HIGH POWER Nutrunner Controls   H 1.6

■ Control systems for handheld nutrunners

AMT offers a broad spectrum of nutrunner controls, which were developed as a result of diversified requirements from our customer base. A modular systems architecture provides custom solutions for even the most complex demands.

The SMD10 is our most cost-effective introductory model into the world of electric nutrunning technology. It offers up to 15 nutrunning programs and accommodates our handheld tools with reaction torque sensor.

The SMXP sets new standards at the high end of the performance scale. Thanks to an integrated PC, there are almost no limits in regard to the nutrunning process, network capabilities, and integration with higher level host computers and quality management systems. The modular software architecture on the SMXP makes it possible to adapt control software to just about any application. And what if the software, despite its powerful range of functions, still doesn't meet your needs? No problem! Our strength lies in developing individual software solutions for customer requirements, building on our tried and true base software.

The functionality of the SMXP also allows the connection of multi-channel, decentralized control topologies. Up to 9 cost-effective SMX10 controls can be connected to the SMXP. The SMX10 is just as powerful as the SMXP when it comes to the nutrunning process, but without an integrated PC. For this reason, the interface to higher level systems takes place through the SMXP. The resulting master-slave configuration offers a high range of performance at a favorable price.

The SMXP Twin control was developed for efficient and cost-effective 2-channel applications. It offers the same capabilities as the SMXP control. Despite the 2-channel configuration, no cooling element is required for the SMXP Twin control.

• **SMD10**

• **SMX10**

• **SMX20**

• **SMX30**
Narrow

• **SMX30**
Long

• **SMXP twin**

• **SMXP**

Nutrunner Controls

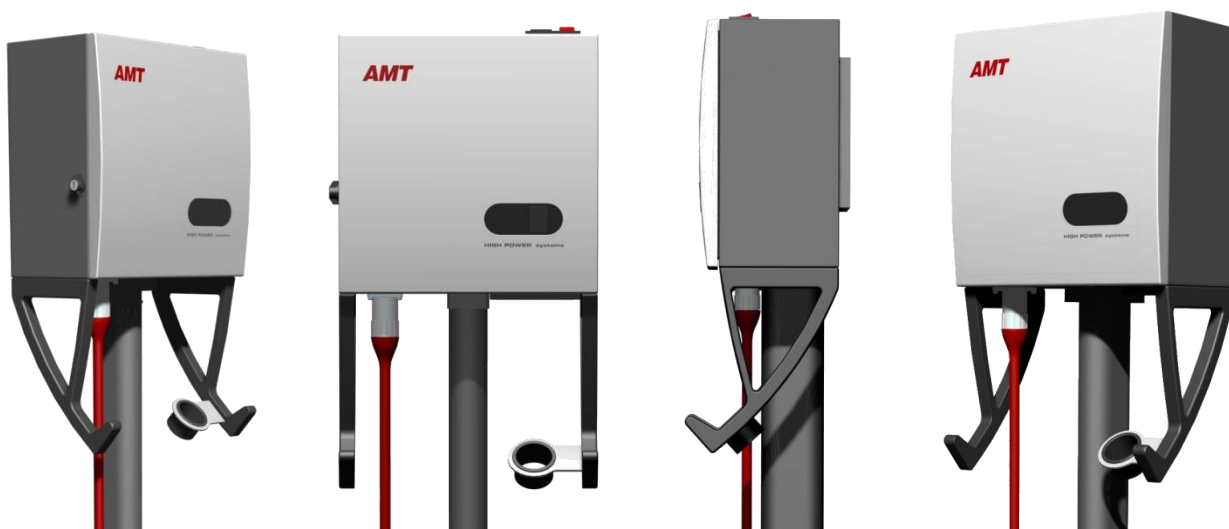## Nutrunner Control SMD10 H 1.6.1
Single-Channel

■ **General information**

Cost-effective entry into
EC Nutrunner technology

Pneumatic nutrunners are still used frequently for many tightening tasks. However, increased demands on quality and assembly process safety and reliability have lead to an increased interest in high-tech EC nutrunner technology. The SMD10 nutrunner control was developed for just this purpose. It combines the demand for a cost-effective tightening system with the advantages of state-of-the-art EC nutrunning technology.

Torque sensors guarantee
high-precision connections

All nutrunning tools for the SMD10 are equipped with torque sensors and also store the rotation angle. The SMD10 provides, therefore, precision torque with consistent quality. By storing the rotation angle, the control monitors whether or not the specified torque is actually being applied to the bolted assembly. In addition, the tool's current consumption, equivalent to the torque, is used as a redundant control variable. By doing this, all requirements for safe, reliable, and high-quality bolted assemblies are met by the SMD10.

Nutrunner Control SMD10   H 1.6.1

Single-Channel

■ **Special Features – Technical Data**

Assembly
• Housing brackets for wall / mounting on support element
• IP54 protection

Display and Operator Controls
• 7-digit display

Programming and Parameterization
• RS232/485 serial interface
• User-friendly software for Windows XP-compatible laptops

Tightening Method
• Torque control with angle monitoring
• Angle control with torque monitoring
• Angle-controlled loosening
• Yield point control

Interfaces
• RS232/485 programming and data interfaces
• Parallel I/O to connect operator panels and socket box or
  used as BMS interfaces, e.g. to SPS

Periphery
• Operator panel
• Socket box

Number of Programs
• 4, 6 or 15 (depends on the selection)

Additional Functions
• Counter function embedded in program

Compatible Nutrunners
• HCR, HCRK, PCR, HCX and PCX series
  handheld nutrunners with reaction torque sensors
• ECR1 and ECR2 assembly nutrunners with
  reaction torque sensors, as long as emergency stop
  is not required

Type	Dimensions (HxWxD) in mm	Weight in kg	Ident-No.
SMD10 40ASH	330x330x180	approx. 11	700 9928