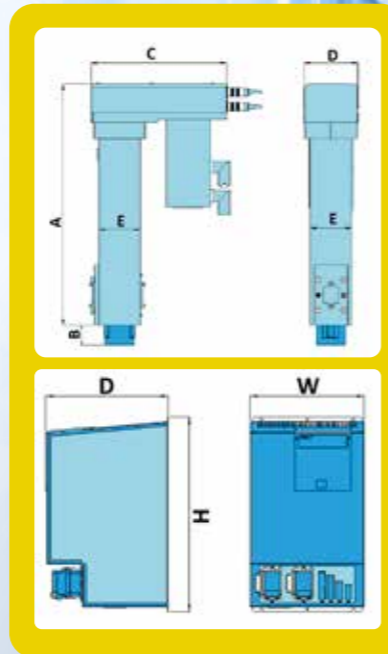


PRODUCT RANGE

| | ARM1K-HP1 | ARM2K/5K-HP1 | ARM10K/15K/20K-HP1 | ARM30K-HP1 | ARM60K-HP1 | ARM100K-HP1 |
|---------------------------------------|---------------------------------|--------------|-----------------------|-----------------------|-------------|-------------|
| Max force (kN) | ±1 | ±2/±5 | ±10/±15/±20 | ±30 | ±60 | ±100 |
| Stroke (mm) | 150 | 200 | 200 (300 optional) | 200 (300 optional) | 300 | 300 |
| Max speed (mm/s) | 200 | 200 | 300 | 300 | 200 | 150 |
| Max acceleration (mm/s ²) | 1000 | 1000 | 1500 | 1500 | 1000 | 1000 |
| Load accuracy | ≤1% load cell fs | | | | | |
| Stroke repeatability | ±0.01 mm (under identical load) | | | | | |
| Driver | Armdrive001 | Armdrive005 | Armdrive020 | Armdrive030 | Armdrive100 | |

TOOL SIZE (mm)

| Model - Stroke | A | B | C | D | E |
|--------------------------|-----|----|-----|-----|-----|
| ARM1K-HP1 (Axial design) | 671 | 20 | 152 | 66 | 60 |
| ARM2K/5K-HP1 | 517 | 40 | 291 | 116 | 90 |
| ARM10K/15K/20K-HP1 - 200 | 614 | 40 | 319 | 165 | 120 |
| ARM10K/15K/20K-HP1 - 300 | 725 | 40 | 319 | 165 | 120 |
| ARM30K-HP1 - 200 | 647 | 40 | 354 | 165 | 120 |
| ARM30K-HP1 - 300 | 727 | 40 | 354 | 165 | 120 |
| ARM60K-HP1 | 792 | 40 | 482 | 233 | 180 |
| ARM100K-HP1 | 932 | 40 | 510 | 233 | 220 |



DRIVER

| Model | ARMDRIVE001 | ARMDRIVE005 | ARMDRIVE020 | ARMDRIVE030 | ARMDRIVE100 |
|-------------------------|--|-------------|-------------|-------------|-------------|
| Absorbed Power (kW) | 0.75 | 2 | 4 | 13 | 18.5 |
| Frequency (Hz) | 50÷60 | 50÷60 | 50÷60 | 50÷60 | 50÷60 |
| Power supply | AC 380...480 V ± 10% (power) DC 24 V -15%/+20% (logic) | | | | |
| Size (WxHxD) (mm) | 198x415x274 | 198x415x274 | 239x415x279 | 280x465x294 | 363x620x301 |
| PC interface | Ethernet (RJ 45) | | | | |
| PLC interface | Profibus / Profinet / Digital I/O | | | | |
| Additional digital I/O | 3I/1O (24I / 24O optional) | | | | |
| Analog input | (0 ÷ 10) V / 11 bit | | | | |
| External transducer TTL | Optional | | | | |

Specifications are subject to change without prior notice

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ARMAX

Electro-mechanical joining system

XELIT

Armax is an integrated system for press fitting with force and stroke control. Available in different sizes, it is remarkably resistant to shear force, easy-to-use, and flexible.

MAIN FEATURES

- **Improvement of production process:** load, position, speed, and time are constantly under control, increasing process efficiency
- **Full traceability:** the collection of a variety of data during the working cycle ensures 100% traceability
- **Easy setup:** the system consists of a tool, controller, and cable and can be simply configured
- **Respect of environment:** the servo motor drive greatly reduces energy consumption and noise



Armax servo press

Press fitting of fuel rail injectors



FLEXIBLE SOFTWARE

High level of programming freedom

A specialised programming language, similar to that employed for robotic control systems, allows complex movements.

Easy creation of new programs

A specific function allows creation of new programs for general purposes in few steps by setting a small number of parameters.

Several evaluation methods

Load, stroke, and load rate values are measured on final and peak points as well as on other desired points. Positioning is performed with a digital (TTL) or analogic external transducer. Press fitting can be monitored in real time by a control window that displays an evaluation area created by a tolerance range added to the actual stroke/load curve.

SOFTWARE MAIN FEATURES

- 32 programs on board
- 10 control windows for each program
- Multiple view environment
- Step-by-step configuration of programs
- Offline programming
- Up to 5 systems management through one HMI
- Real-time load and stroke control
- Data collection
- Advanced user management
- Advanced access management



Example of force-displacement diagram with control windows and production data management