

**XELIT**

# **ARMAX**

**Electro-mechanical  
joining system**

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*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



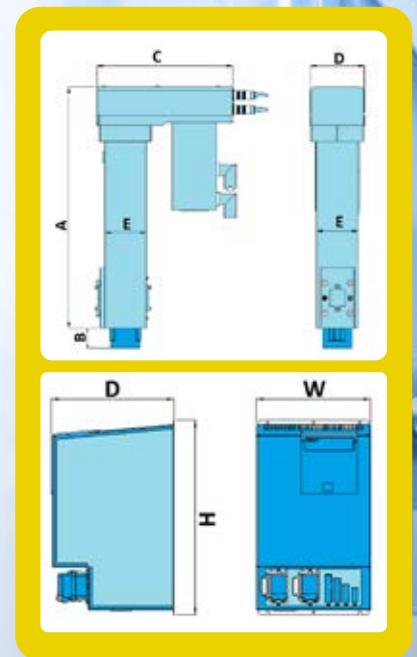
Example of force-displacement diagram with control windows and production data management

## 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 <sup>2</sup> )	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