020	Air Consumption	6.29 cfm
NSK Output Tool	RA-151E	Weight	8.8 lbs
Power	0.17 HP	Collet	CH8

Included with Tool: Storage Case • Wrenches • Grease • Instruction Manual

Torque Speed

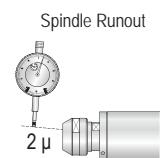


Coolant Option

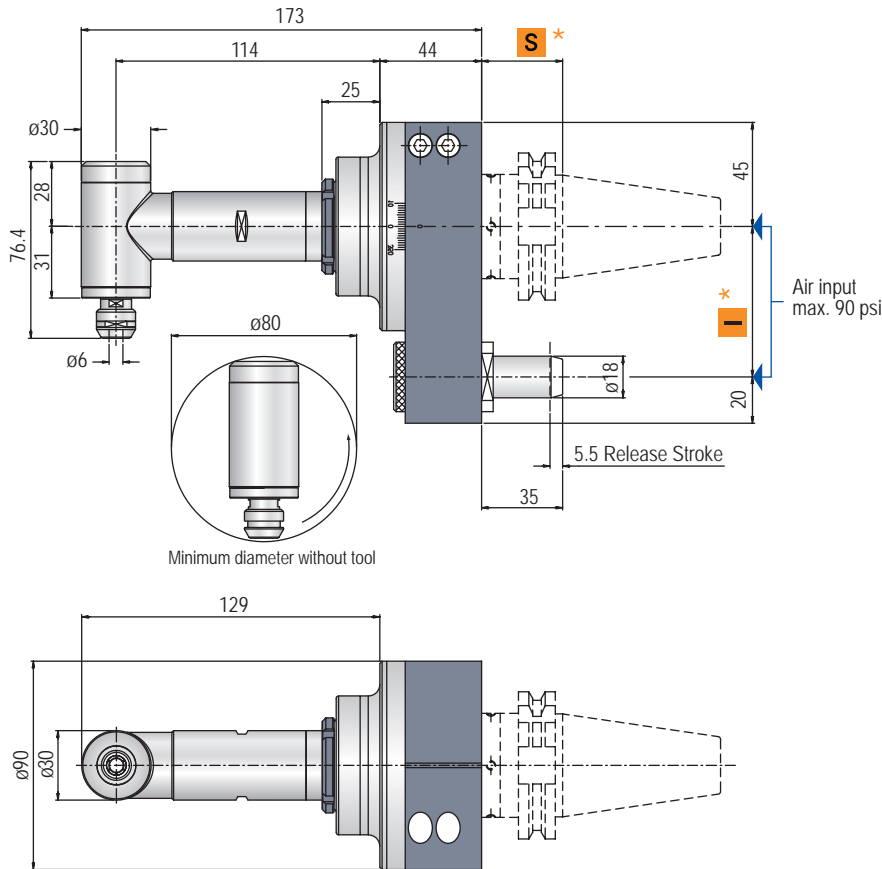


Coolant may be used while machining.

Spindle Runout

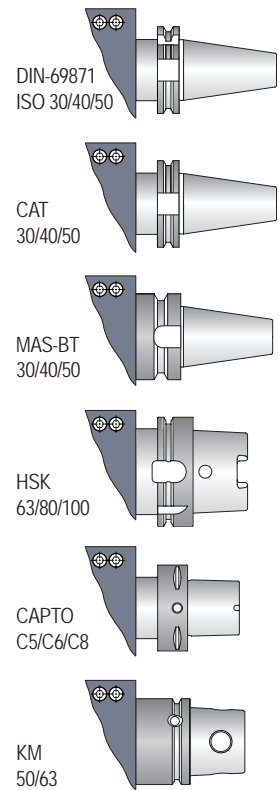


Dimensional Drawing*



Optional Drive Shanks*

Non interchangeable input drive shank



Dimensional Drawing & Optional Drive Shanks*

SHANK	DIN-69871 / CAT			MAS / BT			HSK		CAPTO		KM
Size	30	40	50	30	40	50	63/80	100	C5/C6	C8	50/63
I Arm Length (mm)	65,80	65,80 (110*)	80 (110*)	65,80	65,80 (110*)	80 (110*)	65,80 (110*)	80 (110*)	65,80 (110*)	80 (110*)	65,80 (110*)
S Flange Spacing (mm)	35	35	35	30	35	41	42	45	38	40	40

