

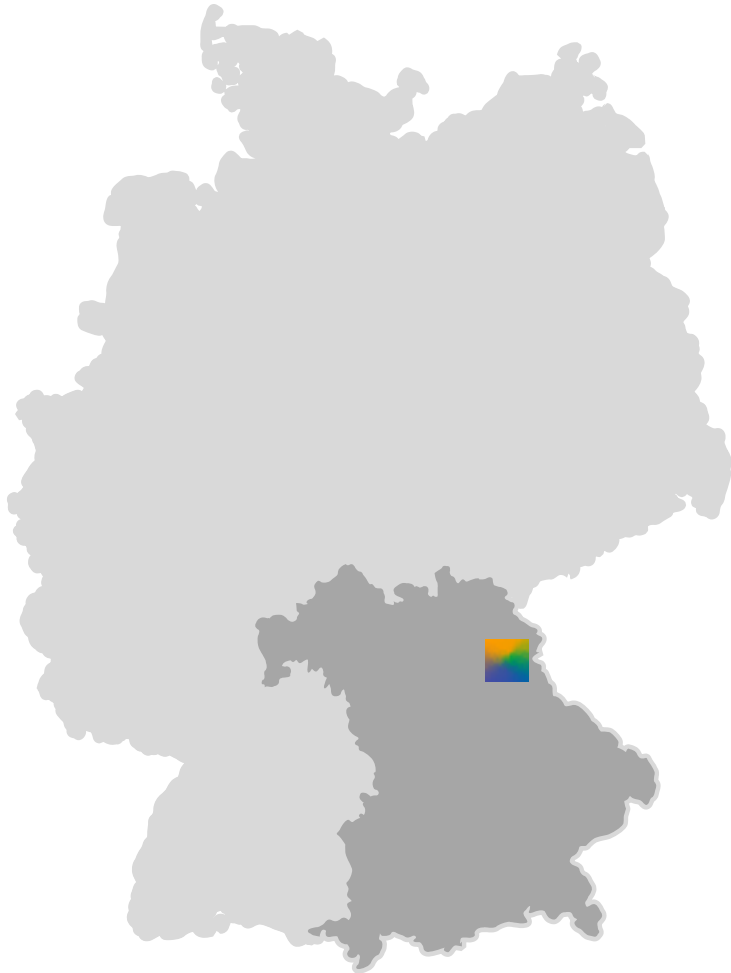
THE REVOLUTION OF DIGITAL MANUFACTURING



up2parts
digital manufacturing

A brand of BAM

Who we are....



BAM GmbH

Weiden in der Oberpfalz

Founded: July 2011

Founder & CEO: Marco Bauer

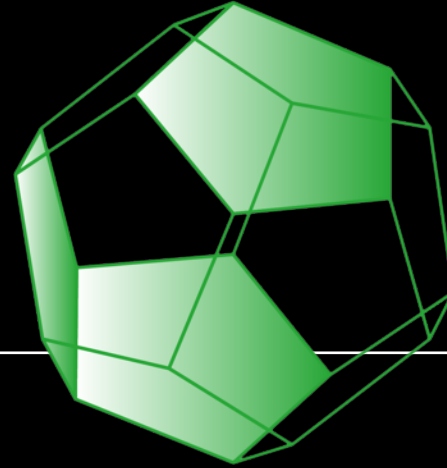
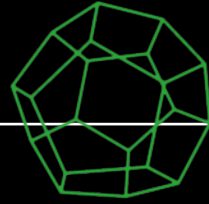
Workforce: 156, including 15% R&D

