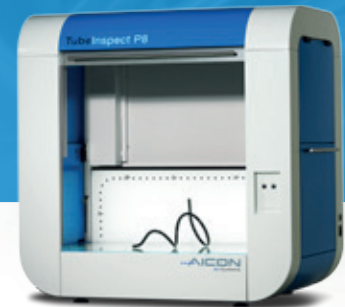


# BendingStudio

SOLUTIONS FOR BETTER BENDING



## Optimized data handling for every production step

It takes several steps from a drawing to an actual tube or wire, each one requiring different types of data. The software platform BendingStudio links all data and processes around the production of bended parts: from construction to process planning to manufacturing and quality control. BendingStudio is the only tool to meet and combine these requirements with emphasis on metrological processes. In combination with the TubeInspect systems, BendingStudio offers efficient and customer-oriented solutions for all applications around manufacturing of bended parts.

## Easy handling – many possibilities

BendingStudio has a convincing simple and clearly structured handling concept. In addition, many tools ease the daily work in all areas of bended part manufacturing. For example, it is possible to construct bend data from centerline data; or, before applying corrections, the effects of a modified bending program can be simulated. Moreover, all this is done in a very simple and quick way.

## BendingStudio connects:

- Process planning, quality control and manufacturing
- Metrology and bending machines
- Part inspection and statistical process control
- Prototyping and serial production

### YOUR ADVANTAGES AT A GLANCE:

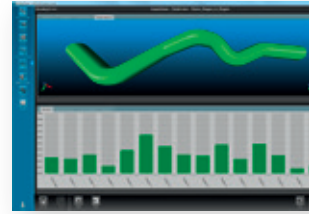
- ✓ Effective data handling
- ✓ One software for all users
- ✓ Faster from drawing to part
- ✓ Higher productivity
- ✓ Interconnected data access

## The right solution for every user

The users in the various process steps have quite different requirements. While measuring parts during production, the operator wants to see only those parts that are actually bended, perform a measurement with just one click of a button, and see all the important results at a glance. In process planning and analysis however, complex data must be clearly displayed and edited. BendingStudio provides a tailored environment for each user according to his individual needs, and allows for data access independent of workplace and location.



# BendingStudio | Modular Structure



## Software packages

START	Modules BASE, GAUGE, REPORT, STATISTIC, BD-CLASSIC
TUBE	Package START + Modules ELBOW, INSPECT, ASSEMBLY; Interface BD-CORRECT
WIRE	Package START + Module INSPECT; Interfaces BD-CORRECT, BD-FREEFORM
PROFESSIONAL	Package START + Modules INSPECT, ELBOW, ASSEMBLY, FLEX-STANDARD, BUILD; Interfaces BD-CORRECT, BD-FREEFORM
OFFLINE	Additional license, includes the same modules as the main license

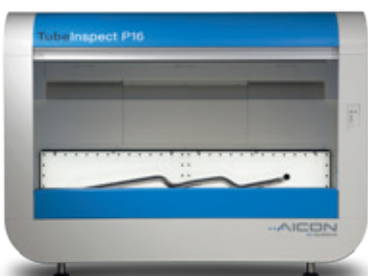
## Modules

BASE	Part database, editor, material database, user management
GAUGE	Virtual gauge, sheath tolerance for centerline and bending points
INSPECT	Inspection of functional dimensions
BD-CLASSIC	Calculation of bending data with fixed bending radius
BRANCH	Measurement of branched tubes with multiple classically bended components
STATISTIC	Evaluation of measurement series, process monitoring
REPORT	Viewer, report generation
FLEX-STANDARD	Deflection correction for classically bended tube components
FLEX-STRETCH	Stretching of hose components
ASSEMBLY	Position and location of fixings, flanges, and attachments; management of measuring tools, includes module ELBOW
ELBOW	Tube end-point measurement with straight-on and elbow adapters
BUILD	Design of bending programs from measurement or CAD data
SERVER/ DATA-SERVICE	Data storage and service on external server; data access on BendingStudio data bases either on different workplaces or on main server

## Interfaces

QS-STAT	Export of measurement results in DFQ file format (qs-Stat®)
IGES Export	Export of tube geometries in IGES
STEP Export	Export of tube geometries in STEP
CAD-WIZARD	Import of IGES/STEP data; automatic or interactive extraction of bending data
BD-CORRECT	Calculation of bending corrections with fixed radii, adaption of corrections, simulation, data export for connection to bending machines
BD-FREEFORM	Calculation of freeform bending programs, adaption of corrections, simulation, data export for connection to bending machines

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