BUNORM

SWISSFACTORY®

Basics

Founded:	1965
Production area:	10’500 m^2
Employees:	>100
CNC-Machines:	45
Locations:	3 (all in Switzerland)

Bunorm site “Aarwangen”

Bunorm site “Bleienbach”

Bunorm site “Neuenegg”

Certificates

ISO 9001
ISO 9100
EN 3834-2
EN 1090-1 EXC3
EN 1090-2 EXC3
EN 15085-2 CL1

ISO 14001 / 45001
IQ 9100
EN 9100
EN 1090-1 EXC3 Stahl

SQS

Zertifikat

Die SQS bescheinigt hiermit, dass nachstehend genannte Organisation über ein Managementsystem verfügt, das den Anforderungen der aufgeführten normativen Grundlage entspricht.

Bunorm Maschinenbau AG
Industriestrasse 6
4912 Aarwangen
Schweiz

Geltungsbereich

Maschinenbau, Herstellung von Sondermaschinen und Lohnfertigung

Normative Grundlage

ISO 9001:2015 Qualitätsmanagementsystem

Reg.-Nr. 10825

Gültigkeit 18.02.2021 – 17.02.2024
Ausgabe 18.02.2021

A. Grisard, Präsidentin SQS

F. Müller, CEO SQS

Schweizerische Vereinigung für Qualitäts- und Management-Systeme (SQS)
Bernstrasse 103, 3052 Zollikofen, Schweiz

Partner of IQNet

SQS

Zertifikat

On behalf of

SQS, die unter dem Luft- und Raumfahrt Registrationsverwaltungs-Programm akkreditiert ist, bescheinigt hiermit, dass nachstehende Organisation gemäss den Vorgaben von EN 9104-001:2013 auditiert wurde und im Besitz eines Managementsystems ist, welches den Anforderungen der aufgeführten Norm entspricht.

BUNORM

Bunorm Maschinenbau AG
Industriestrasse 6
4912 Aarwangen
Schweiz

Single Site

Geltungsbereich

Maschinenbau, Herstellung von Sondermaschinen und Lohnfertigung

Normative Grundlage

EN 9100:2018
equivalent to
AS9100 D
JISQ 9100:2016

Qualitätsmanagementsystem – Anforderungen an Organisationen der Luftfahrt, Raumfahrt und Verteidigung
Anforderungen basierend auf ISO 9001:2015

Reg.-Nr. 46651

Ausgabe 10.04.2022
Gültigkeit 09.04.2025
Änderungsdatum 10.04.2022

Auditdatum
03.09.2021 – 12.01.2022

A. Grisard, Präsidentin SQS

F. Müller, CEO SQS

Schweizerische Vereinigung für Qualitäts- und Management-Systeme (SQS)
Bernstrasse 103, 3052 Zollikofen, Schweiz

Partner of IQNet

SVSXASS

Schweißzertifikat

SVS-EN1090-2.00242.2021.001

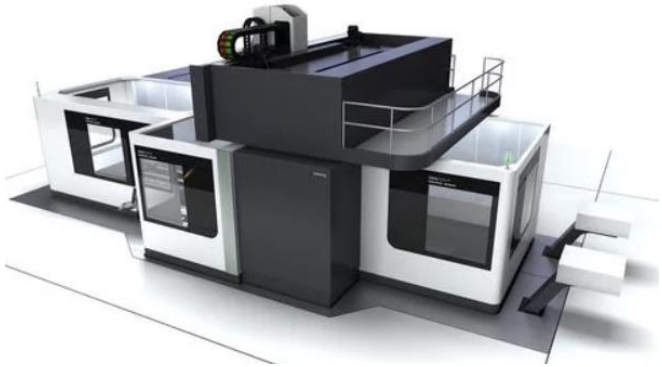
Hersteller	BUNORM MASCHINENBAU AG Industriestrasse 6 4912 Aarwangen SCHWEIZ
Technische Spezifikation	EN 1090-2:2018
Ausführungsklasse	EXC3 nach EN 1090-2
Schweißprozess(e)	135 - MAG-Schweißen mit Massivdrahtelektrode, teilmechanisiert
Werkstoffgruppe	1.2 nach CEN ISO/TR 15608 und EN 1090-2 (2018), Tabelle 2 und 3
Verantwortliche Schweißaufsichtsperson	Ing. Eric Mosgeller, SAE — geb. am: 15.11.1965
Vertreter	Reto Müller, IWS — geb. am: 08.05.1978
Bestätigung	Auf Grundlage der Bestimmungen der oben genannten technischen Spezifikation werden alle Anforderungen an das Schweißen erfüllt.
Gültigkeitsbeginn	18.02.2021
Gültigkeitsdauer	04.02.2022
Bemerkungen	-
Ausstellungsort/-datum	Basel, 18.02.2021 Wildhaus

