

BARZIT MANUFACTURING SOLUTIONS

PRESENTATION

FINEBLANKING STAMPING LASER CUTTING BENDING MILLING ASSEMBLY TOOLS
PROTOTYPING

BIG PRECISION

in everything we do

Barzit Manufacturing Solutions focuses on metal and plastic components, assembly for customers in the manufacturing and other industries.

Our focus is to create value for our customers by keeping a high level of quality, effectiveness, and have an understanding of our clients' needs, now and in the future.

BARZIT MANUFACTURING
SOLUTIONS



Manufacturing experience since 1999

- Fine blanking parts, tools and equipment
- Tools and fixtures for press machines, metal components and assembly follow customer requirements.
- Laser, punched and pressed, bended metal parts, welding, final product
- Injection moulds, plastic parts and assembly
- Electrical cabinets and driver desks for trains, busses and airplanes.



FINE BLANKING PRESS MACHINE - FEINTOOL 80 T



Technical data of the FEINTOOL GKP F 80

SLIDE

- .. total force (nominal): 80 to
- .. stroke: 50 mm
- .. stroke rate (max.): 80 /min

TOOL DIMENSIONS

- .. lower table (left-right): 420 mm
- .. lower table (front-back): 420 mm
- .. upper table (left-right): 420 mm
- .. upper table (front-back): 420 mm
- .. shut height max.: 220 mm
- .. ram adjustment: 80 mm
- .. distance between columns (H-frame): 450 mm
- .. passline opening (free passage in side columns): 200 mm

OVERALL SPECIFICATIONS (COIL LINES)

- .. sheet width max.: 180 mm
- .. sheet thickness max.: 5 mm
- .. feed velocity max.: 999 m/min

STRIP-FEEDER

- .. feeder type: roll feeder
- .. sheet thickness max.: 5 mm
- .. feeding step max.: 999 mm
- .. sheet length min: 1350 mm

CROP SHEAR

- .. cutting force: 6.6 kN

FINE BLANKING PRESS MACHINE - FEINTOOL 160 T



Technical data of the FEINTOOL GKP F 160

maximum sheet metal thickness: 6 mm

maximum sheet metal width: 210 mm

total force including auxiliary functions: 160 t

shearing force: 100 t

hydraulic counterweight force (upper table): 1-40 t

hydraulic force of ring jaw (lower table): 12-50 t

ejector force (pump pressure): 4-8 t

hydraulic shearing force: 7,5 t

pneumatic shearing force: 6,6 t

stroke of slider: 61 mm

maximum number of slider strokes: 72/min

minimum number of slider strokes: 18/min

motor power: 11 kW

pump power: 4 kW

air connection: 6 bar

dimensions (L x W x H): 2380 x 1870 x 2860 mm

weight of machine GKP F 160: 9000 kg

PARTS PRODUCED ON THE FINE BLANKING PRESS 160 T



FINE BLANKING PRESS MACHINE - SCHMID HSR 500



Technical data of the SCHMID HSR 500

Slide

total force (nominal): 500 to

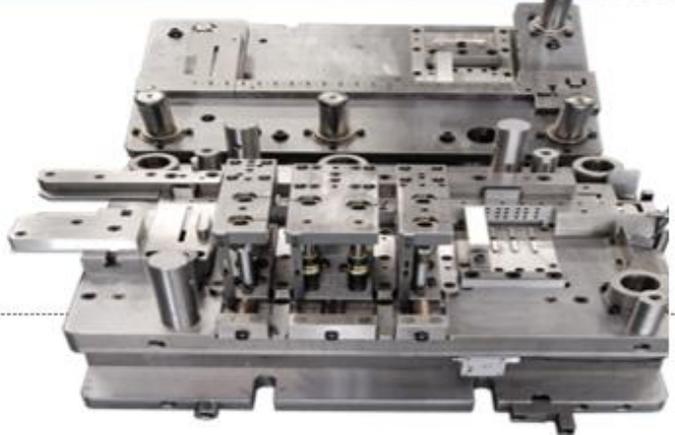
Tool Dimensions

lower table (left-right): 680 mm
lower table (front-back): 650 mm
upper table (left-right): 950 mm
upper table (front-back): 850 mm