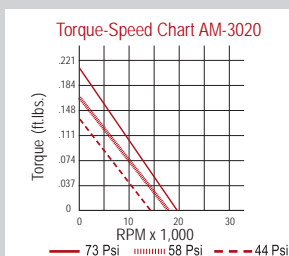
*optional

Technical Data

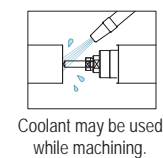
TF-RAX-271E			
Tool RPM Maximum	18,000	Reduction Ratio	1/1.5
NSK Output RPM	12,000	Air Pressure	90 psi max.
Air Motor	AM-3020	Air Consumption	6.29 cfm
NSK Output Tool	RAX-271E	Weight	8.8 lbs
Power	0.1 HP	Collet	CHK

Included with Tool: Storage Case • Wrenches • Grease • Instruction Manual

Torque Speed

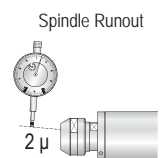


Coolant Option





Coolant may be used while machining.

Spindle Runout



2 μ

COLLETS	
CHS (for TF-RA-200, TF-RA-271E)	
	
Model	Inside Diameter (mm)
GP-59027-00	0.8
GP-59028-00	0.9
GP-59029-00	1.0
GP-59030-00	1.1
GP-59031-00	1.2
GP-59032-00	1.3
GP-59033-00	1.4
GP-59034-00	1.5
GP-59012-00	1.6
GP-59035-00	1.7
GP-59036-00	1.8
GP-59037-00	1.9
GP-59016-00	2.0
GP-59038-00	2.1
GP-59039-00	2.2
GP-59040-00	2.3
GP-59041-00	2.35
GP-59042-00	2.4
GP-59013-00	2.5
GP-59043-00	2.6
GP-59044-00	2.7
GP-59045-00	2.8
GP-59046-00	2.9
GP-59009-00	3.0
GP-59011-00	3.175

COLLETS	
CH8 (for TF-RA-100, TF-RA-151E)	
	
Model	Inside Diameter (mm)
GP-59047-00	0.8
GP-59048-00	0.9
GP-59049-00	1.0
GP-59050-00	1.1
GP-59051-00	1.2
GP-59052-00	1.3
GP-59053-00	1.4
GP-59054-00	1.5
GP-59055-00	1.6
GP-59056-00	1.7
GP-59057-00	1.8
GP-59058-00	1.9
GP-59059-00	2.0
GP-59060-00	2.1
GP-59061-00	2.2
GP-59062-00	2.3
GP-59063-00	2.35
GP-59064-00	2.4
GP-59065-00	2.5
GP-59066-00	2.6
GP-59067-00	2.7
GP-59068-00	2.8
GP-59069-00	2.9
GP-59070-00	3.0
GP-59008-00	3.175

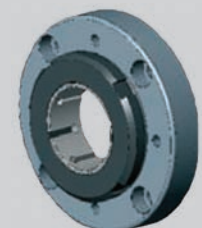
OPTIONAL AIR LINE KIT




AM-310 AIR MOTOR CONVERSION KIT




Type 1



Type 2

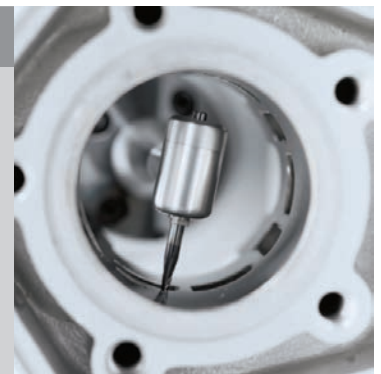
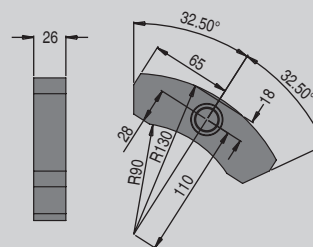
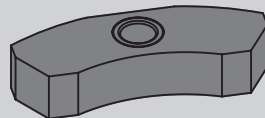
COLLETS	
CHM (for TF-NR-601, TF-NR-301)	
	
