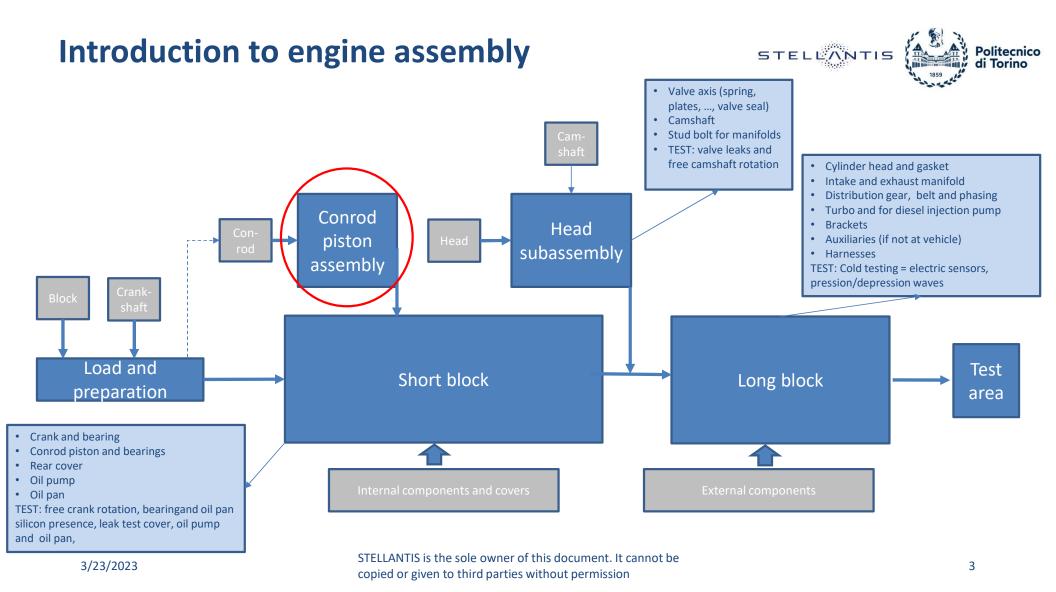


AUTOMOTIVE Powertrain processes

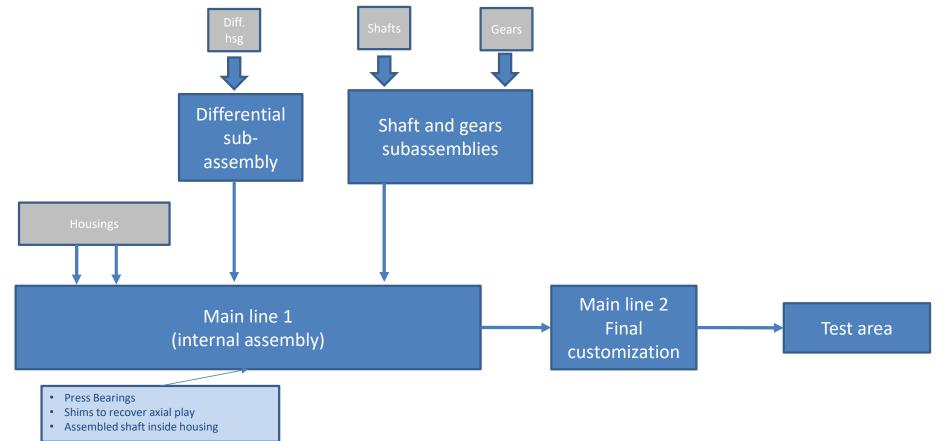


Main powertrain assembly processes



Introduction to transmission assembly



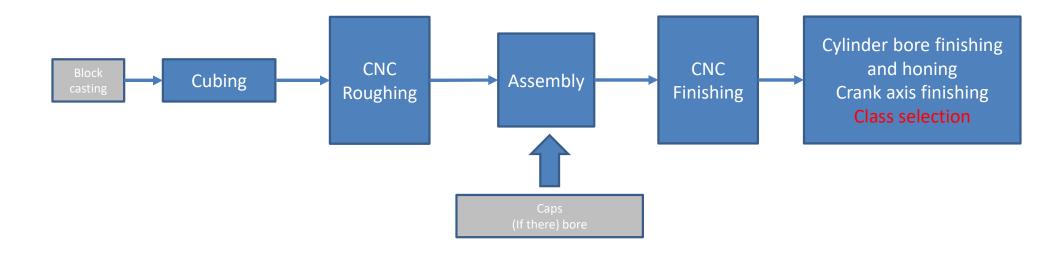




Main machining component processes

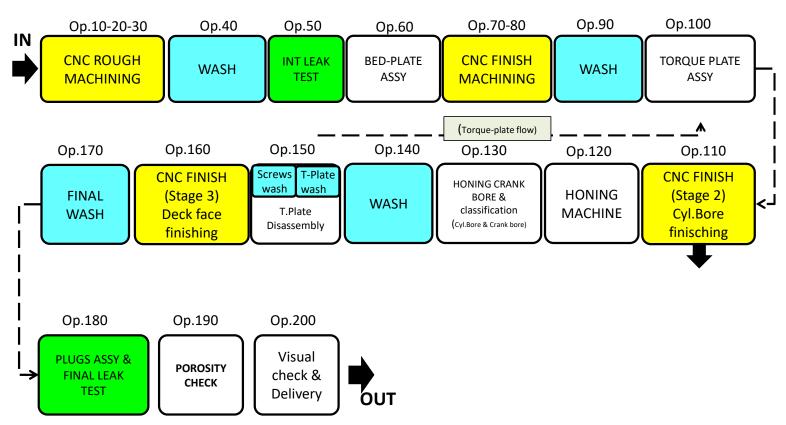


Block diagram cylinder block machining