Electrical specifications

total power consumption: 85 kW
mains voltage: 400 V
mains frequency: 50 Hz

PARTS PRODUCED ON THE FINE BLANKING PRESS MACHINE 500T



ECCENTRIC AUTOMATIC PRESSES

AIDA NC 1 - 80 T AND AIDA NC 1 - 110 T



Pressing force 110 t
 Stroke length 180 mm
 Table-bear distance: 450mm
 Stroke adjustability: 70mm
 Table size: 1060x680mm
 Bear size: 30x520mm



Model RNC 200
 Max. Coil Width 100mm
 Strip thickness 0.5 - 4.50 mm
 Model RNC 300
 Max. Coil Width 300mm
 Strip thickness 0.5 - 6.00 mm



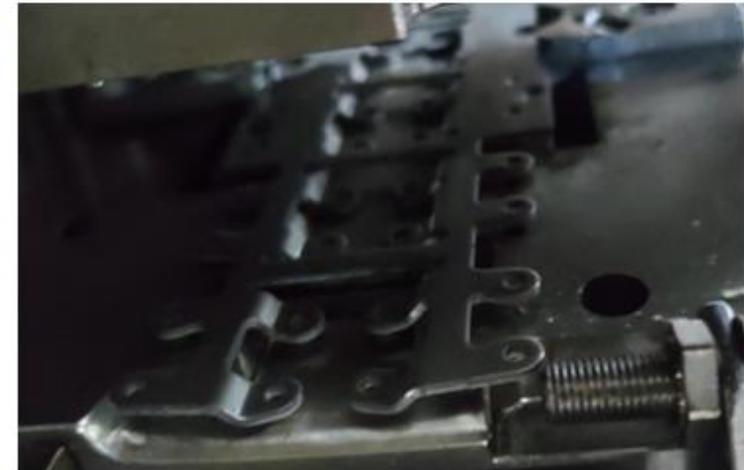
Pressing force 110 t
 Stroke length 180 mm
 Table-bear distance: 450mm
 Stroke adjustability: 70mm
 Table size: 1060x680mm
 Bear size: 630x520mm

AUTOMATIC PRESS MACHINE - AEROSVERK 063 T



Technical data of the AEROSVERK 063 T

| AB AROSVERKEN | | VÄSTERÅS Tel. 0217/110175 | |
|-------------------------|----------|------------------------------|--|
| Presstyp | AL 4P 63 | | |
| Tillverkningsnr | 2974 | | |
| Tillverkningsår | 1974 | | |
| Pressens vikt | 5500 | kg | |
| Nom. presskraft | 63 | Mp | |
| Max. presskraft | 63 | Mp | |
| Slagantal | 120 | /min | |
| Slaglängd | 6-100 | mm | |
| Lufttryck | 5 | atö | |
| Max. stopptid | 112 | ms | |
| Max. bromsvinkel | 67 | ° | |
| Skyddsavstånd, tvåhand | 180 | mm | |
| Skyddsavstånd, ljusrida | 305 | mm | |



ECCENTRIC PRESS MACHINE - RONNQUIST 100T.



