

High-speed spindles for automatic tool changer

TURBOFLEX

Air driven









SLIMLINE

Spindle driven





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TURBOFLEX heads are made with a small air motor inside the main body. The cutting tool is therefore driven by the pneumatic motor and not by the machine spindle which is static. The number of RPM is fixed and depends on the type of motor. SLIMLINE heads are made with similar output spindle of small dimensions but are spindle driven. They are mainly used for small machining such as drilling, milling, deburring which require high RPM and tools of small dimensions.

Le teste TURBOFLEX si caratterizzano per l'utilizzo di un motore ad aria di piccole dimensioni al proprio interno. Il moto viene quindi trasmesso all'utensile non più dalla macchina ma dal motore pneumatico. Il numero di giri è fisso e determinato dal tipo di motore. Le teste SLIMLINE invece prevedono la stessa struttura con manpoli di dimensioni ridotte ma prendono il moto in modo meccanico dal mandrino macchina. Sono utilizzate principalmente per piccole lavorazioni di foratura, fresatura e sbavatura che richiedono alta velocità e utensili di piccole dimensioni.

TURBOFLEX Köpfe sind mit einem kleinen Luftmotor in dem Gehäuse hergestellt. Die Bewegung der Spindeltyp ist daher durch den Luftmotor anstatt durch den Maschinenspindel übertragen. Die Anzahl der UPM ist fest und ist von Motortyp abhängig. SLIMLINE Köpfe sind mit ähnlichen kleinen Aufnahmen hergestellt aber sind Spindel angetrieben. Beide Köpfe sind für kleine Bearbeitung wie z.B. Drehen, Fräsen oder Entgraten besonders geeignet wo höhere Drehzahlen mit kleinen Werkzeugsdurchmesser erfordert sind.



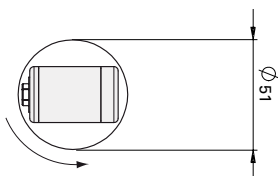
Spindle driven / Rotazione con mandrino macchina / Spindel angetrieben

RA-100

Diameter without tool with RA-100
 Diametro senza utensile con RA-100
 Durchmesser ohne Werkzeug mit RA-100

RPM max. output
 Max. Velocità output
 Drehzahl max. output

5.620



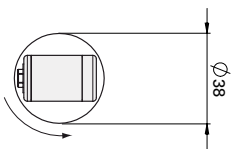
Technical Data / Dati Tecnici / Technische Daten	RA-100
RPM max. input / Max. Velocità input / Drehzahl max. input	15.000
Rt. reduction / Rt. in riduzione / Rt. Reduktion	1/2,67
Weight / Peso / Gewicht	Kg 3,5

RA-200

Diameter without tool with RA-200
 Diametro senza utensile con RA-200
 Durchmesser ohne Werkzeug mit RA-200

RPM max. output
 Max. Velocità output
 Drehzahl max. output

10.000



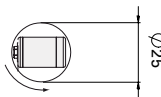
Technical Data / Dati Tecnici / Technische Daten	RA-200
RPM max. input / Max. Velocità input / Drehzahl max. input	15.000
Rt. reduction / Rt. in riduzione / Rt. Reduktion	1/1,5
Weight / Peso / Gewicht	Kg 3,5

IC-300

Diameter without tool with IC-300
 Diametro senza utensile con IC-300
 Durchmesser ohne Werkzeug mit IC-300

RPM max. output
 Max. Velocità output
 Drehzahl max. output

11.250



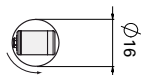
Technical Data / Dati Tecnici / Technische Daten	IC-300
RPM max. input / Max. Velocità input / Drehzahl max. input	15.000
Rt. reduction / Rt. in riduzione / Rt. Reduktion	3/4
Weight / Peso / Gewicht	Kg 3

MCF-300

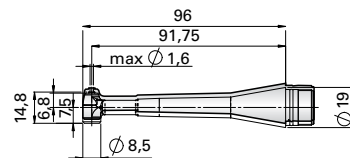
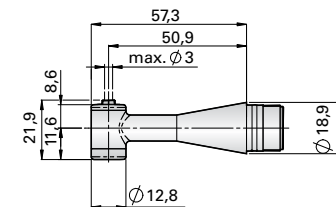
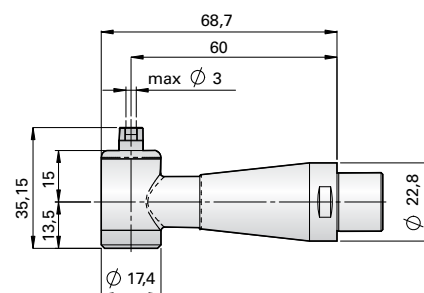
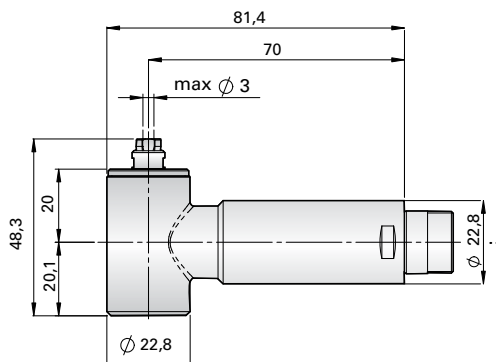
Diameter without tool with MCF-300
 Diametro senza utensile con MCF-300
 Durchmesser ohne Werkzeug mit MCF-300

RPM max. output
 Max. Velocità output
 Drehzahl max. output

15.000



Technical Data / Dati Tecnici / Technische Daten	MFC-300
RPM max. input / Max. Velocità input / Drehzahl max. input	15.000
Rt. reduction / Rt. in riduzione / Rt. Reduktion	1/1
Weight / Peso / Gewicht	Kg 3



Spindle Runout

Spindle accuracy Precisione del Mandrino Spindelpräzision.	0,002 mm 0,00008 inch.
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Coolant Option

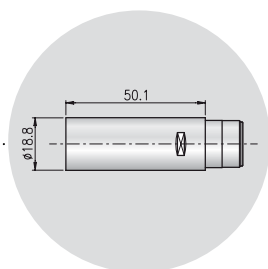
It is possible to use external coolant during the machining.
 Consentito usare refrigerante esterno durante la lavorazione.
 Extern Kühlmittelleinsatz möglich.



