



Fraunhofer

TESTED[®] DEVICE

hawo GmbH Vakuum-Impuls-
Schweißgerät hv 460 AP/V
Report No. HA 0810-453

DUPLICATE

Qualification Certificate

This is to certify that the products mentioned below manufactured by the company

hawo GmbH

Obere Au 2-4
D-74847 Obrigheim

has been awarded a Fraunhofer IPA Qualification Seal bearing the report number HA 0810-453.

The vacuum impulse welding machine hv 460 APV is suitable for use in cleanrooms fulfilling the specifications of Air Cleanliness Class ISO Class 6 (according to ISO 14644-1).

Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report compiled by the Fraunhofer-Gesellschaft.

The duration of the validity of this certificate is unlimited. For further information visit our website at www.ipa-qualification.com.

Stuttgart, Germany, January 13th 2009

i. A. 
Signature project manager



Fraunhofer Institut
Produktionstechnik und
Automatisierung