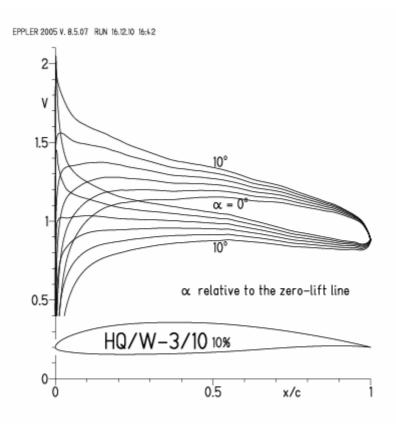
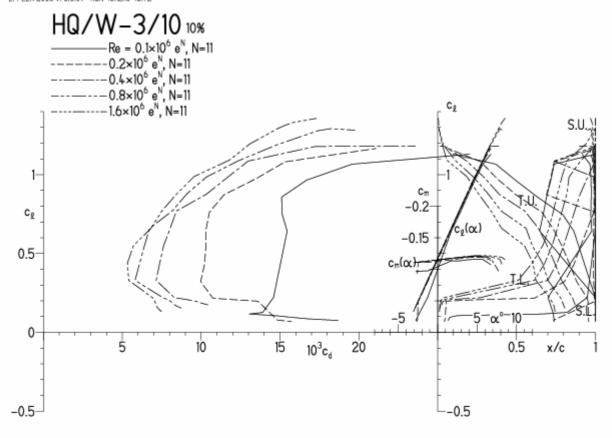
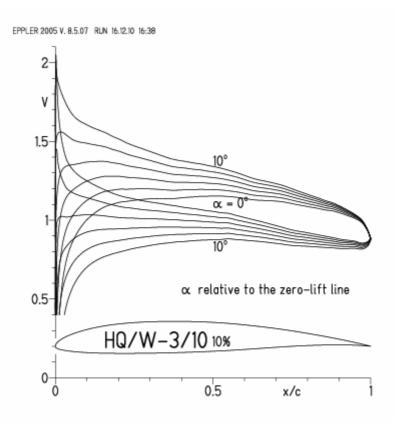
## HQ/W-3/10, N=11



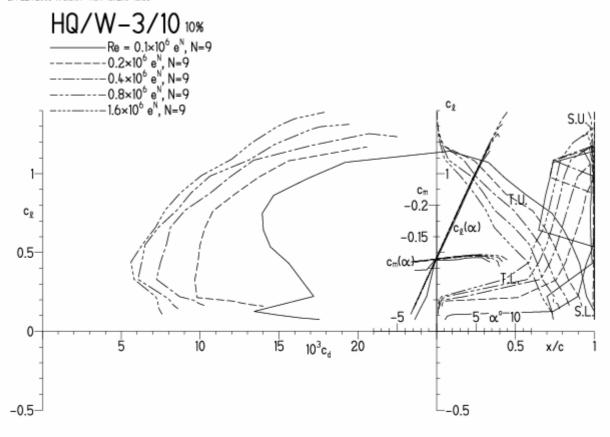
EPPLER 2005 V. 8.5.07 RUN 16.12.10 16:42



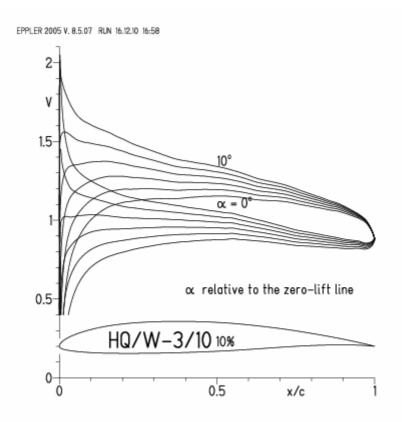
### HQ/W-3/10, N=9



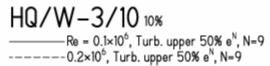
EPPLER 2005 V. 8.5.07 RUN 16.12.10 16:38

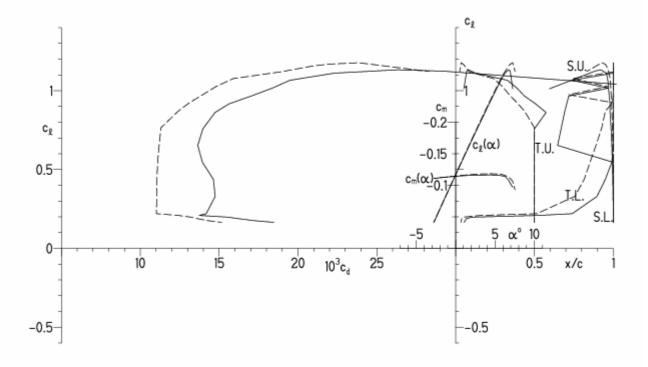


### HQ/W-3/10, N=9, Turbulatoreffekt bei niedrigen Re-Zahlen



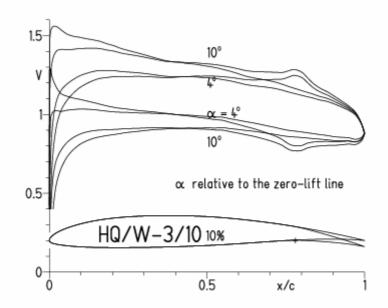
EPPLER 2005 V. 8.5.07 RUN 16.12



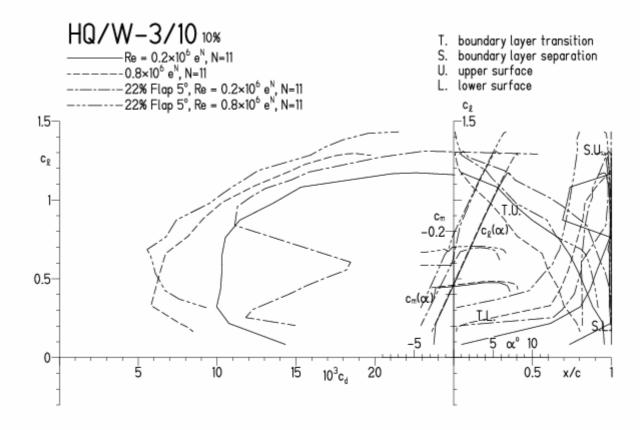


#### HQ/W-3/10, N=11, mit 5° Wölbklappenausschlag

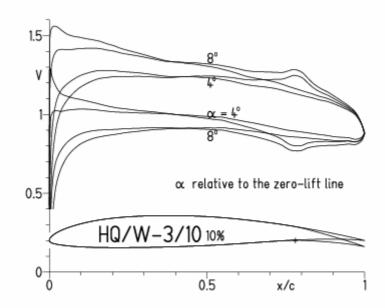
EPPLER 2005 V. 8.5.07 RUN 16.12.10 17:40



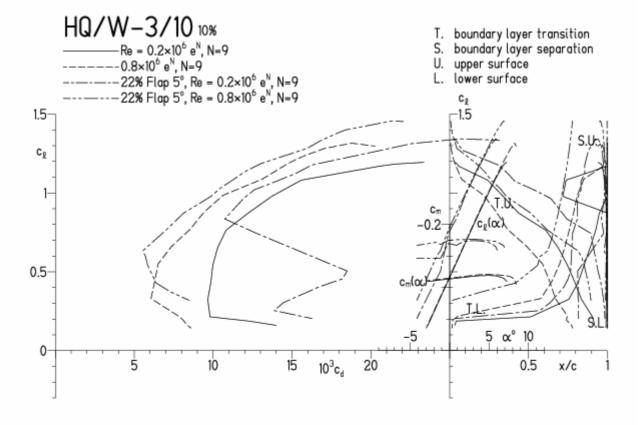
EPPLER 2005 V. 8.5.07 RUN 16.12.10 17:40



EPPLER 2005 V. 8.5.07 RUN 16.12.10 17:52

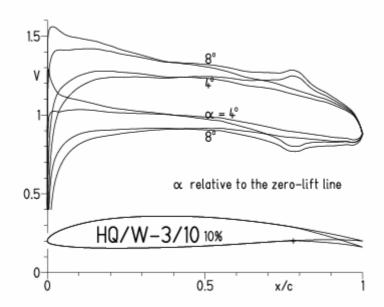


EPPLER 200

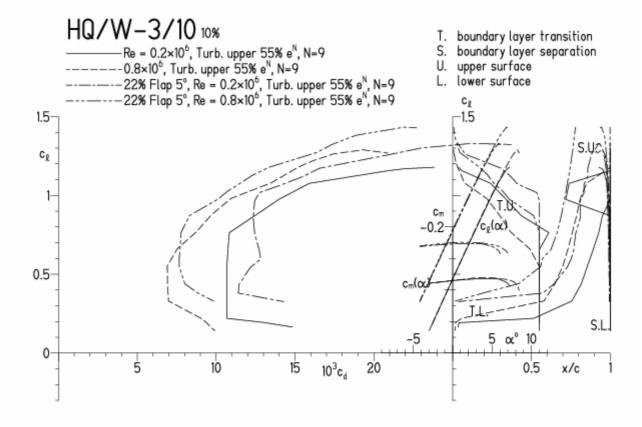


# <u>HQ/W-3/10</u>, N=9, mit 5° Wölbklappenausschlag, Turbulatoreffekt (optimale Turbulatorposition bei 50% - 60% der Profiltiefe)