Model	Inside Diameter (mm)
GP-59073-00	0.3
GP-59074-00	0.4
GP-59075-00	0.5
GP-59076-00	0.6
GP-59077-00	0.7
GP-59078-00	0.8
GP-59079-00	0.9
GP-59080-00	1.0
GP-59081-00	1.1
GP-59082-00	1.2
GP-59083-00	1.3
GP-59084-00	1.4
GP-59085-00	1.5
GP-59086-00	1.6
GP-59087-00	1.7
GP-59088-00	1.8
GP-59089-00	1.9
GP-59090-00	2.0
GP-59091-00	2.1
GP-59092-00	2.2
GP-59093-00	2.3
GP-59094-00	2.35
GP-59095-00	2.4
GP-59096-00	2.5
GP-59097-00	2.6
GP-59098-00	2.7
GP-59099-00	2.8
GP-59100-00	2.9
GP-59101-00	3.0
GP-59102-00	3.175

COLLETS	
CHK (for TF-NR-2351, TF-NR-303 TF-NR-3060S, TF-RAX-271E)	
	
Model	Inside Diameter (mm)
GP-59103-00	0.5
GP-59104-00	0.6
GP-59105-00	0.7
GP-59106-00	0.8
GP-59107-00	0.9
GP-59108-00	1.0
GP-59109-00	1.1
GP-59110-00	1.2
GP-59111-00	1.3
GP-59112-00	1.4
GP-59113-00	1.5
GP-59114-00	1.6
GP-59115-00	1.7
GP-59116-00	1.8
GP-59117-00	1.9
GP-59118-00	2.0
GP-59119-00	2.1
GP-59120-00	2.2
GP-59121-00	2.3
GP-59122-00	2.35
GP-59123-00	2.4
GP-59124-00	2.5
GP-59125-00	2.6
GP-59126-00	2.7
GP-59127-00	2.8
GP-59128-00	2.9
GP-59129-00	3.0
GP-59130-00	3.1
GP-59131-00	3.175

COLLETS	
CHK (continued)	
Model	Inside Diameter (mm)
GP-59132-00	3.2
GP-59133-00	3.3
GP-59134-00	3.4
GP-59135-00	3.5
GP-59136-00	3.6
GP-59137-00	3.7
GP-59138-00	3.8
GP-59139-00	3.9
GP-59140-00	4.0
GP-59141-00	4.1
GP-59142-00	4.2
GP-59143-00	4.3
GP-59144-00	4.4
GP-59145-00	4.5
GP-59146-00	4.6
GP-59147-00	4.7
GP-59148-00	4.76
GP-59149-00	4.8
GP-59150-00	4.9
GP-59151-00	5.0
GP-59152-00	5.1
GP-59153-00	5.2
GP-59154-00	5.3
GP-59155-00	5.4
GP-59156-00	5.5
GP-59157-00	5.6
GP-59158-00	5.7
GP-59159-00	5.8
GP-59160-00	5.9
GP-59161-00	6.0
GP-59162-00	6.35



OPTIONAL TURBOFLEX STOP BLOCK





ALBERTI corporate facility located in Saronno (VA), Italy.

A Young and Winning Company

ALBERTI designs, manufactures and offers high quality angle heads for manufacturing enterprises seeking the highest productive performance. The company target is to meet the demands of a discerning market niche worldwide and to offer optimum standard or custom-made solutions.

ALBERTI started the production of angle heads in 1986. In few years its solutions have come to dominate the international market thanks to the good quality, functionality and reliability of its products. **ALBERTI** products became internationally appreciated for their well-balanced appearance and durable chromed finish.

Manufactured in Italy, **ALBERTI** products are sold and supported exclusively in North America by **KOMA PRECISION, Inc.**'s established network.

The Manufacturing Process

The designing and manufacturing stage of all **ALBERTI** angle heads - either standard or customized - start in the engineering department which is responsible for product concept, design and development. With a sophisticated CAD system, **ALBERTI's** qualified staff search continuously for innovative solutions and are also at their customers disposal before, during and after completion of their projects.

After design, head components are manufactured in our modern factory. The choice of materials used in our heads is a crucial factor in their high performance. Final heat treatment and grinding operations are of vital importance in our quest for increased precision.





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