BIAX Professional Power

1919 - 2020 101 JAHRE Das Original

BIAX PNEUMATIC SPINDLES WITH TOOL-CHANGING SYSTEM

MADE IN GERMANY

What our new system offers

With the integrated tool-changing system, tool changes can be carried out fully automatically and without downtime. The system can thus be operated for much longer without personnel. This is a great advantage, especially for applications with relatively short tool-change intervals. If a component needs to be machined using different tools, it may be sufficient to stick with a single spindle. However, the automatic replacement of worn tools also offers great economic advantages. In any case, the tool-changing system significantly increases the flexibility of the system.

Functionality

The system is manufactured to extremely high quality standards and allows tool changes at any position via a coupling. The machine does not need to be rotated to a special position for this. Tool changing is performed using a special changing station, which automatically pushes back the coupling sleeve. The spindle can be used while installed on a stationary unit or on the robot itself.

Interchangeable insert SW ER16

Interchangeable insert SW ER11

The interchangeable inserts are available in two sizes. The insert with ER11 collet can accept tools with a shaft size up to 7mm, the insert with ER16 collet can accept tools up to 10mm.

Spindle with changing system and axial displacement

The tool-changing system can also be combined with an axial displacement which yields in the axial direction when used with front-facing tools such as cup brushes. This ensures that the tool is always pressed onto the component with virtually constant same pressure, even as the tool starts to wear. This improves the surface finish and ensures a high degree of tool utilisation and uniform abrasion on a large number of components. It also significantly reduces the time and effort required for readjustment via programming. The axial displacement is available with different contact pressures of between 5 N and 70 N in accordance with customer requirements.

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Standard spindles with tool-changing system

Technical data	R 4102 SW	R 4105 SW	R 4112 SW
Order no.	150 414 610	150 414 600	150 414 620
Speed [rpm]	1,700	5,000	12,000
Power [watt]	500	500	400
Exhaust air direction	backwards	backwards	backwards
Air consumption under load [l/min]	850	850	790
Noise level [dB (A)]	78	78	78
Weight [g]	1,400	1,400	750

Hose unit with exhaust air hose (not included)			
Order no.	001 366 510	001 366 510	001 366 580
Hose length [m]	3	3	3
Pressure hose Ø [mm]	10	10	10

Spindle with tool-changing system and axial displacement

Technical data	R 4102 SW AX	R 4105 SW AX
Order no.	150 414 710	150 414 700
Speed [rpm]	1,700	5,000
Displacement distance [mm]	10	10
Displacement force [N]	5–70 as per customer requirements	5–70 as per customer requirements
Power [watt]	500	500
Exhaust air direction	backwards	backwards
Air consumption under load [l/min]	850	850
Noise level [dB (A)]	78	78
Weight [g]	1,400	1,400

Hose unit with exhaust air hose (not included)		
Order no.	001 366 510	001 366 510
Hose length [m]	3	3
Pressure hose Ø [mm]	10	10

Collets

ER11 D 6 mm	001 624 802
ER16 D 6 mm	001 624 807
ER16 D 8 mm	001 624 804
ER16 D 10 mm	001 624 811

Collett wrench

ER11 Mini	001 624 805
ER16 Mini	001 624 806

Version for BIAX RSC system

(cannot be combined with displacement)

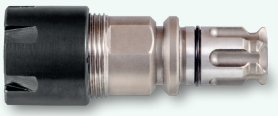
RSC-S 16.000 SW
008 015 208
16,000
550
backwards
800
/
/

Tool-changing station SW

Order no. 001 985 501

Interchangeable insert SW ER11

Order no. 001 985 502



Interchangeable insert SW ER16

Order no. 001 985 503

Our product range also includes suitable deburring and finishing tools.

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