

WINTEN

Winten Auto Parts Manufacture Co., Ltd.



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from custom manufacturing***

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Advantages Of Vacuum Casting

- Great for low volumes
- Self-colored parts
- Low upfront investment
- Quickly prototype
- Massive range of materials
- Similar production surface over molds
- Size from O-ring up to 2 meter car bumpers



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Vacuum Casting Introduction

Vacuum casting or cast urethanes is a perfect solution for production quality parts without the cost or lead time required for production tooling.

Vacuum casting enables you to quickly recreate tens of parts in production like materials allowing you to create multiple reproductions of a part for market or in-house testing.

Used for
Developing prototypes, low volume production,
rubber parts, market testing, rapid iterations



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How Vacuum Casting Works

3 Stages

Master model - CNC machined or 3D printed via SLA or SLS or Original Sample

Silicone tool – liquid silicone is poured around the master model and cured. Once dry the master is cut from the mold to leave the cavity

Castings – the resin is poured into the cavity to create a production like replicate.



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Vacuum Casting Machine

小批量真空复模

优势：

在不开模具的前提下快速生产几十或几百套小批量生产，价格便宜，时间短，表面光洁度好。





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Process Procedure

1. Silicone Mold Manufacture

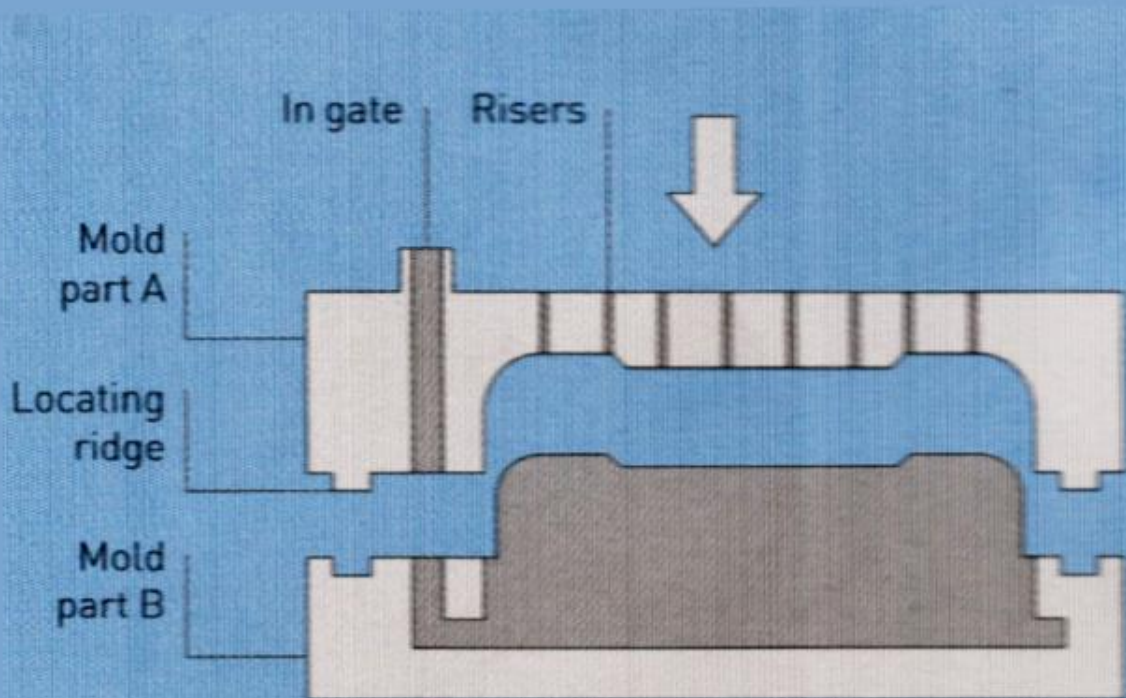
Putting sample part into a container, add liquid silicone into container, then putting them into the Vacuum furnace to get solid silicone Square. Separate the silicone square piece to 2 pieces, top and bottom, as parting of injection mold, remove the sample part, then all part feature was left in the silicone pieces. Your silicone mold is ready