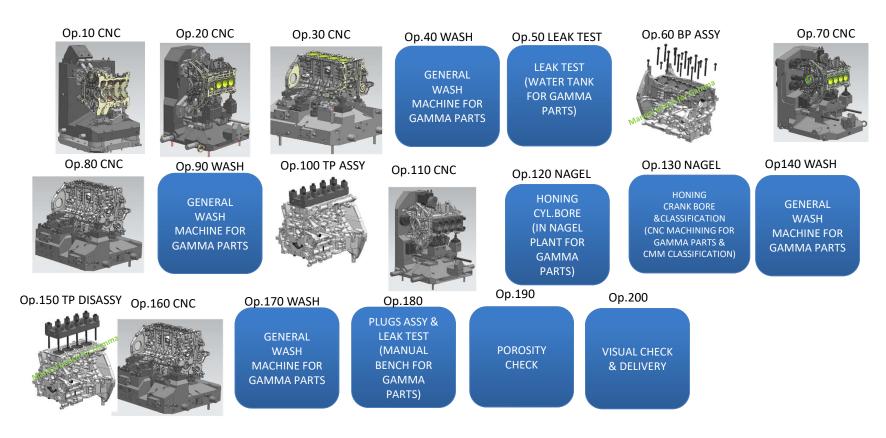
Cylinder block: cycle





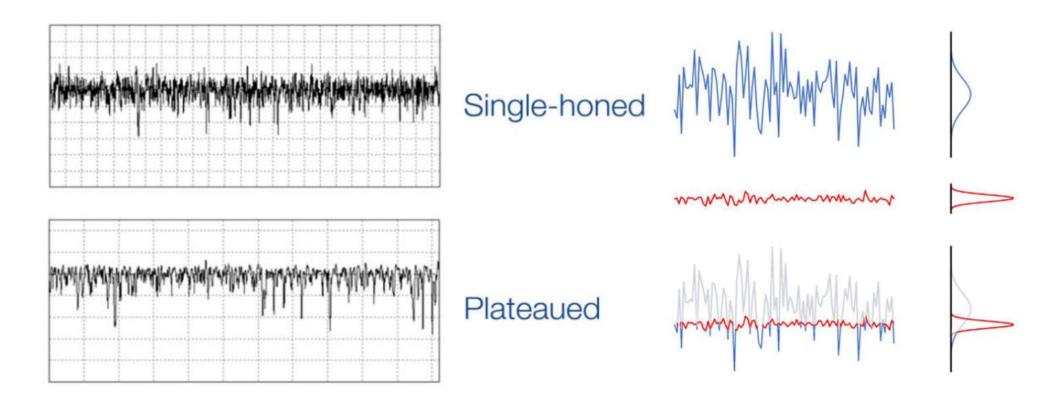
Cylinder bock: Visual cycle





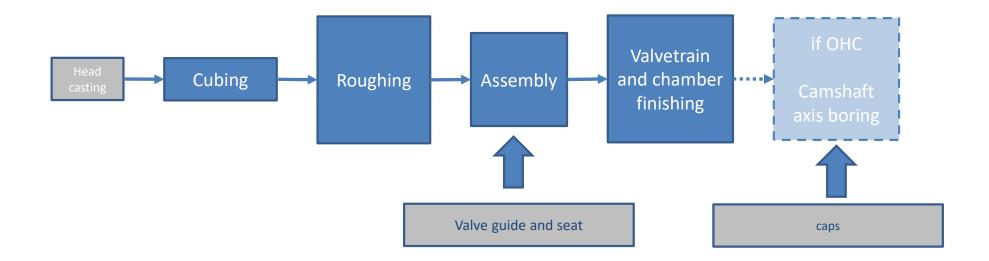
The plateau





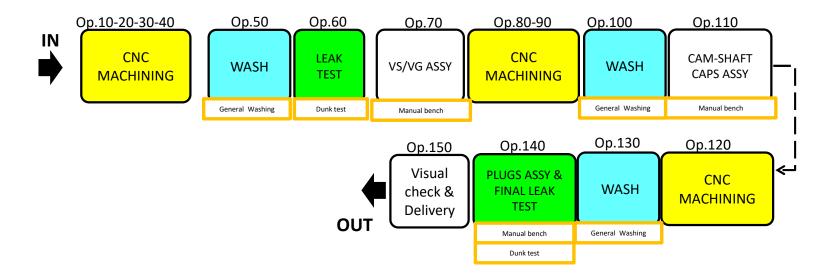


Block diagram cylinder head machining



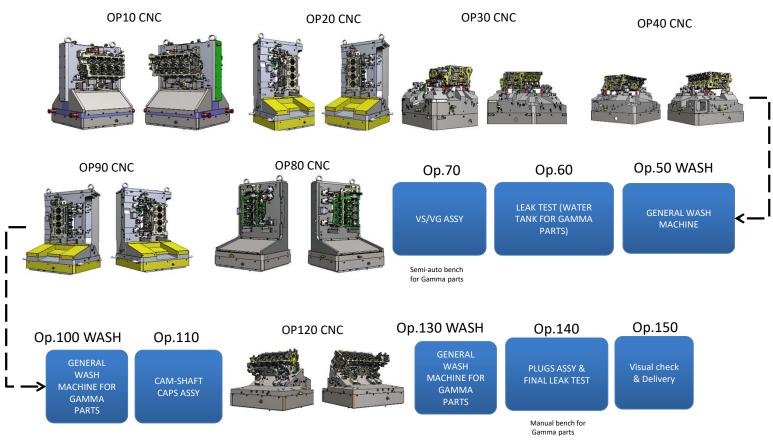