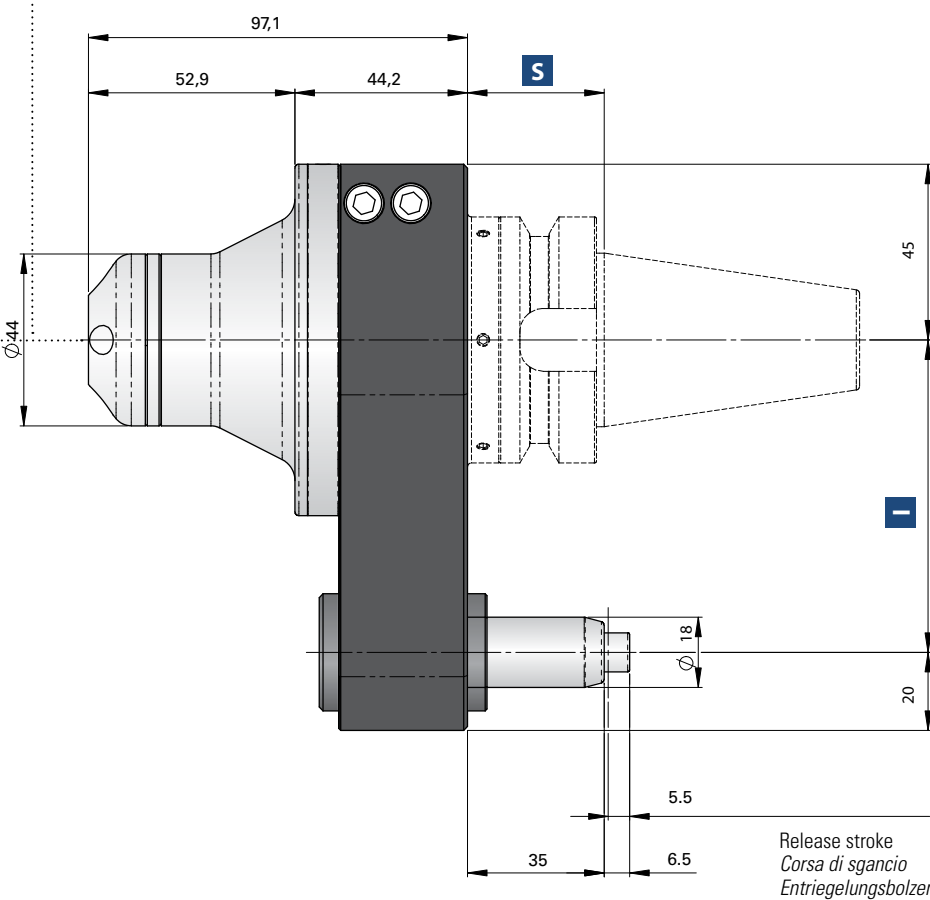
Collet

RA-100	mm	CH8: Ø3 mm every 0,1 mm Ø 5mm
RA-200	mm	CHS: Ø3mm, 2,35 every 1,6 and Ø2,35, Ø3,175
IC-300	mm	CHC: Ø3mm, Ø2,35mm, Ø1,6 mm, Ø2,00mm and Ø3,175 mm
MCF-300	mm	K252 Ø1,6mm

CN-01



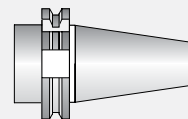
Extension between spindle and heads /
Prolunga da inserire tra il manopolo e la testa
Verlängerung zwischen Spindel und Fräskopf



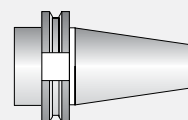
Release stroke
Corsa di sgancio
Entriegelungsbolzen

OPTIONAL DRIVE SHANK*
Non interchangeable input drive shank
Coni non intercambiabili
Nicht wechselbare Aufnahme

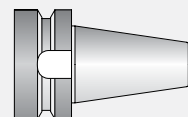
DIN-69871
 ISO 40/50



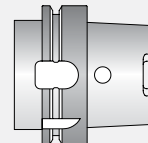
CAT
 40/50



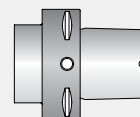
MAS-BT
 40/50



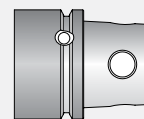
HSK
 63/80/100



CAPTO
 C5/C6/C8



KM
 50/63

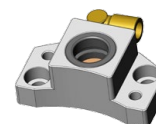


Shank/Cono/Aufnahme	DIN-69871	CAT	MAS-BT		HSK		CAPTO		KM
Size/Grandezza/Größe	40	50	40	50	63-80	100	C5-C6	C8	50-63
I	65-80-(110*)	80-110	65-80-(110*)	80-110	65-80-(110*)	80-110	65-80-(110*)	80-110	65-80-(110*)
S	35	35	35	41	42	45	38	40	40

*optional

Accessories / Accessori / Zubehör	RA-100	RA-200	IC-300	MFC-300
Retaining block / Tassello di ritegno / Stop block	Ø18 mm	Ø18 mm	Ø18 mm	Ø18 mm
Extension / Prolunga / Verlängerung	CN-01	CN-01	CN-01	CN-01

Retaining block / Tassello di ritegno /
 Stop-Block

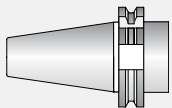


NOT INCLUDED
NON INCLUSO
NICHT ENTHALTEN

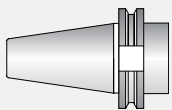
Air Driven

OPTIONAL DRIVE SHANK*

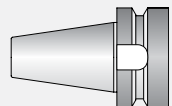
Non interchangeable input drive shank
 Coni non intercambiabili
 Nicht wechselbare Aufnahme