Technical data of the RONNQUIST 100t

- Capacity: 100 ton
- Speed: 75 st/min
- Stroke: 10-130 mm
- Table: 630x950 mm
- Slide: 550x360 mm
- Distance frame-table center: 345 mm
- Motor: 8,7 kW
- Length: 1500 mm
- Width: 1200 mm
- Height: 2660 mm
- Weight: 9500 kg
- Other/Accessories
- Feeder SMV M/500-300 (1995),
- Straightener SMV M302-60 (1995)
- Decoiler SMV H1200 (1996)

HOBBLING OPERATION, PUNCHING AND BENDING



MILLING MACHINE - HERMLE UWF 1000



Technical data of the HERMLE UWF 1000

X Axis 700 mm

Y Axis 550 mm

Z Axis 500 mm

CNC type HEIDENHAIN TNC 355

Max. spindle speed 2500 rpm

Table length 1000 mm

Table width 500 mm

Max load on table 300 kg

Spindle taper ISO 40

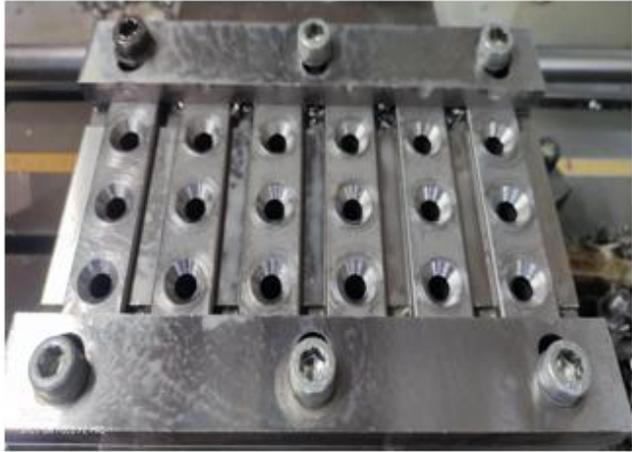
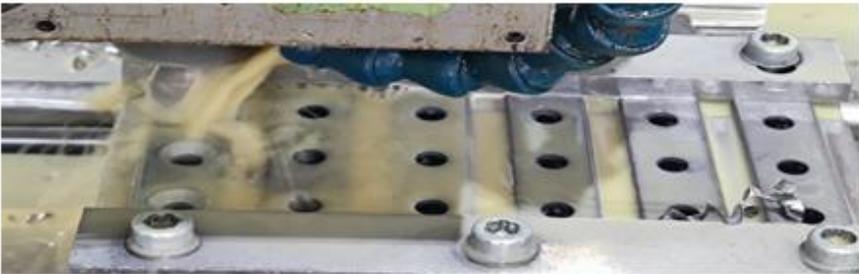
Spindle motor power 6.9 kW