Manufacturing and special-purpose engineering „Old Economy“

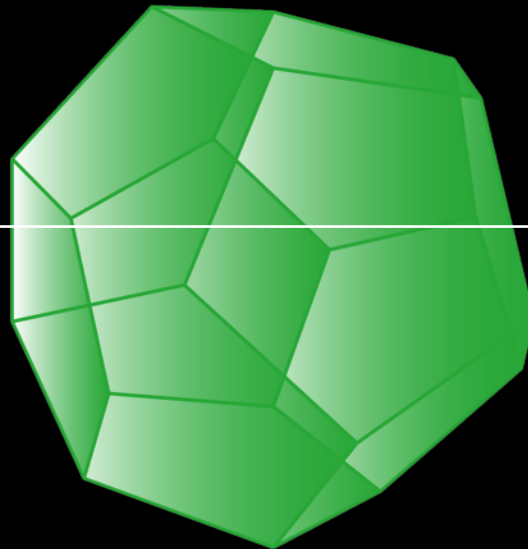
**Our vision: Digital and state-of-the-art
manufacturing company**

up2parts
digital manufacturing

CHALLENGE



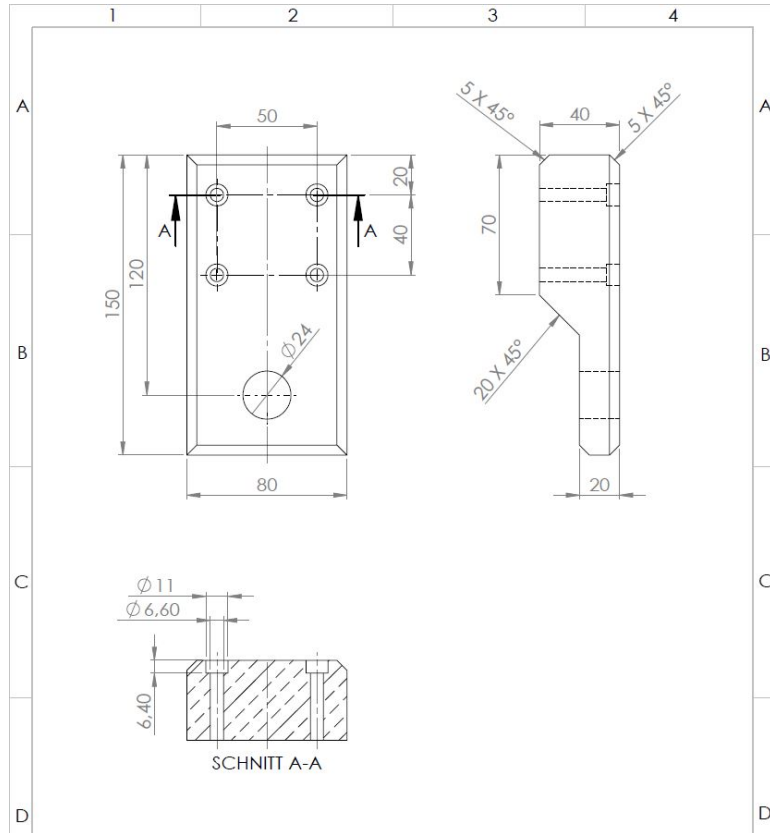
2



SOLUTION

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Construction & manufacturing in 2019



Usually designing engineers create 3D CAD files. A technical drawing in 2D is not necessary. However, it is often done because of tolerance specifications.

On the basis of a technical 2D drawing **humans determine** the price within an **analogue process**.

NC codes are created directly on the machine or with help of CAM program masks on the basis of 3D models.

Part pricing depends on the experience and **self-confidence** of the **individual human being**. Therefore the process of pricing is **prone to errors**, **not reproducible** and **extremely slow**.

It is our mission:

The elimination of 2D drawings!



Re-thinking of the entire production chain



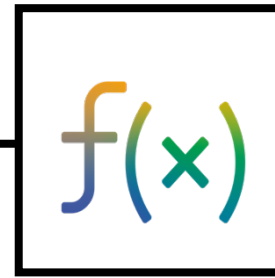
Construction



Pricing/Quote



Administration of
master data



NC coding and
verification



24/7
production

INQUIRY



2

OFFER

up2parts
digital manufacturing

1.CONFIGURATION

2.PROPERTIES

3.SUMMARY

COMPONENT-CONFIGURATION

MATERIAL ⓘ


Aluminium EN AW-5083 AlMg4,5Mn

TOLERANCE CLASS ⓘ

ISO 2768-1 m


SURFACE FINISH ⓘ


No Selection



Place your files here or click to search.

