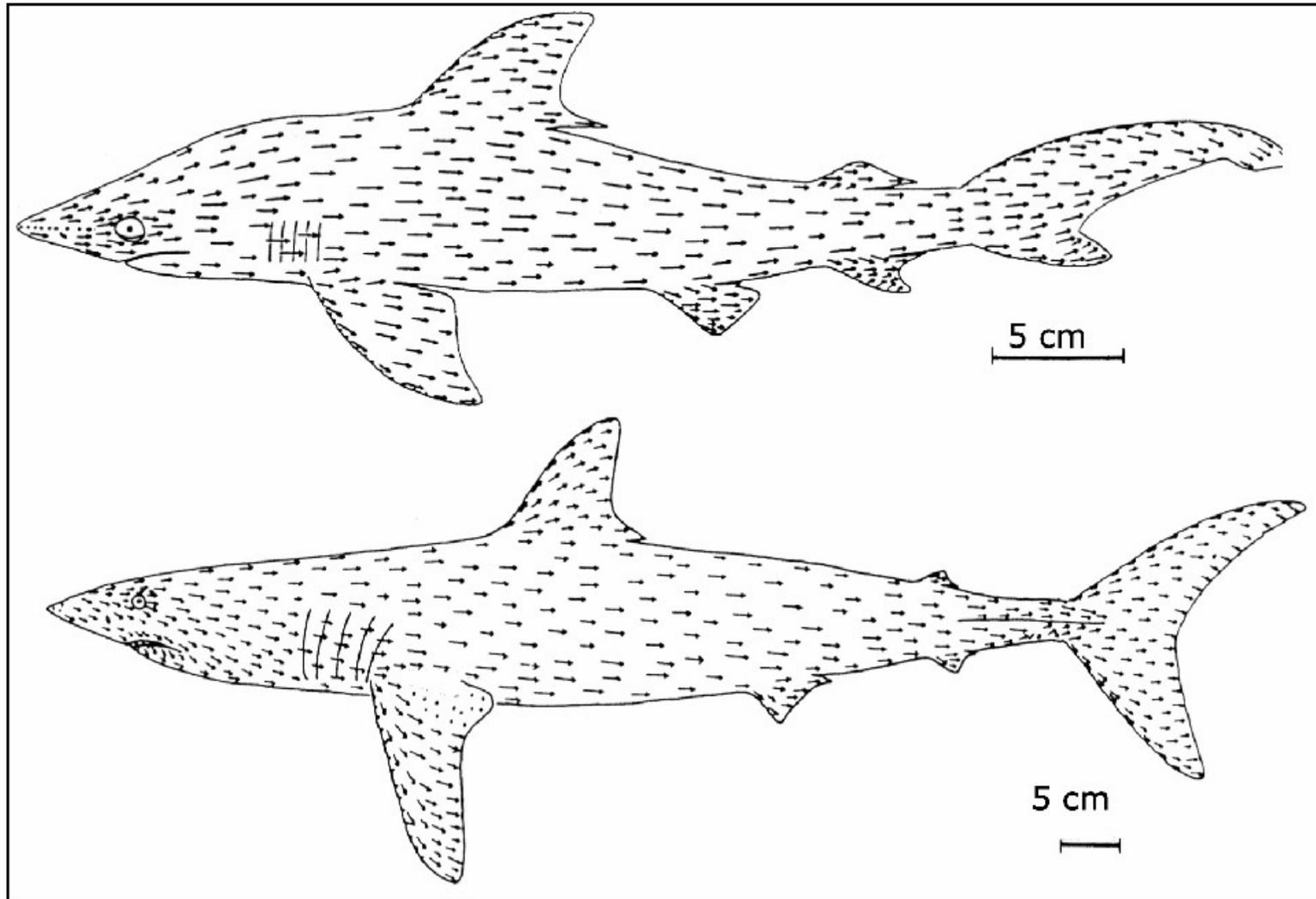
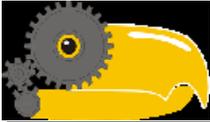
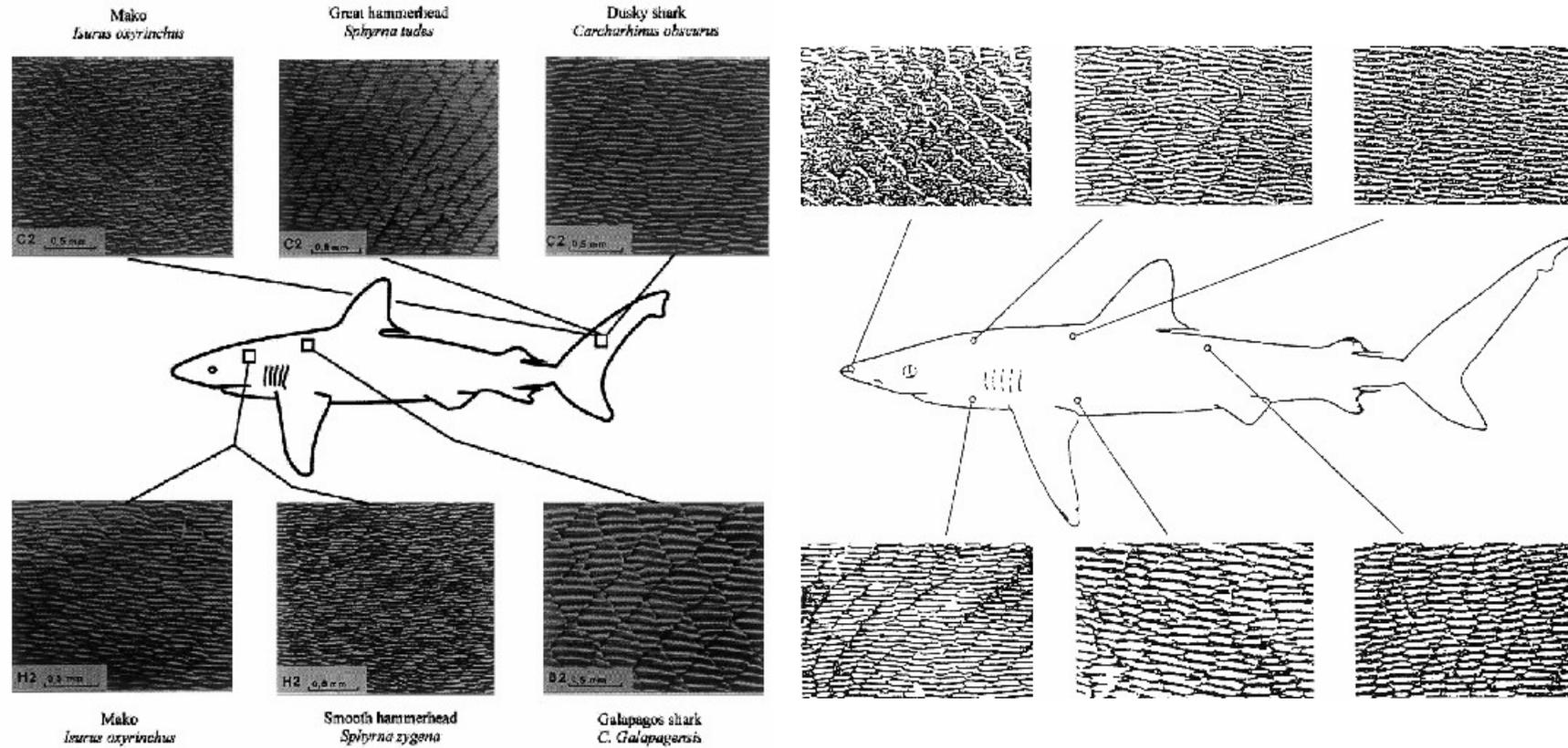
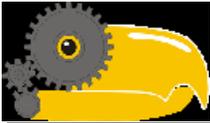


