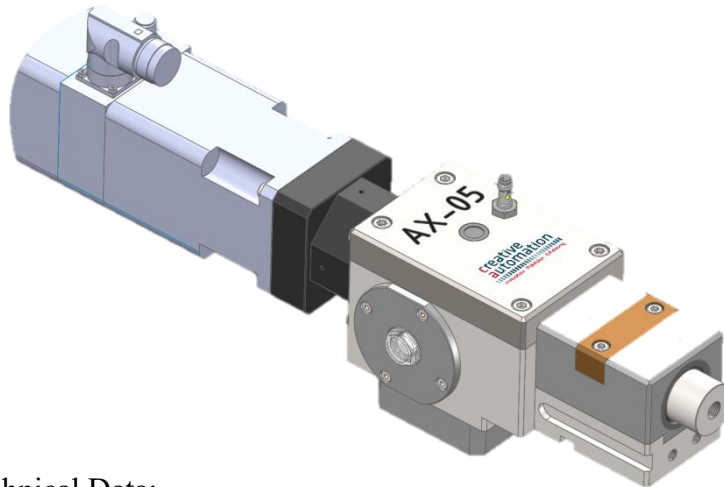




AX-05
Compact Automation Component

Technical Data:

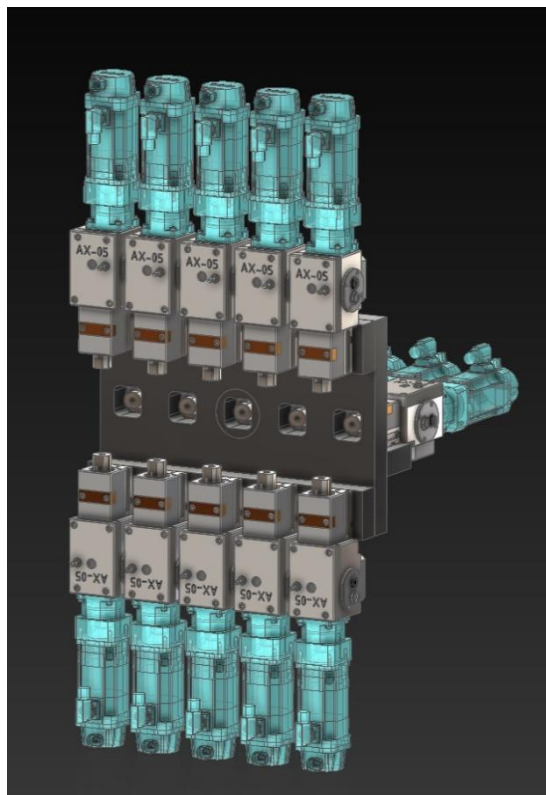
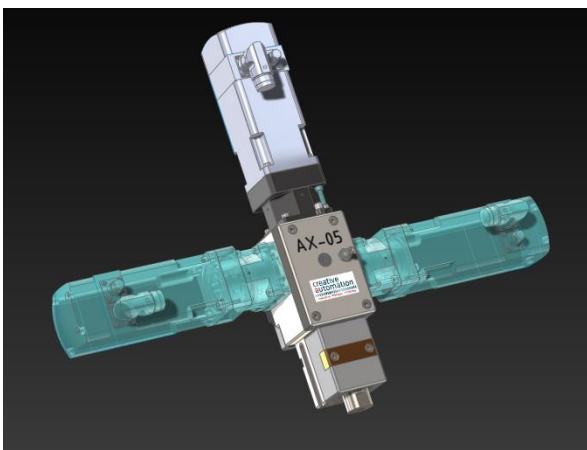
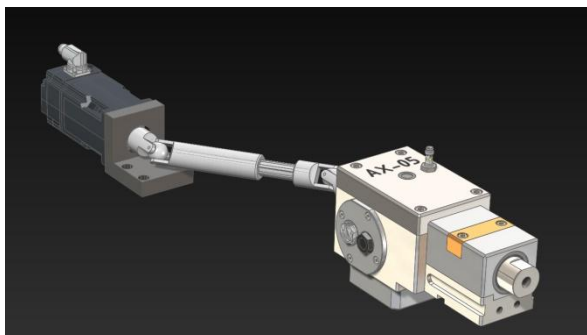
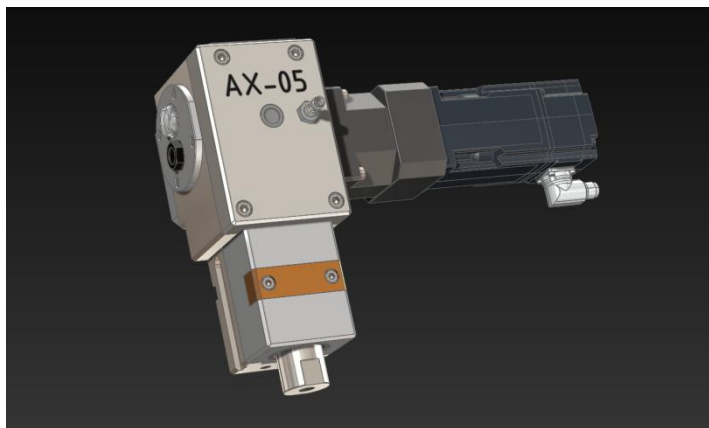
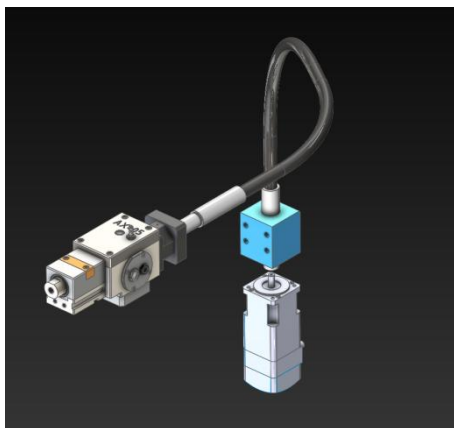
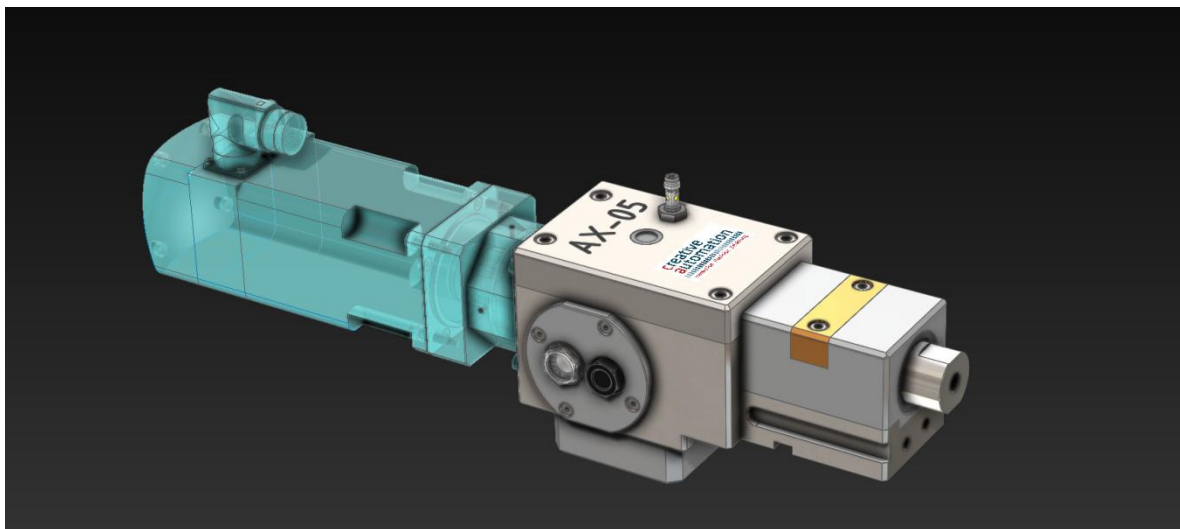
Forming force: (Cam disc & drive dependent)	max. 5kN
Hub: (Cam dependent)	max. 5mm
Clock frequency:	500 Hube pro Minute
Servo drive: (Standard)	Siemens 1FKxxx-xxxx-xJxx
Weight: (Depending on drive and options)	ca.10kg (ohne Motor)
Dimension: Width x height (without sensor) x length (without drive)	104mm x 114mm x 283,5 + Hub
Price	22.000€