EPPLER 2005 V. 8.5.07 RUN 16.12.10 17:57

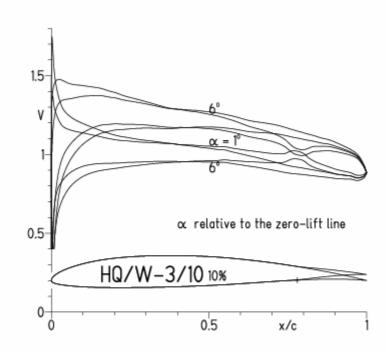


EPPLER 2005 V. 8.5.07 RUN 16.12.10 17:57

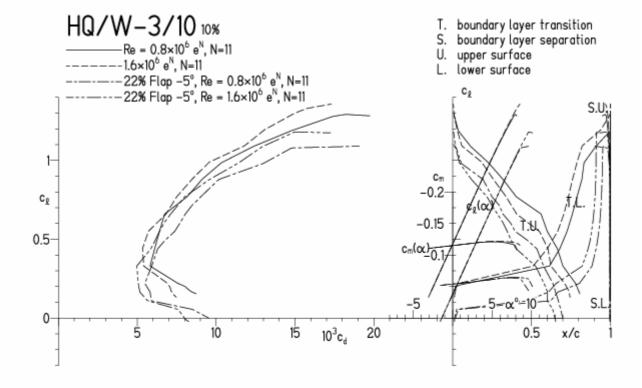


#### HQ/W-3/10, N=11, mit -5° Wölbklappenausschlag (Schnellflug)

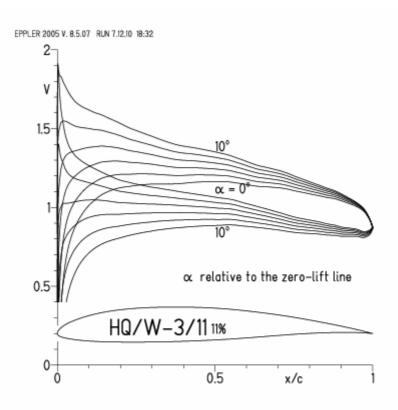




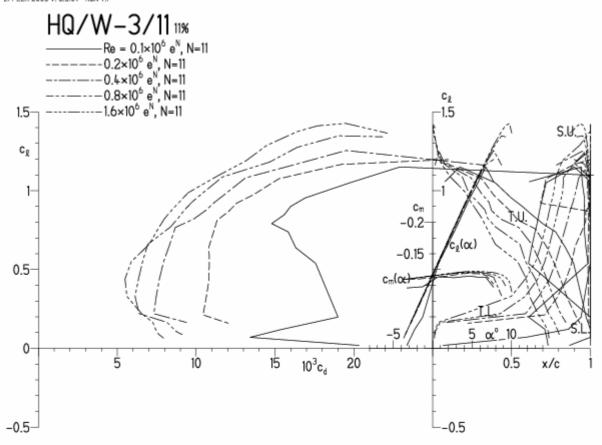
EPPLER 2005 V. 8.5.07 RUN 23.12.10 12:04



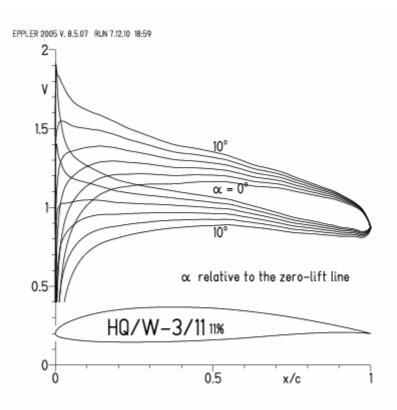
## HQ/W-3/11, N=11



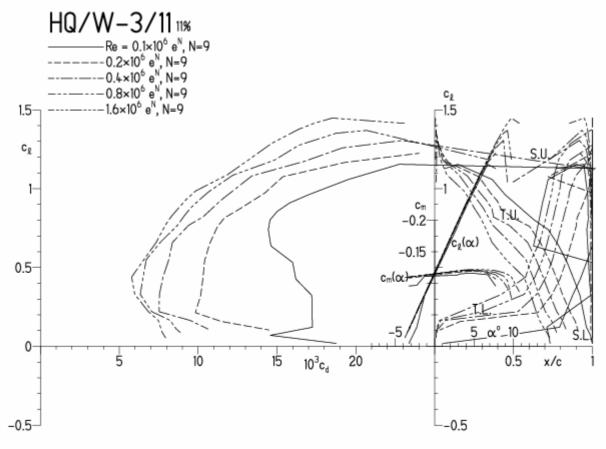
EPPLER 2005 V. 8.5.07 RUN 7.1

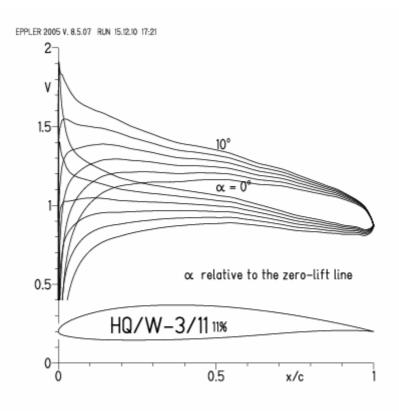


## HQ/W-3/11, N=11



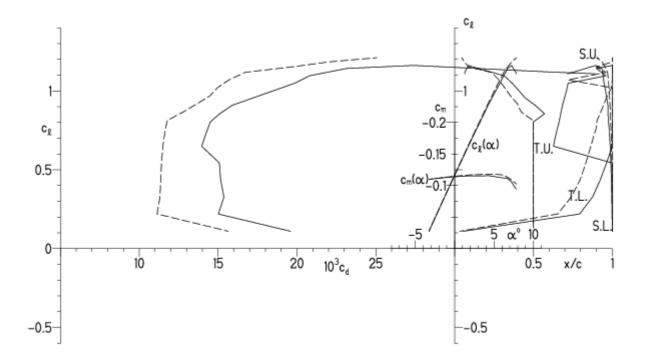
EPPLER 2005 V. 8.5.07 RUN 7.12.10 1



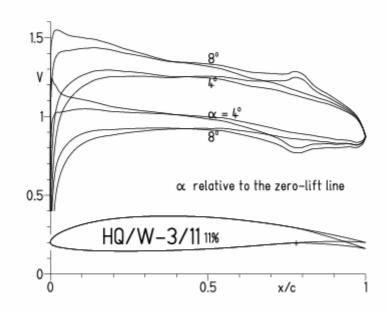


EPPLER 2005 V. 8.5.07 RUN 15.12.10 17:21

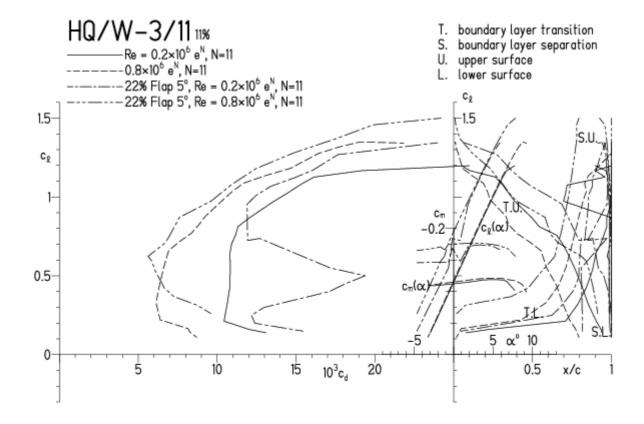
# HQ/W-3/11 11% ——Re = 0.1×10<sup>6</sup>, Turb. upper 50% e<sup>N</sup>, N=9 ----0.2×10<sup>6</sup>, Turb. upper 50% e<sup>N</sup>, N=9



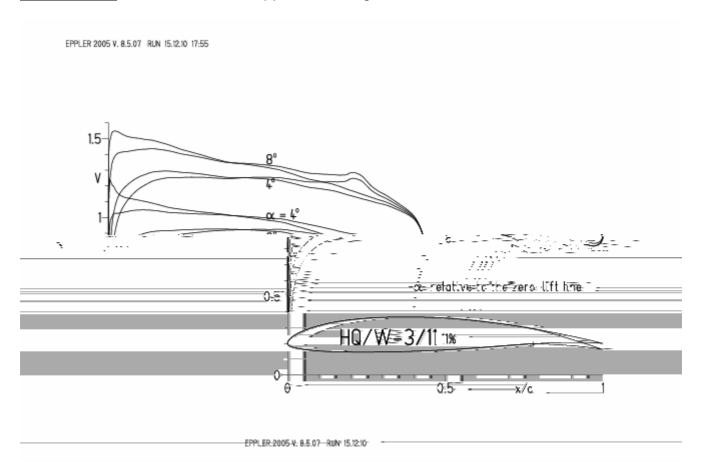
EPPLER 2005 V. 8.5.07 RUN 15.12.10 17:51



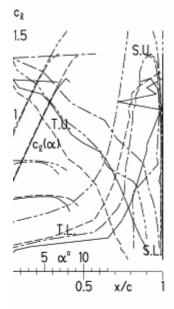
EPPLER 2005 V. 8.