DIN-69871
ISO 40/50

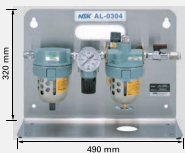


CAT
40/50

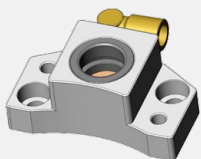


MAS-BT
40/50

Air line kit / Filtro regolatore aria /
Luftsystem

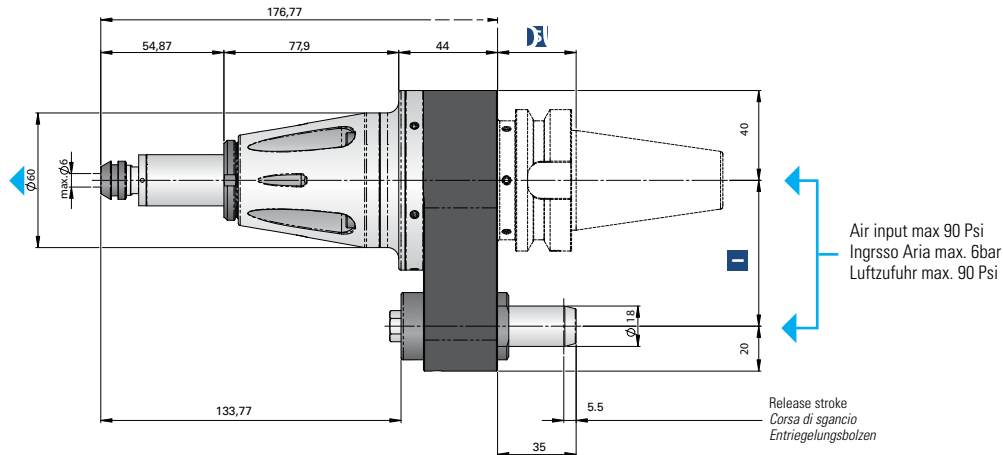


Retaining block /
Tassello di ritegno /
Stop-Block

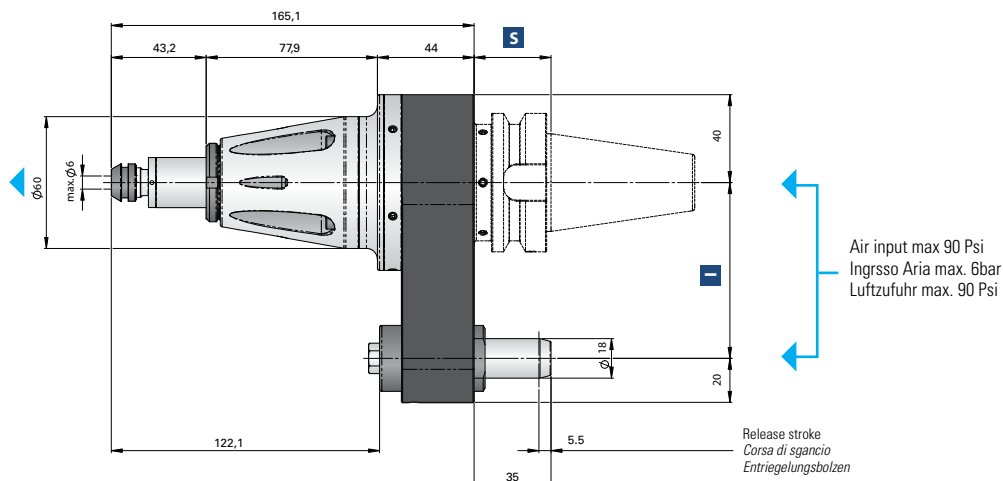


NOT INCLUDED
NON INCLUSO
NICHT ENTHALTEN

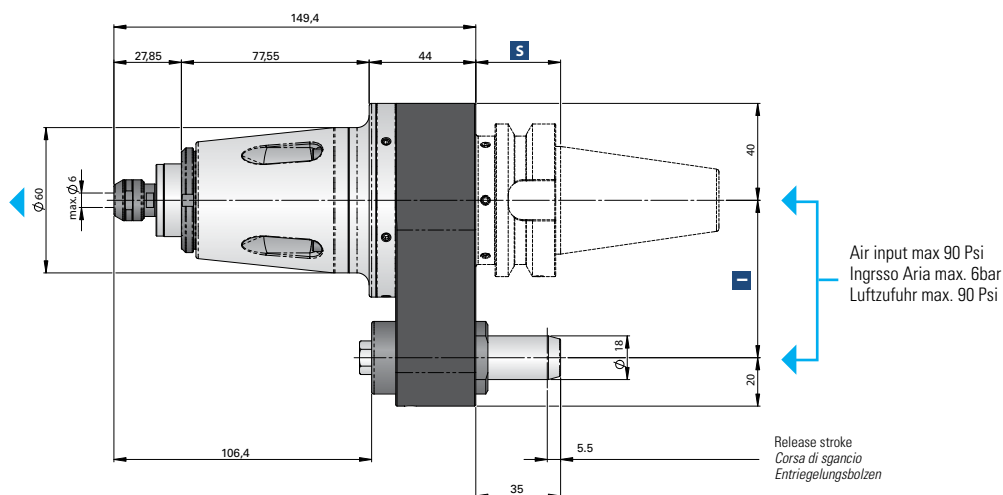
Turboflex 60.000 RPM



Turboflex 30.000 RPM



Turboflex 20.000 RPM



Dati tecnici / Technical data / Technische date

Technical Data / Dati Tecnici / Technische Daten		NR-2351	
RPM max. / Max. Velocità / Drehzahl max.	min ⁻¹	60.000 ± 10%	
Type motor / Tipo di motore / Motortyp		AM-600	
Power / Potenza / Leistung	W	76	
Air pressure / Pressione aria / Luftdruck	bar	max. 6 (max. 90 Psi)	
Air consumption / Consumo aria / Luftverbrauch	NI/min	160	
Weight / Peso / Gewicht	Kg	4	

Shank/Cono/Aufnahme	DIN-69871	CAT	MAS-BT	
Size/Grandezza/Größe	40	50	40	50
I	65-80-(110*)	80-110	65-80-(110*)	80-110
S	35	35	35	41

*optional



Collet

NR -2351 | mm | CHK: Ø 0,5, 6mm every 0,1



Coolant Option

It is possible to use external coolant during the machining.
Consentito usare refrigerante esterno durante la lavorazione.
Extern Kühlmittleinsatz möglich.



Spindle Runout

Spindle accuracy
Precisione del Mandrino
Spindelpräzision.

0,002 mm
0,00008 inch.

Technical Data / Dati Tecnici / Technische Daten		NR-303	
RPM max. / Max. Velocità / Drehzahl max.	min ⁻¹	30.000 ± 10%	
Type motor / Tipo di motore / Motortyp		AM-310	
Power / Potenza / Leistung	W	108	
Air pressure / Pressione aria / Luftdruck	bar	max. 6 (max. 90 Psi)	
Air consumption / Consumo aria / Luftverbrauch	NI/min	226	
Weight / Peso / Gewicht	Kg	4	

Shank/Cono/Aufnahme	DIN-69871	CAT	MAS-BT	
Size/Grandezza/Größe	40	50	40	50
I	65-80-(110*)	80-110	65-80-(110*)	80-110
S	35	35	35	41

*optional



Collet

NR -303 | mm | CHK: Ø 0,5, 6mm every 0,1



Coolant Option

It is possible to use external coolant during the machining.
Consentito usare refrigerante esterno durante la lavorazione.
Extern Kühlmittleinsatz möglich.



Spindle Runout

Spindle accuracy
Precisione del Mandrino
Spindelpräzision.

0,002 mm
0,00008 inch.

Technical Data / Dati Tecnici / Technische Daten		NR-3060	
RPM max. / Max. Velocità / Drehzahl max.	min ⁻¹	18.000 ± 10%	
Type motor / Tipo di motore / Motortyp		AM-3020	
Power / Potenza / Leistung	W	125	
Air pressure / Pressione aria / Luftdruck	bar	max. 6 (max. 90 Psi)	
Air consumption / Consumo aria / Luftverbrauch	NI/min	178	
Output RPM / N° Giri in uscita / Drehzahlausgang	min ⁻¹	18.000	
Rt. reduction / Rt. in riduzione / Rt. Reduktion		1/1	
Weight / Peso / Gewicht	Kg	4	

Shank/Cono/Aufnahme	DIN-69871	CAT	MAS-BT	
Size/Grandezza/Größe	40	50	40	50
I	65-80-(110*)	80-110	65-80-(110*)	80-110
S	35	35	35	41

*optional



Collet

NR -3060 | mm | CHK: Ø 0,8, 6mm every 0,1



Coolant Option

It is possible to use external coolant during the machining.
Consentito usare refrigerante esterno durante la lavorazione.
Extern Kühlmittleinsatz möglich.