SELECT FILE







READY OR SHIPPING WITHIN

4 weeks

QUANTITY

◀ 1 ▶

COST ⓘ

0,00 €
0,00 € /unit

incl. 19% VAT
excl. delivery cost



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TOLERANCE CLASS ⓘ

ISO 2768-1 m

SURFACE FINISH ⓘ

No Selection

PROCESSING YOUR DATA...

20180206_1000007676_100_283_606_b---55171818_b---mod.step

99%

CANCEL UPLOAD



READY OR SHIPPING WITHIN

4 weeks

QUANTITY

1

COST ⓘ

210,45 €
210,45 € /unit

incl. 19% VAT
excl. delivery cost



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MATERIAL ⓘ

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TOLERANCE CLASS ⓘ

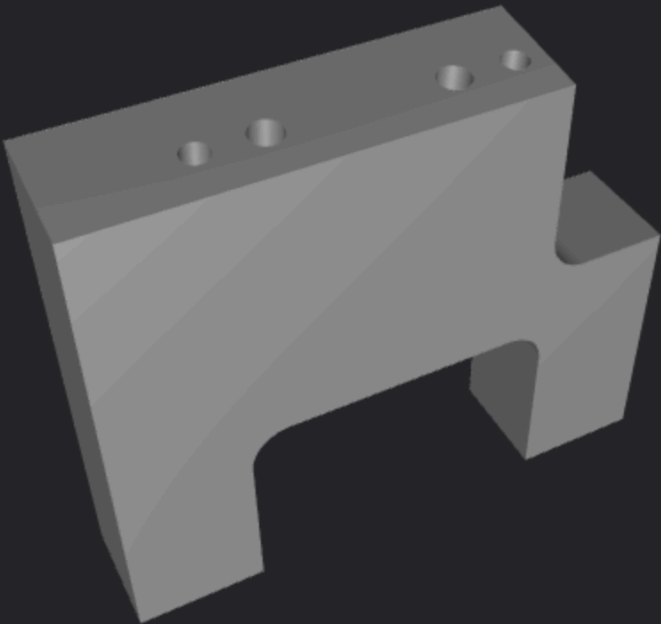
ISO 2768-1 m

SURFACE FINISH ⓘ

No Selection

BOREHOLE

Hole #	Diameter	Depth	Type ⓘ
1	8mm	20mm	No Selection▼
2	6.65mm	26mm	
3	6.65mm	26mm	
4	8mm	20mm	No Selection▼
5	3.24mm	12mm	



READY OR SHIPPING WITHIN

4 weeks

QUANTITY

◀ 1 ▶

COST ⓘ

210,45 €
210,45 € /unitincl. 19% VAT
excl. delivery cost

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ISO 2768-1 m

SURFACE FINISH ⓘ

No Selection



QUALITY ASSURANCE STANDARD

We inspect your component checking for possible optical damages like scratches or surface defects. Furthermore we inspect defined fit sizes and screw threads with suitable measuring equipment. The test lot size is 10% of the produced quantity.



CLEANING OF SURFACES AND CONSERVATION

Your components are cleaned to remove dirt caused by the production process and to provide a supply of chip-free, dry and clean components. Steel elements are delivered conserved for corrosion protection reasons.



QUALITY CONTROL PREMIUM

By selecting premium quality control an experienced technician measures your components by tactile and optical measurement equipment from Zeiss, respectively Mitutoyo. Additionally we will provide you with a detailed initial sample test that contains measurements of bore holes, fits, screw threads and general form tolerances as well as position tolerances. The test lot size is 25% of the produced quantity.



INSPECTION CERTIFICATE 3.1 ACCORDING TO EN 10204

With supplying the certificate 3.1 we confirm that your part is manufactured out of the selected material according to EN 10204. This guarantees that your component is suitable for the specific





READY OR SHIPPING WITHIN

4 weeks

QUANTITY

1

COST ⓘ

210,45 €
210,45 €/unit

incl. 19% VAT
excl. delivery cost



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COMPONENT-CONFIGURATION

MATERIAL ⓘ

Aluminium EN AW-5083 AlMg4,5Mn

TOLERANCE CLASS ⓘ

ISO 2768-1 m

SURFACE FINISH ⓘ

No Selection

COMPONENT-CONFIGURATION

Material ⓘ

Aluminium EN AW-5083 AlMg4,5Mn

Surface finish ⓘ

No Selection

Tolerance class ⓘ

ISO 2768-1 m

PDF QUOTE

Into to cart



PRICE CALCULATION WITHOUT PROVIDING ADDRESS

If you do not want to provide any personal data you are able to use our component calculation. However, a valid offer will only be generated, once you have entered your address and click 'download'.