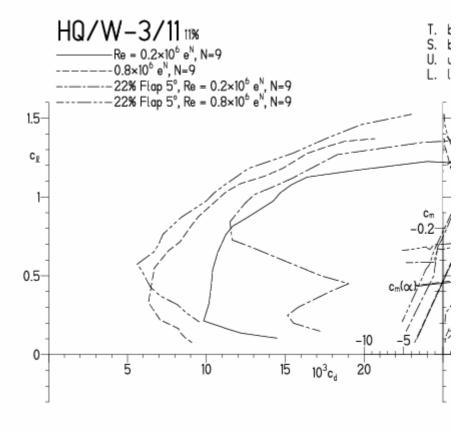


#### HQ/W-3/11, N=9, mit 5° Wölbklappenausschlag



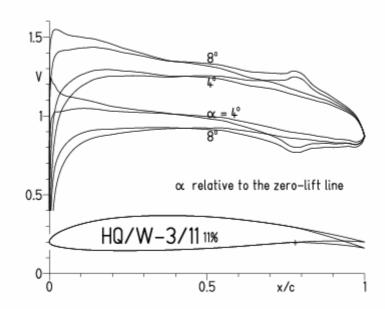
coundary layer transition coundary layer separation upper surface ower surface



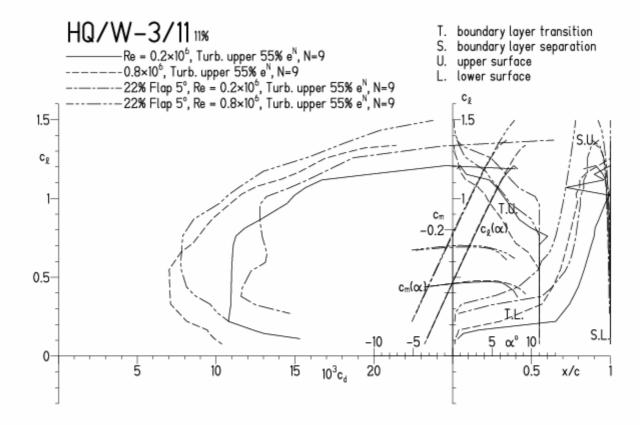


# <u>HQ/W-3/11</u>, N=9, mit 5° Wölbklappenausschlag, Turbulatoreffekt (optimale Turbulatorposition bei 50% - 60% der Profiltiefe)

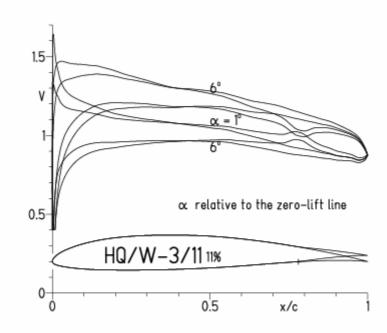
EPPLER 2005 V. 8.5.07 RUN 15.12.10 18:02



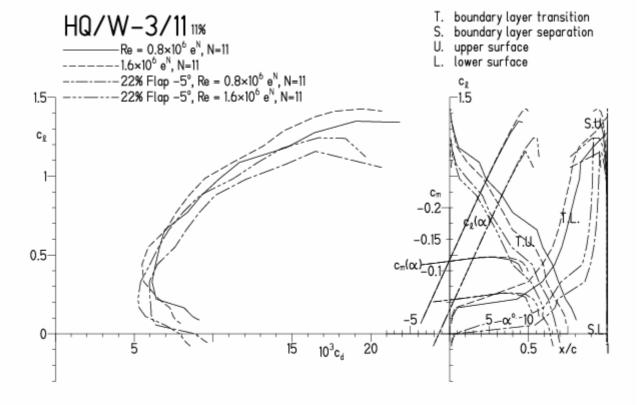
EPPLER 2005 V. 8.5.07 RUN 15.12.10 18:02