Spindle Runout

Spindle accuracy
Precisione del Mandrino
Spindelpräzision.

0,002 mm
0,00008 inch.



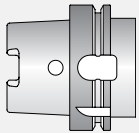
It is strictly forbidden to rotate the machine spindle as it may cause damage to the head

È severamente vietato far ruotare il mandrino macchina causa danneggiamento della testa -
Es ist verboten die maschinenspindel zu drehen da der kopf beschädigt sein könnte.

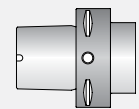
Air Driven

OPTIONAL DRIVE SHANK*

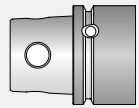
Non interchangeable input drive shank
 Coni non intercambiabili
 Nicht wechselbare Aufnahme



HSK
63/80/100

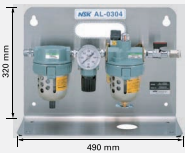


CAPTO
C5/C6/C8

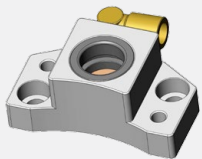


KM
50/63

Air line kit / Filtro regolatore aria /
Luftsystem

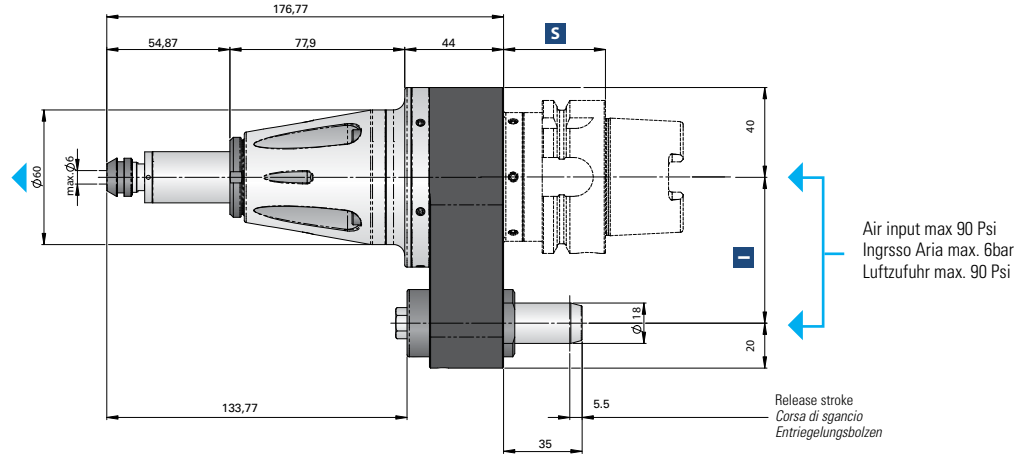


Retaining block /
Tassello di ritegno /
Stop-Block

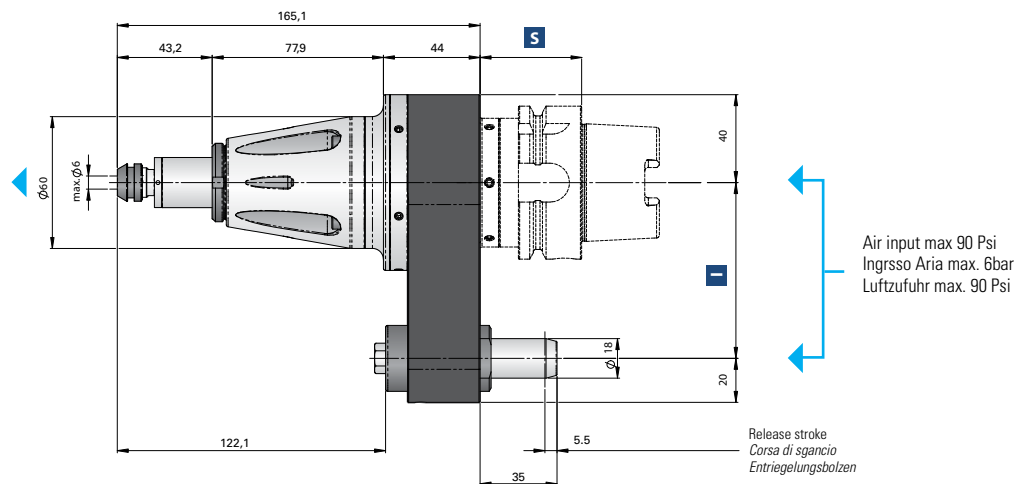


NOT INCLUDED
NON INCLUSO
NICHT ENTHALTEN

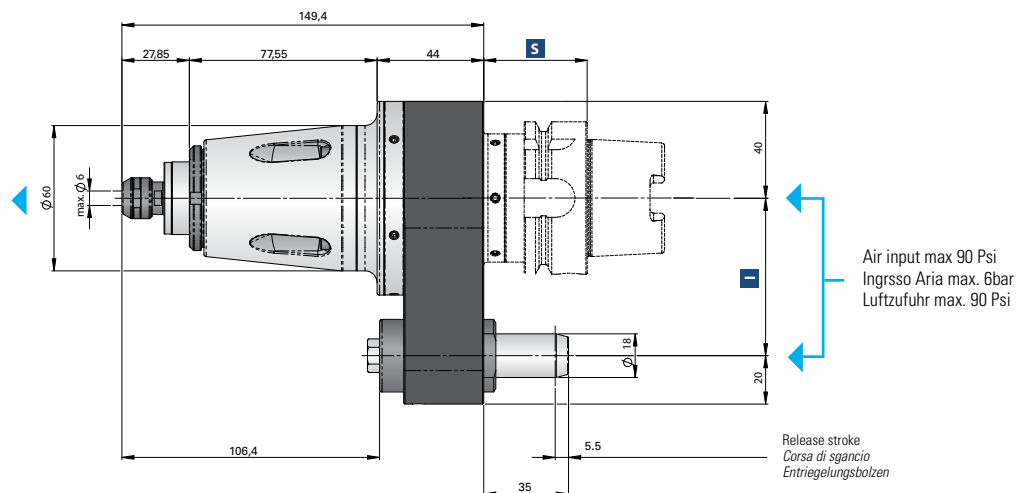
Turboflex 60.000 RPM



Turboflex 30.000 RPM



Turboflex 20.000 RPM



Dati tecnici / Technical data / Technische date

Technical Data / Dati Tecnici / Technische Daten		NR-2351	
RPM max. / Max. Velocità / Drehzahl max.	min ⁻¹	60.000 ± 10%	
Type motor / Tipo di motore / Motortyp		AM-600	
Power / Potenza / Leistung	W	76	
Air pressure / Pressione aria / Luftdruck	bar	max. 6 (max. 90 Psi)	
Air consumption / Consumo aria / Luftverbrauch	l/min	160	
Weight / Peso / Gewicht	Kg	4	

Shank/Cono/Aufnahme	HSK		CAPTO		KM
Size/Grandezza/Größe	63-80	100	C5-C6	C8	50-63
I	65-80-(110*)	80-110	65-80-(110*)	80-110	65-80-(110*)
S	42	45	38	40	40

*optional



Collet

NR -2351 | mm | CHK: Ø 0,5, 6mm every 0,1



Coolant Option

It is possible to use coolant external during the machining.
Consentito usare refrigerante esterno durante la lavorazione.
Extern Kühlmittleinsatz möglich.