Application Areas:

- Punching, bending, assembling, and forming even in confined spaces
- Direct integration into punching, bending, and forming tools
- Retrofitting additional movements in existing systems (presses, bending/forming machines)
- Stand-alone system for punching, bending, and assembly processes, for integration into existing or new machines

Options:

- Dedicated control cabinet with interfaces to higher-level machines, combinable into multi-axis systems
- Cam disks with different strokes and motion profiles
- eigenständiges Komplettsystem mit Steuerung und Schaltschrank
1 bis 4 AX-05 Module, größere Anzahl auf Anfrage
- Interchangeable ram adapters for adapting various tools, custom designs available
- Drive with flexible shaft for confined spaces
- Drive with cardan shaft
- Side-mounted drive (right or left)
- Drive via timing belt
- Sensor for zero-point indexing for integration into third-party controls
- Motors from various manufacturers can also be used upon consultation (with specific coupling, motor flange, and suitable controller)
- Various installation positions possible (must be specified when ordering)



Technical drawing of the AX-05 motor showing three views: front, side, and top. The front view shows a square motor body with a central circular port and mounting holes. The side view shows the motor's profile with a flange and a mounting bracket. The top view shows the motor's base with mounting holes and a central port. Dimensions are provided in millimeters.

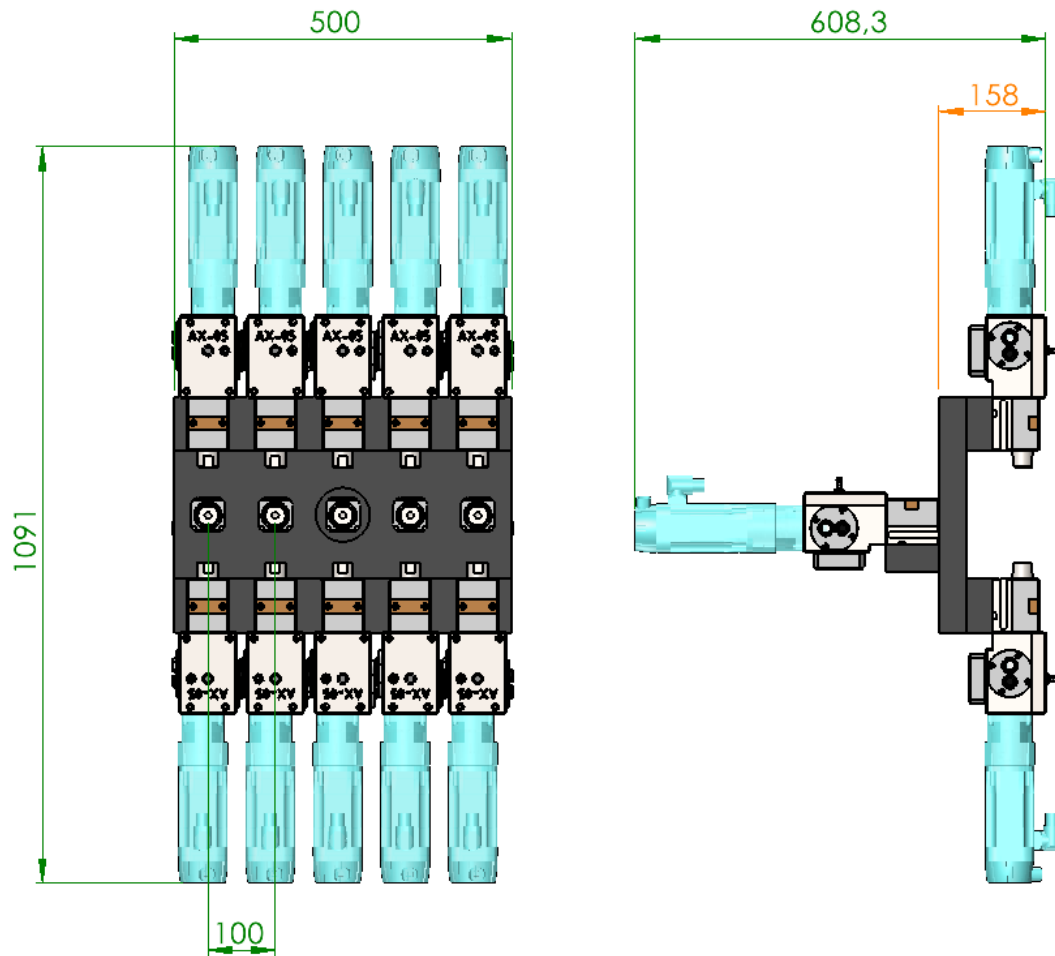
The graph illustrates the variation of the angle of attack (α) in degrees versus the angle of incidence (i) in degrees. The x-axis represents the angle of incidence (i) from 0° to 360° , and the y-axis represents the angle of attack (α) from 0° to 200° . The curve shows a non-linear relationship, with the angle of attack increasing rapidly at low incidence, reaching a peak of 80° at 25° incidence, and then decreasing as the angle of incidence increases further.

