Catalogue / *Catalogo / Katalog*

High-speed spindles
for automatic tool changer

SLIMLINE

Spindle driven
Azionato dal mandrino
Spindleangetrieben

TURBOFLEX

Air driven
Azionato ad aria
Luftangetrieben

www.albertiumberto.com


RA 100
0H502761

INDEX

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 typ 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 manipoli 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.

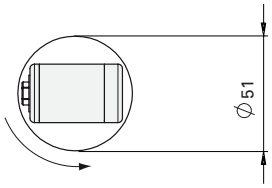
TURBOFLEX Köpfe sind mit einem kleinen Luftmotor in dem Gehäuse hergestellt. Die Bewegung der Spindeltyp ist daher durch den Luftmotor anstatt durch den Maschinenspindel übertragen. Die Anzahl der UPM ist fest und ist von Motortyp abhängig. SLIMLINE Köpfe sind mit ähnlichen kleinen Aufnahmen hergestellt 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

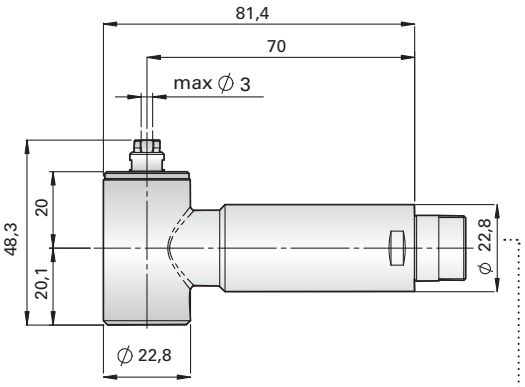
RA-100

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 rpm



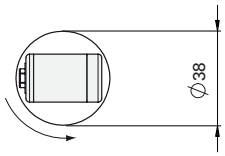
Technical Data / Dati Tecnici / Technische Daten		**RA-100**
RPM max. input / Max. Velocità input / Drehzahl max. input min $^{-1}$		15.000
Rt. reduction / Rt. in riduzione / Rt. Reduktion		1/2,67
Weight / Peso / Gewicht	Kg	3,5



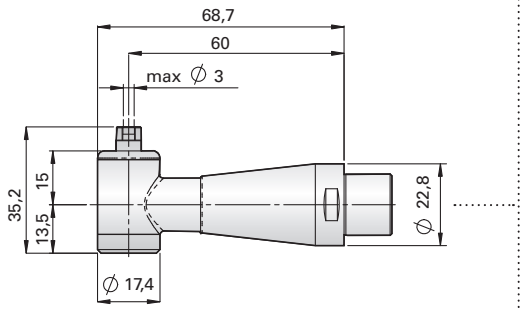
RA-200

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 rpm



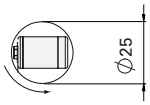
Technical Data / Dati Tecnici / Technische Daten		**RA-200**
RPM max. input / Max. Velocità input / Drehzahl max. input min $^{-1}$		15.000
Rt. reduction / Rt. in riduzione / Rt. Reduktion		1/1,5
Weight / Peso / Gewicht	Kg	3,5



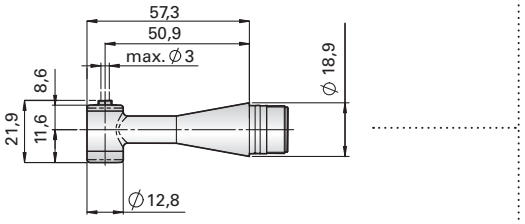
IC-300

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 rpm



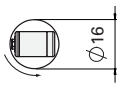
Technical Data / Dati Tecnici / Technische Daten		**IC-300**
RPM max input. / Max. Velocità input / Drehzahl max. input min $^{-1}$		15.000
Rt. reduction / Rt. in riduzione / Rt. Reduktion		3/4
Weight / Peso / Gewicht	Kg	3



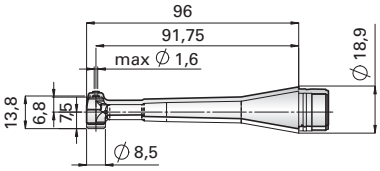
MFC-300 S

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

RPM max. output
Max. Velocità output
Drehzahl max. output
15.000 rpm



Technical Data / Dati Tecnici / Technische Daten		**MFC-300**
RPM max input. / Max. Velocità input / Drehzahl max. input min $^{-1}$		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.