Spindle Runout

Spindle accuracy
Precisione del Mandrino
Spindelpräzision. | 0,002 mm
0,00008 inch.

Technical Data / Dati Tecnici / Technische Daten		NR-303	
RPM max. / Max. Velocità / Drehzahl max.	min ⁻¹	30.000 ± 10%	
Type motor / Tipo di motore / Motortyp		AM-310	
Power / Potenza / Leistung	W	108	
Air pressure / Pressione aria / Luftdruck	bar	max. 6 (max. 90 Psi)	
Air consumption / Consumo aria / Luftverbrauch	l/min	226	
Weight / Peso / Gewicht	Kg	4	

Shank/Cono/Aufnahme	HSK		CAPTO		KM
Size/Grandezza/Größe	63-80	100	C5-C6	C8	50-63
I	65-80-(110*)	80-110	65-80-(110*)	80-110	65-80-(110*)
S	42	45	38	40	40

*optional



Collet

NR -303 | mm | CHK: Ø 0,5, 6mm every 0,1



Coolant Option

It is possible to use coolant external during the machining.
Consentito usare refrigerante esterno durante la lavorazione.
Extern Kühlmittleinsatz möglich.



Spindle Runout

Spindle accuracy
Precisione del Mandrino
Spindelpräzision. | 0,002 mm
0,00008 inch.

Technical Data / Dati Tecnici / Technische Daten		NR-3060	
RPM max. / Max. Velocità / Drehzahl max.	min ⁻¹	18.000 ± 10%	
Type motor / Tipo di motore / Motortyp		AM-3020	
Power / Potenza / Leistung	W	125	
Air pressure / Pressione aria / Luftdruck	bar	max. 6 (max. 90 Psi)	
Air consumption / Consumo aria / Luftverbrauch	l/min	178	
Output RPM / N° Giri in uscita / Drehzahlausgang	min ⁻¹	18.000	
Rt. reduction / Rt. in riduzione / Rt. Reduktion		1/1	
Weight / Peso / Gewicht	Kg	4	

Shank/Cono/Aufnahme	HSK		CAPTO		KM
Size/Grandezza/Größe	63-80	100	C5-C6	C8	50-63
I	65-80-(110*)	80-110	65-80-(110*)	80-110	65-80-(110*)
S	42	45	38	40	40

*optional



Collet

NR 3060 | mm | CHK: Ø 0,8, 6mm every 0,1



Coolant Option

It is possible to use coolant external during the machining.
Consentito usare refrigerante esterno durante la lavorazione.
Extern Kühlmittleinsatz möglich.



Spindle Runout

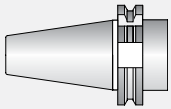
Spindle accuracy
Precisione del Mandrino
Spindelpräzision. | 0,002 mm
0,00008 inch.



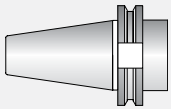
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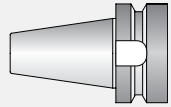
OPTIONAL DRIVE SHANK*
 Non interchangeable input drive shank
 Coni non intercambiabili
 Nicht wechselbare Aufnahme



DIN-69871
ISO 40/50

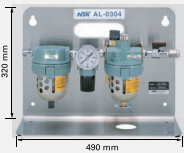


CAT
40/50

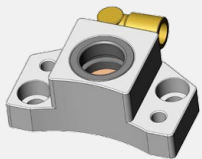


MAS-BT
40/50

Air line kit / Filtro regolatore aria /
Luftsystem



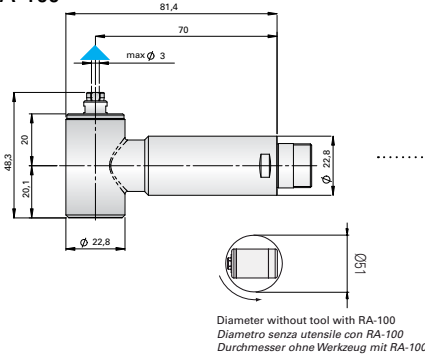
Retaining block /
Tassello di ritegno /
Stop-Block



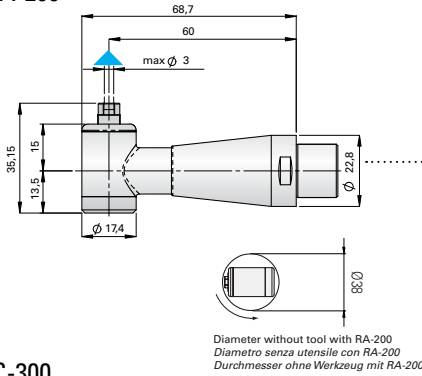
NOT INCLUDED
NON INCLUSO
NICHT ENTHALTEN

Turboflex 30.000 RPM

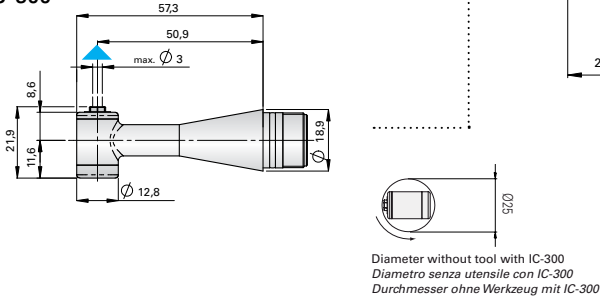
RA-100



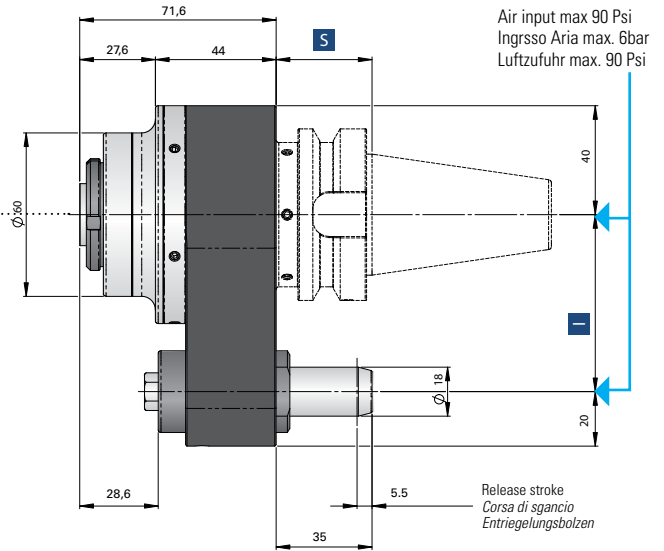
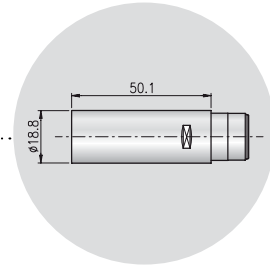
RA-200