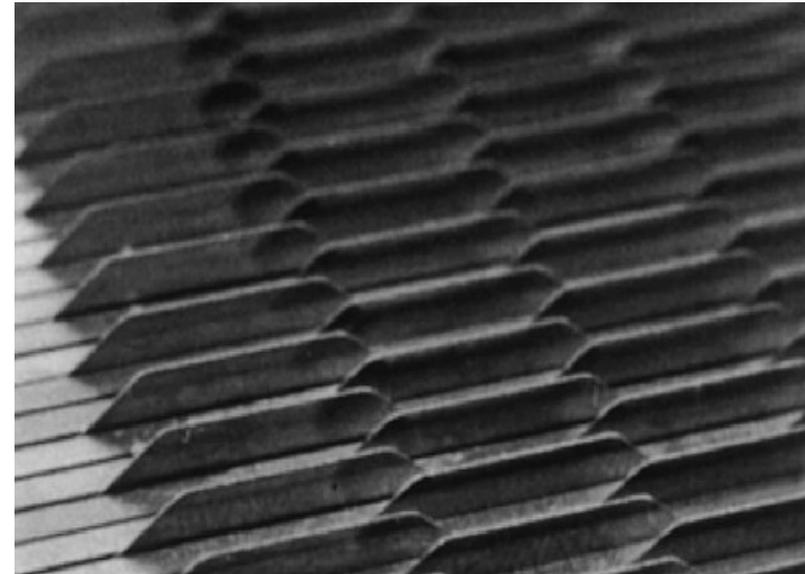
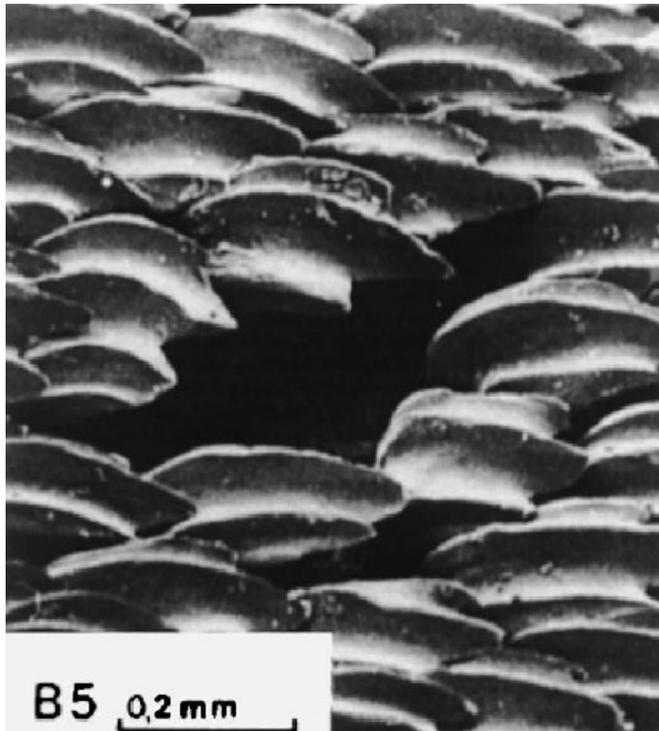
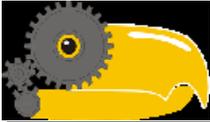
Kurzübersicht über das folgende Kapitel