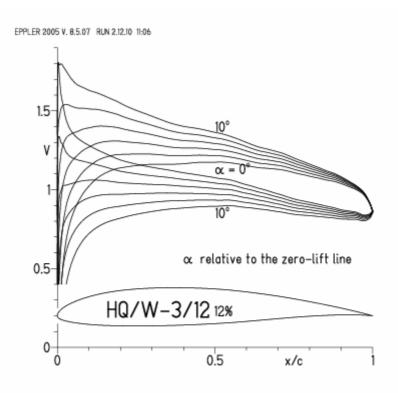




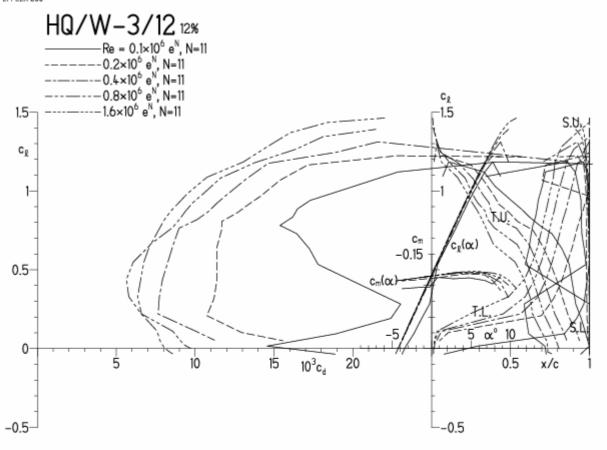
EPPLER 2005 V



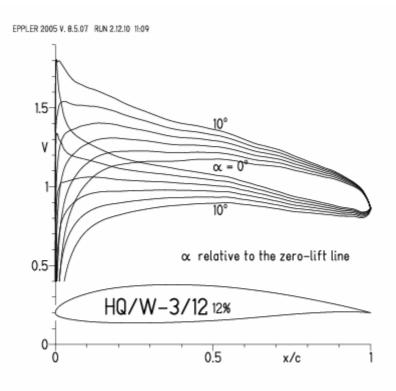
### HQ/W-3/12, N=11



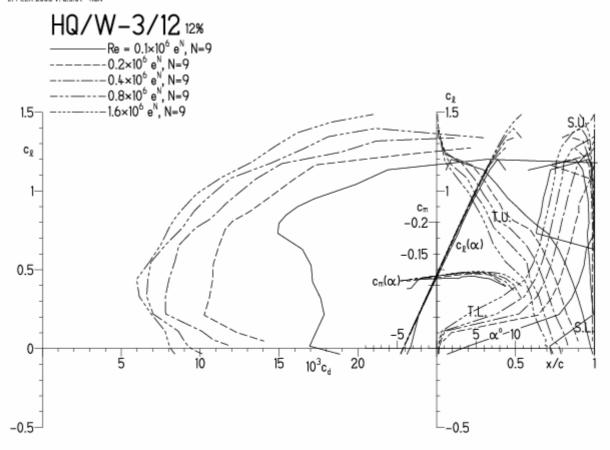
EPPLER 200



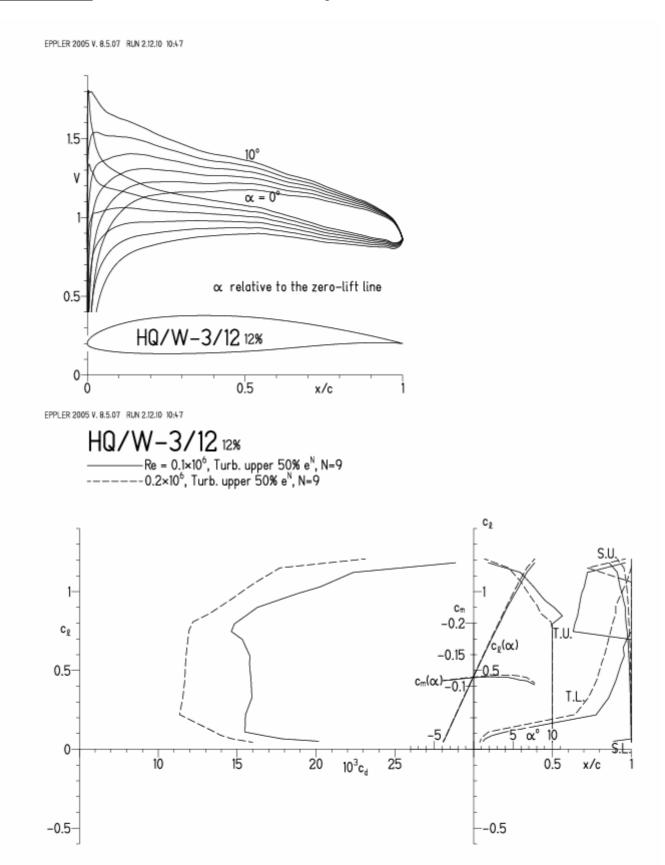
### HQ/W-3-12, N=9



EPPLER 2005 V. 8.5.07 RLN

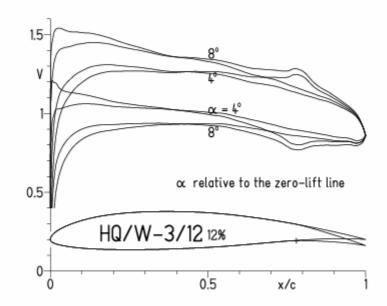


### HQ/W-3/12, N=9, Turbulatoreffekt bei niedrigen Re-Zahlen

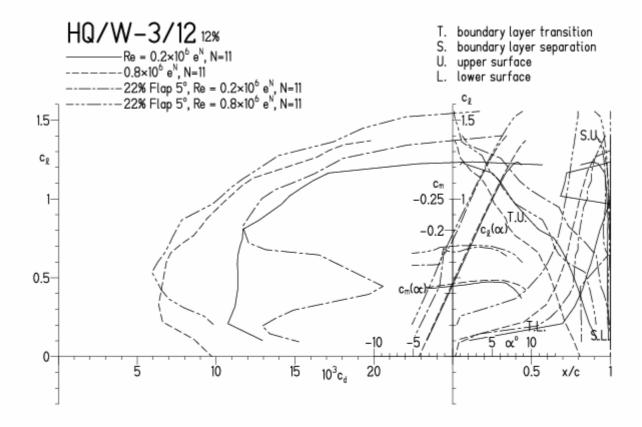


#### HQ/W-3/12, N=11, mit 5° Wölbklappenausschlag

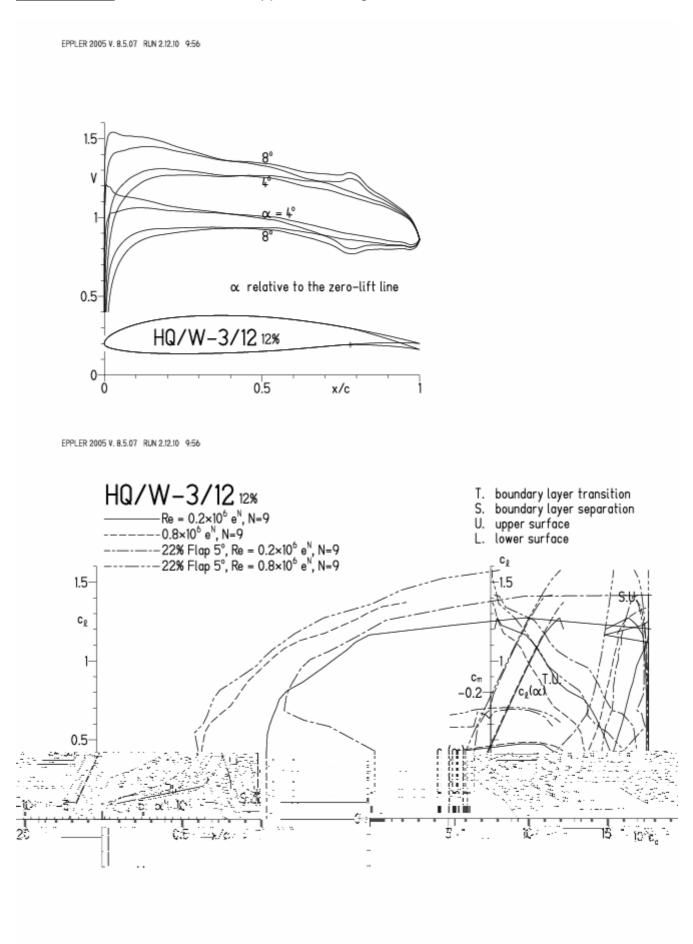
EPPLER 2005 V. 8.5.07 RUN 15.12.10 18:09



EPPLER 2005 V. 8.

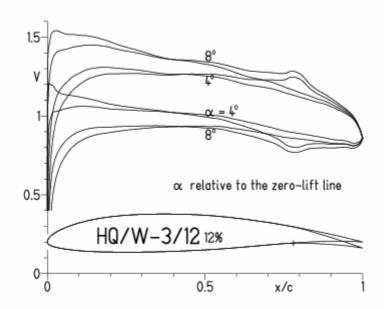


#### HQ/W-3/12, N=9, mit 5° Wölbklappenausschlag

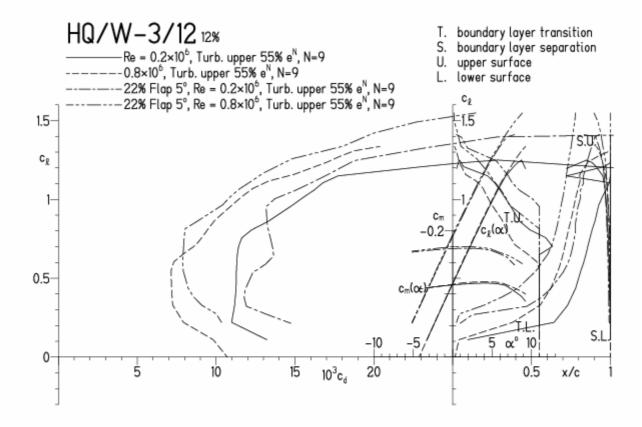


# <u>HQ/W-3/12</u>, N=9, mit 5° Wölbklappenausschlag, Turbulatoreffekt (optimale Turbulatorposition bei 50% - 60% der Profiltiefe)