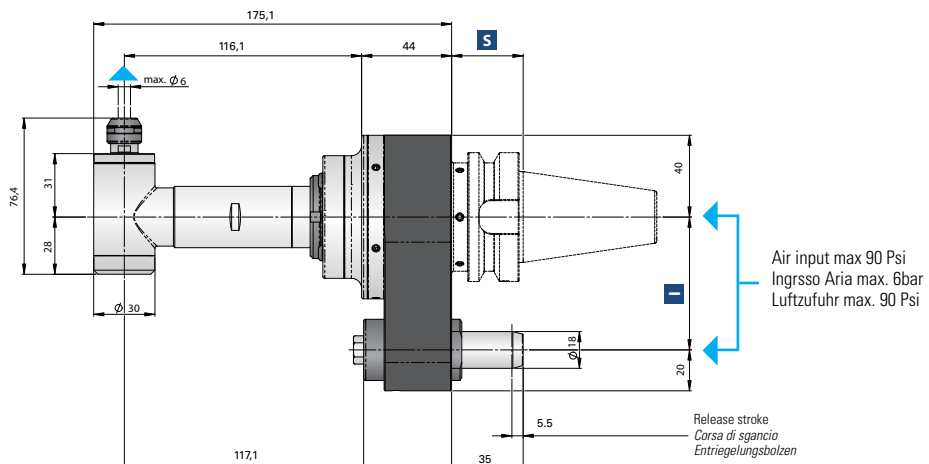
IC-300



CN-01



Turboflex 20.000 RPM - RAX 271E



Dati tecnici / Technical data / Technische date

Technical Data / Dati Tecnici / Technische Daten		RA-100	RA-200	IC-300
RPM max. / Max. Velocità / Drehzahl max.	min ⁻¹	30.000	30.000	30.000
Type motor / Tipo di motore / Motortyp		AM-310	AM-310	AM-310
Power / Potenza / Leistung	W	108	108	108
Air pressure / Pressione aria / Luftdruck	bar	max. 6 (max. 90 Psi)	max. 6 (max. 90 Psi)	max. 6 (max. 90 Psi)
Air consumption / Consumo aria / Luftverbrauch	NI/min	226	226	226
Output RPM / N° Giri in uscita / Drehzahlausgang	min ⁻¹	11.230	20.000	22.000
Rt. reduction / Rt. in riduzione / Rt. Reduktion		1/2,67	1/1,5	3/4
Weight / Peso / Gewicht	Kg	4	4	4

Accessories / Accessori / Zubehör	RA-100	RA-200	IC-300
Air line kit / Filtro regolatore aria / Luftsysteem	AL-M1202	AL-M1202	AL-M1202

Shank/Cono/Aufnahme	DIN-69871		CAT		MAS-BT	
Size/Grandezza/Größe	40	50	40	50	40	50
I	65-80-(110*)	80-110	65-80-(110*)	80-110	65-80-(110*)	80-110
S	35	35	35	41	35	41

*optional



Coolant Option

It is possible to use coolant external during the machining.
Consentito usare refrigerante esterno durante la lavorazione.
Extern Kühlmittleinsatz möglich



Spindle Runout

Spindle accuracy
Precisione del Mandrino
Spindelpräzision.

0,002 mm
0,00008 inch.



Collet

RA-100	mm	CH8: Ø0,8, Ø3 every 0,1 and Ø2,35, Ø3,175
RA-200	mm	CHS: Ø0,8, Ø3 every 0,1 and Ø2,35, Ø3,175
IC-300	mm	CHC: Ø0,8, Ø3 every 0,1 and Ø2,35, Ø3,175

Technical Data / Dati Tecnici / Technische Daten		RAX-271E			
RPM max. / Max. Velocità / Drehzahl max.	min ⁻¹	18.000			
Type motor / Tipo di motore / Motortyp		AM-3020			
Power / Potenza / Leistung	W	125			
Air pressure / Pressione aria / Luftdruck	bar	max. 6 (max. 90 Psi)			
Air consumption / Consumo aria / Luftverbrauch	NI/min	178			
Output RPM / N° Giri in uscita / Drehzahlausgang	min ⁻¹	12.000			
Rt. reduction / Rt. in riduzione / Rt. Reduktion		1/1,5			
Weight / Peso / Gewicht	Kg	4			

Shank/Cono/Aufnahme	DIN-69871		CAT		MAS-BT	
Size/Grandezza/Größe	40	50	40	50	40	50
I	65-80-(110*)	80-110	65-80-(110*)	80-110	65-80-(110*)	80-110
S	35	35	35	41	35	41

*optional



Collet

RA-271 E	mm	CHK: Ø 0,5, 6mm every 0,1
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Coolant Option

It is possible to use coolant external during the machining.
Consentito usare refrigerante esterno durante la lavorazione.
Extern Kühlmittleinsatz möglich



Spindle Runout

Spindle accuracy
Precisione del Mandrino
Spindelpräzision.

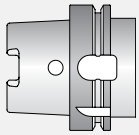
0,002 mm
0,00008 inch.



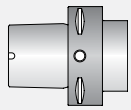
It is strictly forbidden to rotate the machine spindle as it may cause damage to the head

È severamente vietato far ruotare il mandrino macchina causa danneggiamento della testa - Es ist verboten die maschinenspindel zu drehen da der kopf beschädigt sein könnte.

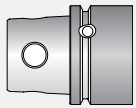
OPTIONAL DRIVE SHANK*
 Non interchangeable input drive shank
 Coni non intercambiabili
 Nicht wechselbare Aufnahme



HSK
63/80/100

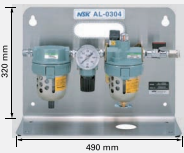


CAPTO
C5/C6/C8

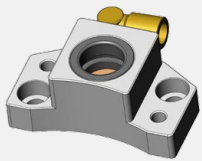


KM
50/63

Air line kit / Filtro regolatore aria /
Luftsystem



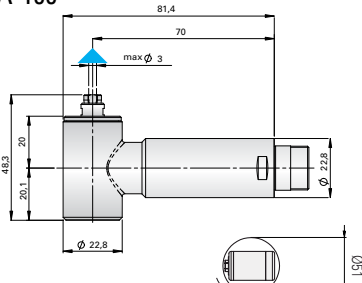
Retaining block /
Tassello di ritegno /
Stop-Block