- Die Haihaut
- Haihaut – Grenzschicht
- Aktive Beeinflussung der Grenzschicht
- Längswirbel auf der Haifischhaut und deren Effekt
- Anwendungen des „Haihaut – Effekts“
- Der Sandfisch



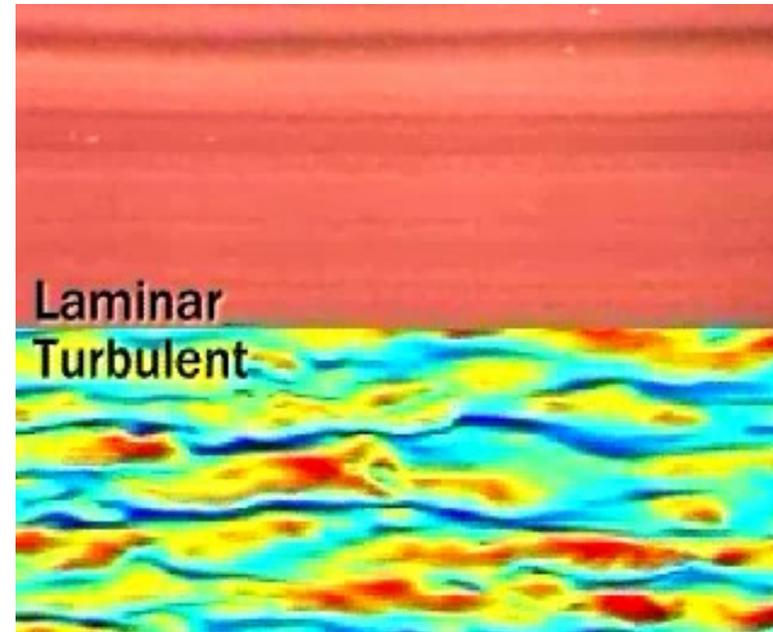
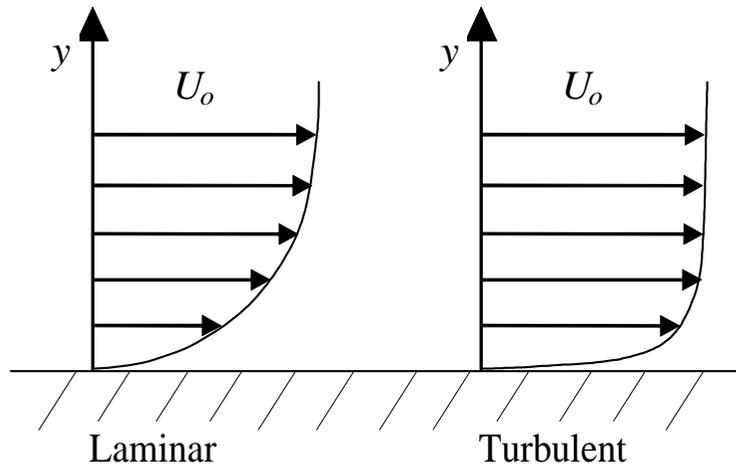
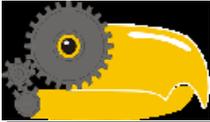






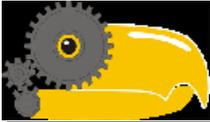
Dreidimensionale Strukturen führen zu größeren Widerstandsminderungen. Beim Haifisch muss die Haut aber andere Funktionen erfüllen.



