



Katalog | Catalogue

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Proces proizvodnje otkovaka u "Zastava Kovačnici A.D." odvija se na sledeći način:



U zavisnosti od složenosti, oblika, dimenzija, veličine serija, otkovak prolazi kroz sledeće proizvodne operacije u pogonu naše fabrike.

1. Najpre se vrši sečenje čelika na lomilicama, testerama, cnc mašinama... na određene dimenzije.



2. Nakon toga vrši se zagrevanje u indukcionim ili gasnim pećima

3. Posle zagrevanja sledi proces kovanja užarenih komada na čekićima i presama

4. Potom sledi proces krzanja, na mašinama za krzanje, probijanje, vruće peglanje, savijanje...



5. Sledeći korak je termička obrada u protočnim pećima, u kojima se vrši normalizacija, poboljšanje ili žarenje

6. Posle procesa termičke obrade sledi završna obrada-peskarenje, prese za kalibraciju

7. Poslednji korak je završna kontrola, gde se vrši detekcija površinskih grešaka, dimenziona, vizuelna kontrola... Obavlja se na feroflux aparatima, zatim aparatima za ispitivanje tvrdoće...



Kontrola proizvodnog procesa vrši se od samog ulaza materijala u fabriku, i prati ga kontrola nakon svakog završenog procesa.

The production process of forgings at the “Zastava Kovačnica A.D.” unfolds as follows:



The following manufacturing process is precisely calibrated, adhering closely to the complexity of industrial specifications and batch sizes.

1. Steel Cutting | Using shears, saws, CNC machines, etc.



2. Heating | Using induction or gas furnaces.

3. Forging | Process where the heated pieces are hammered and pressed.

4. Trimming | Using trimming machines, piercing, hot rolling, bending, and more.



5. Heat Treatment | Using Continuous Furnaces, where normalisation, enhancements, or annealing is carried out.

6. Post Processing Heat Treatment | Using Shot Blasting and Press Calibration.



7. Quality Control | Visual Inspection. Detection of surface defects/ dimensional irregularities using Ferroflux Machines. Hardness Testing using hardness testing machines and devices.

Stringent quality control is meticulously executed throughout the entire process to guarantee the utmost quality of the final forged component.





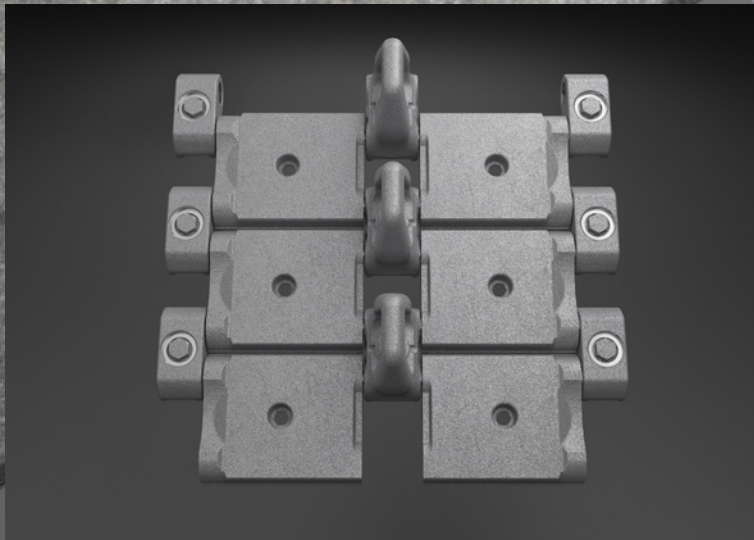
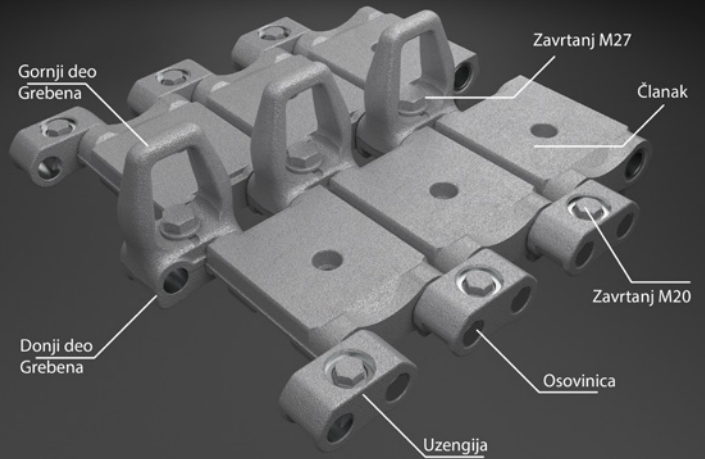
TENK M-84

SEGMENT GUSENICE ZA TENK M-84
CONTINUOUS TRACKS FOR TANK M-84

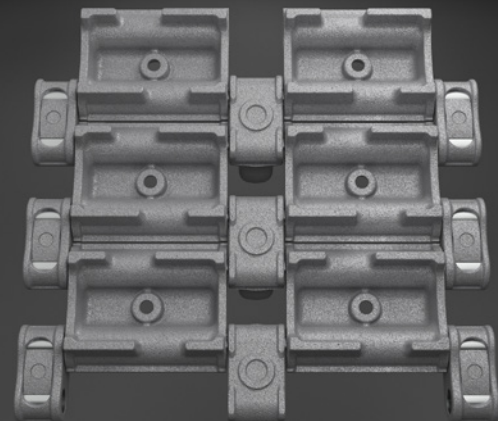
Gusenično platno za Tenk: M-84
Izrađeno je od specijalizovanog čelika
tvrdoća čelika: do 440H
sastav: 81 članaka
članak: 8 pozicija
masa: 2.200,00 kg
dužina: 13.360,00mm.