NOT INCLUDED
NON INCLUSO
NICHT ENTHALTEN

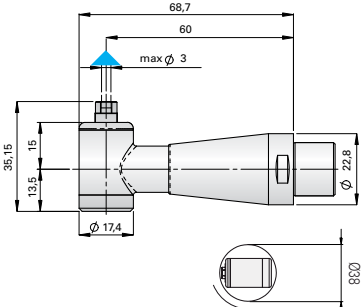
Turboflex 30.000 RPM

RA-100



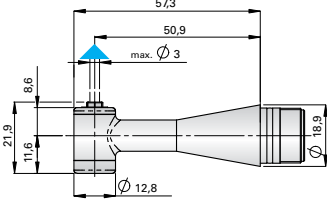
Diameter without tool with RA-100
 Diametro senza utensile con RA-100
 Durchmesser ohne Werkzeug mit RA-100

RA-200



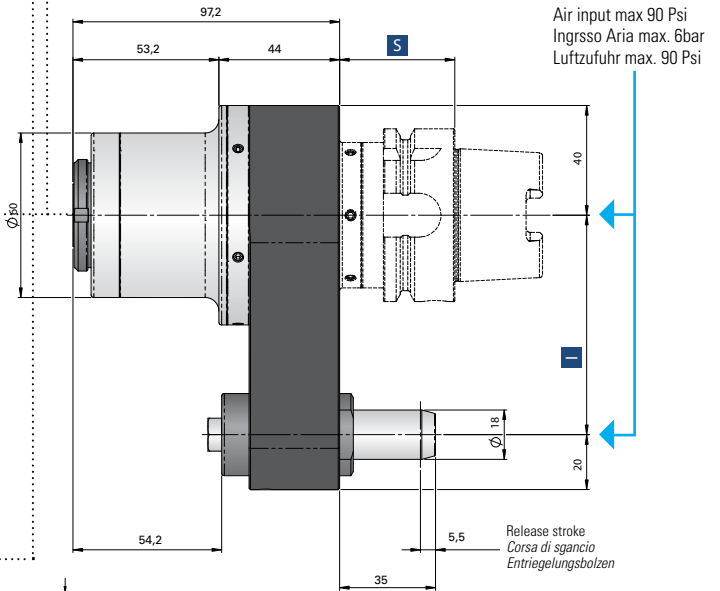
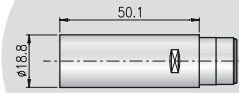
Diameter without tool with RA-200
 Diametro senza utensile con RA-200
 Durchmesser ohne Werkzeug mit RA-200

IC-300



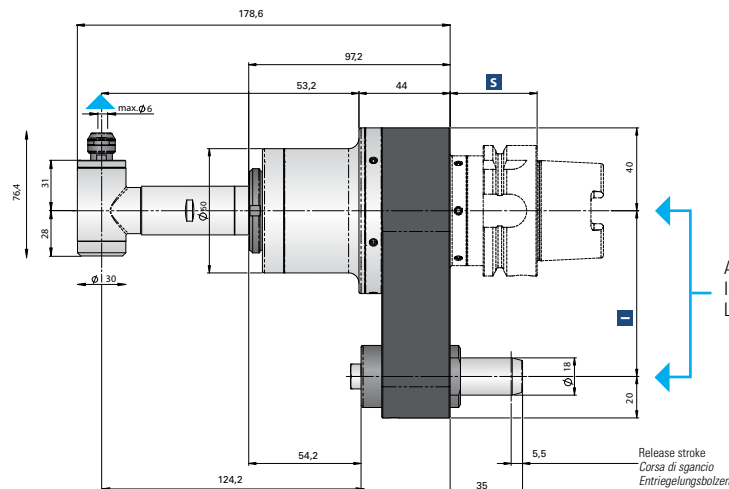
Diameter without tool with IC-300
 Diametro senza utensile con IC-300
 Durchmesser ohne Werkzeug mit IC-300

CN-01



Air input max 90 Psi
 Ingresso Aria max. 6bar
 Luftzufuhr max. 90 Psi

Turboflex 20.000 RPM - RAX 271E



Air input max 90 Psi
 Ingresso Aria max. 6bar
 Luftzufuhr max. 90 Psi

Dati tecnici / Technical data / Technische date

Technical Data / Dati Tecnici / Technische Daten		RA-100	RA-200	IC-300
RPM max. / Max. Velocità / Drehzahl max.	min ⁻¹	30.000	30.000	30.000
Type motor / Tipo di motore / Motortyp		AM-310	AM-310	AM-310
Power / Potenza / Leistung	W	108	108	108
Air pressure / Pressione aria / Luftdruck	bar	max. 6 (max. 90 Psi)	max. 6 (max. 90 Psi)	max. 6 (max. 90 Psi)
Air consumption / Consumo aria / Luftverbrauch	NI/min	226	226	226
Output RPM / N° Giri in uscita / Drehzahlausgang	min ⁻¹	11.230	20.000	22.000
Rt. reduction / Rt. in riduzione / Rt. Reduktion		1/2,67	1/1,5	3/4
Weight / Peso / Gewicht	Kg	4	4	4

Accessories / Accessori / Zubehör	RA-100	RA-200	IC-300
Air line kit / Filtro regolatore aria / Luftsysteem	AL-M1202	AL-M1202	AL-M1202

Shank/Cono/Aufnahme	HSK		CAPTO		KM
Size/Grandezza/Größe	63-80	100	C5-C6	C8	50-63
I	65-80-(110*)	80-110	65-80-(110*)	80-110	65-80-(110*)
S	42	45	38	40	40

*optional



Coolant Option

It is possible to use coolant external during the machining.
Consentito usare refrigerante esterno durante la lavorazione.
Extern Kühlmittleinsatz möglich



Spindle Runout

Spindle accuracy
Precisione del Mandrino
Spindelpräzision.

0,002 mm
0,00008 inch.



Collet

RA-100	mm	CH8: Ø0,8, Ø3 every 0,1 and Ø2,35, Ø3,175
RA-200	mm	CHS: Ø0,8, Ø3 every 0,1 and Ø2,35, Ø3,175
IC-300	mm	CHC: Ø0,8, Ø3 every 0,1 and Ø2,35, Ø3,175

Technical Data / Dati Tecnici / Technische Daten		RAX-271E			
RPM max. / Max. Velocità / Drehzahl max.	min ⁻¹	18.000			
Type motor / Tipo di motore / Motortyp		AM-3020			
Power / Potenza / Leistung	W	125			
Air pressure / Pressione aria / Luftdruck	bar	max. 6 (max. 90 Psi)			
Air consumption / Consumo aria / Luftverbrauch	NI/min	178			
Output RPM / N° Giri in uscita / Drehzahlausgang	min ⁻¹	12.000			
Rt. reduction / Rt. in riduzione / Rt. Reduktion		1/1,5			
Weight / Peso / Gewicht	Kg	4			

Shank/Cono/Aufnahme	HSK		CAPTO		KM
Size/Grandezza/Größe	63-80	100	C5-C6	C8	50-63
I	65-80-(110*)	80-110	65-80-(110*)	80-110	65-80-(110*)
S	42	45	38	40	40

*optional



Collet

RA-271 E	mm	CHK: Ø 0,5, 6mm every 0,1
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Coolant Option

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Extern Kühlmittleinsatz möglich



Spindle Runout

Spindle accuracy
Precisione del Mandrino
Spindelpräzision.

