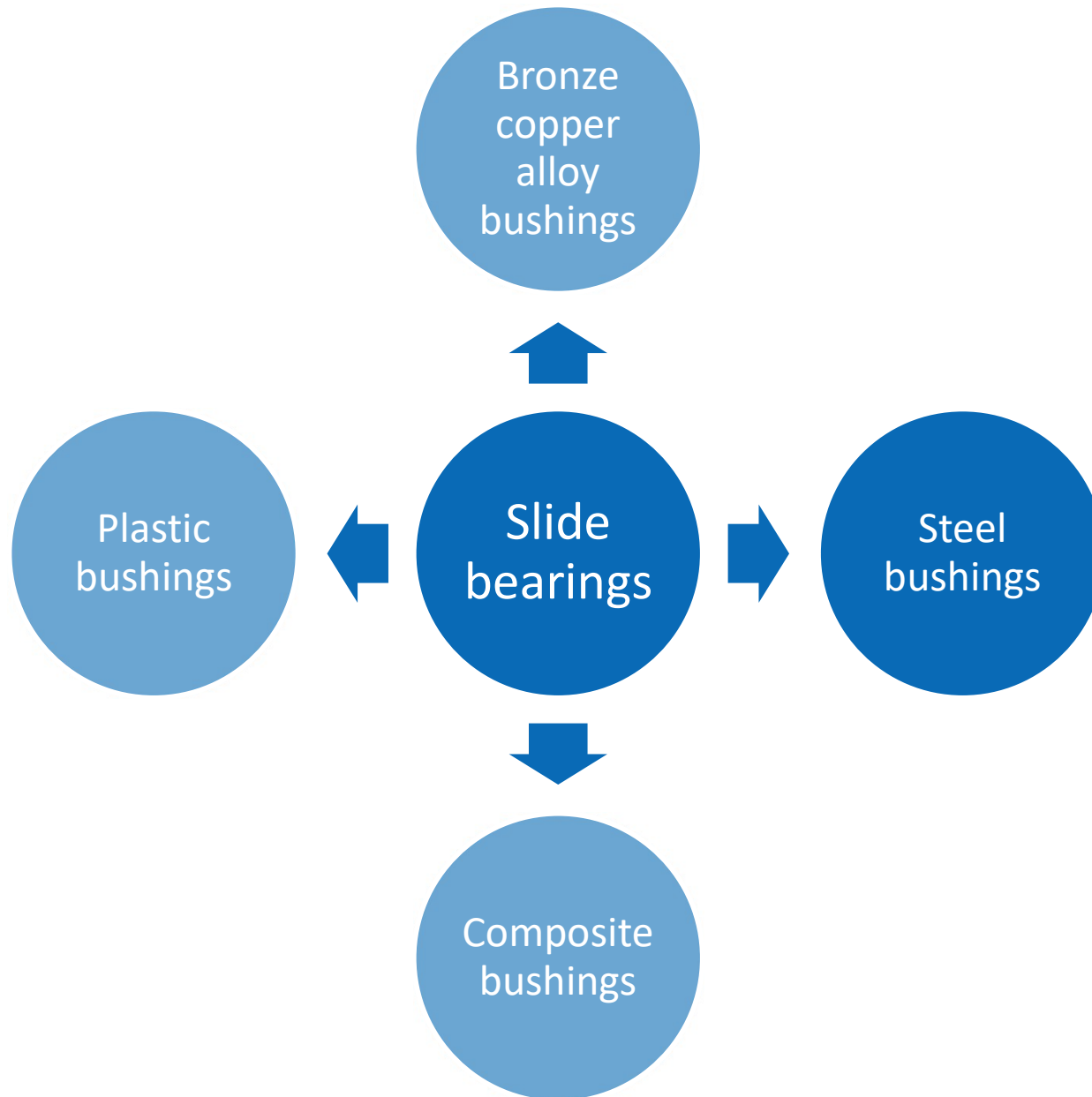


VATIS

Steel Bushings



Oplossingen tegen slijtage en aanplakken



The plain Bushings steel offer

- high wear resistance to adhesion, abrasion and surface fatigue
- highly resistant to static and dynamic stress
- low-friction, corrosion protective overlay with groove structure
- are heat-resistant up to 500°C
- need less lubricants than bronze and brass bushings etc.
- an ecological and cost-efficient replacement of Cu alloys



Application areas

- Bushings in joints of wheel loaders
- Conveyor equipment for container stripping/undercarriages
- Crane joints, jib bearings, gripper joints
- Bushings in shipbuilding
- Tractor joints, accessory equipment
- Replacement of various bronze bearings in joints of the steel, cement and aluminum industry



The special manganese plain Bushings represent an extremely tough steel base with high manganese content with outstanding performance

- excellent resistance to abrasion wear
- high safety against rupture and are shock and impact resistant
- specific grain arrangement and compaction with hardness structure of 500 HV
- hydro-mechanical strain-hardening up to 700 HV, depending on the application
- maintenance-free operation
- dynamically resistant up to 60 MPa.
- operating temperatures of up to $T=400^{\circ}\text{C}$.

Counter bodies (axe/spindle)

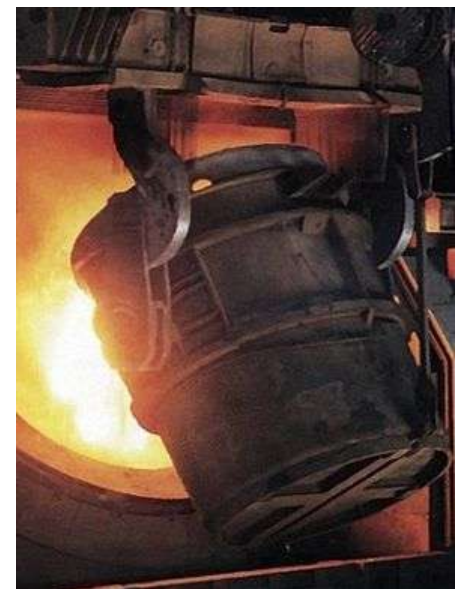
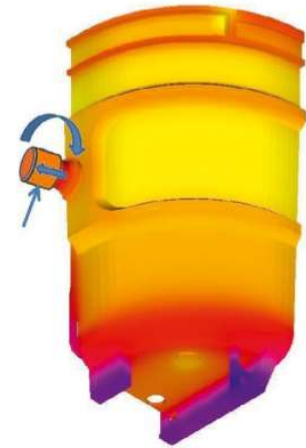
The counter bodies should consist of induction hardened heat treatable steels or of case-hardened or carbonitrided steels.

Through-hardened axles made of rolled or cold work steels are also possible, if a hardness of 57-60 HRC can be achieved.



Typical applications of manganese plain Bushings

- Iron and steel industry
 - ladle journal Bushings - maintenance-free/low maintenance
 - scrap cranes, bucket loaders, transportation of slag
 - Conveyor and roller conveyor bearings
 - Pivot joint bearings in dusty environments
- Dredging industry
 - Pivot joint Bushings



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