

# STEEL CASTINGS



“Jelšingrad Livar” steel foundry a.d. Banja Luka



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## PRODUCTION CAPACITIES



### Melting shop

- \* 2 electric -arc furnaces, capacity of each of them is 5 t
- \* 2 induction furnaces with capacity each of them is 3.5 t
- \* 1 induction furnace with the capacity of 1 t
- \* 1 induction furnace with the capacity of 0.5 t



### Molding shop

- \* 2 semi-automatic lines (600x500x400)
- \* 1 semi-automatic line (1.000x800x700)
- \* Manual molding up to 5 t/pcs
- \* Cold-box machine for cores



### Cleaning room

- \* 3 shot blasting machines
- \* Grinding and welding machines



### Heat treatment

- \* Chamber furnace (4.000x2.900x1.700 mm), 1.100 °C, computer guided (loaded)
- \* Chamber furnace (3.660x2.000x1.100 mm), 1.100 °C
- \* Chamber furnace (4.800x2.700x1.200 mm) with traction and 2 cars, 950 °C
- \* Chamber furnace KPK-300, (4.150x3.100x1.500 mm), 900 °C
- \* Pools for quenching and tempering in oil and water with volume V=16m<sup>3</sup>



### Machining of castings

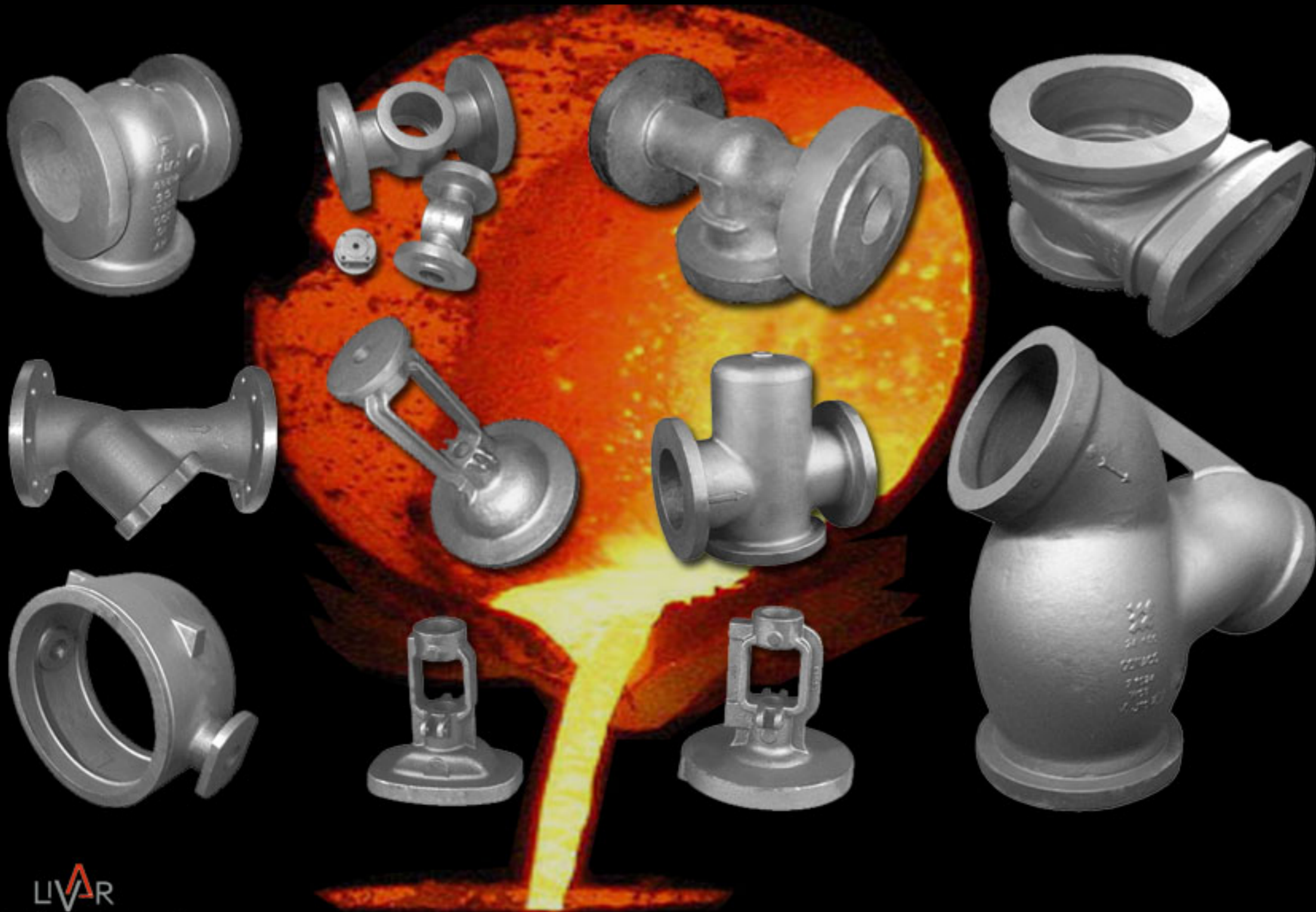
- \* 8 turning machines
- \* 6 Karusel, maximal diameter 2.500 mm, max height 1.600 mm
- \* 2 Borwerk, spinning table max 1.800x1.600 mm
- \* 3 milling machines
- \* 1 radial grinder
- \* 1 grinder for flat grinding, 800x320x400 mm
- \* 1 grinder for round grinding, 400x1.000 mm
- \* 1 slotter maximal movement 800 mm, maximal height of the piece 650 mm
- \* 2 metal saws, maximal diameter 350 mm.