0,002 mm
0,00008 inch.



It is strictly forbidden to rotate the machine spindle as it may cause damage to the head

È severamente vietato far ruotare il mandrino macchina causa danneggiamento della testa - Es ist verboten die maschinenspindel zu drehen da der kopf beschädigt sein könnte.

Turboflex with INDEXING system

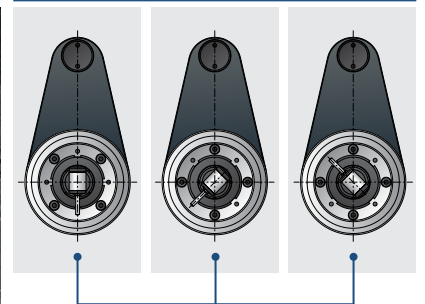
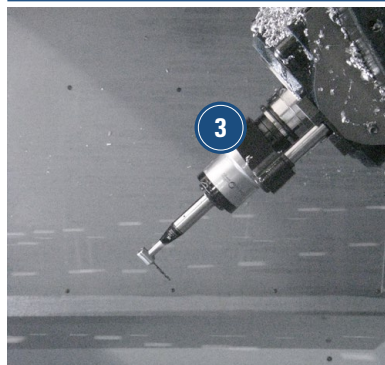
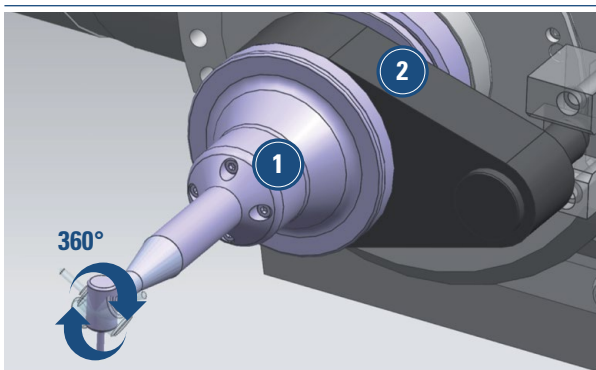
The cutting tool can be positioned over 360 degrees thanks to the indexing of the C axis of the machine while the rotation is given by the air motor mounted inside the head.

Il mandrino può essere posizionato su 360° grazie all'indezzaggio dell'asse C della macchina, mentre la rotazione è assicurata dalla presenza del motore ad aria.

Der Spindel kann über 360° dank der Indexierung der C Achse der Maschine automatisch positioniert werden. Der Luftmotor gewährleistet die Rotation der Spindel.

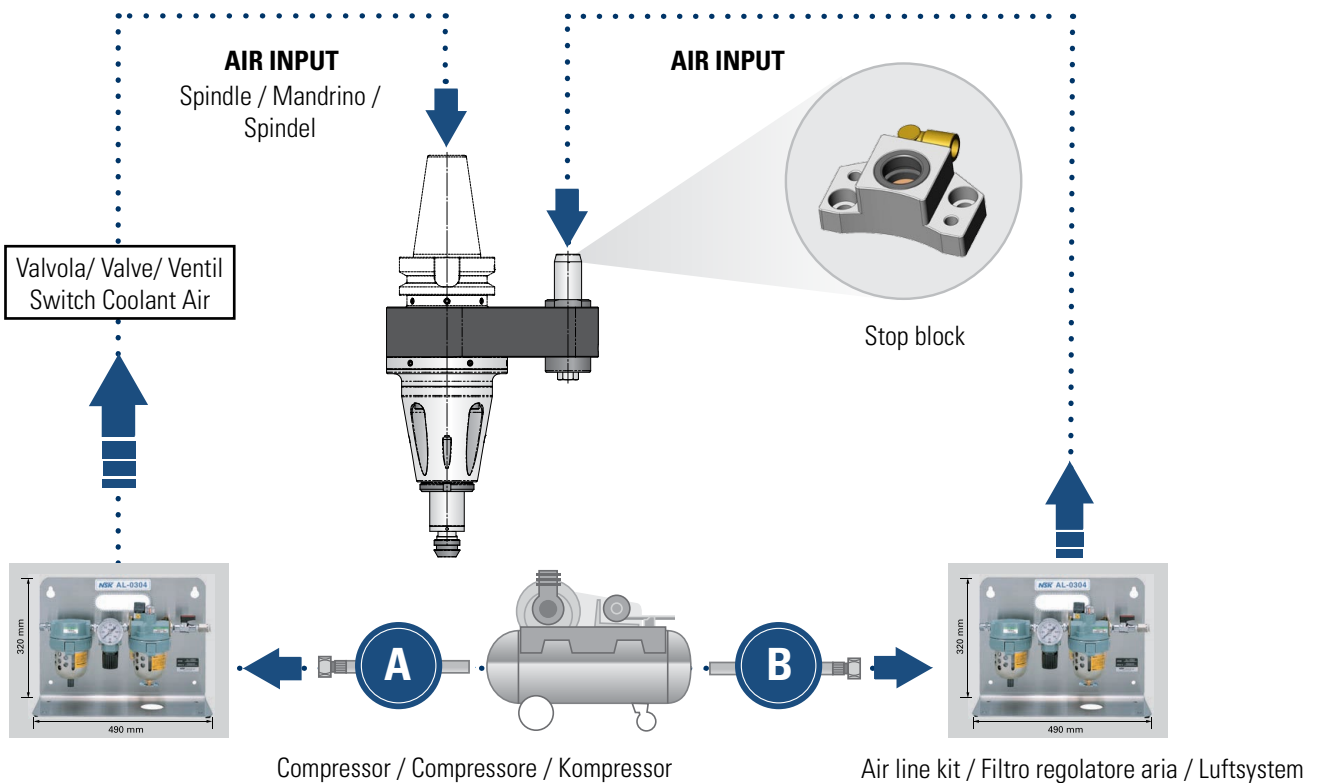
- 1** This part rotates. Questa parte ruota. Dieser Teil dreht
- 2** This portion remains fixed. Questa parte resta ferma. Dieser Teil bleibt fest

- 3** Air input from the machine spindle gives the rotation to the motor inside the body. L'aria garantisce la rotazione del motore nel corpo. Luft durch die Spindel oder Referenzbohrung gewährleistet die Rotation.
- The indexing system allows to self-position the tool without additional positioning. Il sistema di indezzaggio permette il posizionamento del mandrino su 360°. Das Indexierungssystem erlaubt die Positionierung der Spindel über 360°.



Maschine spindle automatically position over 360°.

Come funziona Turboflex / How it works / Wie funktioniert



It is strictly forbidden to rotate the machine spindle as it may cause damage to the head

È severamente vietato far ruotare il mandrino macchina causa danneggiamento della testa - Es ist verboten die maschinenspindel zu drehen da der kopf beschädigt sein könnte.





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