Tank Track: M-84
Made from specialized steel
steel hardness: up to 440HB
composition: 81 links
link: 8 positions
mass: 2,200.00 kg
length: 13,360.00 mm.

Segment Gusenice za TENK M-84



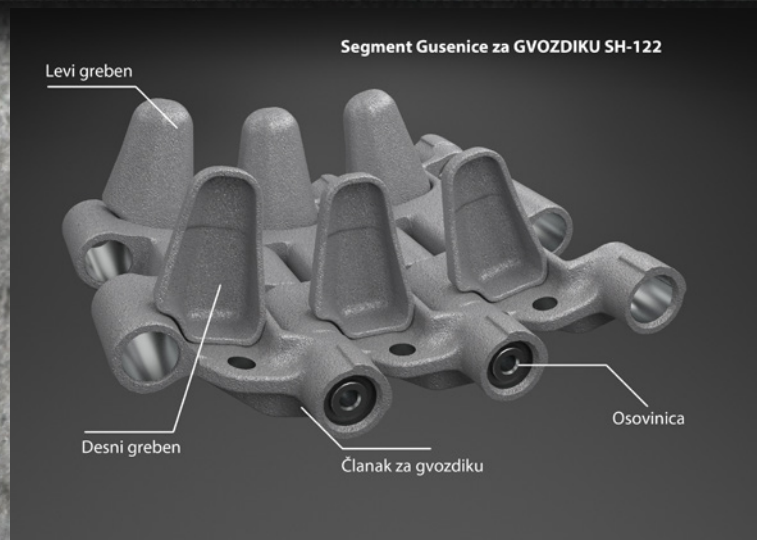
Tenk M-84 Specifications
Mass: 41.5 tonnes
Length: 6.86 m
(9.53m with the gun)
Width: 3.57 m
Height: 2.19 m
Crew: 3



Armoured Vehicle GVOZDIKA SH-122

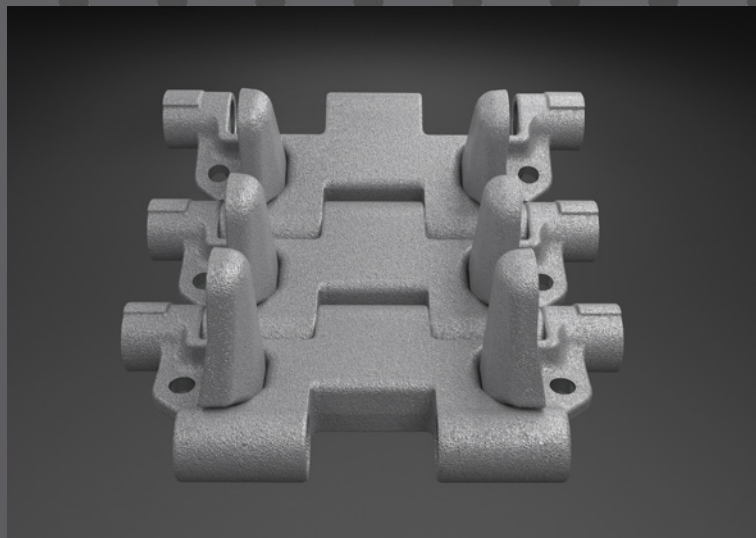
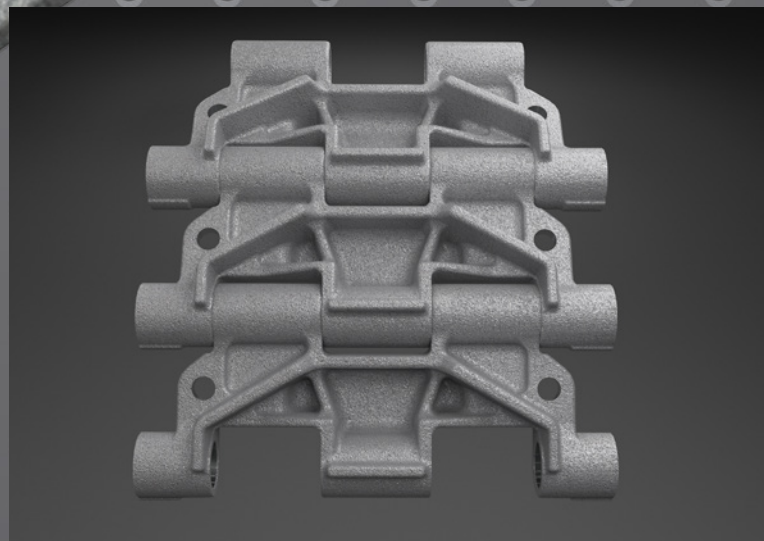


SEGMENT GUSENICE ZA OKLOPNO VOZILO "GVOZDIKU" SH-122 (SAMOHODNA).
CONTINUOUS TRACKS FOR ARMoured VEHICLE "GVOZDIKA" SH-122



Gusenično platno za GVOZDIKU SH122: -
Izrađeno je od specijalizovanog čelika;
tvrdoća čelika: do 440HB
sastav: 122 članka
članak: 4 pozicije
masa: 975,00kg
dužina: 13.590,00 mm.

