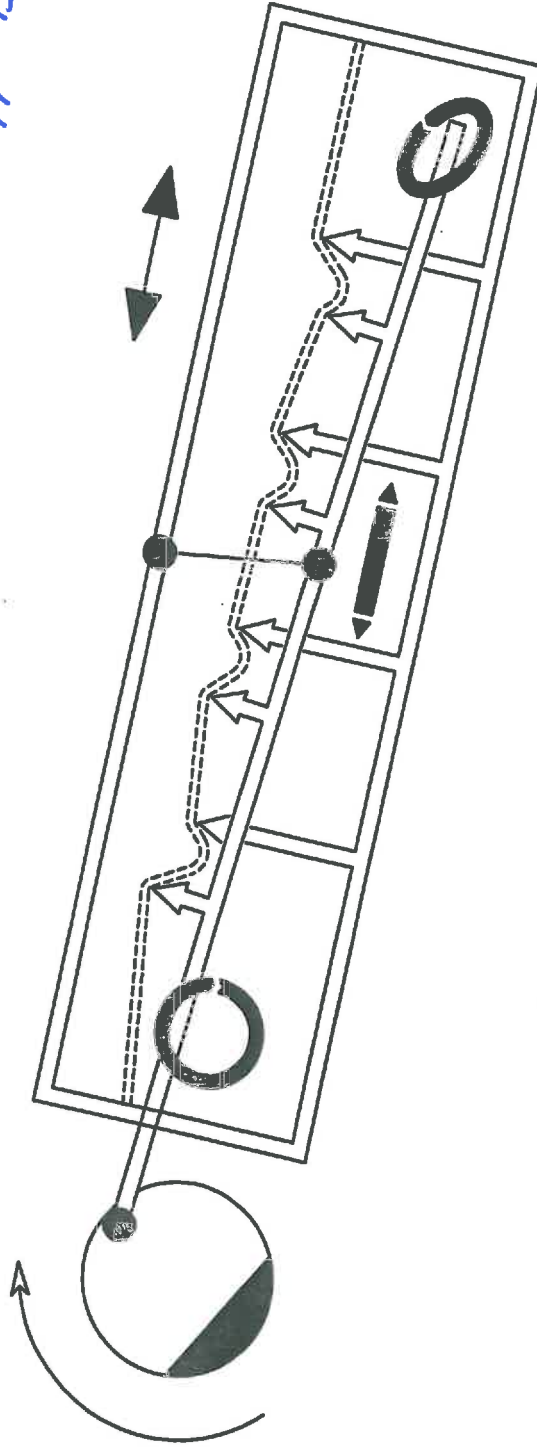


IFE



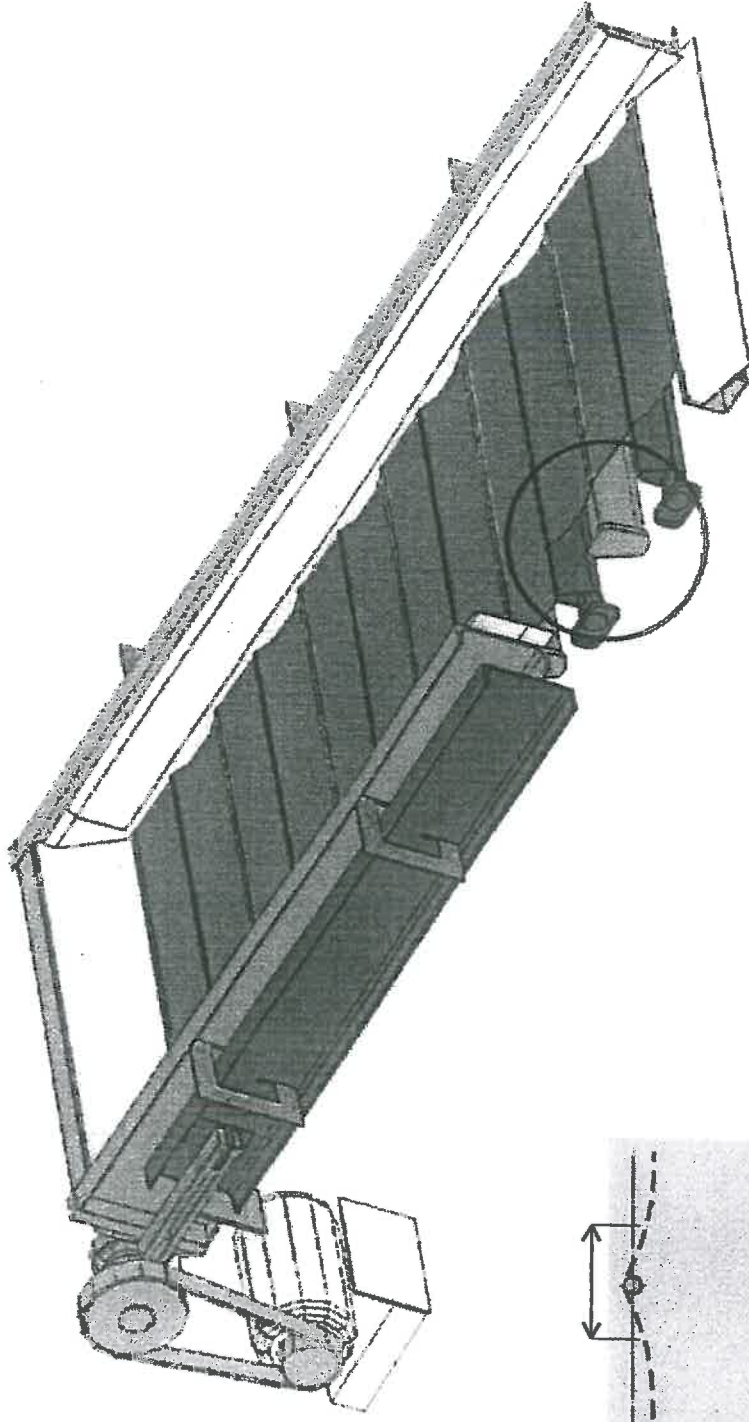
Kreisbewegung
im Aufgabebereich