Dipl.-Ing. Gruber

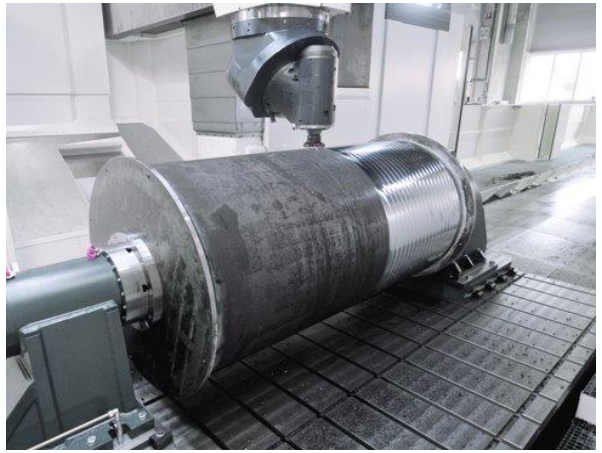
Bulky Parts

Bulky Parts

- Several portal milling machines
- Dimensions up to 18 x 3.5 x 3 m
- Total mass up to 60 tons
- 5 axis processing



e.g. DMU 600 P

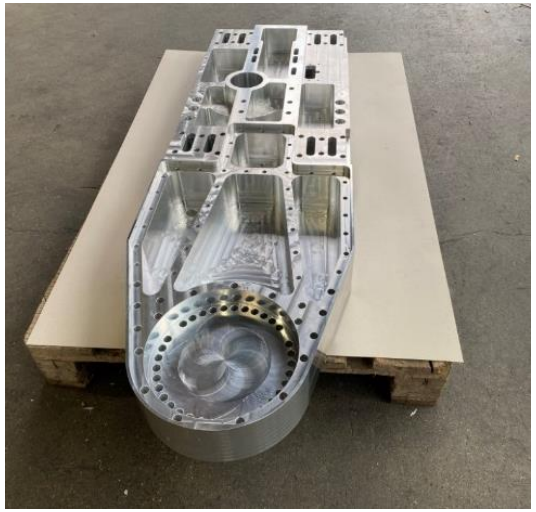


Semi Bulky Parts

Semi Bulky Parts (up to 6 m)