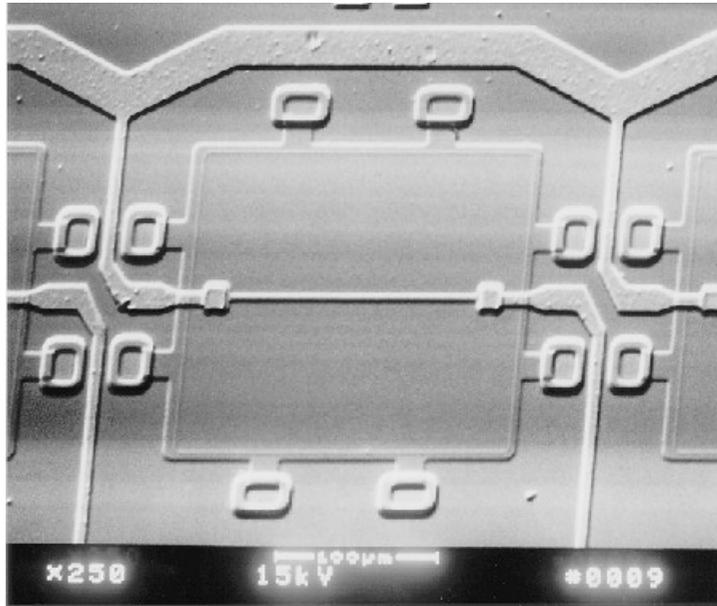


Für die gleiche Außengeschwindigkeit ist die Wandreibung für eine laminare Grenzschicht erheblich kleiner.