Overhauled no

Length x width x height 3900.0 × 3300.0 × 2100.0

Weight 3300 kg

PARTS PRODUCED ON THE MILLING MACHINES



MILLING MACHINE - BROTHER CNC TC-221



Technical data of the BROTHER CNC TC-221

X-axis 420 mm

Y-axis 300 mm

Z-axis 250 mm

Table dimensions 600 x 300 mm

Max weight on the table 150 kg

Depth of throat (uprights-spindle center) 450 mm

Admission in spindle (ISO) ISO 30

Power on the spindle 4.1 kW

Drilling-capacity \varnothing 25 mm

Tapping-capacity M18

Number of axes 3 axes

Toolchanger ATC

Number of toolholders 10 positions

Number of rotations max 6000 rpm

Length 2025 mm

Depth 1680 mm

Height 2355 mm

Weight 1800 kg

PARTS PRODUCED ON THE MILLING MACHINES



DEBURRING ROTARY VIBRATOR, CENTRIFUGE, MAGNETIC SEPARATOR AND DRYER



BELT – GRINDING /POLISHING MACHINE - NIDEBERGER



CLEANING MACHINE - ALLCAJET



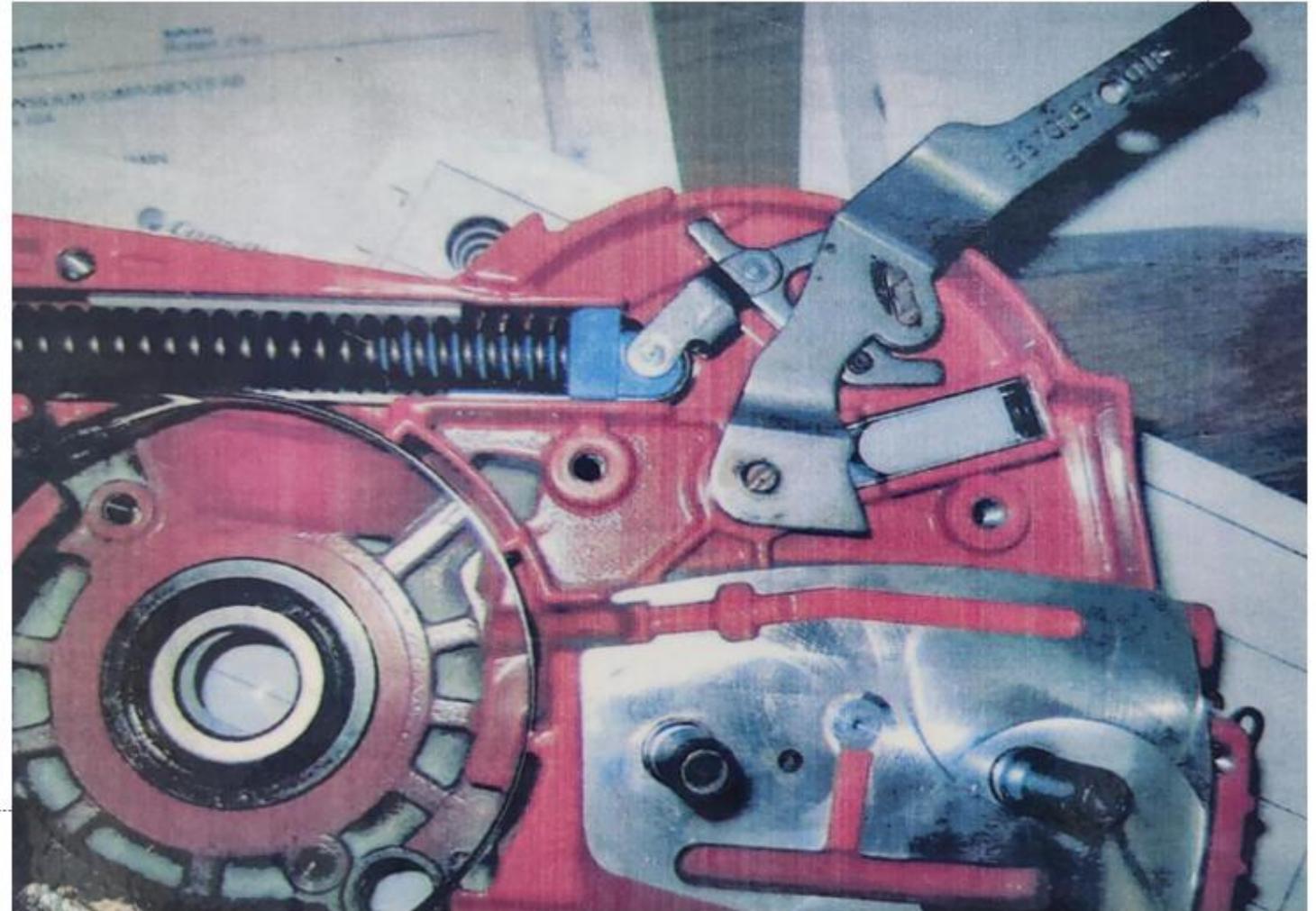
Cleaning / degreasing machine for parts than can be processed in baskets with water - based cleaning chemicals at temperature. (45-75° C).