Angle of Incidence (i)	Angle of Attack (α)
0°	0°
25°	80°
100°	150°
360°	240°

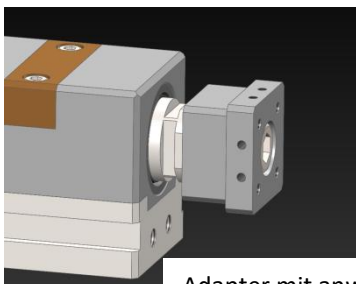
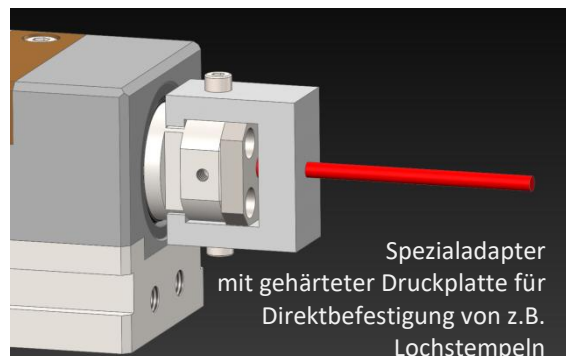
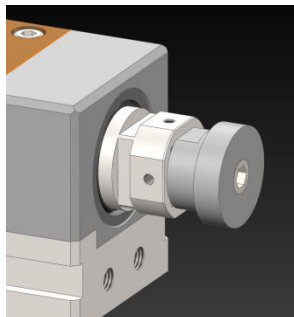
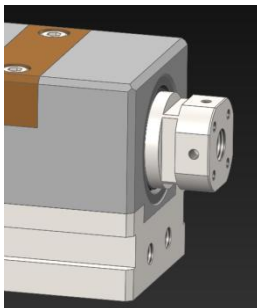
The slope of the curve is labeled as $+4/80$, $+1/70$, and $-5/80$ at different points along the curve.

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Combination with linear or radial machining centers:



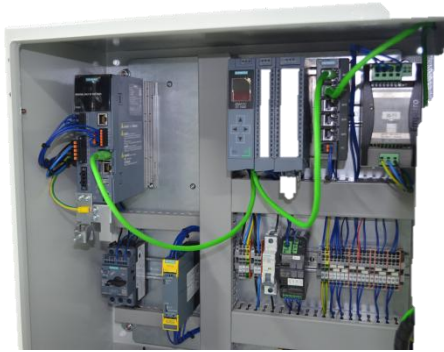
Examples of Ram Adapters:



Adapter mit anwendungsspezifischer Form

Sonderausführungen nach Kundenanforderung und Sonderstößel sind nach Rücksprache möglich.

Optional: Independent Control Cabinet with Servo Drive Control



- Dimensions: 500 x 500 x 300 mm
- Touchscreen (7" / 17.8 cm diagonal) for operation and parameter input
- Emergency stop button and main switches
- Connection: 240 V / 16 A fuse
- Stand-alone operation or integration into higher-level controls possible
- Signal exchange via bus system, IO signals, and/or encoder coupling mit Königswellen
Schnittstellen müssen vorab geklärt und projektabhängig definiert werden.
- Control cabinets for larger axis counts available upon request.