

SUCCESS STORY

LOAD RECALCULATION - OTHER BRAND HYPER COMPRESSOR

CASE NO.83

APPLICATION DESCRIPTION

Load recalculation for homo- and co-polymer on other brand hyper

Type	Other brand hyper/secondary compressor	Gas	Ethylene
Power	2'600 kW / 3'500 hp	Suction pressure Discharge pressure	230 barg 2'550 barg
Speed	250 rpm	Lubrication	Forced lubrication to cylinder



CUSTOMER ISSUES/NEEDS

- Verify the actual operation conditions and loads on its components
- Evaluate and indicate optimized 1st and 2nd stage design for safe operation
- Define the mechanical balance between the 1st and 2nd stage, at lowest 1st stage suction pressure for each gas composition

BURCKHARDT COMPRESSION SOLUTION

- Analyse the actual design and safety settings of the existing layout considering main drive maximal shaft power
- Indicating possible improvements for the re-balancing between 1st and 2nd stage provides safe operation
- Know-how and experience provided from the market leader in LDPE compressor design.
- Provide fully documented analysis and improvement recommendations

CUSTOMER BENEFITS

- Know the actual loads on the components and showing ways for its optimized distribution
- Optimizing the maximum flow for each operating case
- Receive the recommendation for optimized loads on the yoke and increased compressor safety.
- Increase operational safety and improve compressor performance



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ENDLESSLY**



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SCHEDULE PLANT
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AND LONGEST LIFETIME

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components

Hyper/secondary compressor
components

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diagnostics

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