### Control Department

- \* Optical emission spectroscopy
- \* Impact test machine
- \* Tensile test machine
- \* Hardness test machine
- \* Magnetic particle equipments (wet and dry method)
- \* Ultrasonic test equipment
- \* Radiographic test equipment
- \* Metallographic test equipment

## PROGRAM OF VALVES and SLIDERS



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### TYPE OF VALVES:

Gate valves, Globe Valves, "Y" Strainers, Ring Valves, Butterfly Valves, Pressure Sealed Valves. Weight of 5 kg to 5000 kg.

### MATERIALS THAT ARE USED FOR PRODUCTION ARE ACCORDING TO STANDARDS:

ASTM A 216, ASTM A 217, ASTM A 351, Others.

### THE QUALITY CONTROLL ARE MADE ACCORDING TO:

EN 10204, EN 12680-1 and 12680-2, EN 1369, EN 12454 AND MSS SP 55, EN 12881



## PROGRAM OF RAIL and TRAIN CONSTRUCTIONS



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### PRODUCTS:

Axle guards, Couplers, Yokes, Plates, Supports, Housings and parts of housings.

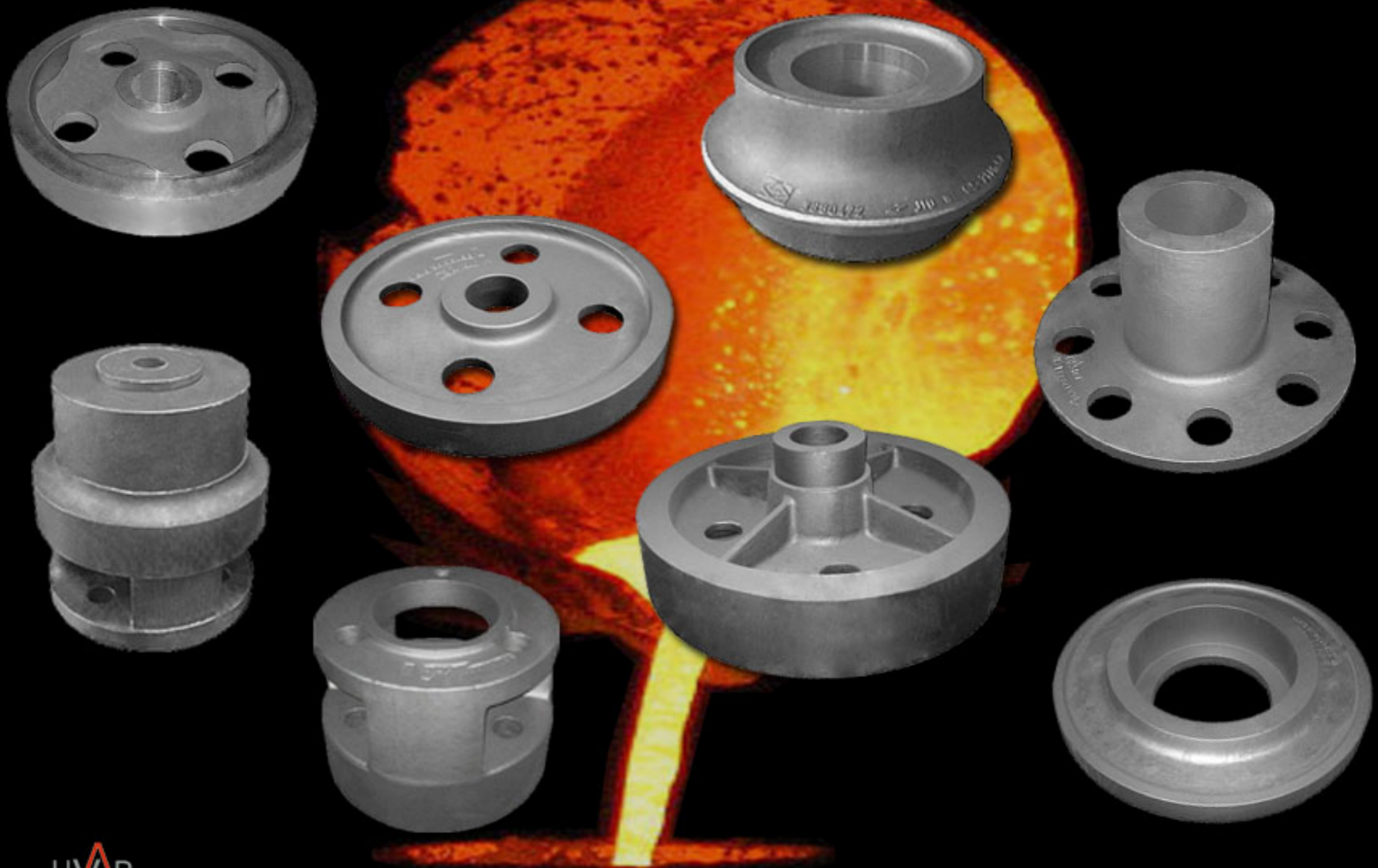
### MATERIALS THAT ARE USED FOR PRODUCTION ARE ACCORDING TO STANDARDS:

SEW 520, EN 10213-2, UTC 840-2, Others.

### THE QUALITY CONTROLL ARE MADE ACCORDING TO:

EN 10204, EN 12680-1 and 12680-2, EN 1369, EN 12454 AND MSS SP 55, EN 12881

# PROGRAM OF OIL INDUSTRY and SHIPBUILDING



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## PRODUCTS:

Satellites, Wheels, Covers, Sleeves.