Process Procedure

2. Put top and bottom silicone mold together into furnace, heat to seamless of parting line

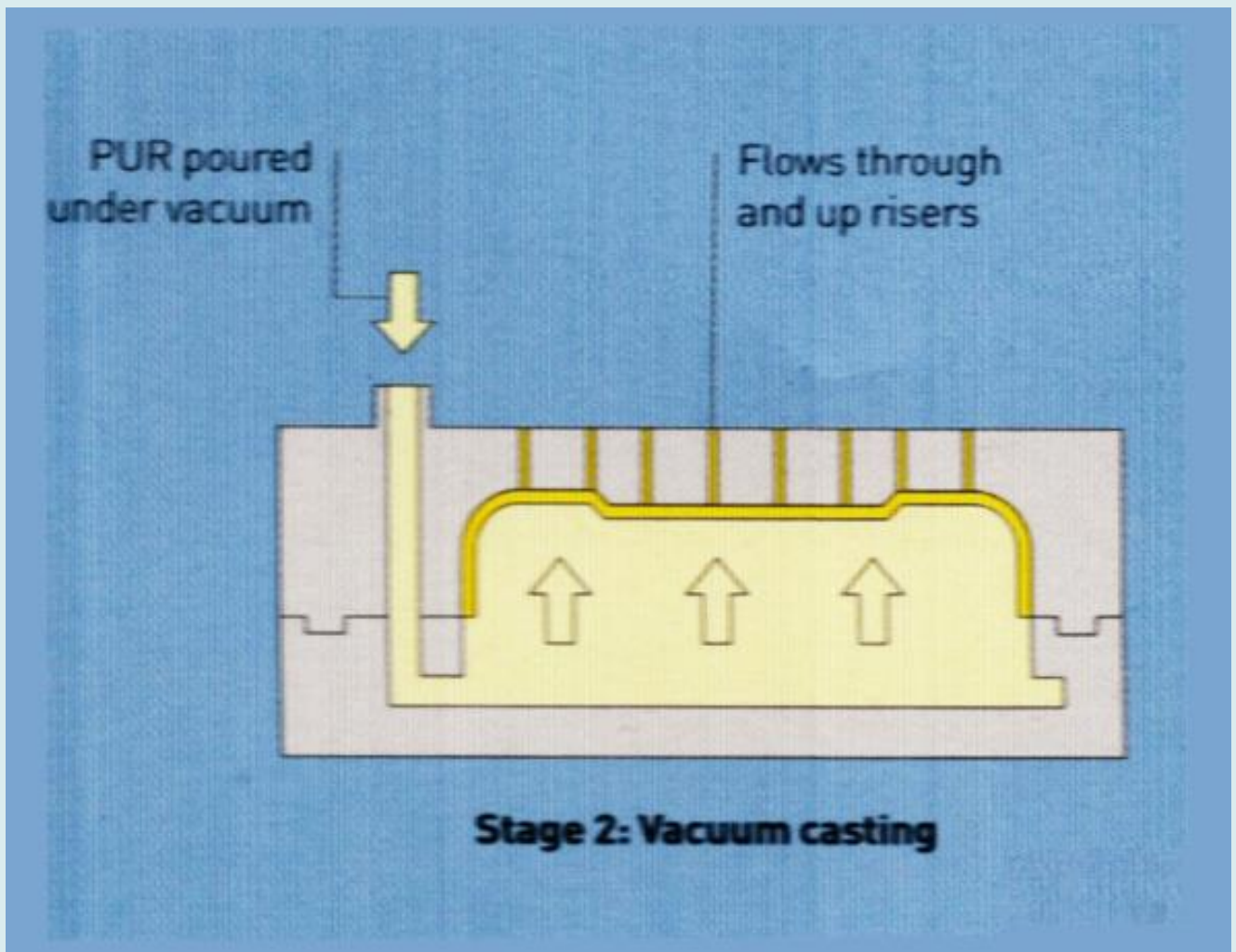


Stage 1: Mold assembly



Process Procedure

3, Vacuumize cavity of silicone mold, pour prepared liquid plastic until cavity is full