Process flow Cylinder head





Cylinder head: visual cycle

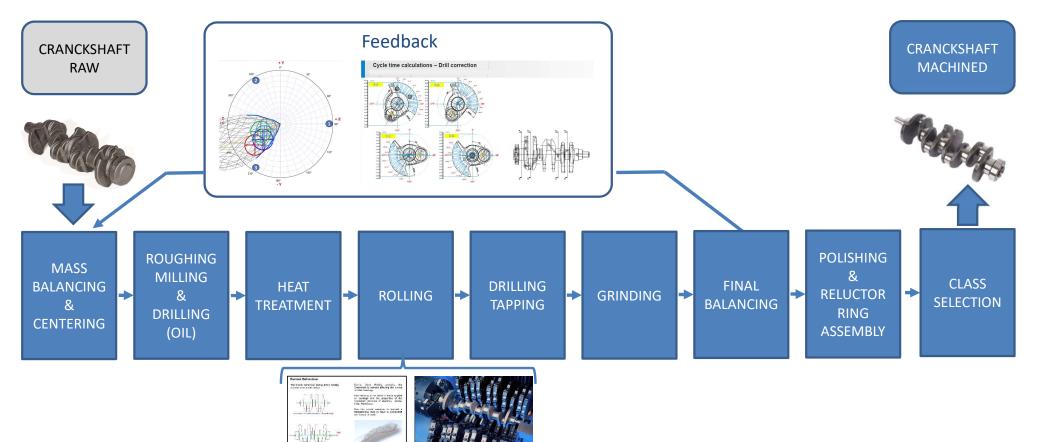




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Block diagram crankshaft machining



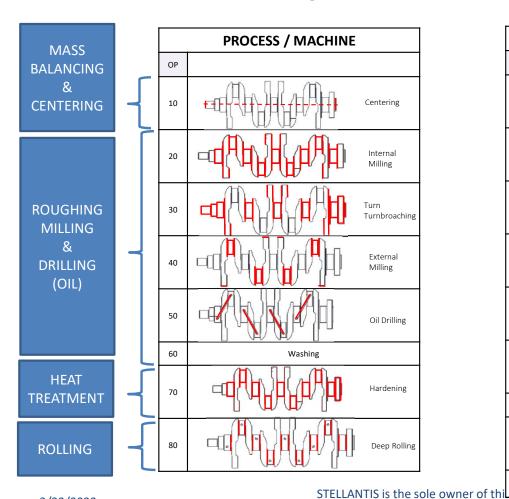


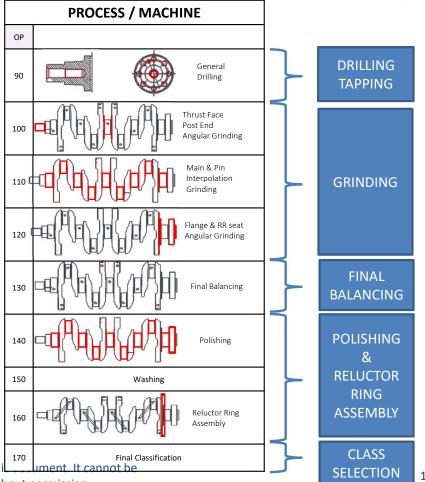
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Crankshaft: visual cycle