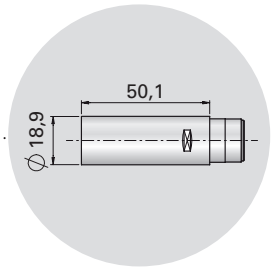
Coolant Option

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

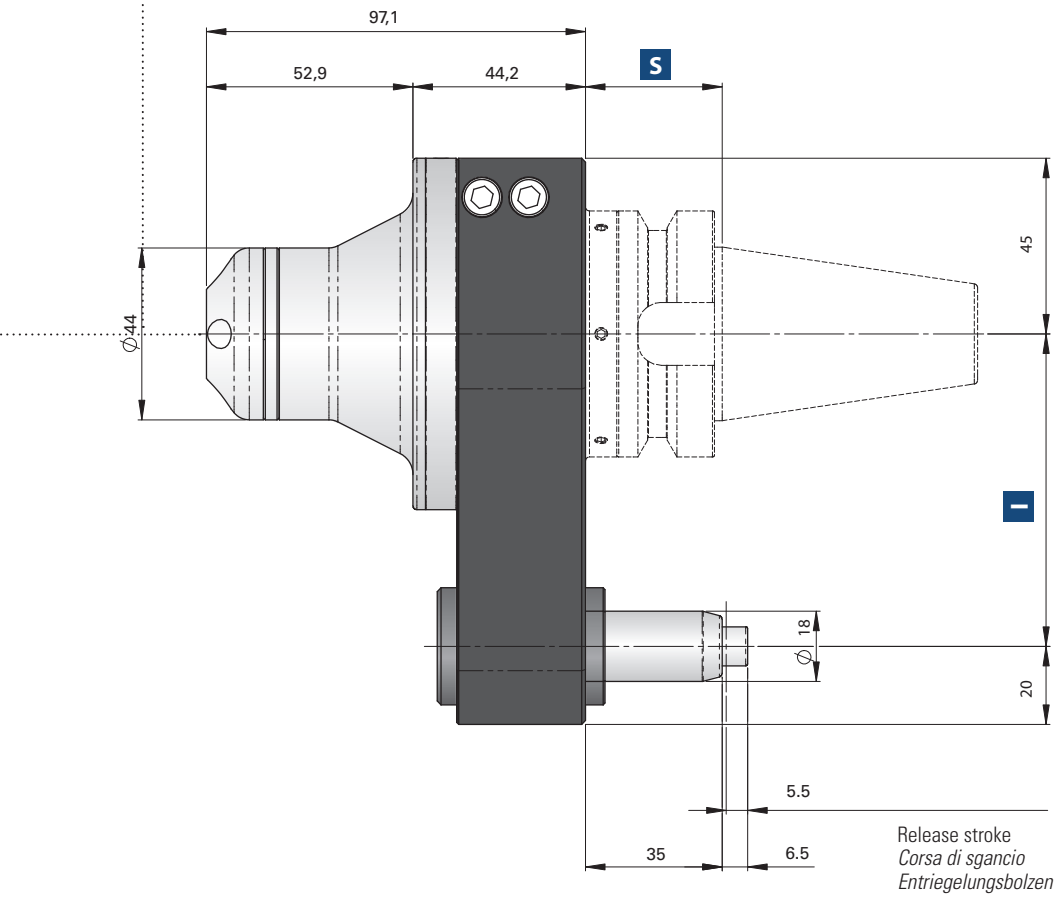
Collet

RA-100	mm	CH8: Ø3 mm every 0,1 mm Ø 3mm
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
MFC-300	mm	K252 Ø1,6mm

CN-01



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

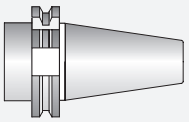


Release stroke
Corsa di sgancio
Entriegelungsbolzen

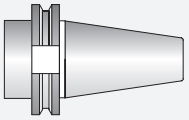
OPTIONAL DRIVE SHANK*

Non interchangeable input drive shank
Coni non intercambiabili
Nicht wechselbare Aufnahme

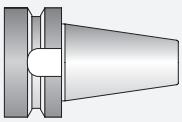
DIN-69871 ISO 40/50



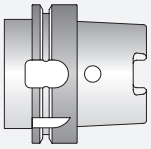
CAT 40/50



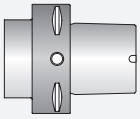
MAS-BT 40/50



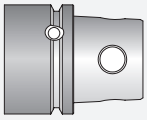
HSK 63/80/100



CAPTO C5/C6/C8



KM 50/63

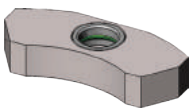


Shank/*Cono/Aufnahme*	DIN-69871	CAT	MAS-BT		HSK		CAPTO		KM
Size/*Grandezza/Größe*	40	50	40	50	63-80	100	C5-C6	C8	50-63
I	65-80-(110*)	80-110	65-80-(110*)	80-110	65-80-(110*)	80-110	65-80-(110*)	80-110	65-80-(110*)
S	35	35	35	41	42	45	38	40	40

*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

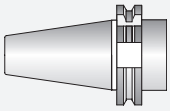
Retaining block / Tassello di ritegno / Stop-Block



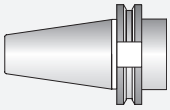
NOT INCLUDED
NON INCLUSO
NICHT ENTHALTEN

Air Driven

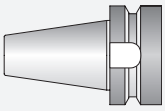
OPTIONAL DRIVE SHANK*
Non interchangeable input drive shank
Coni non intercambiabili
Nicht wechselbare Aufnahme