Work Envelope (WxDxH mm) 400 x 600 x 330

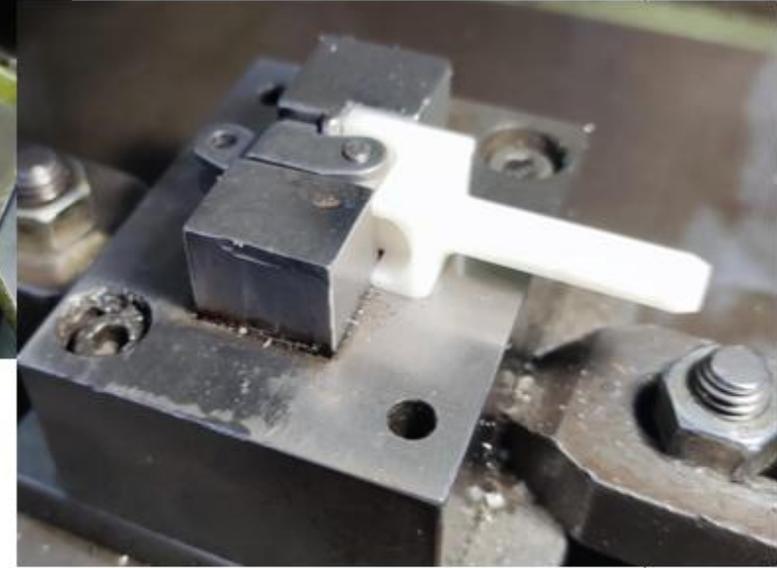
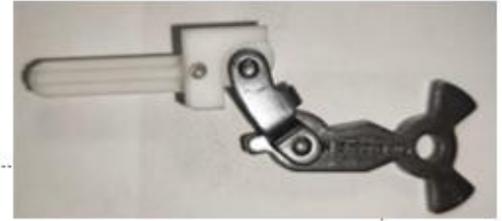
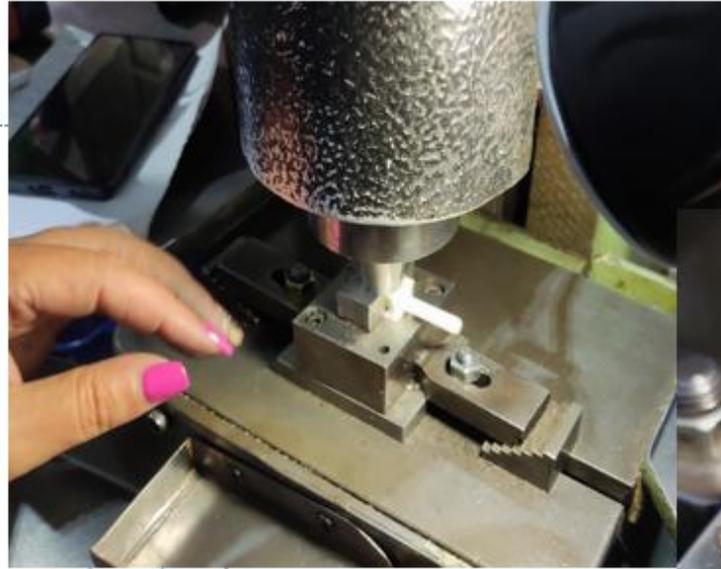
Process Stages 3 x Wash Rinse Dry