- 5 axis processing
- High spindle velocity
- Hight rapid motion speed

e,g. DMU 340



Bulky Parts – Turning

Bulky Parts – turning up to a diameter of 3 m

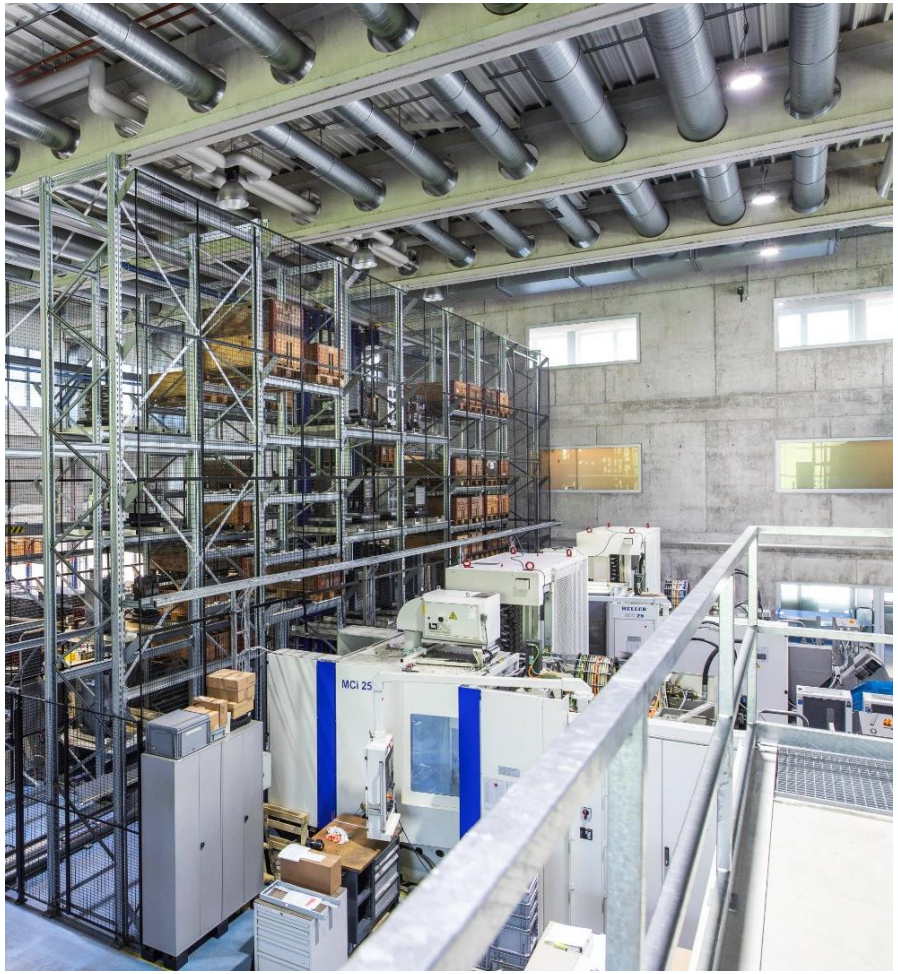
e,g. Reiden RX18

Serial Production

Serial Production

- Row material storage area next to cutting machines
- Robots and handling systems for machine loading and unloading
- Allows Lights-Out Manufacturing during the night

e,g. DMU 50



High Precision Parts

High Precision Parts
- High precision cutting machines
- Temperature controlled environment
- Isolated machine base
- High precision measurement tools

e,g. Makino 500

High precision cutting machine

Temperature controlled environment

High precision Coordinate-measuring machine

Special Purpose machinery manufacture

Special Purpose machinery manufacture

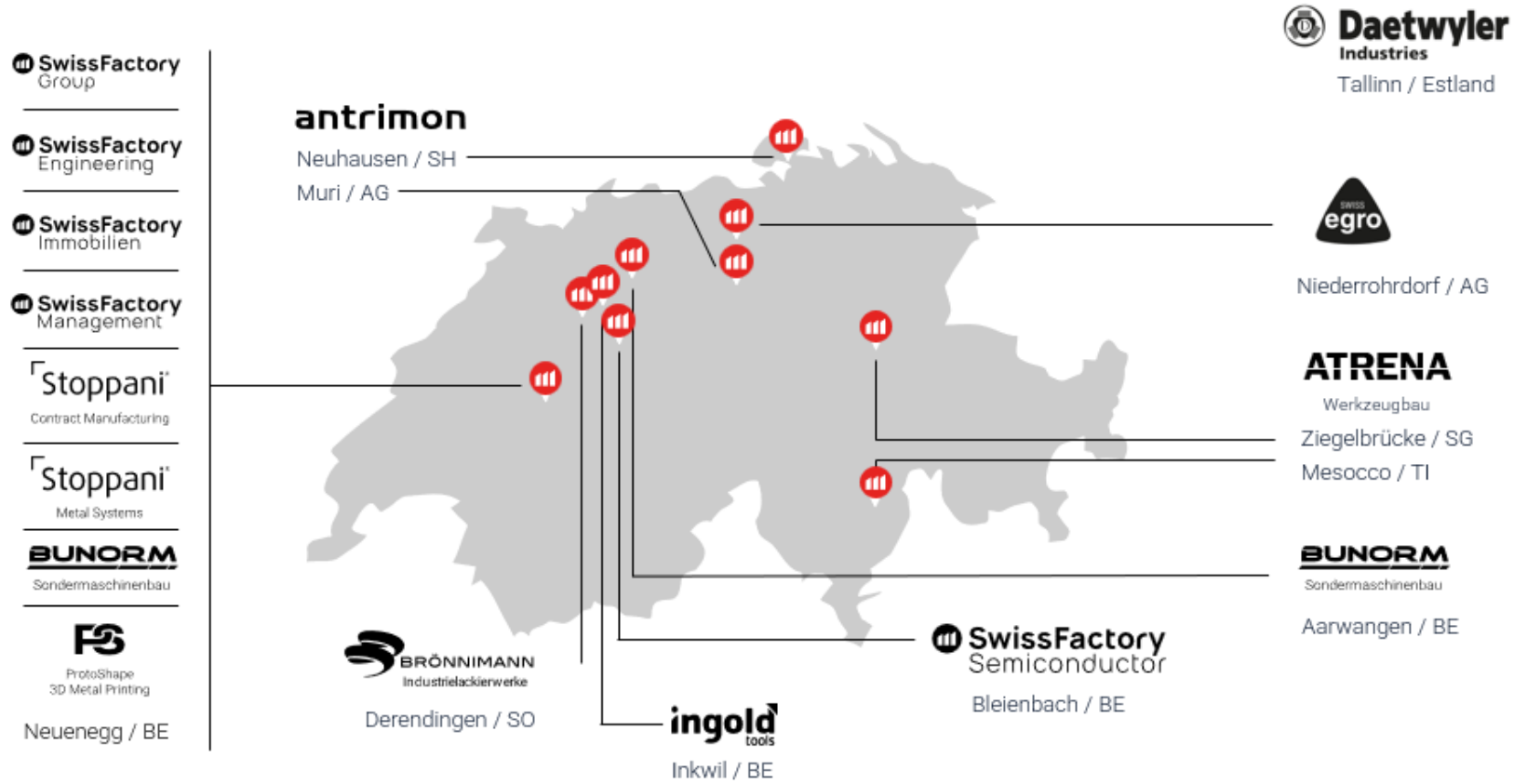
- Turn-key solution provider including
- Manufacturing of parts
- Procurement off-the shelf items
- off
- Assembly and integration
- Transport and initial operation