DIN-69871
ISO 40/50

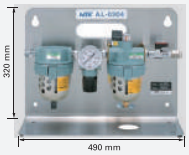


CAT
40/50

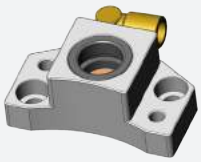


MAS-BT
40/50

Air line kit / Filtro regolatore aria / Luftsystem

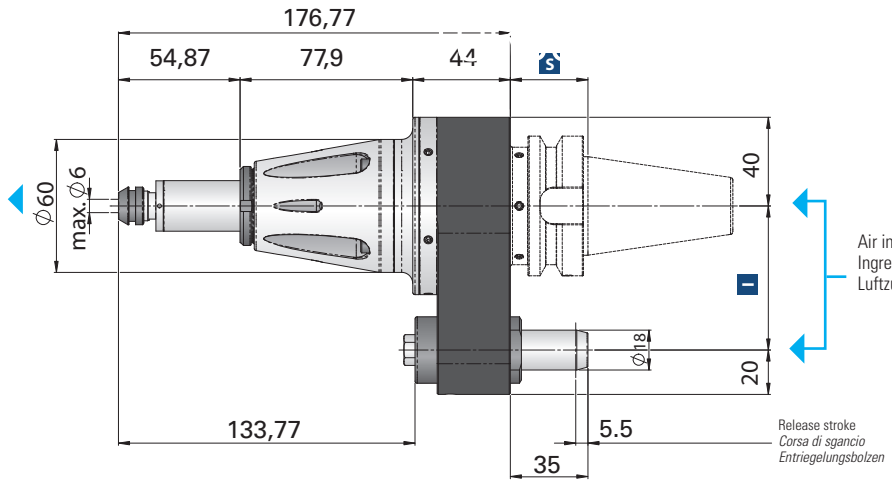


Retaining block /
Tassello di ritegno /
Stop-Block

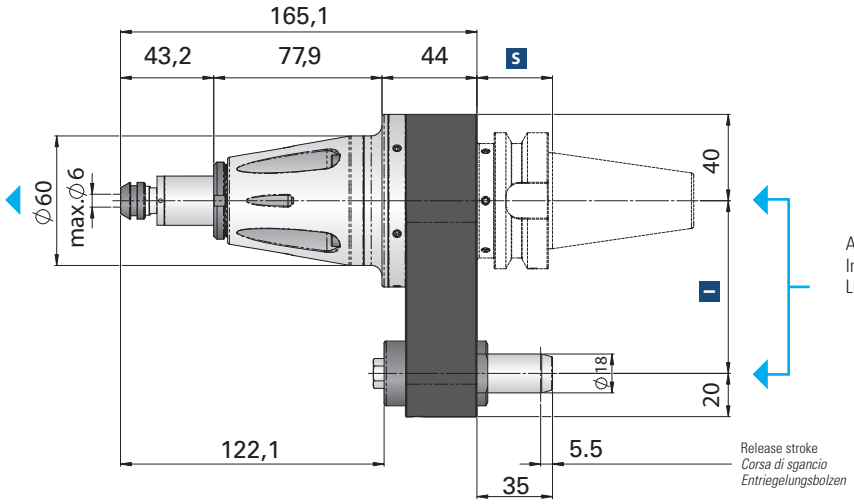


NOT INCLUDED
NON INCLUSO
NICHT ENTHALTEN

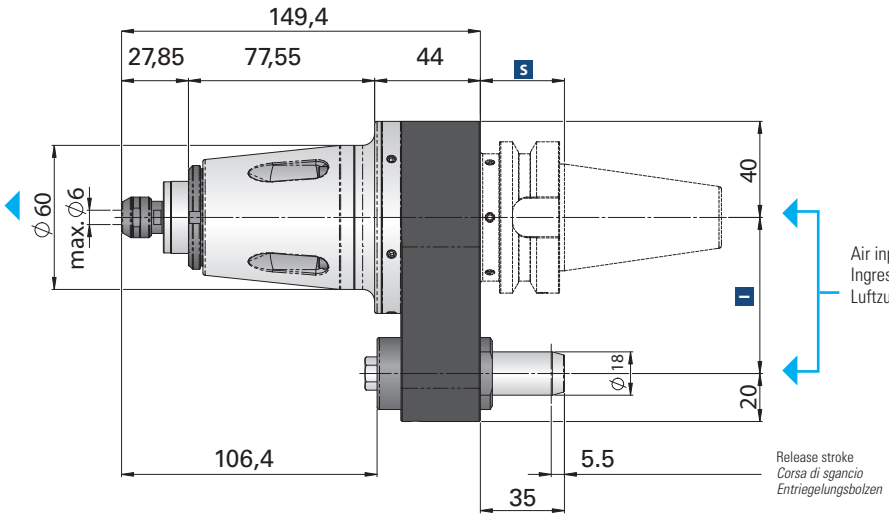
Turboflex 60.000 RPM



Turboflex 30.000 RPM



Turboflex 20.000 RPM



Dati tecnici /Technical data/Technische Daten

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 / Luftdrunk	bar	max. 6 (max. 90 Psi)
Air consumpion / Consumo aria / Luftverbrauch	Nl/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 - max 6mm every 0,1

Coolant Option

It is possible to use external coolant during the machining.
Consentito usare refrigerante esterno durante la lavorazione.
Extern Kühlmitteleinsatz 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 / Luftdrunk	bar	max. 6 (max. 90 Psi)
Air consumpion / Consumo aria / Luftverbrauch	Nl/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 - max 6mm every 0,1

Coolant Option

It is possible to use external coolant during the machining.
Consentito usare refrigerante esterno durante la lavorazione.
Extern Kühlmitteleinsatz 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 / Luftdrunk	bar	max. 6 (max. 90 Psi)
Air consumpion / Consumo aria / Luftverbrauch	Nl/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 - max 6mm every 0,1

Coolant Option

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

Spindle Runout

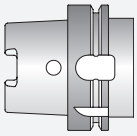
Spindle accuracy.
Precisione del Mandrino.
Spindelpräzision.

0,002 mm
0,00008 inch.

