

Project: Cleaning of machine frames before Painting



Task:

At a machine manufacturer, complex machine frames of various sizes have to be freed from oily emulsions before painting.

This applies in particular to bores and blind bores with threads, in which larger quantities of emulsions accumulate.

The method used to date of drying the components in an oven for 24 hours produces only unsatisfactory results. In places that are insufficiently dried, the paint comes off again after painting.



HTK-Vent solution:

By using the Air Knife, the component can be cleaned within 10 minutes. Within 12 hours of using the Air Knife, the components are dried to ambient conditions.

The drying process is facilitated by the use of a high-pressure blower, which heats the air flowing out of the Air Knife to 50 - 60 °C. The Air Knife system can also be used to dry the components.

By using an Air Knife system with a high-pressure blower, the drying time can be significantly reduced. This simultaneously reduces the energy consumption for the drying process.

The throughput time in production is also significantly reduced.

**Result:**

The customer was highly satisfied and asked HTK-Vent to install this system also in the other production facilities.