## MATERIALS THAT ARE USED FOR PRODUCTION ARE ACCORDING TO STANDARDS:

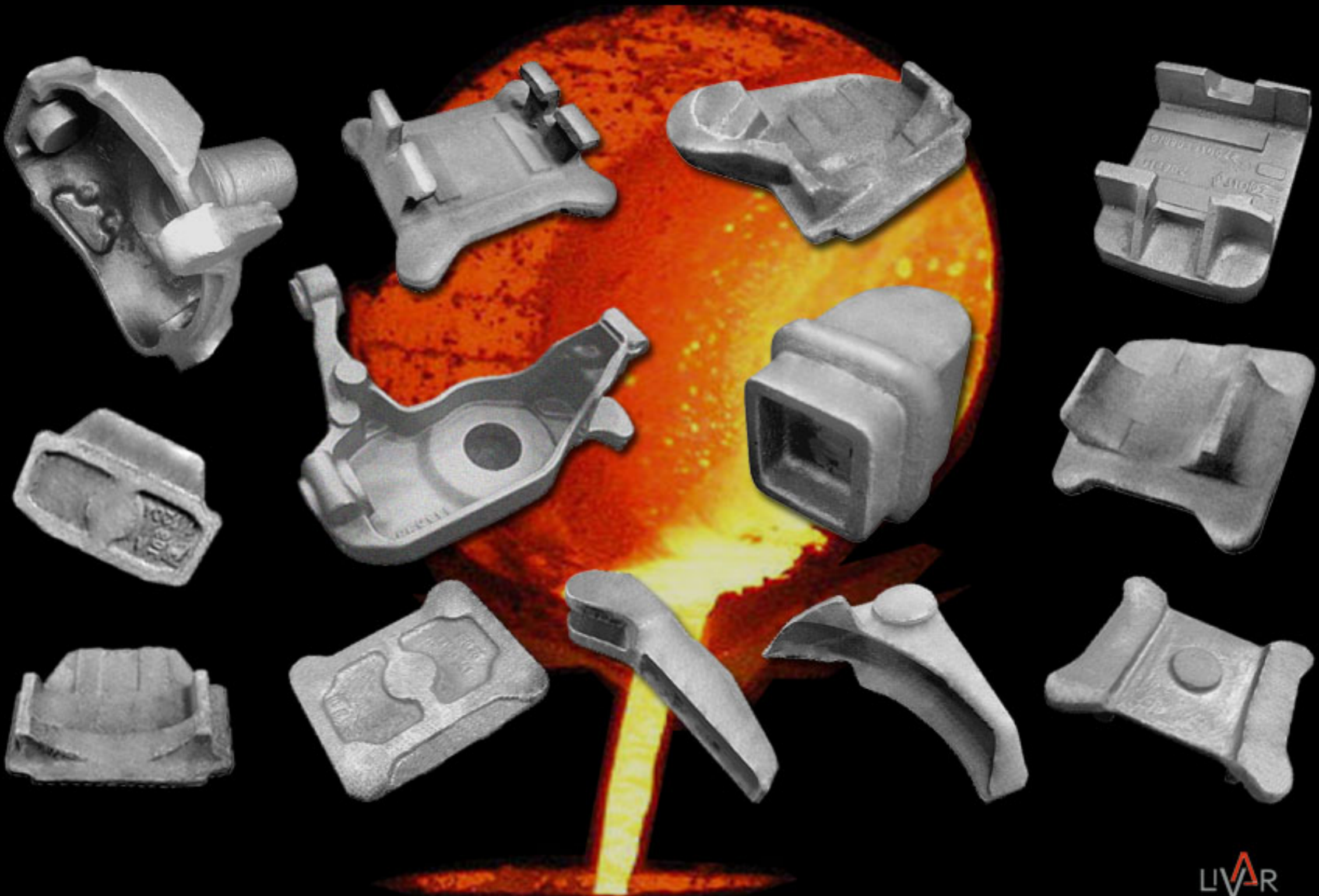
EN 10293, SEW 520

## THE QUALITY CONTROLL ARE MADE ACCORDING TO:

EN 10204, EN 12680-1 and 12680-2, EN 1369, EN 12454 AND MSS SP 55, EN 571 - 1



## PROGRAM OF AUTOMOTIVE INDUSTRY



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### PRODUCTS:

Various type of knuckle, Various types plates.