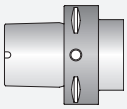
It is strictly forbidden to rotate the machine spindle as it may cause damage to the head
È severamente vietato far ruotare il mandrino macchina causa danneggiamento della testa -
Es ist verboten die maschimenspindel zu drehen da der kopf beschädigt seÏn könnte.

Air Driven

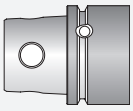
OPTIONAL DRIVE SHANK*
Non interchangeable input drive shank
Coni non intercambiabili
Nicht wechselbare Aufnahme



HSK
63/80/100

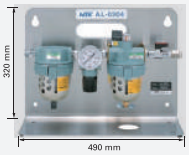


CAPTO
C5/C6/C8

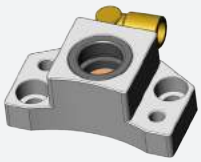


KM
50/63

Air line kit / Filtro regolatore aria / Luftsystem

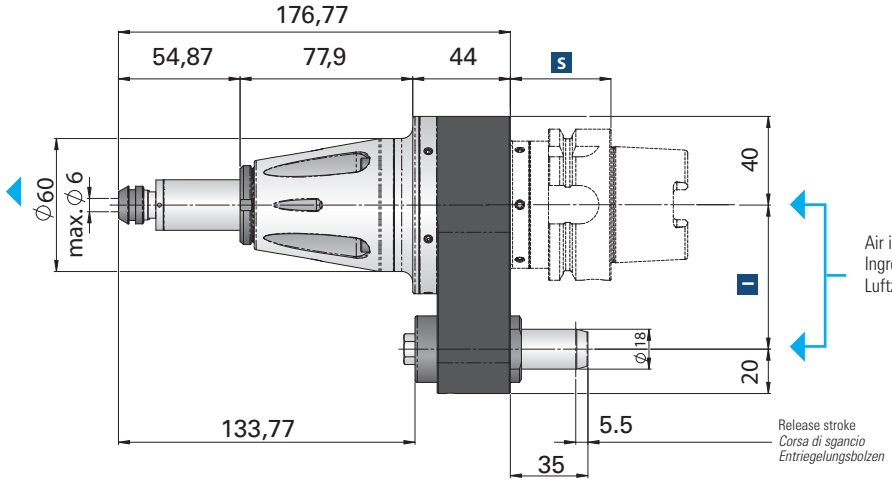


Retaining block /
Tassello di ritegno /
Stop-Block

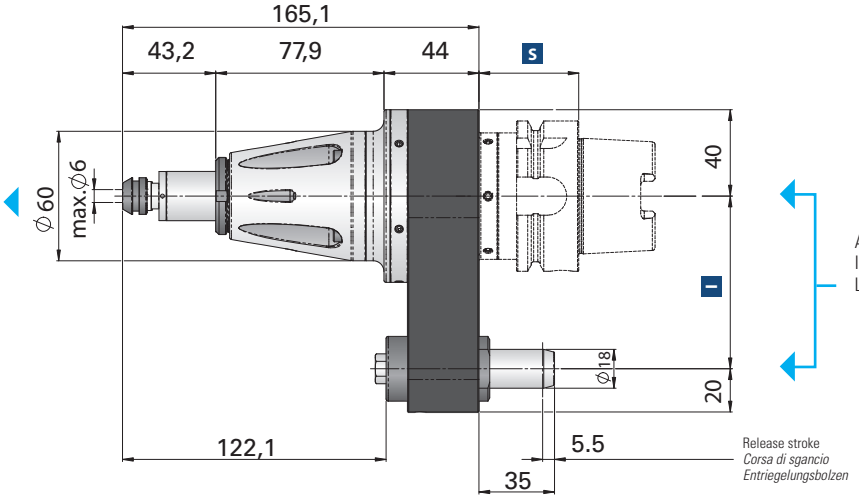


NOT INCLUDED
NON INCLUSO
NICHT ENTHALTEN

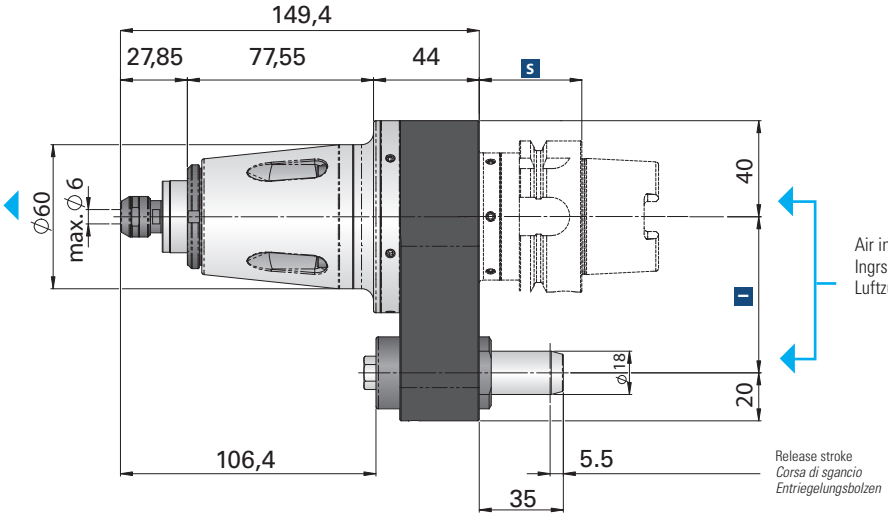
Turboflex 60.000 RPM



Turboflex 30.000 RPM



Turboflex 20.000 RPM



Dati tecnici /Technical data/Technische Daten

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 / Luftdrunk	bar	max. 6 (max. 90 Psi)
Air consumpion / Consumo aria / Luftverbrauch	Nl/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 - max 6mm every 0,1