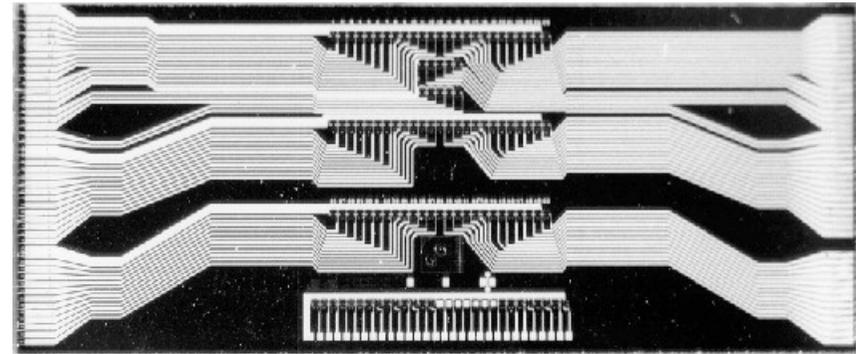




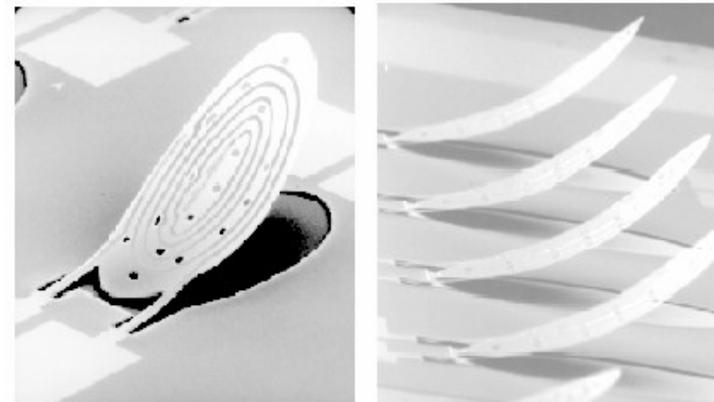
Mikro-Schubspannungssensor

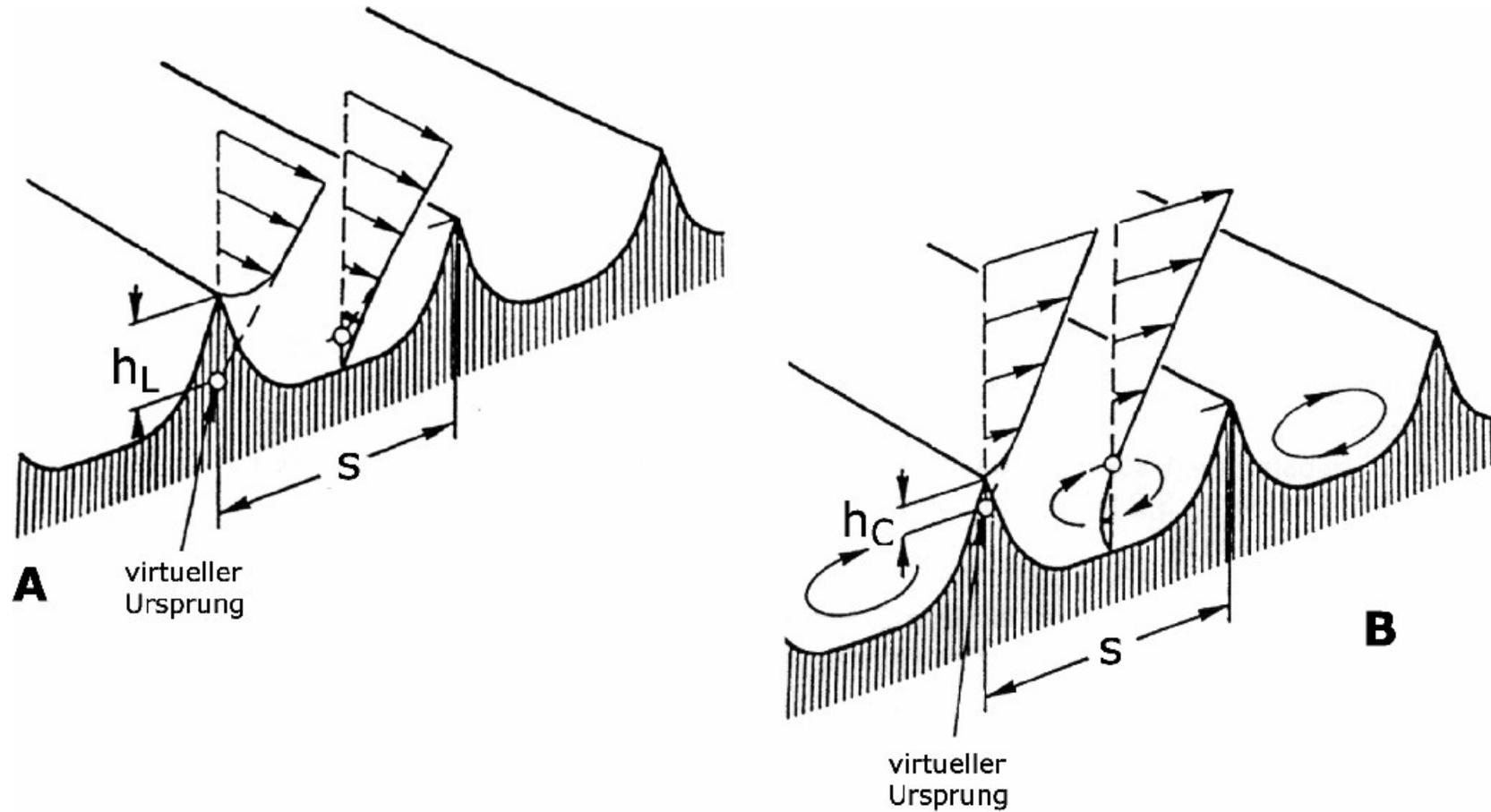
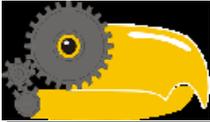