“Turningator” Mobile CNC processing center

Jig for rocket fairing production

Undulators

Bunorm ist part of the SwissFactory Group



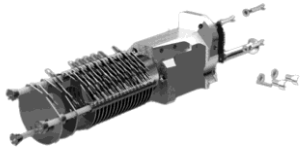
11 producing companies

Ca. 400 employees

9 production sites
in Switzerland

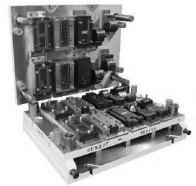
Founding years:
- 1849: Egro
- 1913: Stoppani
- 1946: Ingold
- 1949: Brönnimann
- 1965: Bunorm
- 1971: Atrena

SwissFactory Group – Wide range of technological capabilities



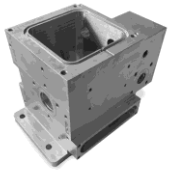
(Value) Engineering

Production Engineering

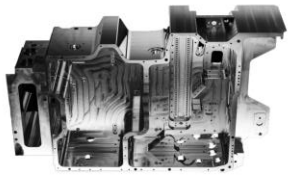


Tool manufacturing

Sheet metal manufacturing



Milling small parts / series

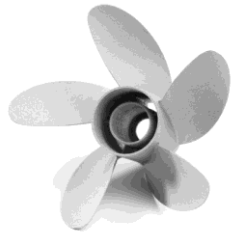


Milling large parts

Wire erosion

Turning / precision grinding

Deep-drawing / shaping



Additive manufacturing

Welding/joining

Surface technologies

Measuring

Mechatronics

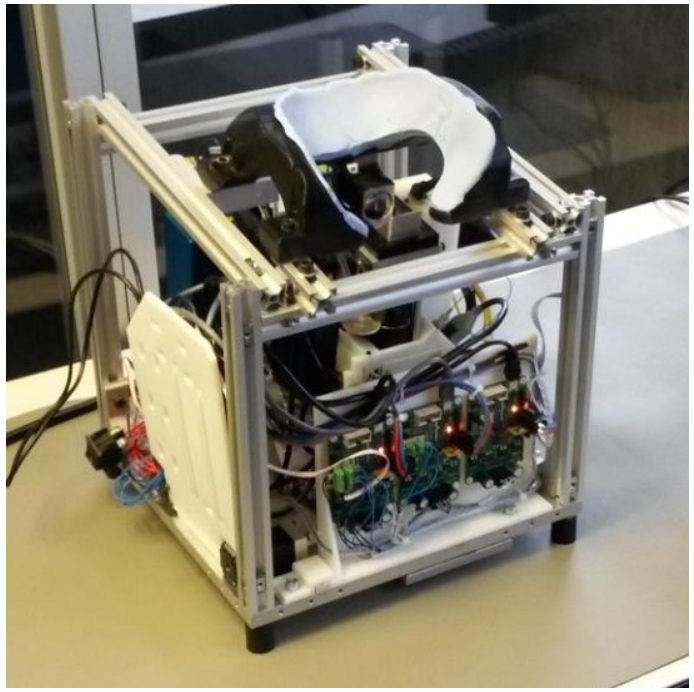
Assembly / Clean room

Cleaning and inspection

Optics: OCT-Scanner

Key competences:

- Lens and mirror supports
- Fiber optics
- Mechatronics
- Miniaturization
- Industrial design



Letzter Abgleich vor Zeissbesuch

Engineering

SF Engineering output: industrialized Prototype

Sheet Metal: Example: Electron beam lab system

Vacuum

Key competences:

- Sheet metal construction
- Safety (radiation protection)
- Industrial design

Customer Input:
Serial unit to be improved

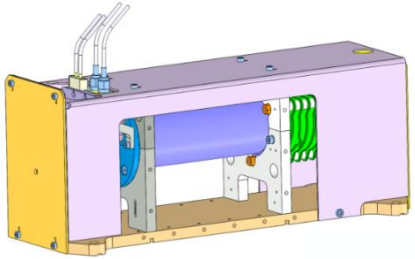
Engineering

SF Engineering output: Prototype of new version

Vacuum: Time-of-Flight Mass Spectrometry

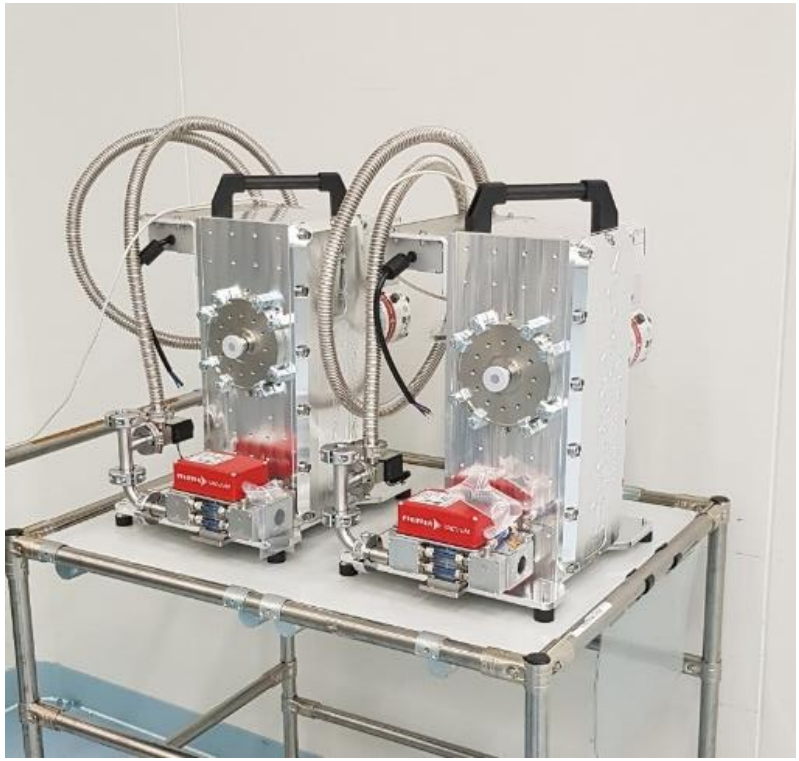
Key competences:

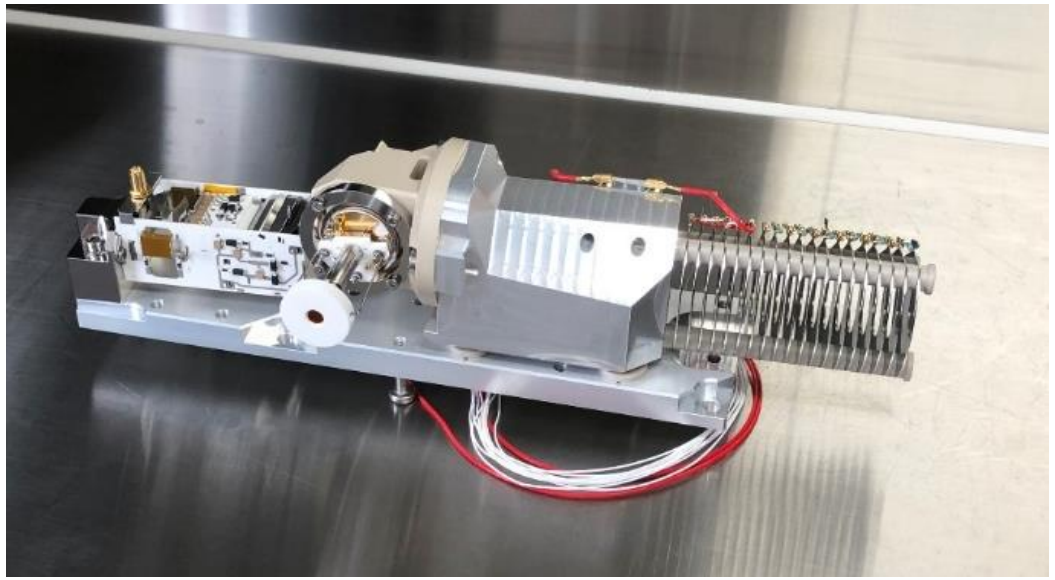
- Ultra high vacuum
- Mechatronics
- Miniaturization
- Stability & precision
- Cleanliness