Coolant Option

It is possible to use coolant external during the machining.
Consentito usare refrigerante esterno durante la lavorazione.
Extern Kühlmitteleinsatz 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 / Luftdrunk	bar	max. 6 (max. 90 Psi)
Air consumpion / Consumo aria / Luftverbrauch	Nl/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 - max 6mm every 0,1

Coolant Option

It is possible to use coolant external during the machining.
Consentito usare refrigerante esterno durante la lavorazione.
Extern Kühlmitteleinsatz 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 / Luftdrunk	bar	max. 6 (max. 90 Psi)
Air consumpion / Consumo aria / Luftverbrauch	Nl/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 - max 6mm every 0,1

Coolant Option

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

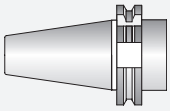
Spindle Runout

Spindle accuracy.
Precisione del Mandrino.
Spindelpräzision.

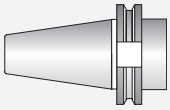
0,002 mm
0,00008 inch.

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 maschimenspindel zu drehen da der kopf beschädigt seÏn könnte.

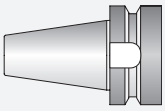
OPTIONAL DRIVE SHANK*
Non interchangeable input drive shank
Coni non intercambiabili
Nicht wechselbare Aufnahme



DIN-69871
ISO 40/50

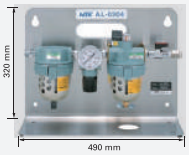


CAT
40/50

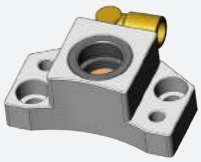


MAS-BT
40/50

Air line kit / Filtro regolatore aria / Luftsystem



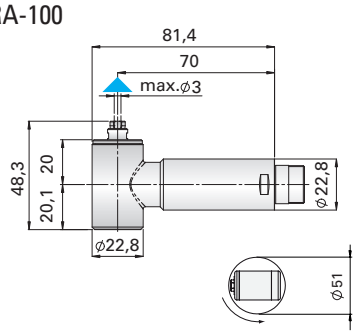
Retaining block /
Tassello di ritegno /
Stop-Block



NOT INCLUDED
NON INCLUSO
NICHT ENTHALTEN

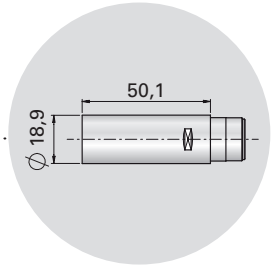
Turboflex 30.000 RPM

RA-100

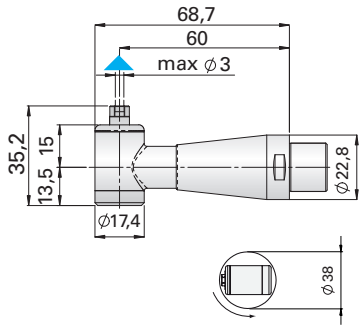


Diameter without tool with RA-100
Diametro senza utensile con RA-100
Durchmesser ohne Werkzeug mit RA-100

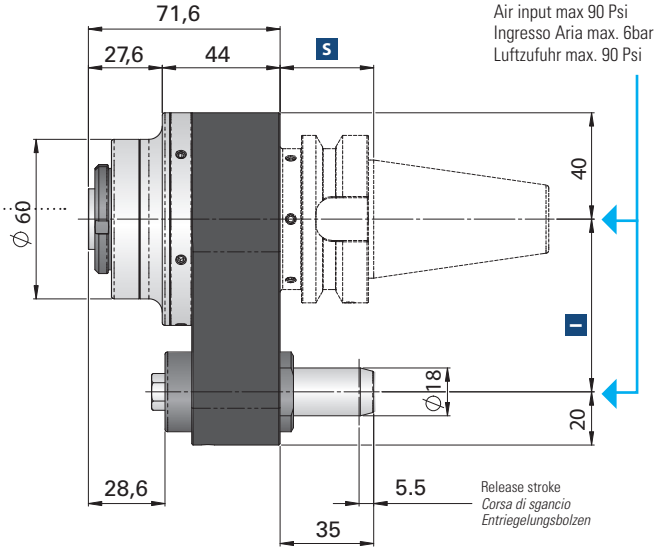
CN-01



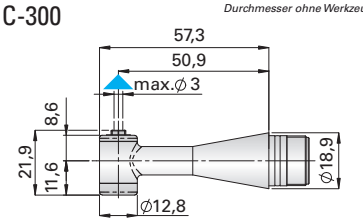
RA-200

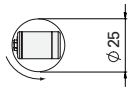


Diameter without tool with RA-200
Diametro senza utensile con RA-200
Durchmesser ohne Werkzeug mit RA-200