ASSEMBLY PROCESS HUSQVARNA



ASSEMBLY-KNEE LINKS



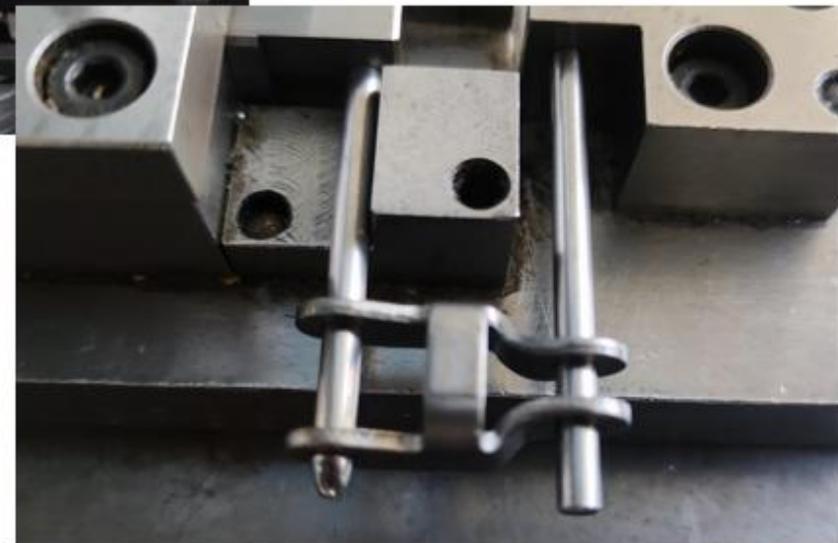
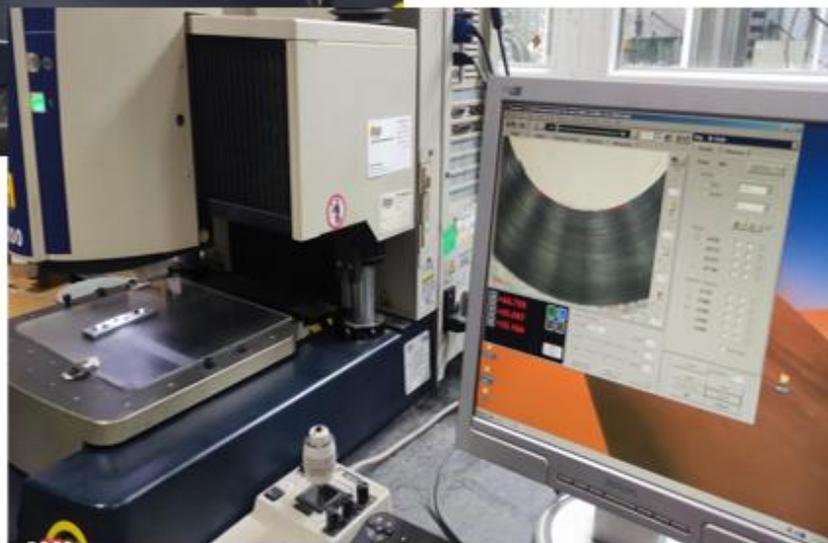
ASSEMBLY- BROMSARM REV. 01 H



METAL PARTS FOR - PRESSMASTER



OGP MEASUREMENT MACHINE, PROFILE PROJECTOR



INSPECTION AND SORTING

We provide a wide range of inspection and sorting services for our customers in the automotive and other industries.



INSPECTIONS

- input
- inter-operational
- output and stock
- quality wall



SMALL REPAIRS

- removing tapers
- deburring
- bevelling edges
- degreasing, etc.



SORTING

- visual inspection
- measuring lengths and angles
- sorting according to a limit sample or calibre
- inspection of functions, etc.