GVOZDIKA SH122 Track
Made from specialized steel
steel hardness: up to 440HB
composition: 122 links
link: 4 positions
mass: 975.00 kg;
length: 13,590.00 mm.



Specifications SH-122
Mass: 16 tonnes (35,273 lbs)
Length: 7.26 m (23 ft 10 in)
Barrel length: 4.27 m
Width: 2.85 m
Height: 2.73 m (8 ft 11 in)
Crew: 4



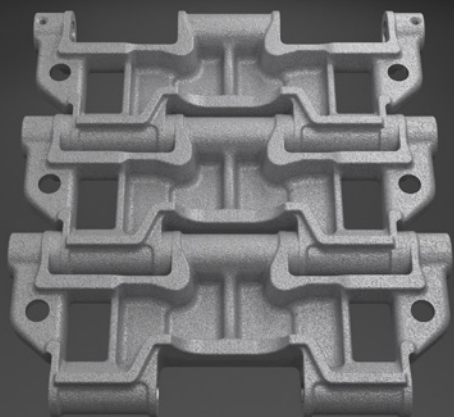
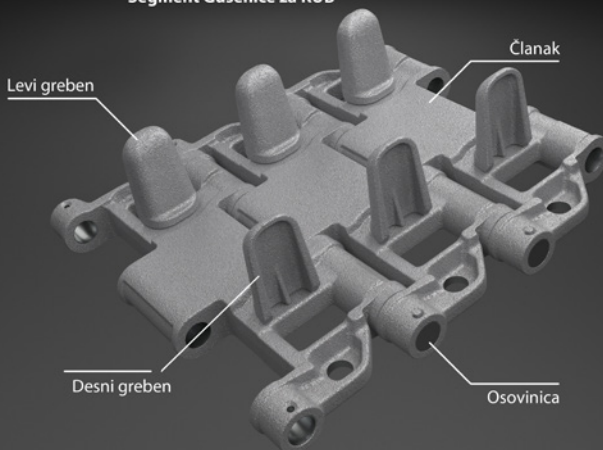
Armoured Vehicle KUB

SEGMENT GUSENICE ZA OKLOPNO VOZILO "KUB"
CONTINUOUS TRACKS FOR ARMOURED VEHICLE 'KUB'

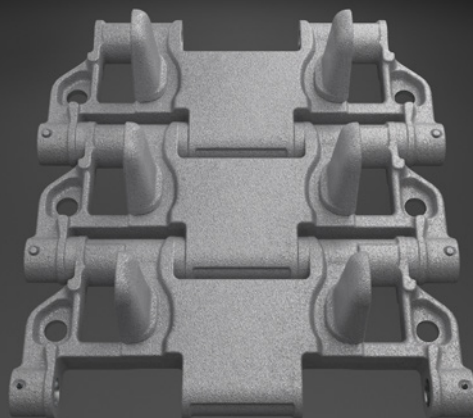
Gusenično platno za KUB:
Izrađeno je od
specijalizovanog čelika;
tvrdoća čelika : do 440HB
sastav: 96 članaka
članak : 4 pozicije
masa: 1.100,00kg
dužina: 12.335,00mm.

KUB Track
Made from specialized steel
steel hardness: up to 440HB
composition: 96 links
link: 4 positions
mass: 1,100.00 kg
length:12,335.00 mm.

Segment Gusenice za KUB



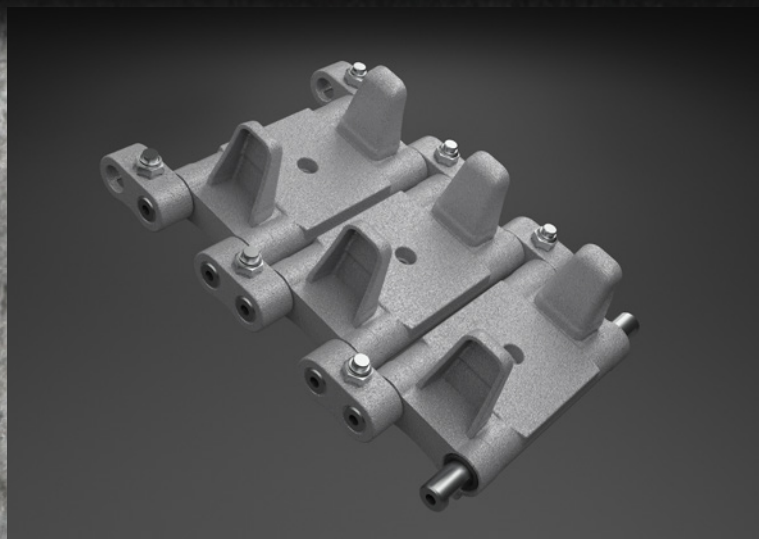
Specifications KUB
Mass: 600 kg
Length: 5,841 mm
Wingspan: 932 mm
Warhead no Propellant integral
rocket motor/ramjet booster and
sustainer motor
Operational range
24 kilometres (15 mi)
Flight altitude
500 metres – 6,000 metres