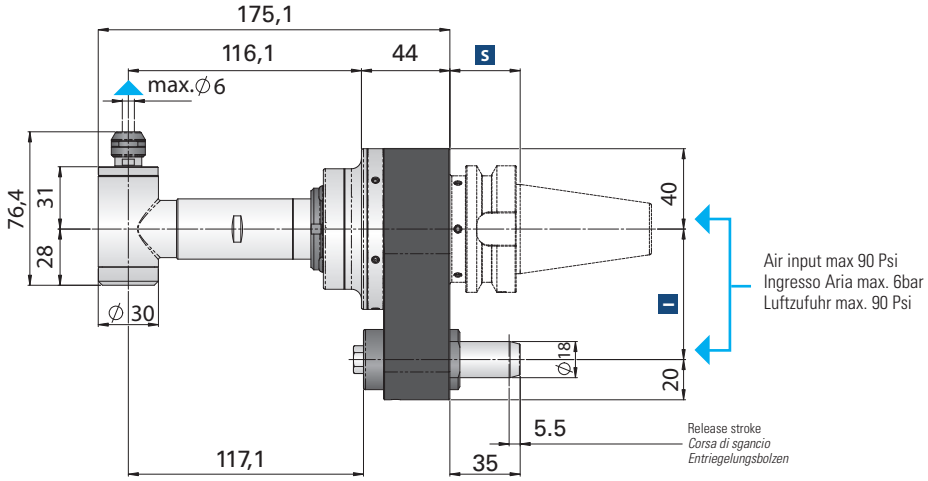
IC-300





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

Turboflex 20.000 RPM



Dati tecnici /Technical data/Technische Daten

Technical Data / Dati Tecnici / Technische Daten		RA-100	RA-200	IC-300
RPM max. / Max. Velocità / Drehzahl max.	min $^{-1}$	30.000 ± 10%	30.000 ± 10%	30.000 ± 10%
Type motor / Tipo di motore / Motortyp		AM-310	AM-310	AM-310
Power / Potenza / Leistung	W	108	108	108
Air pressure / Pressione aria / Luftdrunk	bar	max. 6 (max. 90 Psi)	max. 6 (max. 90 Psi)	max. 6 (max. 90 Psi)
Air consumpion / Consumo aria / Luftverbrauch	Nl/min	226	226	226
Output RPM / N° Giri in uscita / Drehzahlausgang	min $^{-1}$	11.230 ± 10%	20.000 ± 10%	22.000 ± 10%
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 / Luftsystem*	AL-M1202	AL-M1202	AL-M1202

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

Coolant Option

It is possible to use coolant external during the machining.
Consentito usare refrigerante esterno durante la lavorazione.
Extern Kühlmitteleinsatz 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 ± 10%
Type motor / Tipo di motore / Motortyp		AM-3020
Power / Potenza / Leistung	W	125
Air pressure / Pressione aria / Luftdrunk	bar	max. 6 (max. 90 Psi)
Air consumpion / Consumo aria / Luftverbrauch	Nl/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
I	65-80-(110*)	80-110	65-80 -(110*)	80-110
S	35	35	35	41

*optional

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 maschimenspindel zu drehen da der kopf beschädigt seïn könnte.

Collet

RAX-271 E	mm	CHK: Ø 0,5 - max 6mm every 0,1

Coolant Option

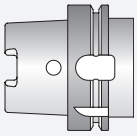
It is possible to use coolant external during the machining.
Consentito usare refrigerante esterno durante la lavorazione.
Extern Kühlmitteleinsatz möglich

Spindle Runout

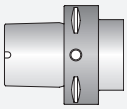
Spindle accuracy.
Precisione del Mandrino.
Spindelpräzision.

0,002 mm
0,00008 inch.

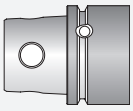
OPTIONAL DRIVE SHANK*
Non interchangeable input drive shank
Coni non intercambiabili
Nicht wechselbare Aufnahme



HSK 63/80/100

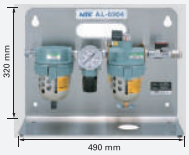


CAPTO C5/C6/C8

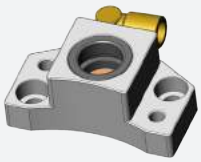


KM 50/63

Air line kit / Filtro regolatore aria / Luftsystem



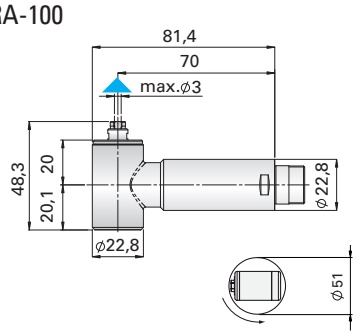
Retaining block /
Tassello di ritegno /
Stop-Block



NOT INCLUDED
NON INCLUSO
NICHT ENTHALTEN

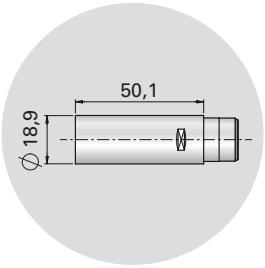
Turboflex 30.000 RPM

RA-100

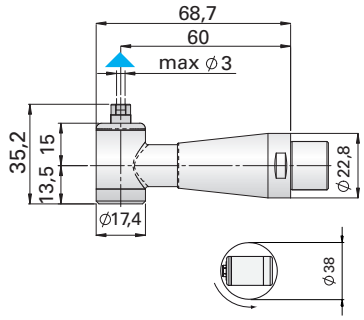


Diameter without tool with RA-100
Diametro senza utensile con RA-100
Durchmesser ohne Werkzeug mit RA-100