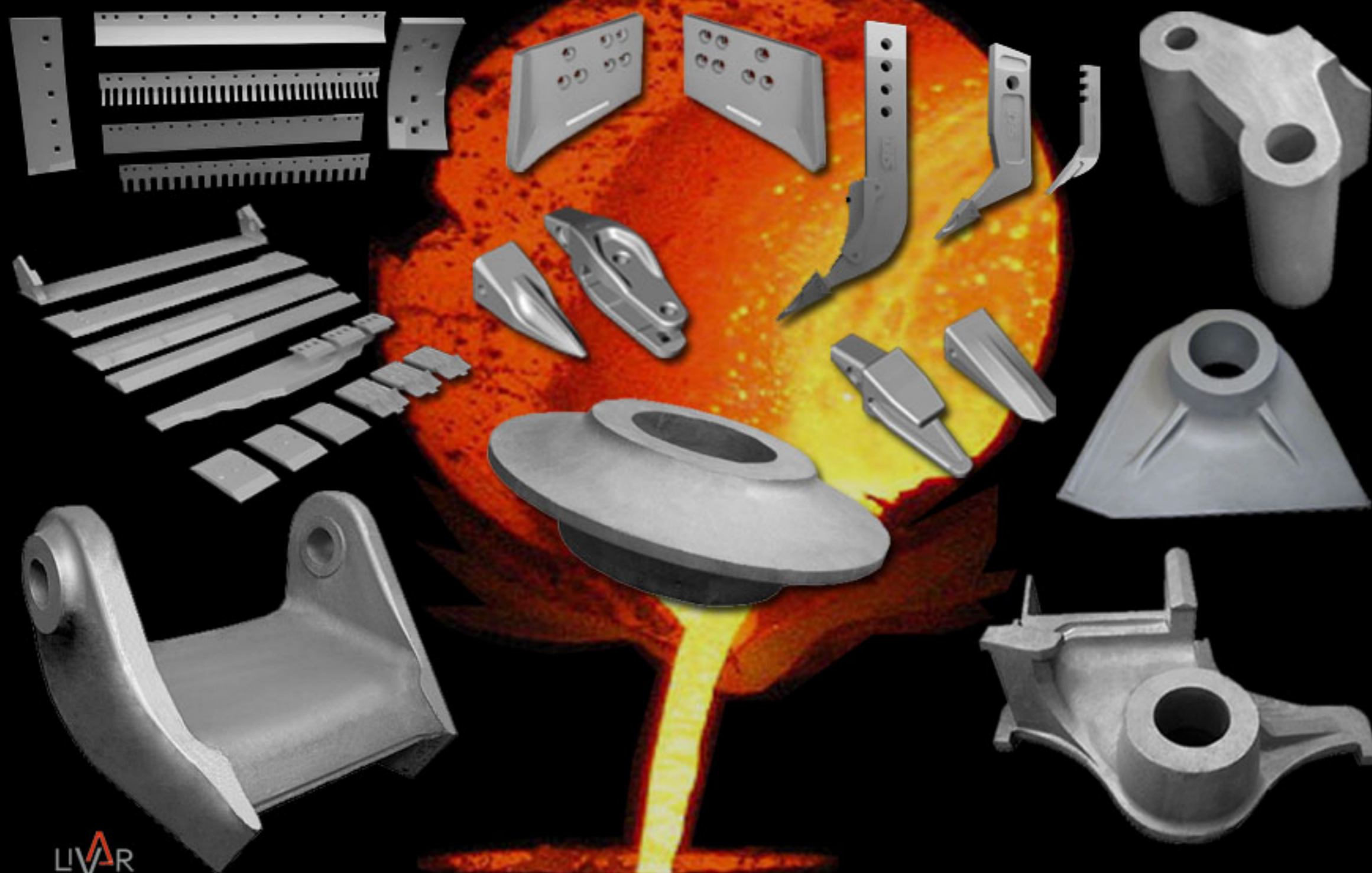
### MATERIALS THAT ARE USED FOR PRODUCTION ARE ACCORDING TO STANDARD:

SEW 520

### THE QUALITY CONTROLL ARE MADE ACCORDING TO:

EN 10204, EN 12680-1 and 12680-2, EN 1369, EN 12454 AND MSS SP 55, EN 12881

## PROGRAM OF BUILDING CONSTRUCTION



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### PRODUCTS:

Parts for various type of excavators, mills and crushers, spare parts of building constructions and machinery.

### MATERIALS THAT ARE USED FOR PRODUCTION ARE ACCORDING TO STANDARD:

EN 10293

### THE QUALITY CONTROLL ARE MADE ACCORDING TO:

EN 10204, EN 12680-1 and 12680-2, EN 1369, EN 12454 AND MSS SP 55, EN 12881

**CARBON STEEL FOR GENERAL PURPOSE**  
**CARBON STEEL WITH GUARANTEED CHEMICAL COMPOSITION**  
**CHROM ALLOYED STEEL RESISTANT TO WEARING**  
**CHROM MOLIBDENUM ALLOYED STEEL**  
**FIRE RESISTANT STEEL**  
**VARIOUS TYPE HIGH ALLOYED STEEL**  
**STAINLESS AND CHEMICAL RESISTANT STEEL**



DNV Det Norske Veritas



ISO 9001 : 2000 - BVQI



PED Presure Equipment Directive



ABS American Bureau of Shipping



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