COMPONENT CALCULATION

QUOTE WITH ADDRESS

SALUTATION*

Mr. ▾

COMPANY

FIRST NAME*

LAST NAME*

STREET*

STREET NUMBER*

+

ZIP*

CITY*

COUNTRY*

STATE*

EMAIL*

☐ Accept privacy policy as well as terms and conditions.
By supplying my contact information I am authorizing BAM GmbH, Dr. Müller-Straße 26, 92637 Weiden to save my data in order to process the inquiry. This consent can

COMPONENT-C

COMPONENT-C

Material ⓘ

Surface finish ⓘ

Tolerance class

PDF





READY OR SHIPPING WITHIN

4 weeks

QUANTITY

1

COST ⓘ

210,45 €
210,45 € /unit

incl. 19% VAT
excl. delivery cost



1.CONFIGURATION

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COMPONENT-CONFIGURATION

MATERIAL ⓘ

Aluminium EN AW-5083 AlMg4,5Mn

TOLERANCE CLASS ⓘ

ISO 2768-1 m

SURFACE FINISH ⓘ

No Selection

COMPONENT-CONFIGURATION

Material ⓘ

Aluminium EN AW-5083 AlMg4,5Mn

Surface finish ⓘ

No Selection

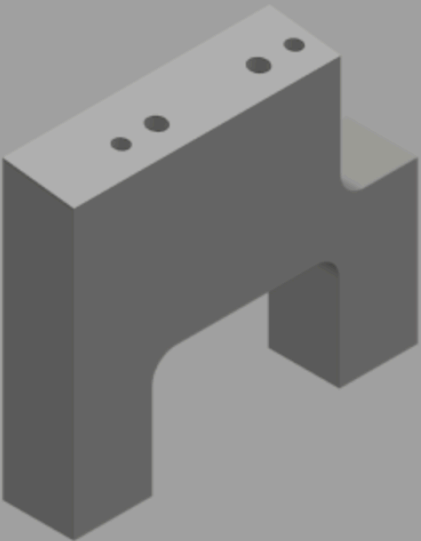
Tolerance class ⓘ

ISO 2768-1 m


PDF QUOTE

Into to cart

processing order..



YOU HAVE 1 ITEM IN YOUR CART

Product	Price	Total
<div></div> <div><p>1x 12 16 01 025 500 030</p><p>Material: Aluminium EN AW-5083 AlMg4,5Mn</p><p>Finish: Keine Auswahl</p><p>Tolerance: ISO 2768-1 mittel</p></div>	210,45 €	210,45 € ×

CALCULATE SHIPPING

Select a country...

▼

State / county

City

Postcode / ZIP

CART TOTALS

SUBTOTAL210,45 €

SHIPPINGFlat rate: 10,00 €

TOTAL220,45 €



up2parts API-construction kit



Construction: cost-oriented construction - plugins for CAD

Calculation: Geometry analysis - Price as a Service (PaaS)