Armoured Vehicle BVP M-80A

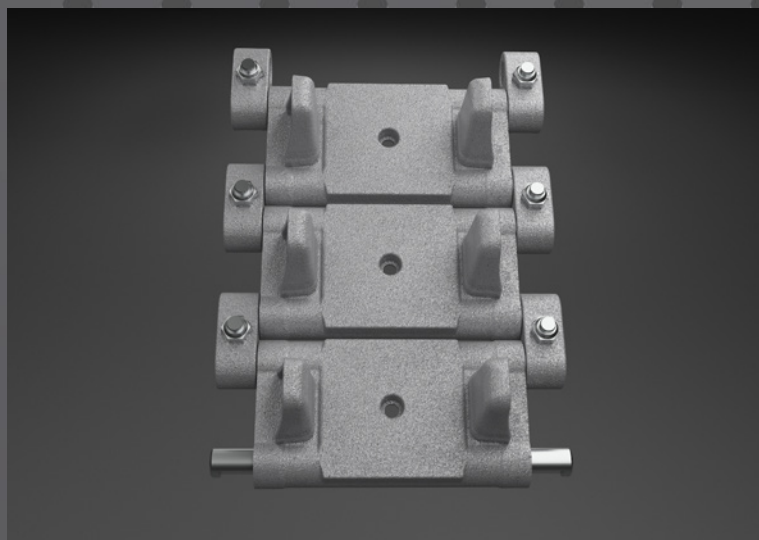
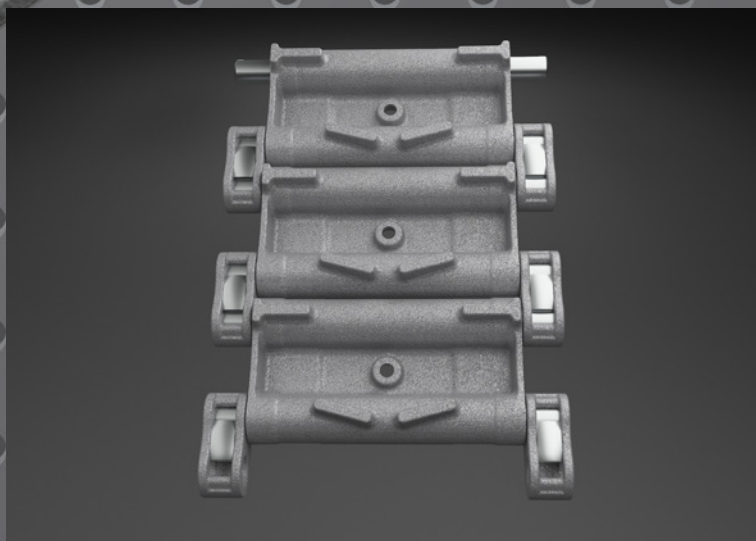


SEGMENT GUSENICE ZA OKLOPNO VOZILO "BVP M-80A"
CONTINUOUS TRACKS FOR ARMoured VEHICLE 'BVP M-80A'



Gusenično platno za BVP:
Izrađeno je od
specijalizovanog čelika;
tvrdoća čelika: do 440HB
sastav: 87 članak
članak: 4 pozicije;
masa: 690,00kg
dužina: 11.700,00mm.

BVP Track:
Made from specialized steel
steel hardness: up to 440HB
composition: 87 links
link: 4 positions
mass: 690.00 kg
length: 11,700.00 mm.

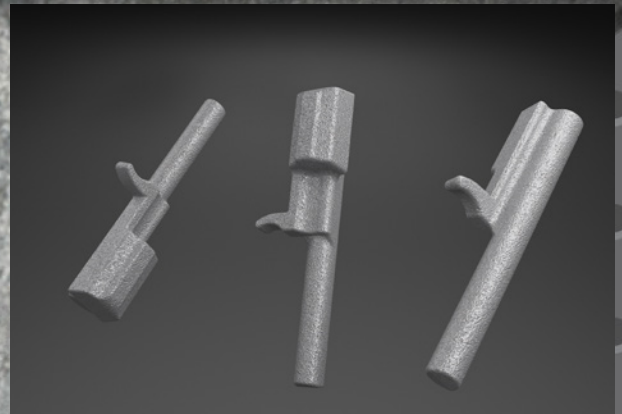


Specifications BVP M-80A
Mass 13,850 kg
Length 6.42 meters
Width 2.90 meters
Height 2.20 meters
Crew 3+7

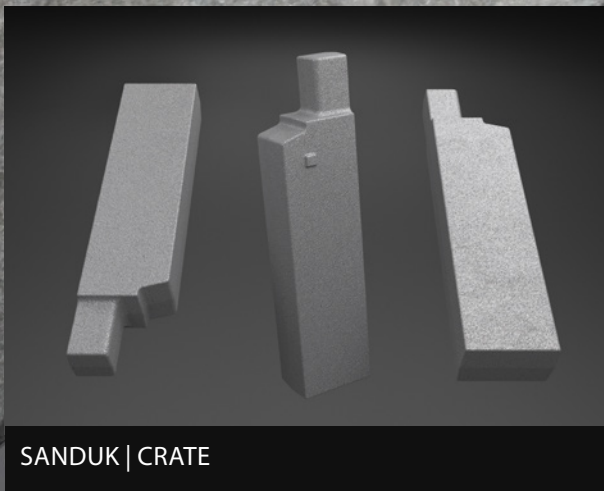


SYSTEM M-70 AB2

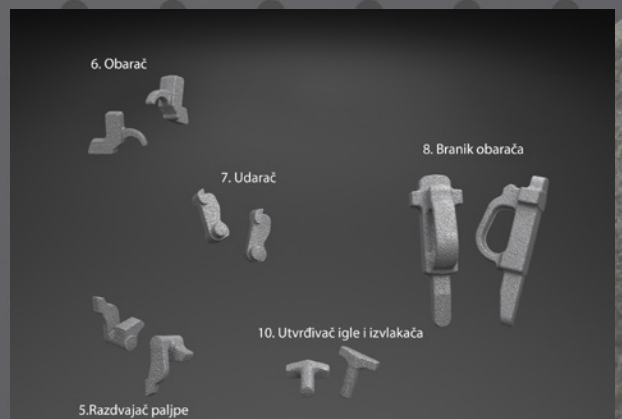
RAZLIČITE VRSTE OTKOVAKA KOJI SE KORISTE
U PROIZVODNJI I SKLAPANJU ZASTAVA SISTEMA.