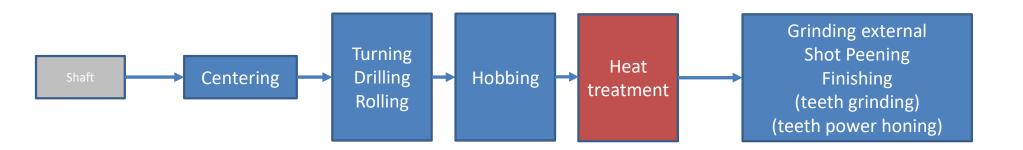


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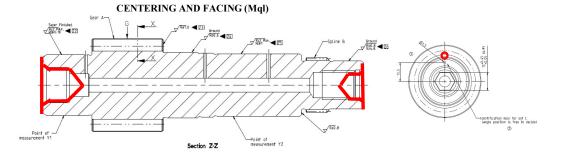
Block diagram transmission shafts

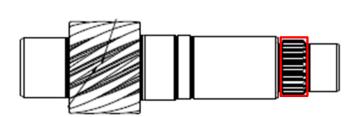


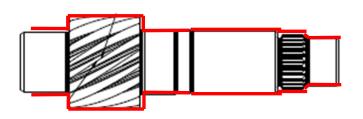


Transmission shaft: visual cycle before H.T.

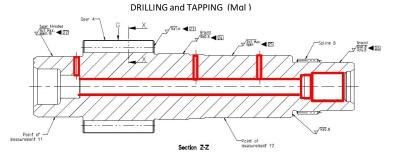




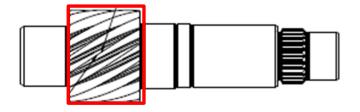




GREEN TURNING (dry)



HOBBING and CHAMFERING (dry)

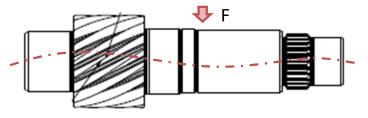


WASHING

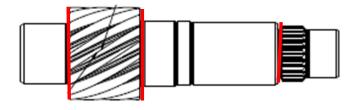
Transmission shaft: visual cycle after H.T.



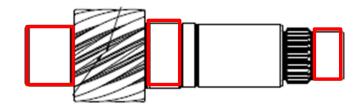
STRAIGHTENING (dry)



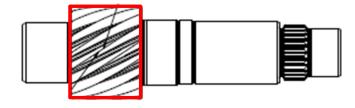
GROOVES GRINDING (oil 1)



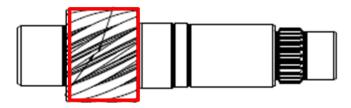
CONTOUR GRINDING (oil 1)



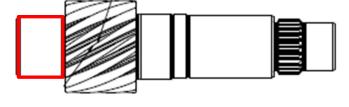
SHOT PEENING WASHING



TEETH GRINDING (oil 1)



HONING

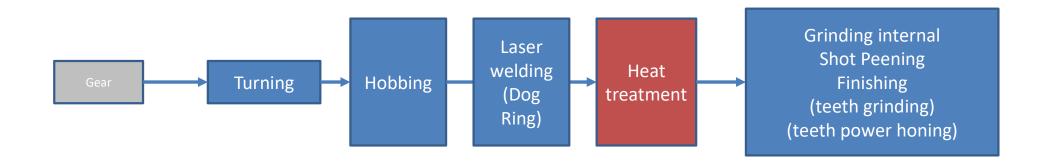


WASHING

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Block diagram transmission / gear

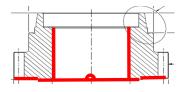


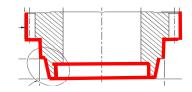


Gear: visual cycle

TURNING (dry)



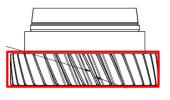




HARD TURNING / GRINDING (emulsion)

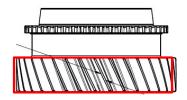


HOBBING and CHAMFERING (dry)



HEAT TREATMENT

POWER HONING (oil 1)



LASER WELDING & CHECK

WASHING