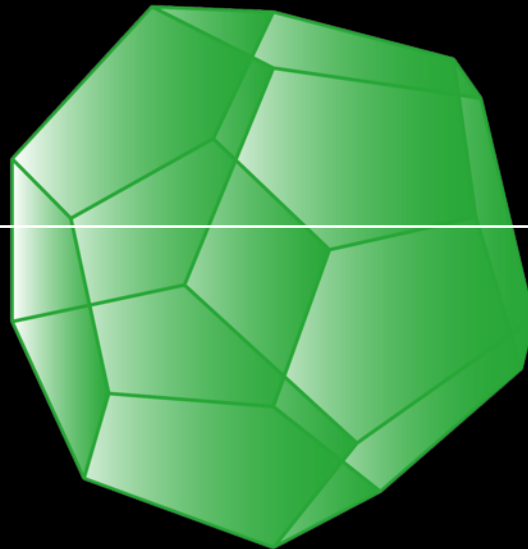
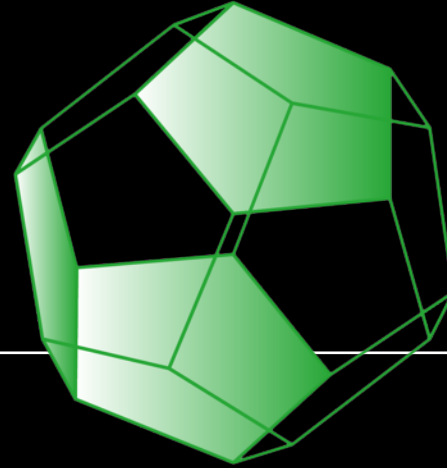
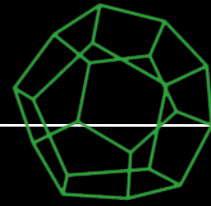
NC code : Semi-automatic establishment - CAM as a Service (CaaS)

Collision monitoring: Collision Protection as a Service (CPaaS)

Process: Material (MaaS) + tools (TaaS) + NC code

Projects: Connection to ERP, shop systems, etc.

DATA



2

PRICE

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digital manufacturing

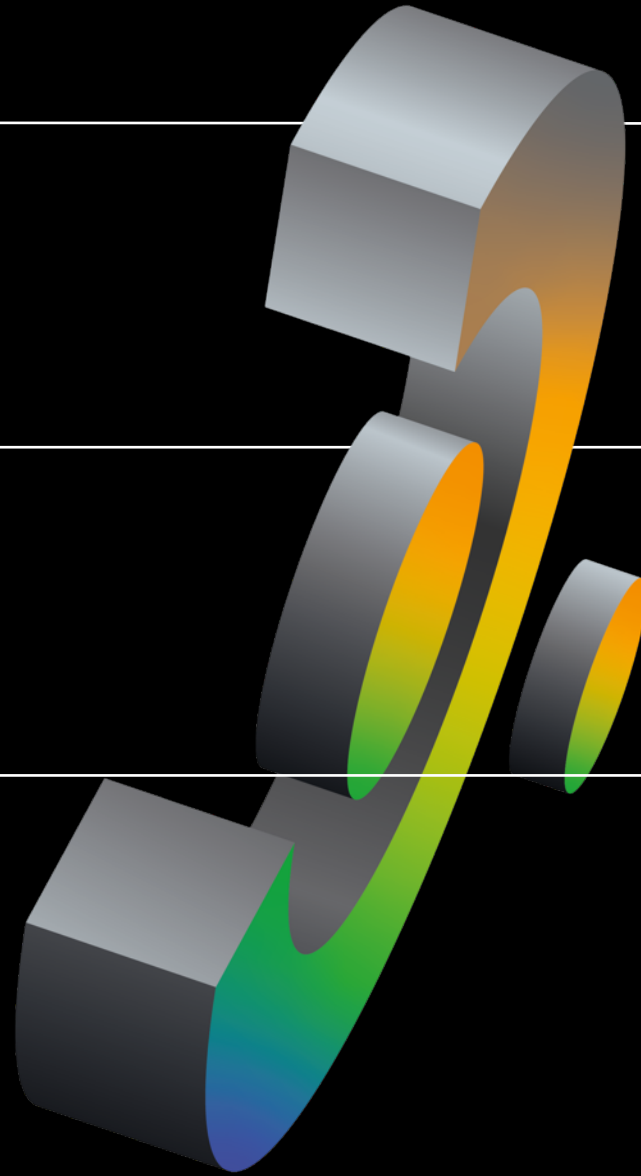
AI-based pricing

Specific part data	Price-Engine	AI model
volume/cutting volume	Deviation between human being and machine 2 – 25 %	25,000 processed production orders build the learning fundament
bores	Connection of different machine parks	swarm intelligence
threads	Optional license of API	complexity
fits		manufacturing strategy
materials	Adaptable to any other technical reality	“learn-by-upload”