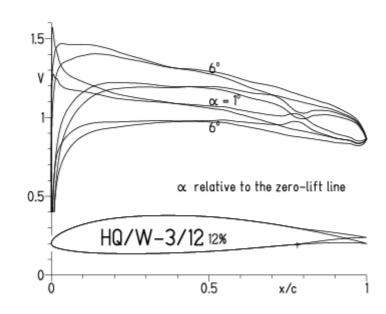
EPPLER 2005 V. 8.5.07 RUN 29.3.10 13:40



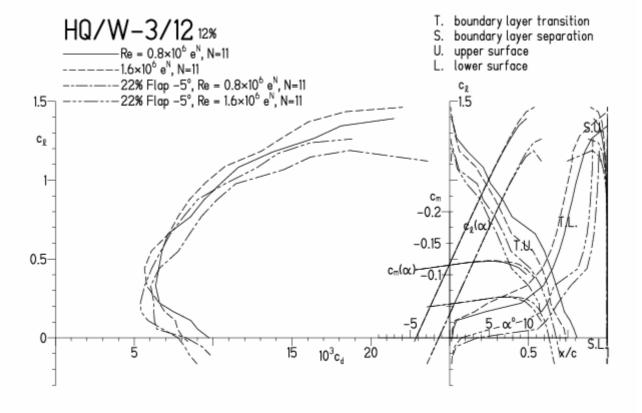
EPPLER 2005 V. 8.5.07 RUN 29.3.10 13:40



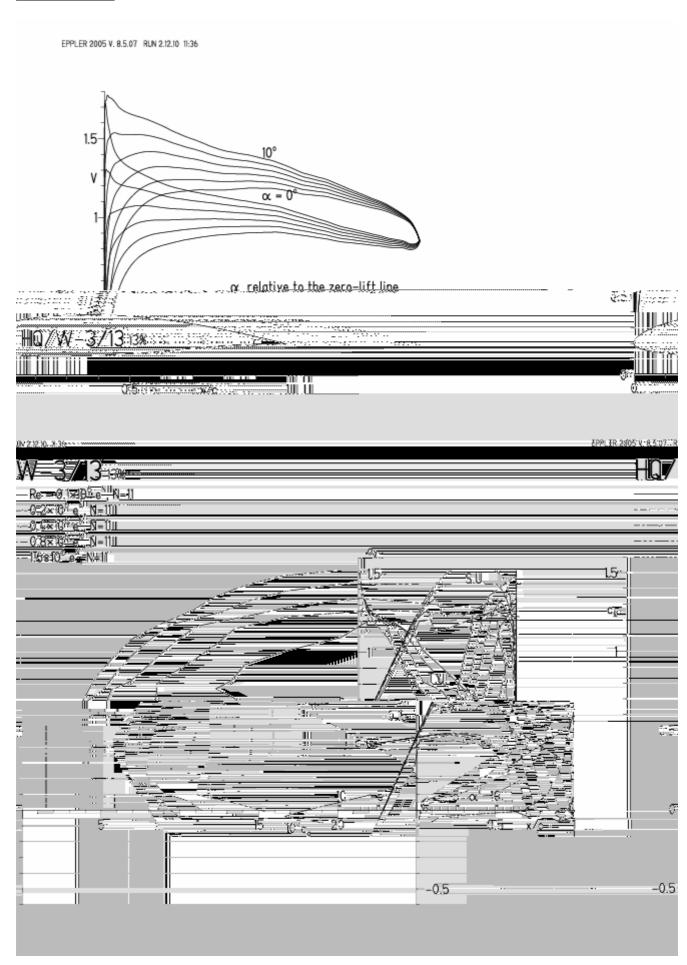




EPPLER

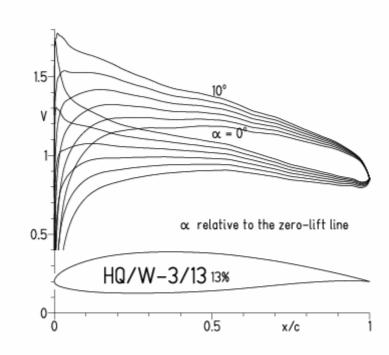


### HQ/W-3/13, N=11

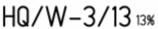


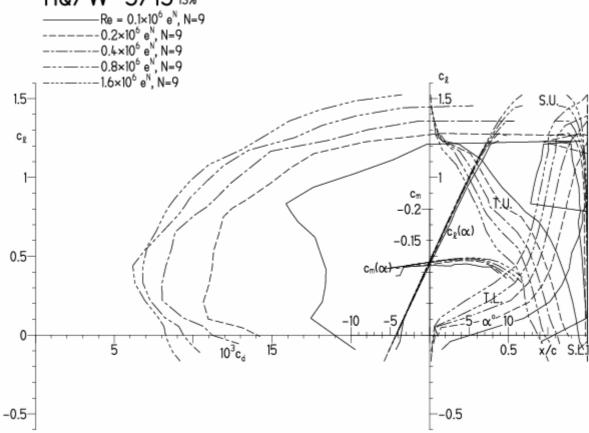
### HQ/W-3/13, N=9

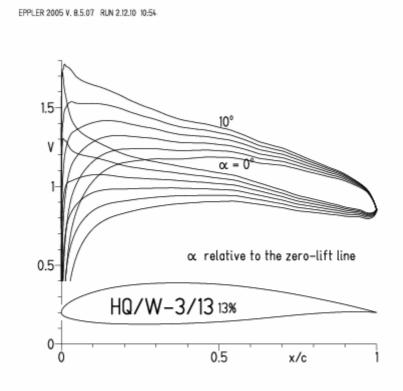




EPPLER 2005 V. 8.5.07 RUN 2.12.10 11:39

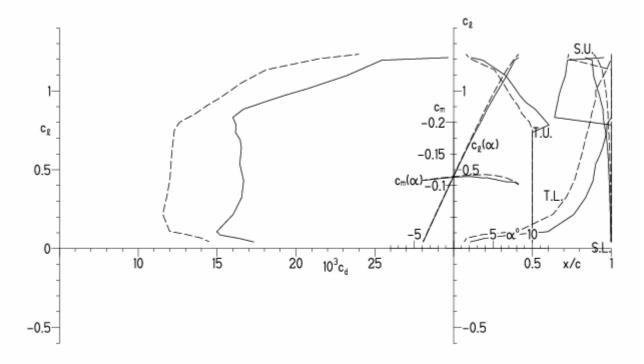




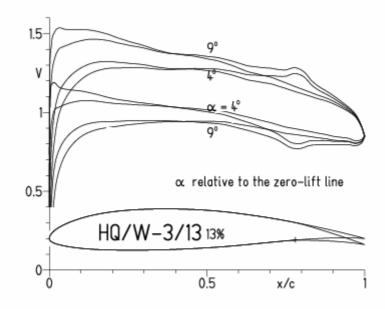


EPPLER 2005 V. 8.5.07 RUN 2.12.10 1

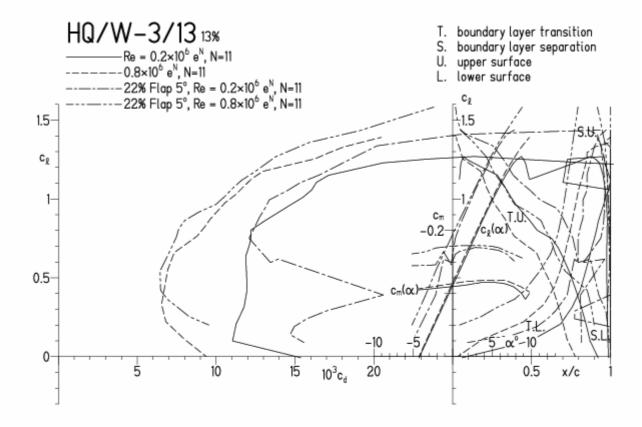
#### HQ/W-3/13 13% ————Re = 0.1×10<sup>6</sup>, Turb. upper 50% e<sup>N</sup>, N=9 ----0.2×10<sup>6</sup>, Turb. upper 50% e<sup>N</sup>, N=9



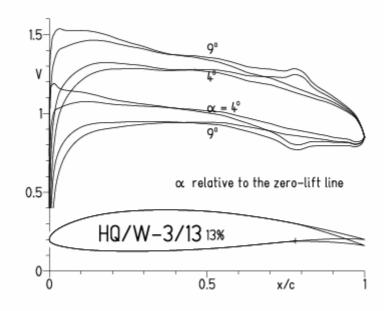




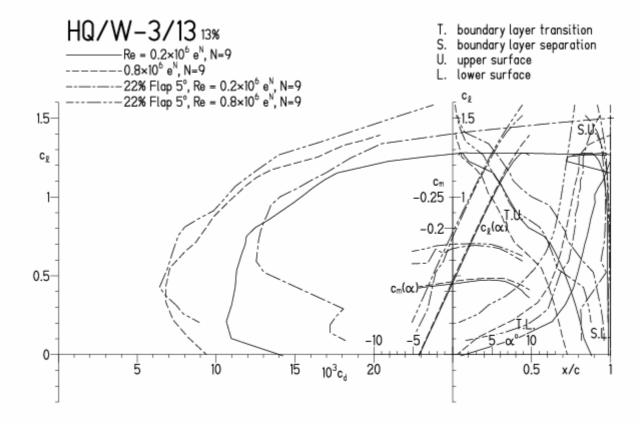
EPPLER 2005 V. 8.5.