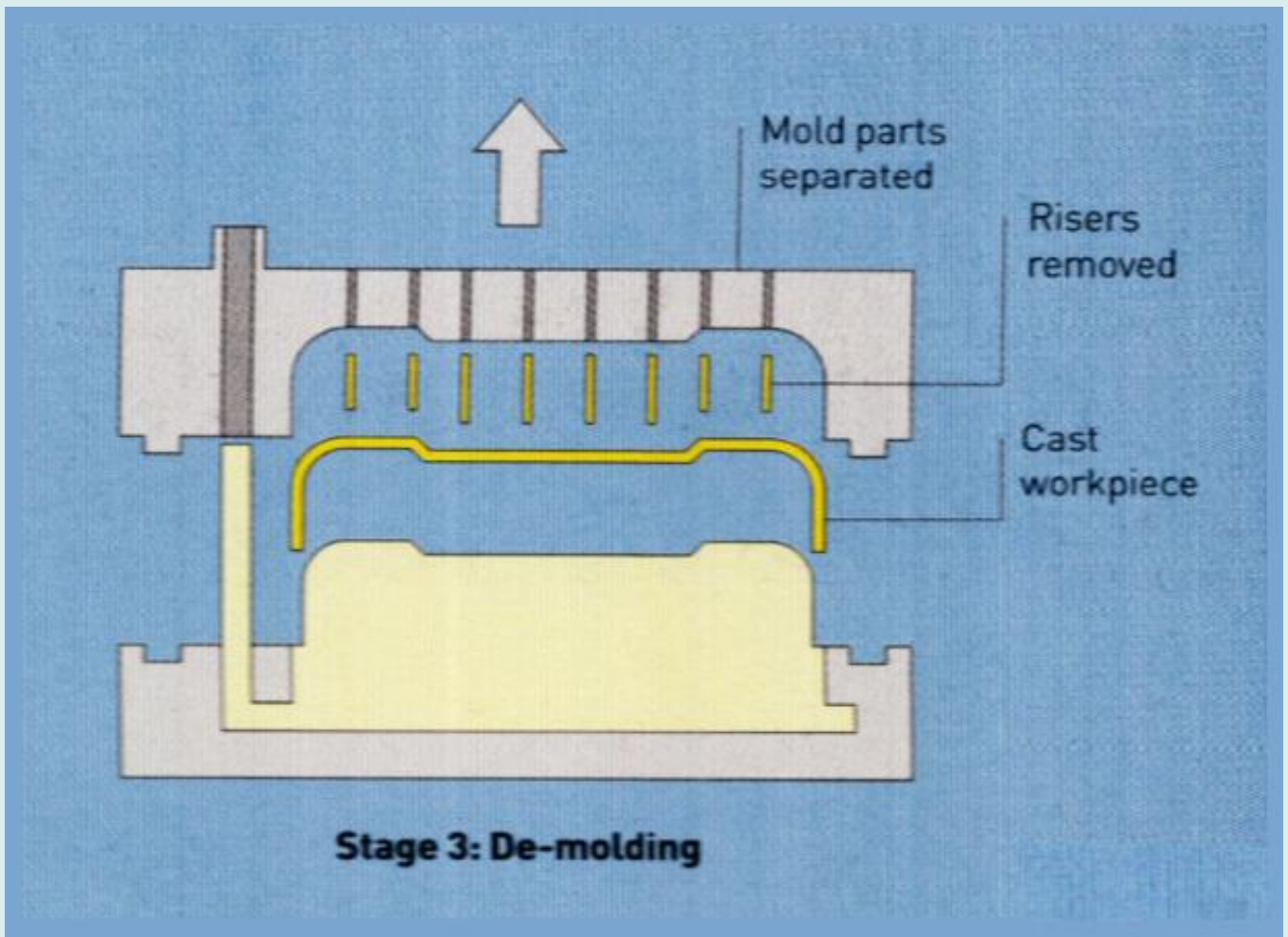


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Process Procedure

4, According to part size, Cooling half an hour to 4 hours

5, De-molding & Get the part





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Process Procedure

6. Trim, polish, painting etc. after treatment if required





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Vacuum Casting Parts Reference





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TOGETHER WE CAN MAKE A DIFFERENCE



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Thank You