THOUGHTS

2

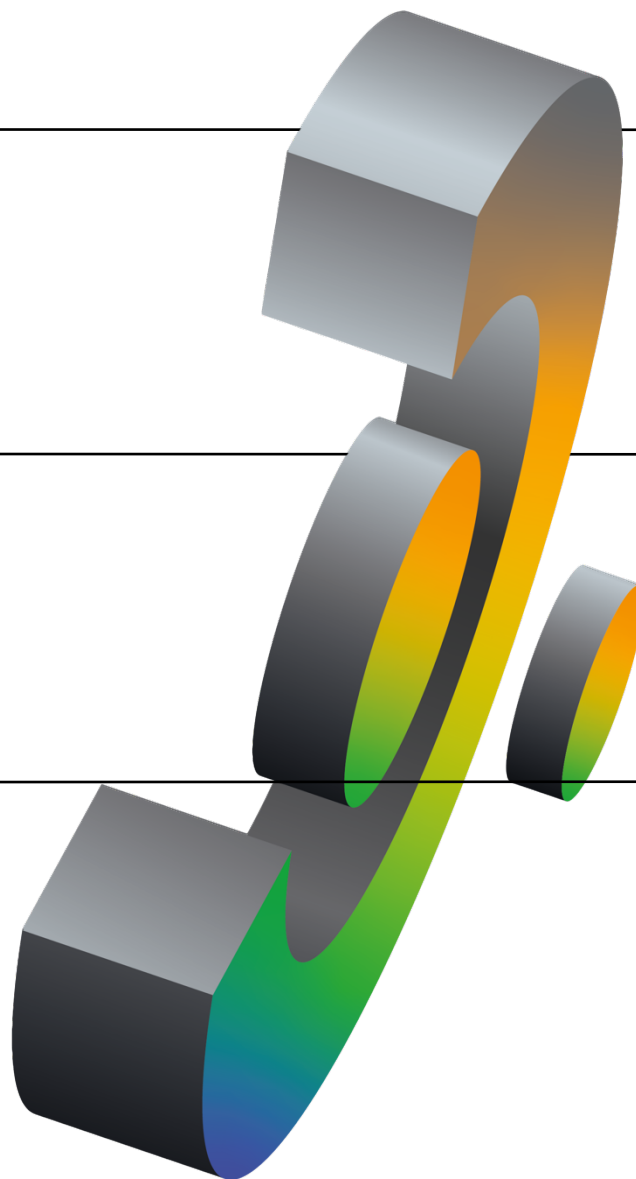
REALITY





Technical equipment
> 150 employees
Made in Germany

2



Cloud solution
Shop/ ERP connection
Expertise

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digital manufacturing

VISION

2

BENEFITS



Environmental protection
New business models
Working 4.0

2



Transparency of costs
Shorter delivery times
Acceleration of processes

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digital manufacturing

POTENZIAL



3D HUBS



Xometry



materialise



LASERHUB



CloudNC

spanflug



FAST RADIUS

fictiv



Fractory

Batchforce



3D Usher

PROTO&GO!
www.protoandgo.com



THRINNO

KREATIZE ✓



fabrikado.com



SyncFab



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bestell-dein-Blech.de
so bestellt man Blech heute

makexyz



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digital manufacturing

PLETHORA

Weerg.
Get your parts, very fast!



TECHNOLOGIEVIELFALT



market size:
13 trillion US-Dollar^[1]



445.600.000 USD = 0,00340 %



100.000.000 USD = 0,00077 %

[1] <https://www.presseportal.de/pm/134088/4228634>

Our roadmap



April 2019

Realtime-calculation on the basis of machine learning algorithm, automated 24/7 production with milling and turning centres



Q3/2019

Dialogue-controlled semiautomatic NC code generating and verification, NFC part tracking



Q4/2019

Transferring knowledge to multiple manufacturing processes



2020

AI based fully automated manufacturing process

Elisabeth Schärrtl
Business Development

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F +49 961 6000-7900

info@up2parts.com

www.up2parts.com

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digital manufacturing

IDEA