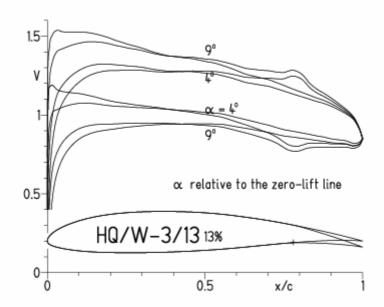


EPPLER 2005 V. 8.5.07 RUN 2.12.10 12:12

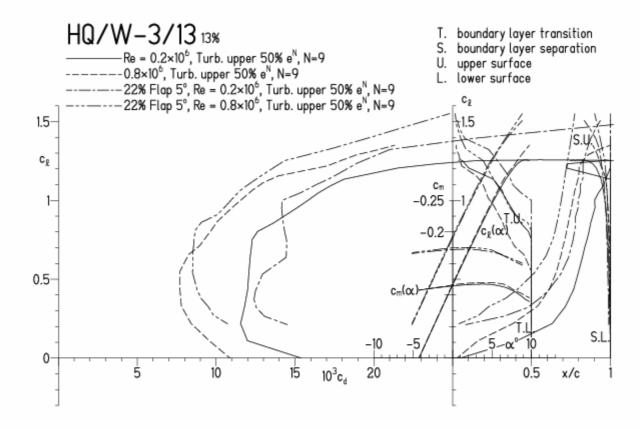


# <u>HQ/W-3/13</u>, N=9, mit 5° Wölbklappenausschlag, Turbulatoreffekt (optimale Turbulatorposition bei 50% - 60% der Profiltiefe)

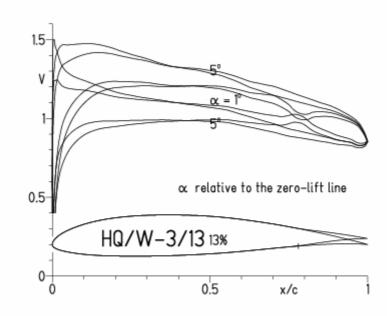
EPPLER 2005 V. 8.5.07 RUN 2.12.10 12:16



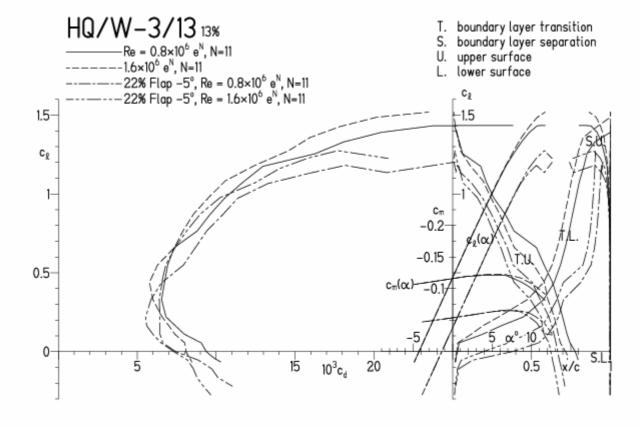
EPPLER 2005 V. 8.



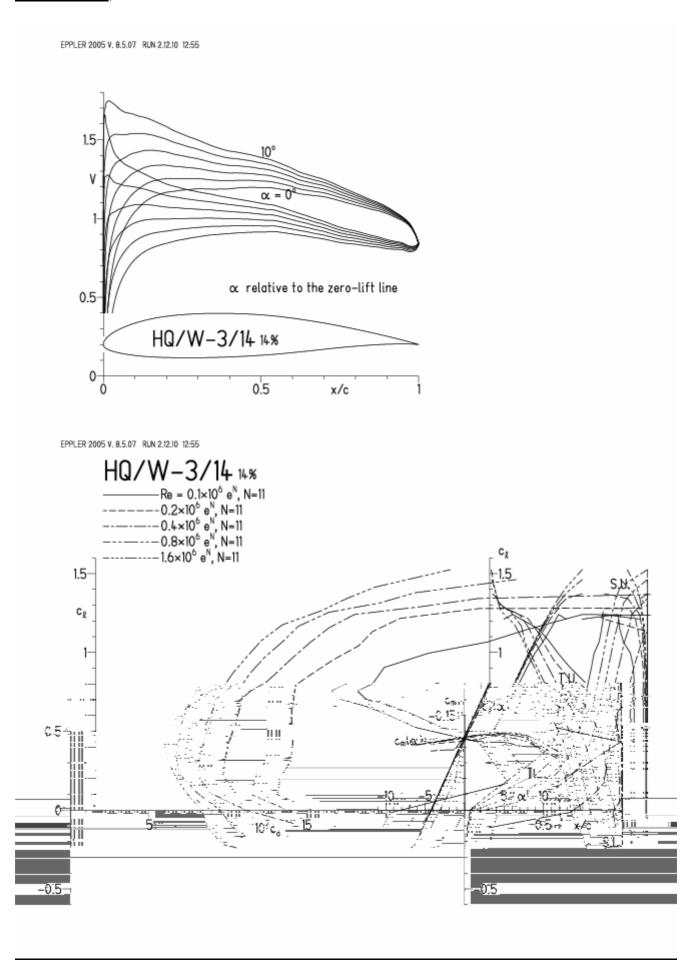




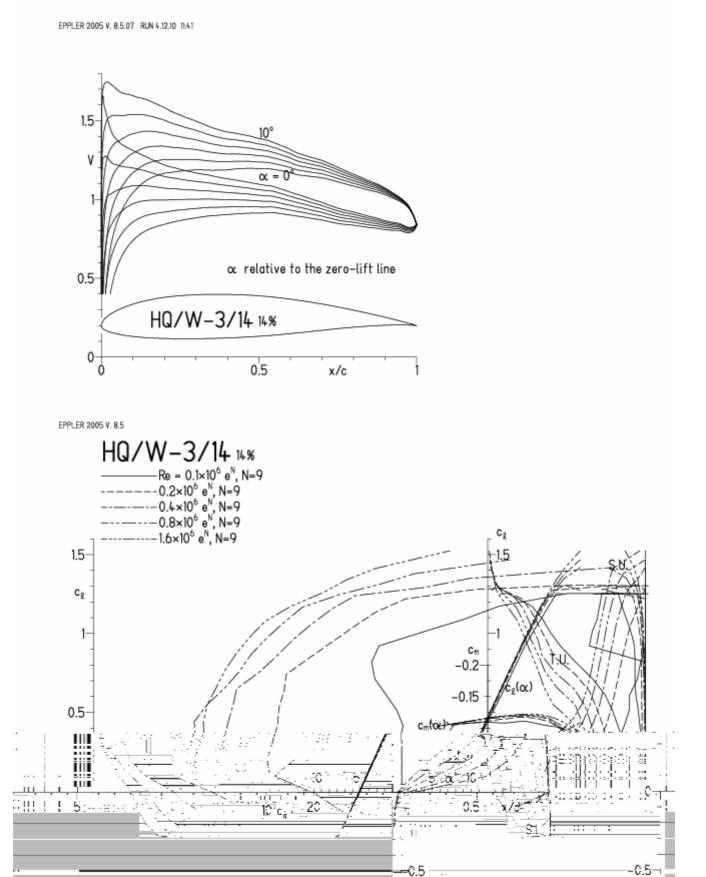
EPPLER 2005



## HQ/W-3/14, N=11

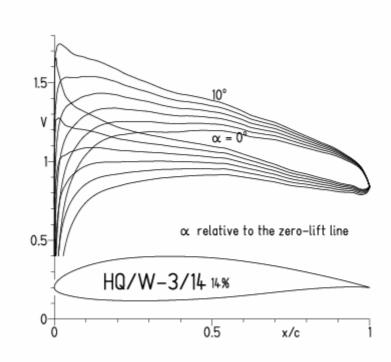


### HQ/W-3/14, N=9



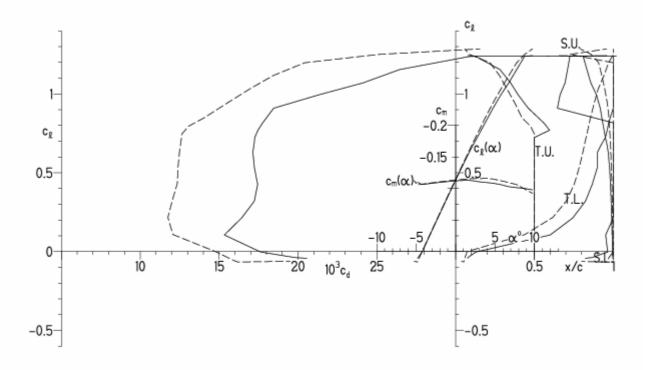
### HQ/W-3/14, N=9, Turbulatoreffekt



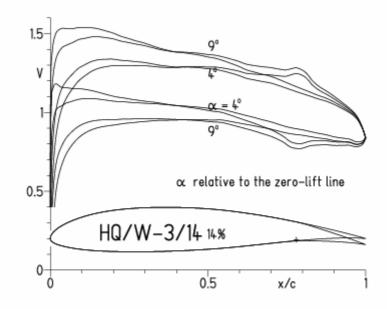


EPPLER 2005 V. 8.5.07 RUN 2.12.10 13:

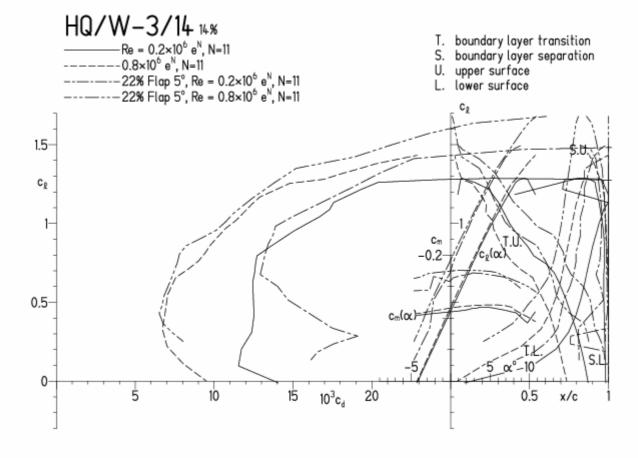
# HQ/W-3/14 14% ——Re = 0.1×10<sup>6</sup>, Turb. upper 50% e<sup>N</sup>, N=9 ----0.2×10<sup>6</sup>, Turb. upper 50% e<sup>N</sup>, N=9

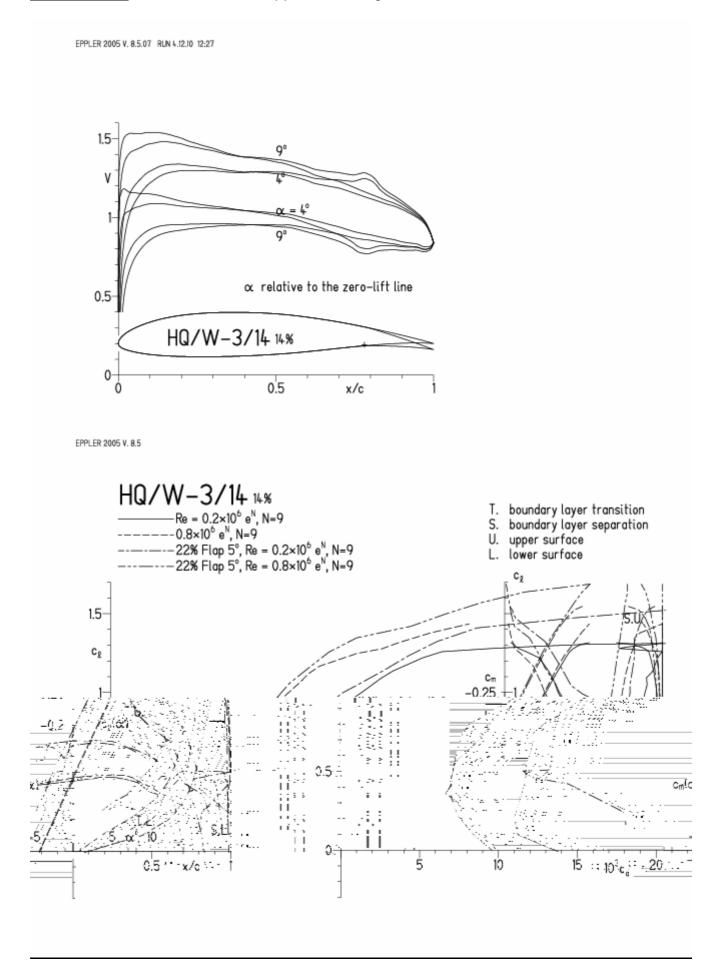






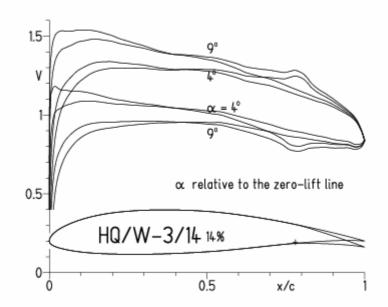
EPPLER 2005 V. 8.5.07 RUN 4.12.10 12-



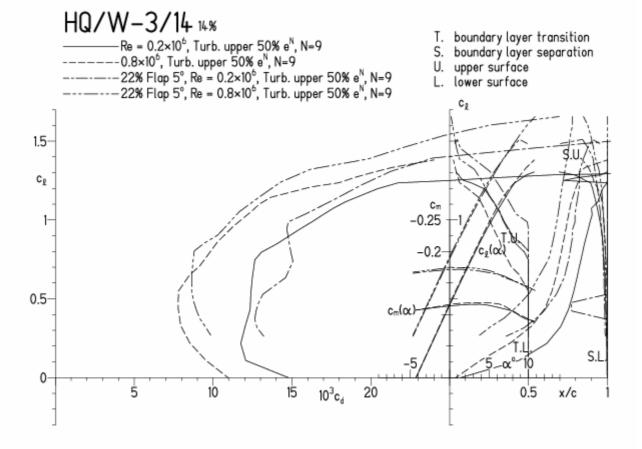


# <u>HQ/W-3/14</u>, N=9, mit 5° Wölbklappenausschlag, Turbulatoreffekt (optimale Turbulatorposition bei 50% - 60% der Profiltiefe)