NOSAČ TELA ZATVARAČA | BOLT CARRIER



SANDUK | CRATE



ELEMENTI AK SISTEMA | AK SYSTEM COMPONENTS

SYSTEM M-90 | M-21



VARIOUS TYPES OF FORGINGS USED IN
PRODUCTION AND ASSEMBLY OF ZASTAVA SYSTEMS.



NOSAČ CEVI | BARREL MOUNT



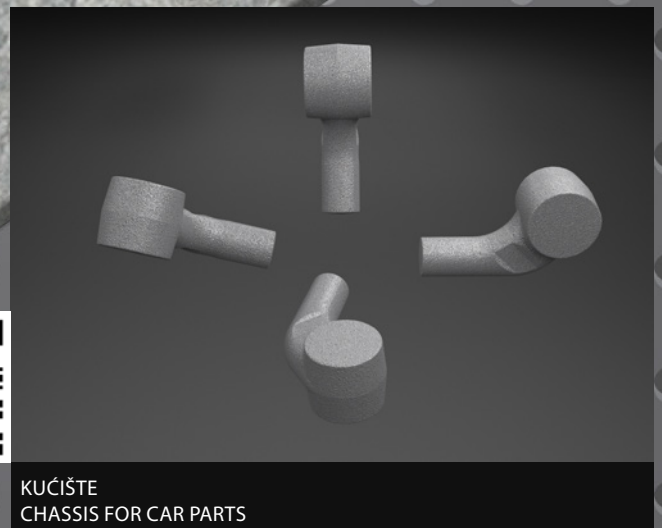
POSTOLJE NIŠANA | SCOPE MOUNT



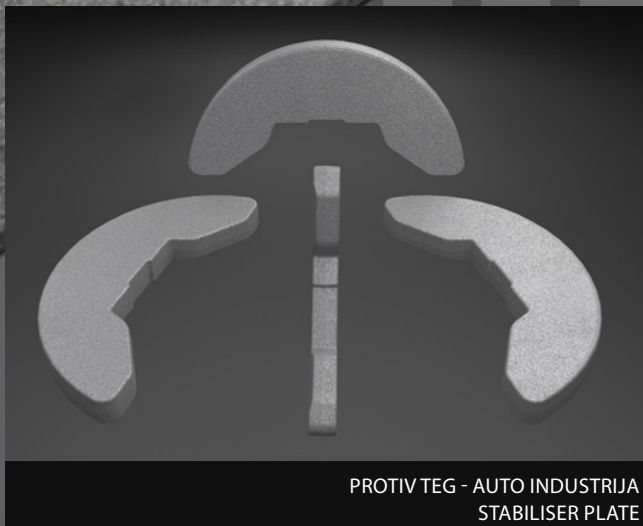
AUTO I TRANSPORTNA INDUSTRIJA



VELIKI PROTIV TEG - AUTO INDUSTRIJA
LARGER ANTI-SWAY PLATE



KUČIŠTE
CHASSIS FOR CAR PARTS

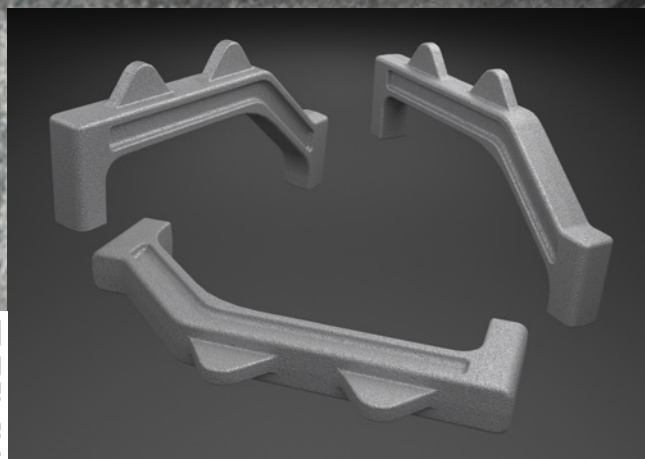


PROTIV TEG - AUTO INDUSTRIJA
STABILISER PLATE

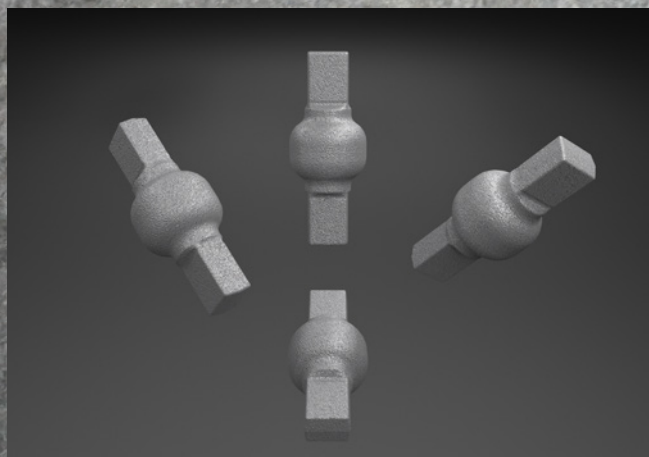


KUGLIČNI ZGLOB
BALL JOINT

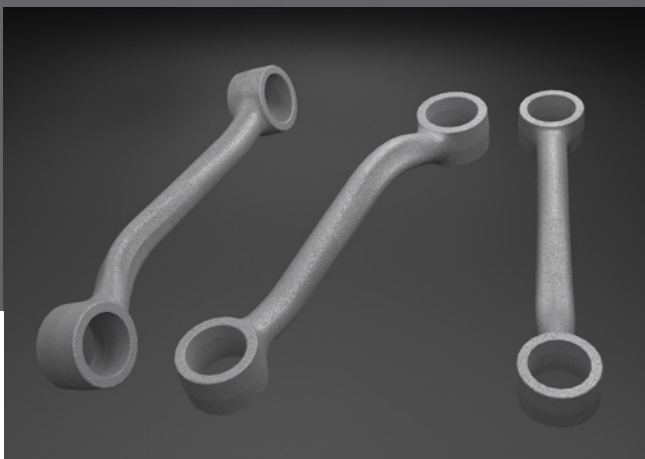
AUTOMOTIVE AND TRANSPORTATION INDUSTRY



NOSAČ
AUTOMOTIVE BRACKETS



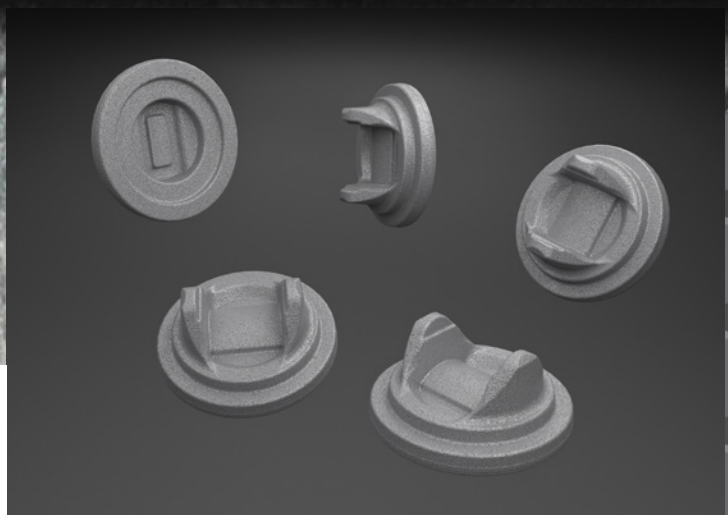
DUPLI ZGLOBNI RUKAVAC
DOUBLE UNIVERSAL JOINT