Customer Input:
CAD draft

Engineering





SF Engineering output: alpha series

Cost reduction on part level: Example: Tool Holder

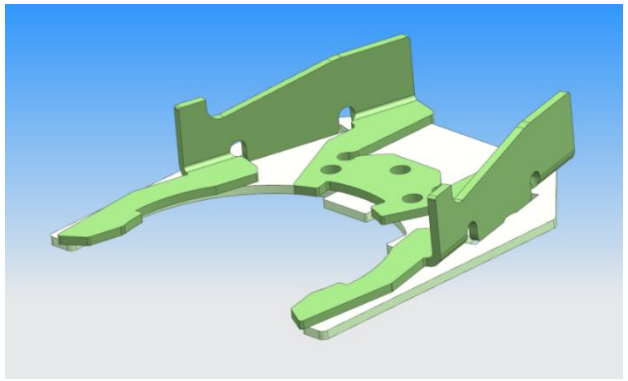
Key requirements:

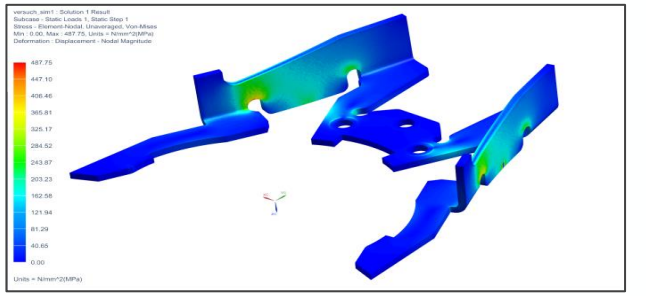
- Manufacturing know how
- Cost awareness
- Structural mechanics

Customer Input:
Tool holder to be cost optimized

Value Engineering

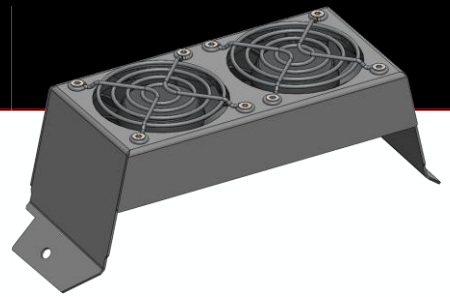
Cost optimized tool holder (sheet metal)

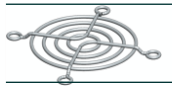
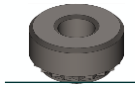
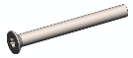




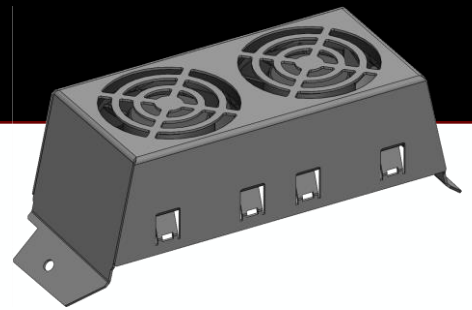
Structural analysis

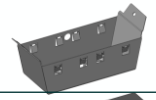
Until now

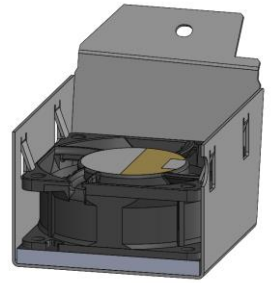


	QTY	Item	Euro
		Total	**11.47**
	1	Sheet metal Without coating	5.60
	2	Ventilation grille	0.60
	8	Press nut	1.49
	8	Screws	1.98
		Assembly press nut	0.70
		Assembly fan and Ventilation grille	1.10

New



	QTY	Item	Euro
		Total	**8.10**
	1	Sheet metal Without coating	6.30
	1	Flexible blanket	0.90
		Assembly fan	0.90



“Coming together is the beginning.
Keeping together is progress.
Working together is success.”

Henry Ford