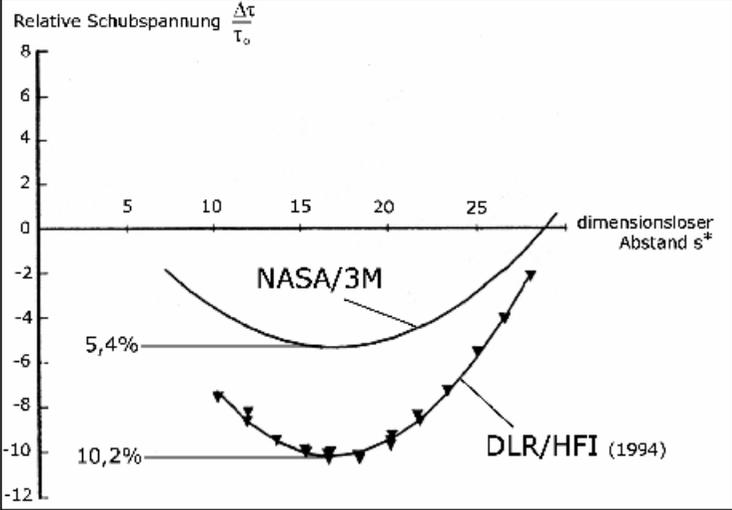
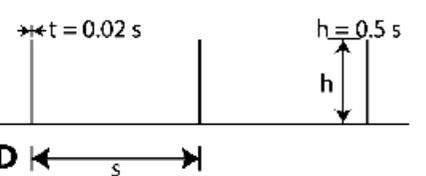
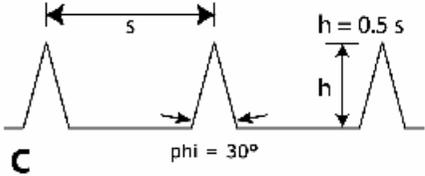
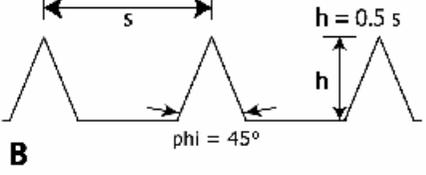
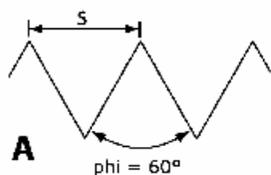
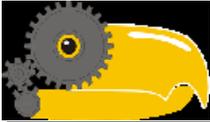
Sensor-Array

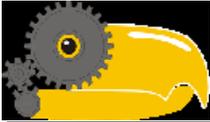


Aktuatoren



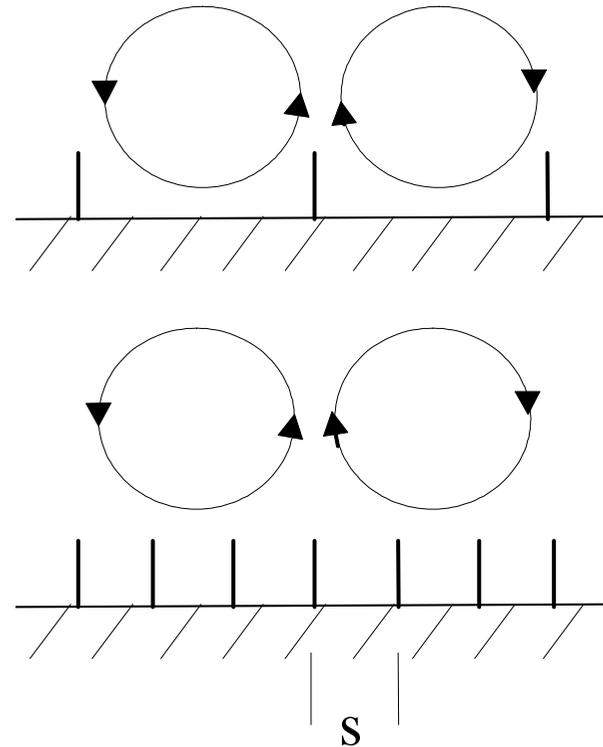


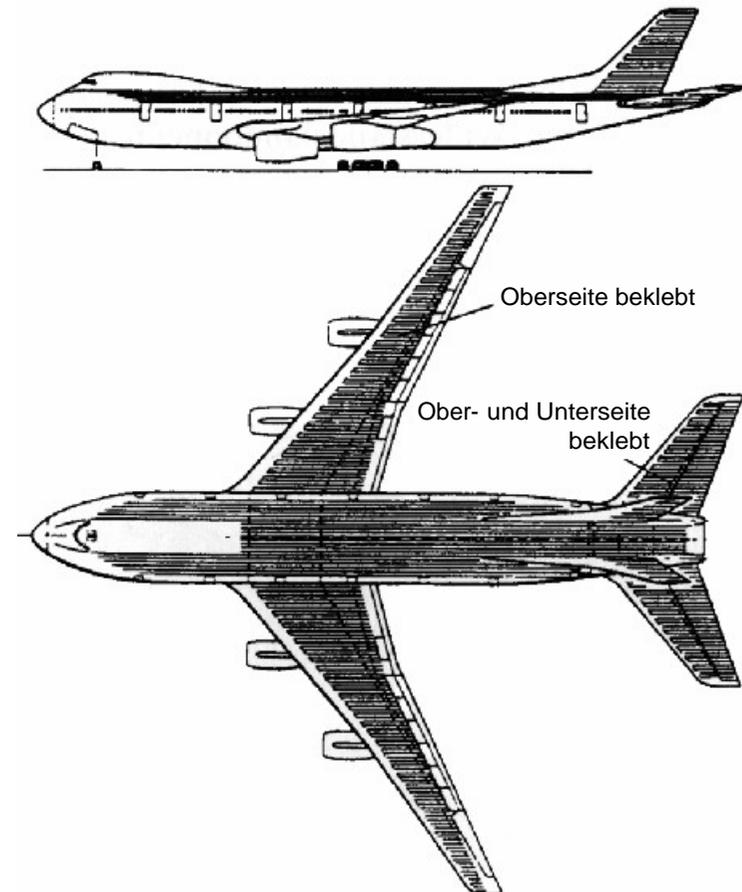
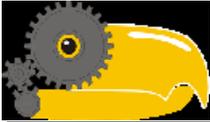