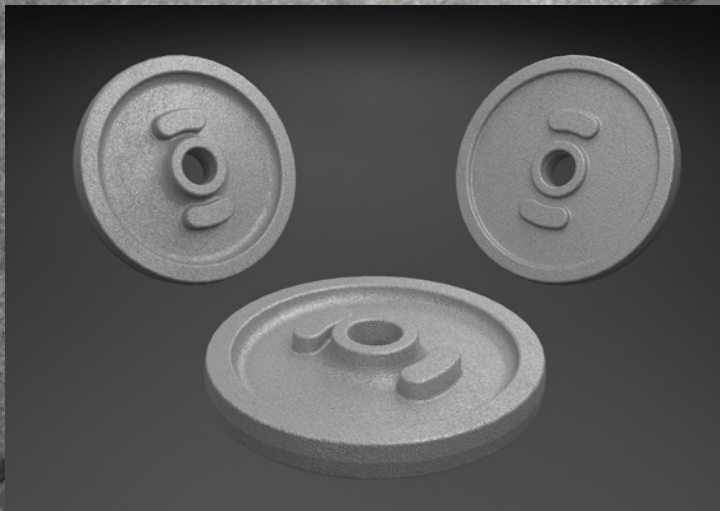
KUČIŠTE - DVOSTRANA POLUGA -
KAMIONSKA I AUTO INDUSTRIJA
TWO SIDED SWAY BAR



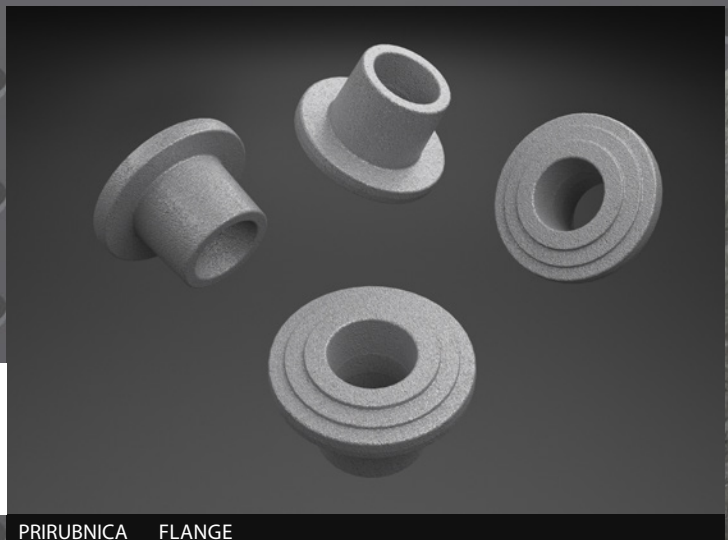
AUTO I TRANSPORTNA INDUSTRIJA



RAVNI UNIVERZALNI ZGLOB
FLAT UNIVERSAL JOINT



ZUPČANIK
COGWHEEL

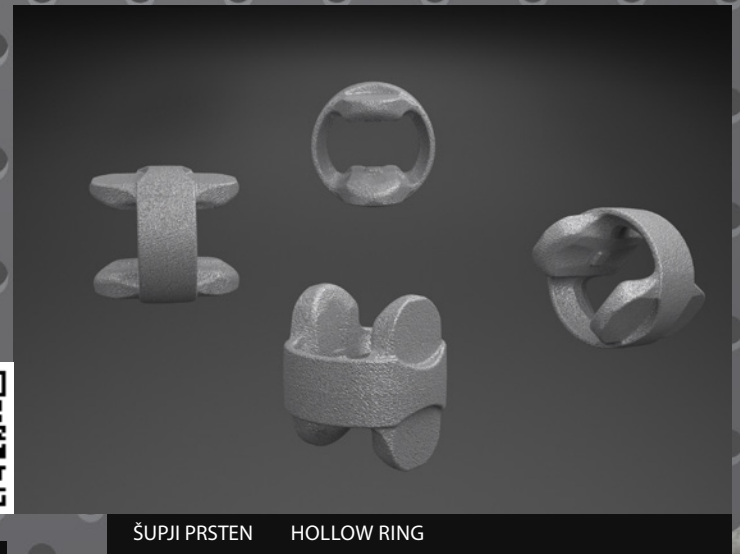


PRIRUBNICA FLANGE

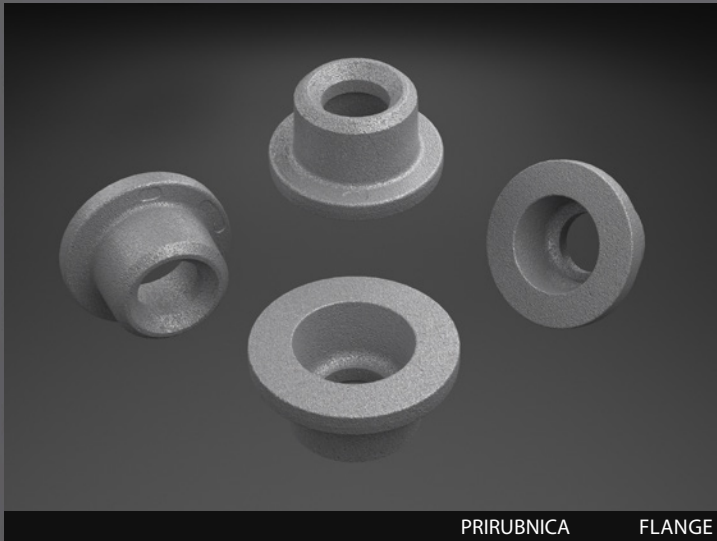
AUTOMOTIVE AND TRANSPORTATION INDUSTRY



ŠOLJA CUP



ŠUPJI PRSTEN HOLLOW RING



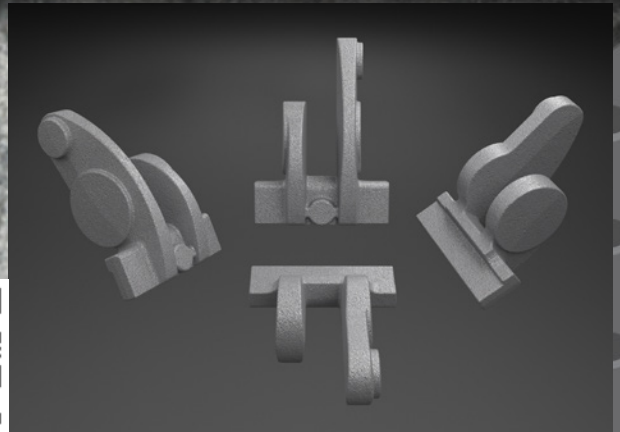
PRIRUBNICA FLANGE



POLJOPRIVREDNA MEHANIZACIJA



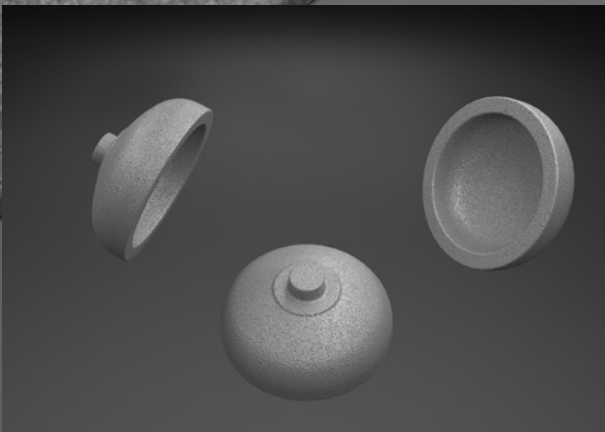
DUPLI PRST
HARVESTING DOUBLE FINGER



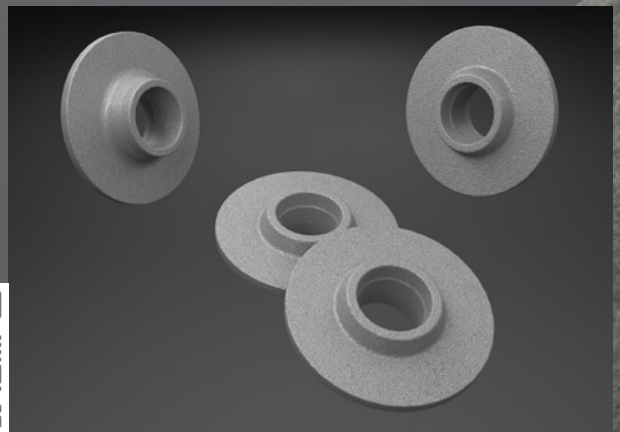
NOSAČ
BRACKETS & ATTACHMENTS



NOSAČ POLJOPRIVREDNA IND.
BRACKETS & ATTACHMENTS



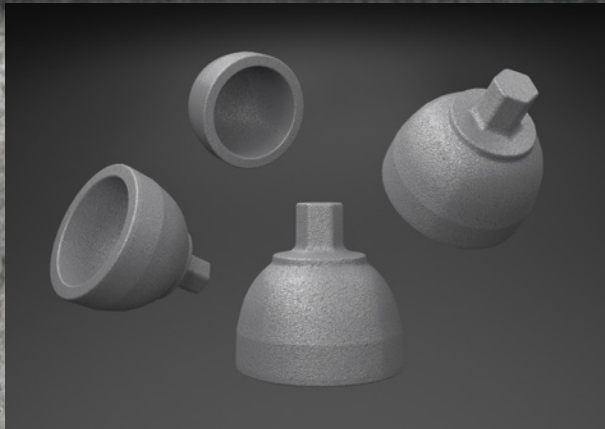
POKLOPAC ŠOLJE - KUĆIŠTA ZA SUDOVE POD PRITISKOM
DO 300 BAR - PRIMENA U RAZNIM GRANAMA INDUSTRIJE
DISC PLOUGH HOUSING LID
WITHSTANDING A PRESSURE OF 300 BAR



PRIRUBNICA - POLJOPRIVREDNA INDUSTRIJA
FLANGE



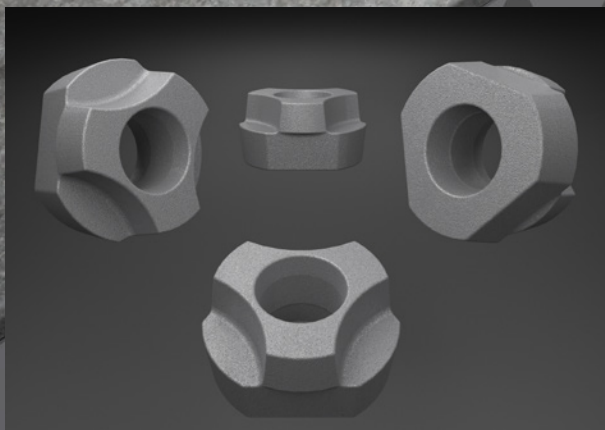
AGRICULTURAL MACHINERY INDUSTRY



ŠOLJA - KUĆIŠTE ZA SUDOVE POD PRITISKOM DO 300 bar
PRIMENA U RAZNIM GRANAMA INDUSTRIJE
DISC PLOUGH HOUSING
WITHSTANDING A PRESSURE OF 300 bar