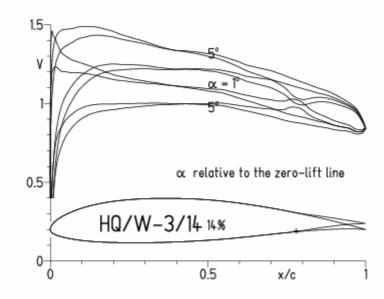
EPPLER 2005 V. 8.5.07 RUN 4.12.10 12:33



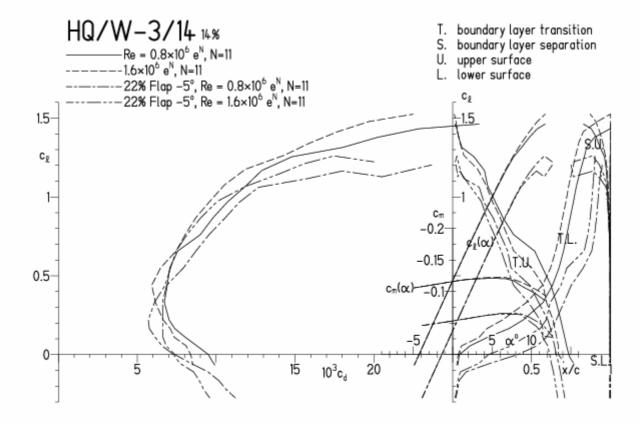
EPPLER 2005 V. 8.5.07 RUN 4.12.1

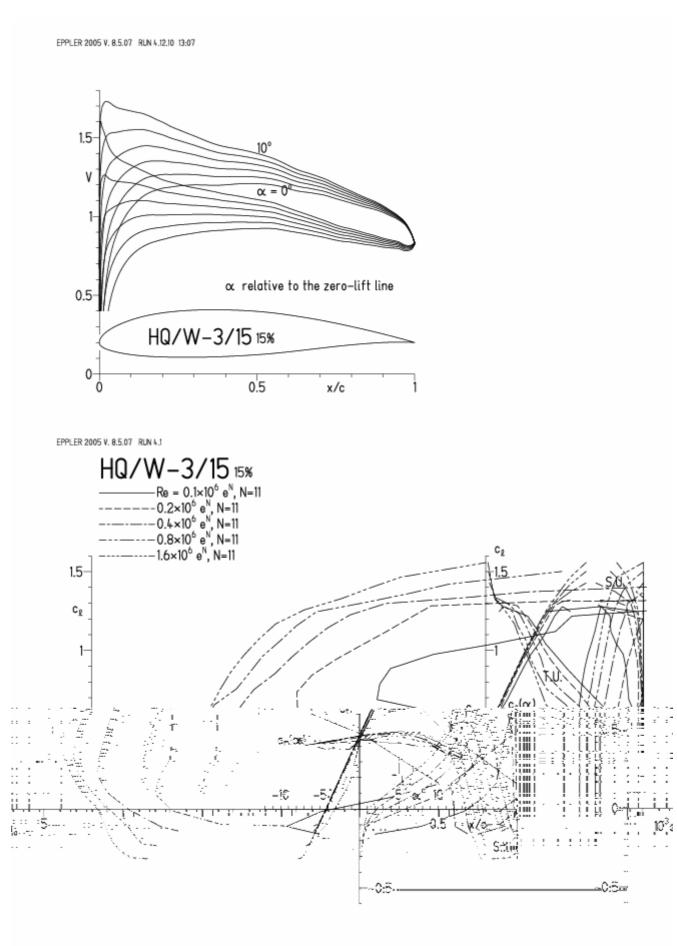




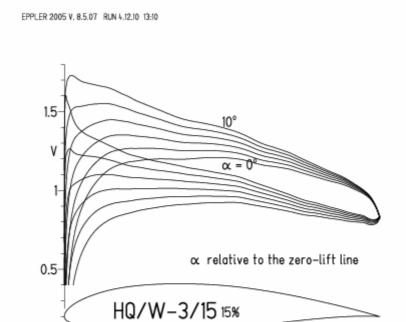


EPPLER 2005 V. 8.5.07 RUN 4.12.1





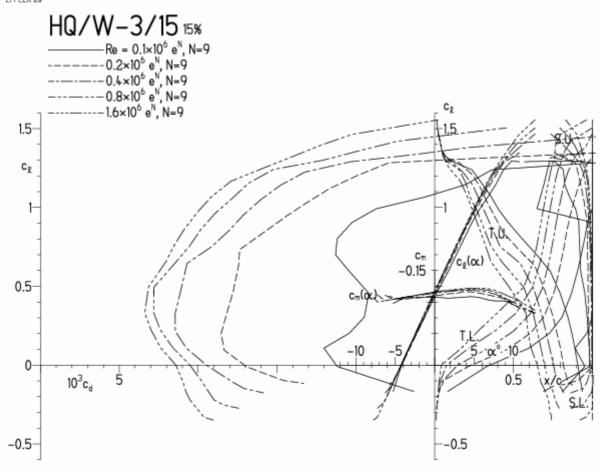
### HQ/W-3/15, N=9



0.5

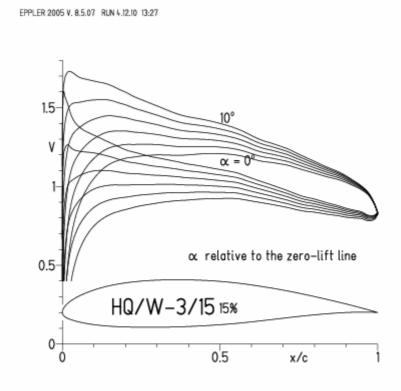


0



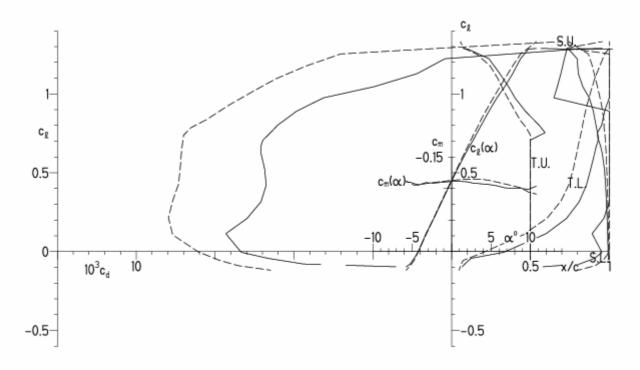
x/c

### HQ/W-3/15, N=9, Turbulatoreffekt

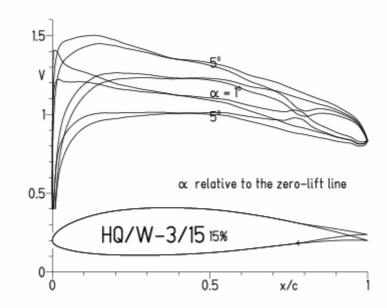


EPPLER 2005 V

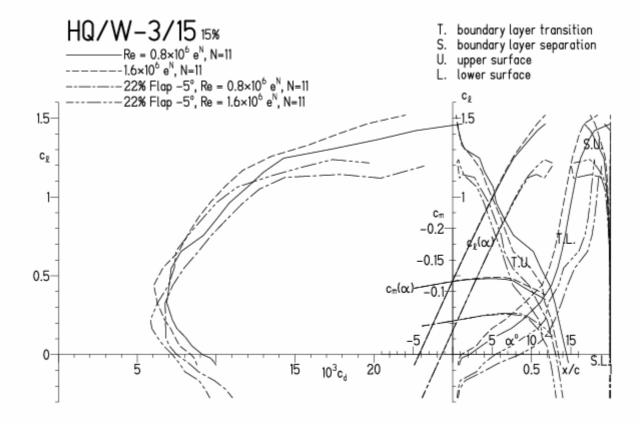
# HQ/W-3/15 15% ——Re = 0.1×10<sup>6</sup>, Turb. upper 50% e<sup>N</sup>, N=9 ----0.2×10<sup>6</sup>, Turb. upper 50% e<sup>N</sup>, N=9



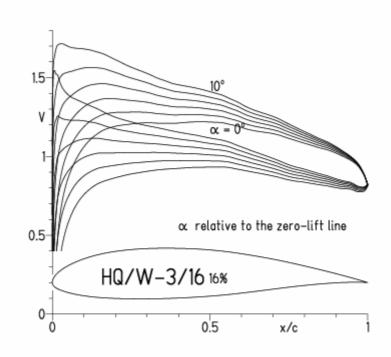




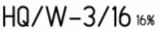
EPPLER 2005 V. 8.

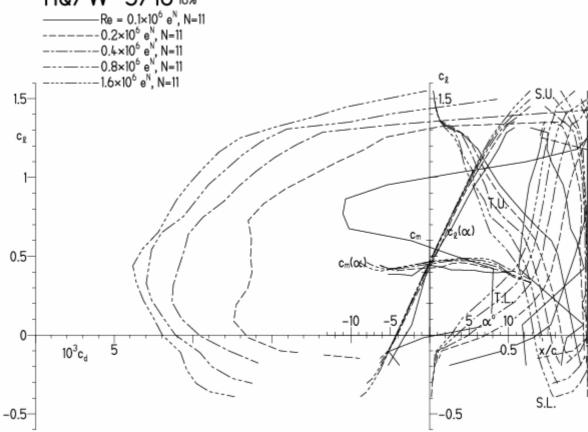






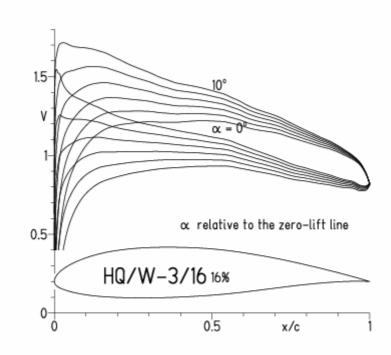
EPPLER 2005 V. 8.5.07 RUN 5.12.10 11:50



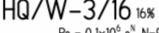


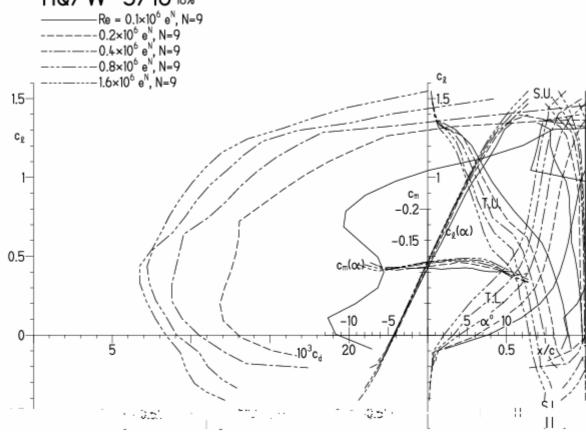
## HQ/W-3/16, N=9



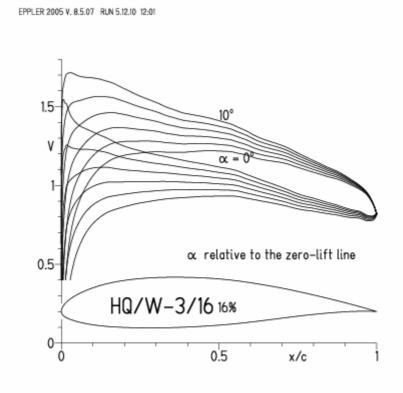


EPPLER 2005 V. 8.5.07 RUN 5.12.10 11:53



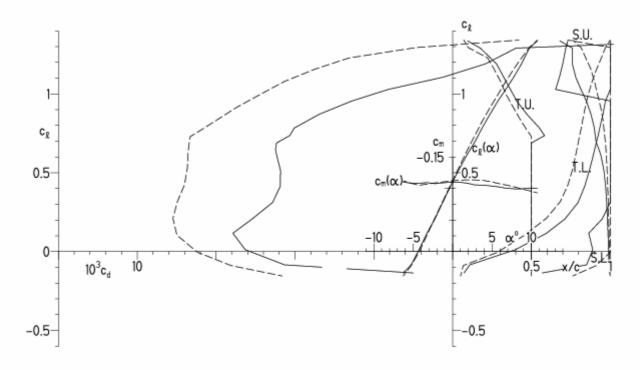


### HQ/W-3/16, N=9, Turbulatoreffekt



EPPLER 200

# HQ/W-3/16 16% ——Re = 0.1×10<sup>6</sup>, Turb. upper 50% e<sup>N</sup>, N=9 ----0.2×10<sup>6</sup>, Turb. upper 50% e<sup>N</sup>, N=9



#### HQ/W-3/16, N=11, mit -5° Wölbklappenausschlag (Schnellflug)