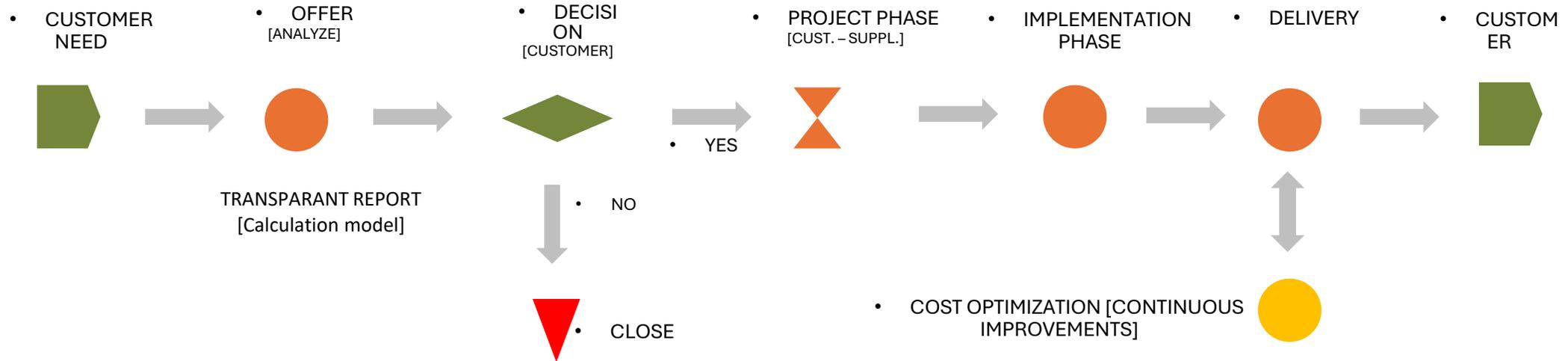


OTHER SERVICES

- receipt of production and pre-production
- assembly and disassembly
- packaging work

•SIMPLIFIED PROJECT MODEL

• Cost-effective assembly in Bulgaria



| CALCULATION MODEL | CURRENT SITUATION [price base] | FUTURE SITUATION [price base] |
|----------------------------|---------------------------------|--------------------------------|
| Instructions / Way of work | Existing processes | Implementation |
| Equipment | Existing equipment / Tool | Supply of materials to BG |
| Components | Existing parts | SOP in BG |
| AO/FO/MO/Profit | Cost / Profit | Same cost / profit |
| Assembly / Set up time | Number of hours x day's h. rate | Numbers of h. x BG hourly rate |
| Transportation cost | Parts for assembly | Delivery follow Incoterms |
| Emballage | Existing / New | OTD and customer satisfaction. |
| Storage cost | Need of storage service | Offered when need arise |

Strategy:

- Core Business
- Customer focus
- Supply management
- Technical competence
- Flexibility

Goals:

- Product Quality 100 %
- Delivery performance 98%
- Organic growth >10 %

Quality Policy

- With our commitment for ***Total Quality*** our ambition is, continuous improvement to exceed the expectations of our customer.
- Everything made in the name of our company is evidence of our capability, and serves as a recommendation for further confidence.
- All employees are responsible for the quality.

Projects 2023-2028

- Restart of full production in the new workshop and keep the trained staff
 - Investment and renovation of the new workshop
 - Priority start-up of machinery and equipment
 - Certification to ISO 9001-2015 and ISO 14001-2015, preparation and implementation of IATF16949-2016
- Ongoing education:
Quality, Technology, Purchase,
- Investments
Sheet metal machines – Laser cutter machine, Bending machine, Welding equipment, Injection molding machines for plastic products
- Focus on attracting new customers and developing new projects

Certificate

Standard **BDS EN ISO 9001:2015**

Certificate Registr. No. TRBA 100 2420002

TÜV Rheinland Bulgaria EOOD certifies:

Certificate Holder **BARZIT-MANUFACTURING SOLUTIONS Ltd**
1, 3019 Str., department 15
Moderno predgradie
1360 Sofia
Bulgaria

Scope **Manufacturing and assembling of fineblanked and conventional stamped components, machined metal parts for the automotive and the mechanical engineering industry.**

Proof has been furnished by means of an audit that the requirements of BDS EN ISO 9001:2015 are met.

Validity The certificate is valid from **17.06.2024** until **16.06.2027**.

17.06.2024


TÜV Rheinland Bulgaria EOOD
36 Dragan Tzankov Blvd., 1040 Sofia

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 **TÜVRheinland**[®]
Precisely Right.

Projects for final customers



PRECOMPSOLUTIONS



JTEKT

VOLVO



BARZIT MANUFACTURING SOLUTIONS

FINEBLANKING STAMPING LASER CUTTING BENDING MILLING ASSEMBLY TOOLS PROTORYPING

THANK YOU FOR YOUR INTEREST !