TULJAK - NOSAČ IND.SKLADIŠTA
HITCH



SREDNJI PRSTEN - PRIMENA U RAZNIM GRANAMA
INDUSTRIJE
MIDDLE RING



VILJUŠKA
FORKLIFT



ZASTAVA KOVAČNICA A.D.
je izvor kreativnosti u metalurgiji koja
datira od davne 1857. godine

U srcu svake legendarno stvorene mašine,
stoji naša fabrika za kovanje - mesto
gde se rađa snaga i veština.
Mi smo majstori čelika, kovači sa strašću za
stvaranjem izvanrednog.

Naša kovačnica nije samo mesto gde se
metal oblikuje, već gde se snovi
pretaču u stvarnost.
Ovde, svaki komad metala je prilika za
stvaranje remek-dela, za ostvarenje
nemogućeg.

Naša stručnost je duboka, a predanost
neizmerna. Sa stručnim timom inženjera,
majstora, kovača i najnaprednijom
tehnologijom, stvaramo besprekorne
otkovke.

Očekujte trajnost, preciznost i kvalitet
jer kod nas, svaki udarac kovačkog čekića
i kovačke prese je udarac za savršenstvo.

Kad kupujete od nas, kupujete ne samo
kvalitet i izdržljivost, već i deo legende.
Pridružite nam se u osvajanju novih
horizonta i stvaranju istorije.

Naša fabrika za kovanje - snaga, veština, i
beskrajna inspiracija.

Kovanje budućnosti, danas!

ZASTAVA METALS J.S.C.
was established in the year 1857,
and since its inception, it has swiftly
earned a renowned reputation for its
exceptional craftsmanship and
commitment to producing high-quality
forged metal components.

In tribute to our illustrious heritage of
crafting superior forged metal
components, our modern industrial facility
is now equipped with cutting-edge
metallurgical technologies.

We take great pride in our dedicated and
highly skilled team, which comprises
top-tier engineers, craftsmen, and
accomplished blacksmiths.

Each piece of metal that emerges from
our facility undergoes a meticulous design
process, adhering to the most stringent
technical specifications. The result is
nothing short of perfection, as every item
is expertly forged to meet the highest
industry standards.

We enthusiastically embrace challenges,
viewing them as opportunities to
showcase our expertise. As a testament to
our unwavering commitment to
excellence, we offer an ironclad
guarantee of quality and durability.

We invite you to join us in our pursuit of
conquering new horizons and striving for
greatness. Together, we can create
products that are second to none.
At ZASTAVA METALS J.S.C.,
we are not just forging products;

We are forging the future, today!