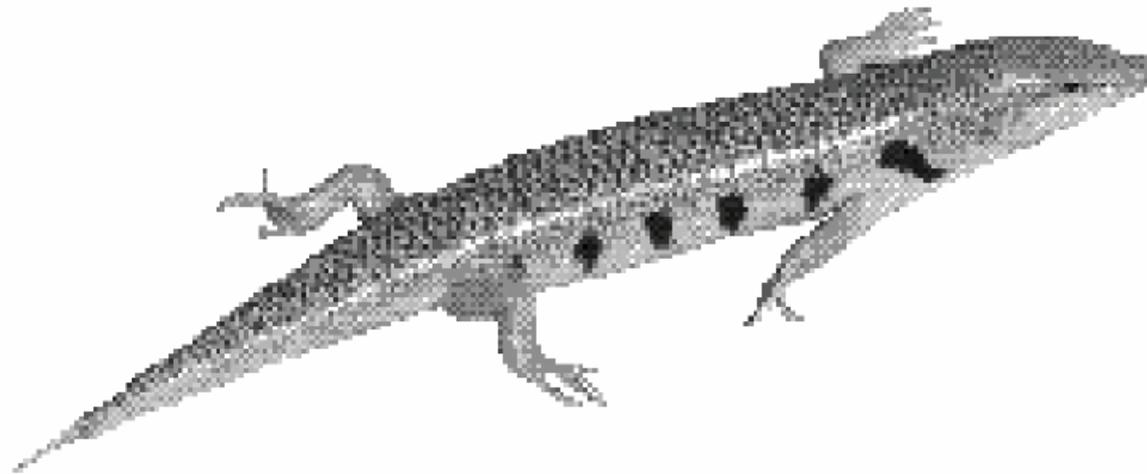
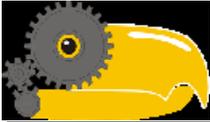


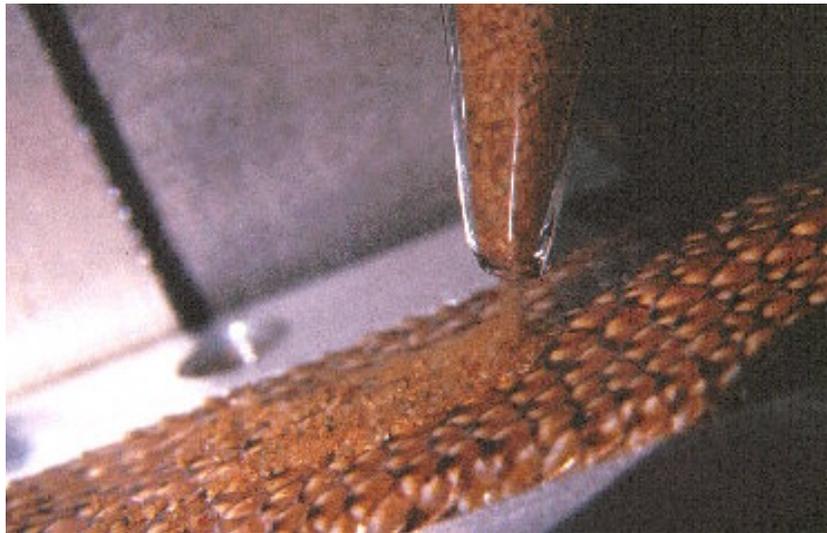
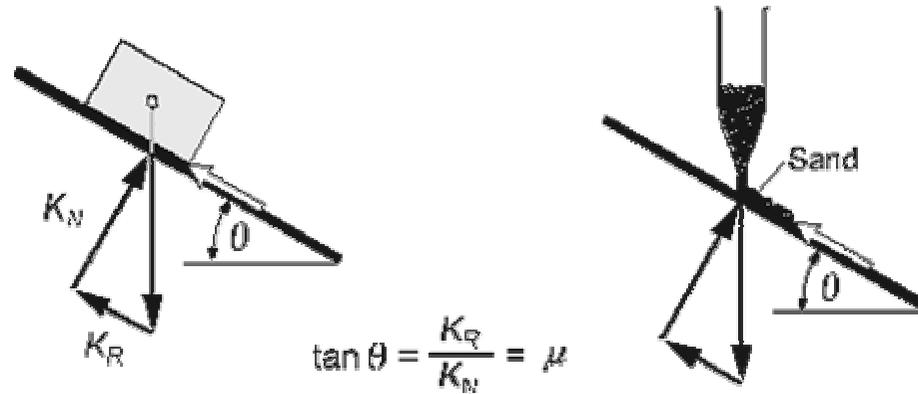
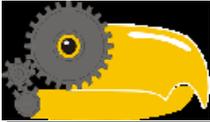
Optimale Anordnung:

- Möglichst hohe Δh
(senkrechte Platten)
- $s^+ = 16$
- $h = 0,5s$







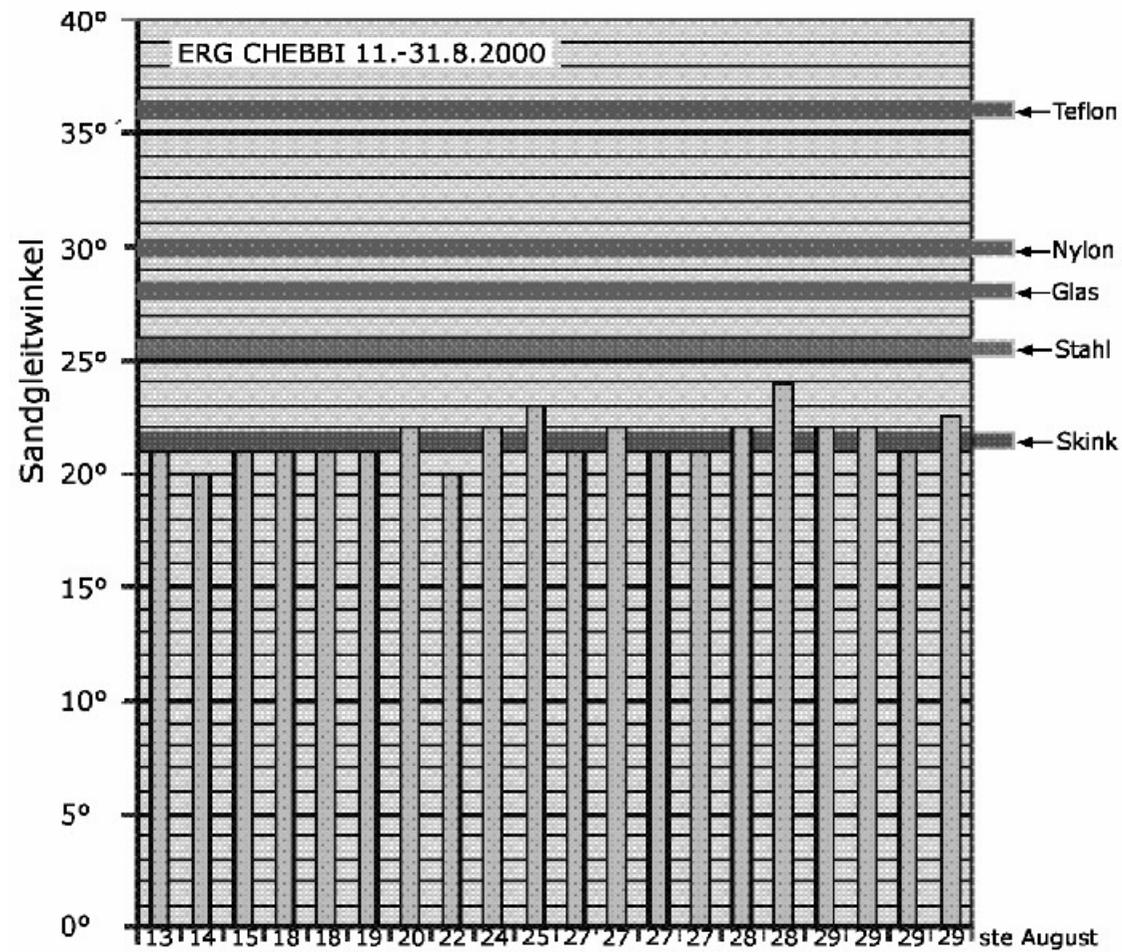
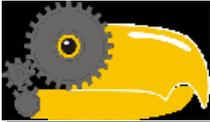


20° Sand stoppt



22° Sand fließt





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