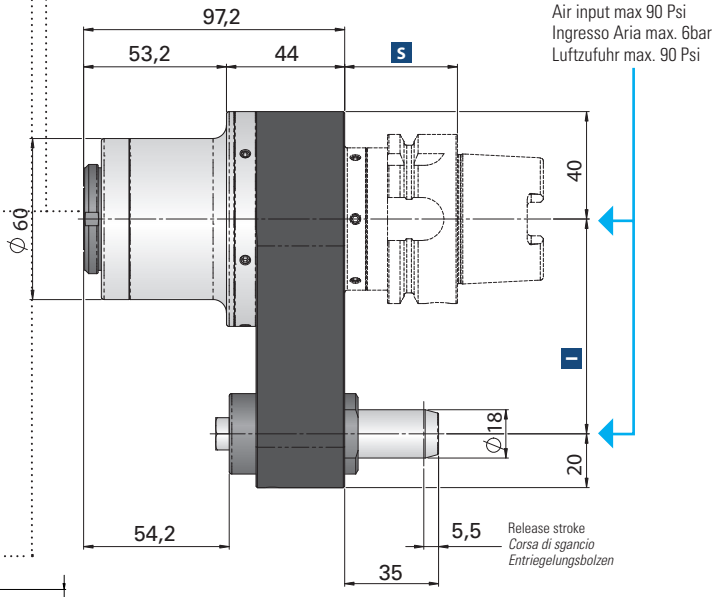
CN-01



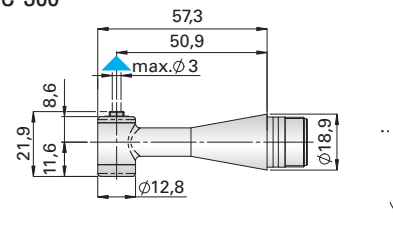
RA-200

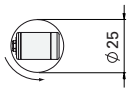


Diameter without tool with RA-200
Diametro senza utensile con RA-200
Durchmesser ohne Werkzeug mit RA-200



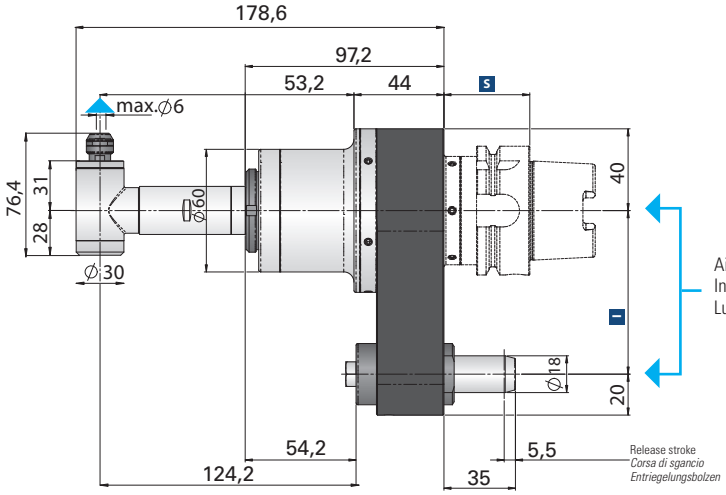
IC-300





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

Turboflex 20.000 RPM



Dati tecnici /Technical data/Technische Daten

Technical Data / Dati Tecnici / Technische Daten		RA-100	RA-200	IC-300
RPM max. / Max. Velocità / Drehzahl max.	min $^{-1}$	30.000 ± 10%	30.000 ± 10%	30.000 ± 10%
Type motor / Tipo di motore / Motortyp		AM-310	AM-310	AM-310
Power / Potenza / Leistung	W	108	108	108
Air pressure / Pressione aria / Luftdrunk	bar	max. 6 (max. 90 Psi)	max. 6 (max. 90 Psi)	max. 6 (max. 90 Psi)
Air consumpion / Consumo aria / Luftverbrauch	Nl/min	226	226	226
Output RPM / N° Giri in uscita / Drehzahlausgang	min $^{-1}$	11.230 ± 10%	20.000 ± 10%	22.000 ± 10%
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 / Luftsystem	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 Kühlmitteleinsatz 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 ± 10%
Type motor / Tipo di motore / Motortyp		AM-3020
Power / Potenza / Leistung	W	125
Air pressure / Pressione aria / Luftdrunk	bar	max. 6 (max. 90 Psi)
Air consumpion / Consumo aria / Luftverbrauch	Nl/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

RAX-271 E	mm	CHK: Ø 0,5 - max 6mm every 0,1

Coolant Option

It is possible to use coolant external during the machining.
Consentito usare refrigerante esterno durante la lavorazione.
Extern Kühlmitteleinsatz 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 maschimenspindel zu drehen da der kopf beschädigt seĭn 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 the rotation is given by the air motor mounted inside the head.

