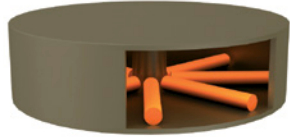
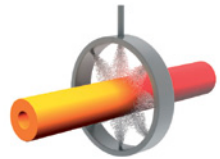


Seamless Process Flowchart (PQF)

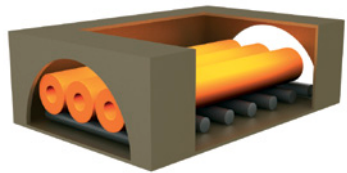
1. Billet heating in circular furnace



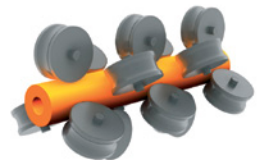
3. Hydrodescaling



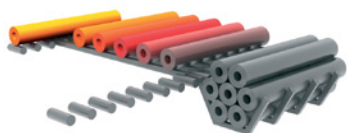
5. Reheating



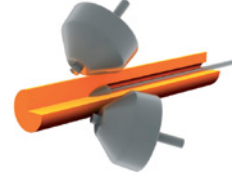
7. Stretch reducing mill



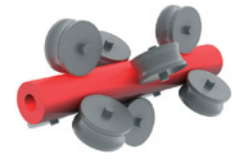
9. Cooling



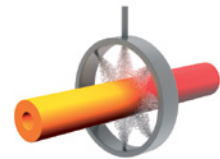
2. Cross-rolling piercing



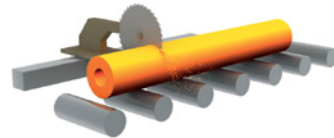
4. Elongating



6. Hydrodescaling



8. Cutting



10. Batch sawing

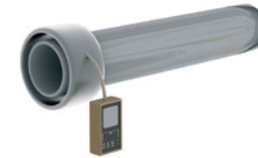


Casing Pipe Finishing Process

1. Control of pipe geometry



3. Flaw-detecting



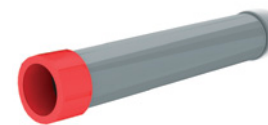
5. Magnetic-fluoroscopic flaw inspection of pipe ends



7. Coupling screw-on and drifting



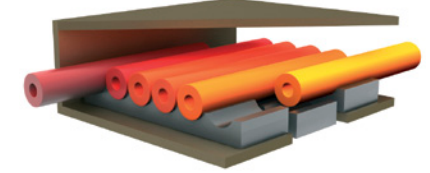
9. Protectors screw-on



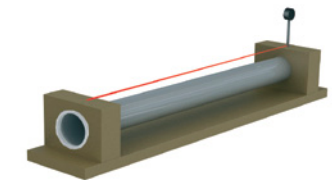
11. Marking, packing, storage



2. Heat treatment



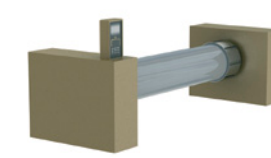
4. Geometrics inspection



6. Threading, thread inspection



8. Hydrostatic testing



10. Coating application