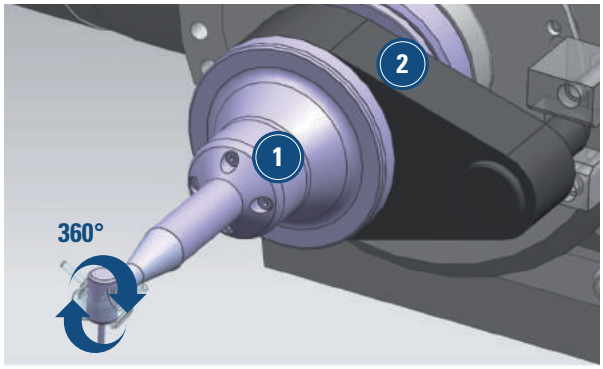
Il mandrino può essere posizionato su 360° grazie all'indexaggio dell'asse C della macchina, mentre la rotazione è assicurata dalla presenza del motore ad aria.

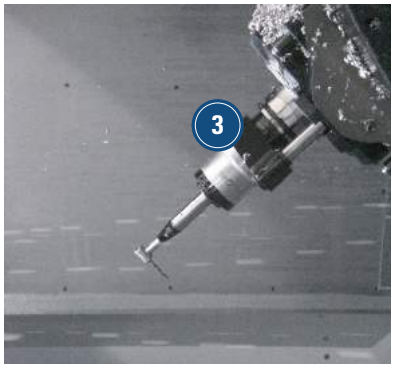
Der Spindel kann über 360° dank der Indexierung der C Achse der Maschine automatisch positioniert werden. Der Luftmotor gewährleistet die Rotation der Spindel.

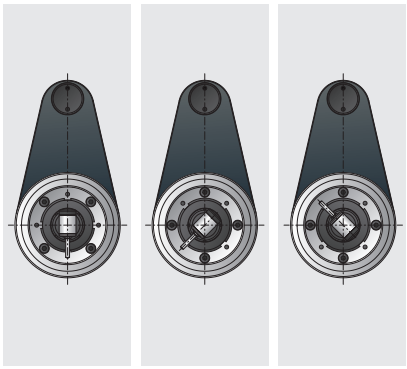
1. *This portion rotates.*
   Questa parte ruota. Dieser Teil dreht
2. *This portion remains fixed.*
   Questa parte resta ferma. Dieser Teil bleibt fest

3. *Air input from the machine spindle gives the rotation to the motor inside of the body.*
   L'aria garantisce la rotazione del motore nel corpo.
   Luft durch die Spindel oder Referenzbohrung gewährleistet die Rotation.

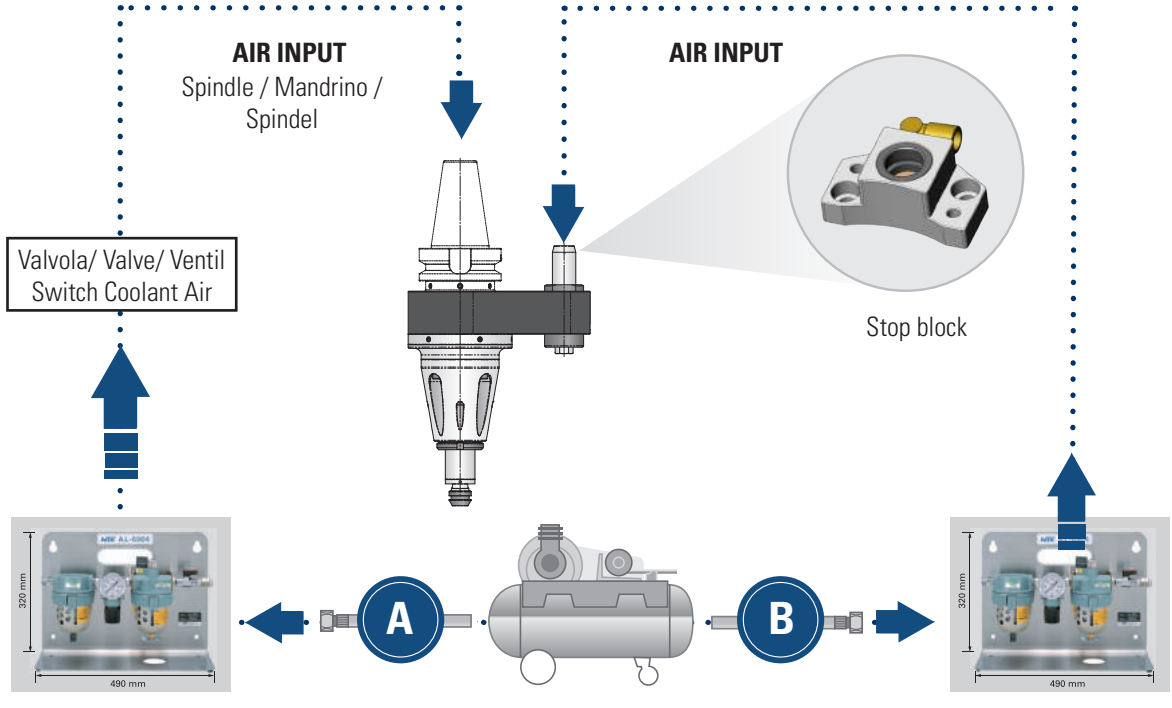
The indexing system allows to self-position the tool without additional positioning.
Il sistema di indexaggio permette il posizionamento del mandrino su 360°.
Das Indexierungssystem erlaubt die Positionierung der Spindel über 360°.







How it works / Come funziona Turboflex / Wie funktioniert



Compressor / Compressore / Kompressor

Air line kit / Filtro regolatore aria / Luftsystem

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 maschimenspindel zu drehen da der kopf beschädigt seĭn könnte.


Alberti

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