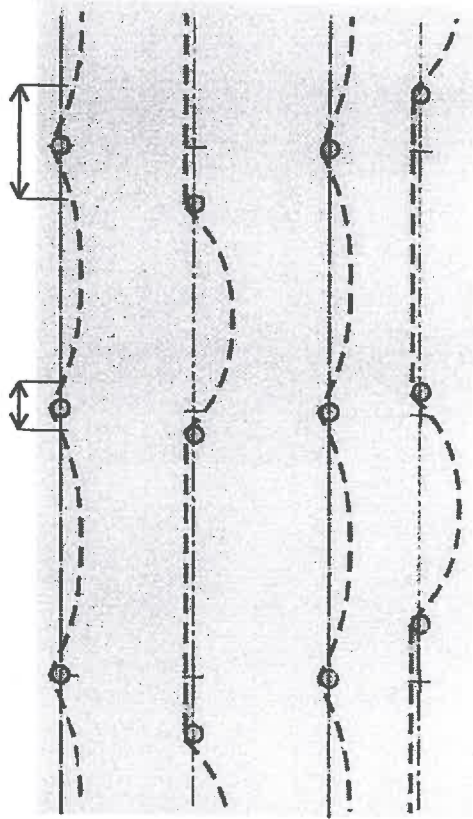
Linearbewegung
im Mittelbereich



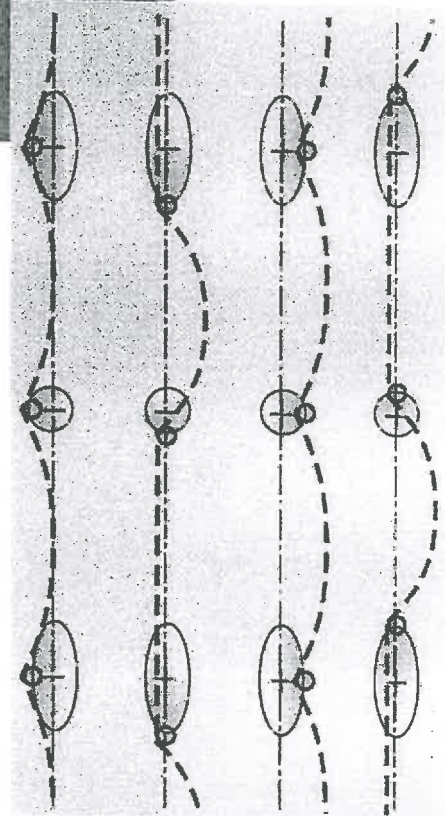
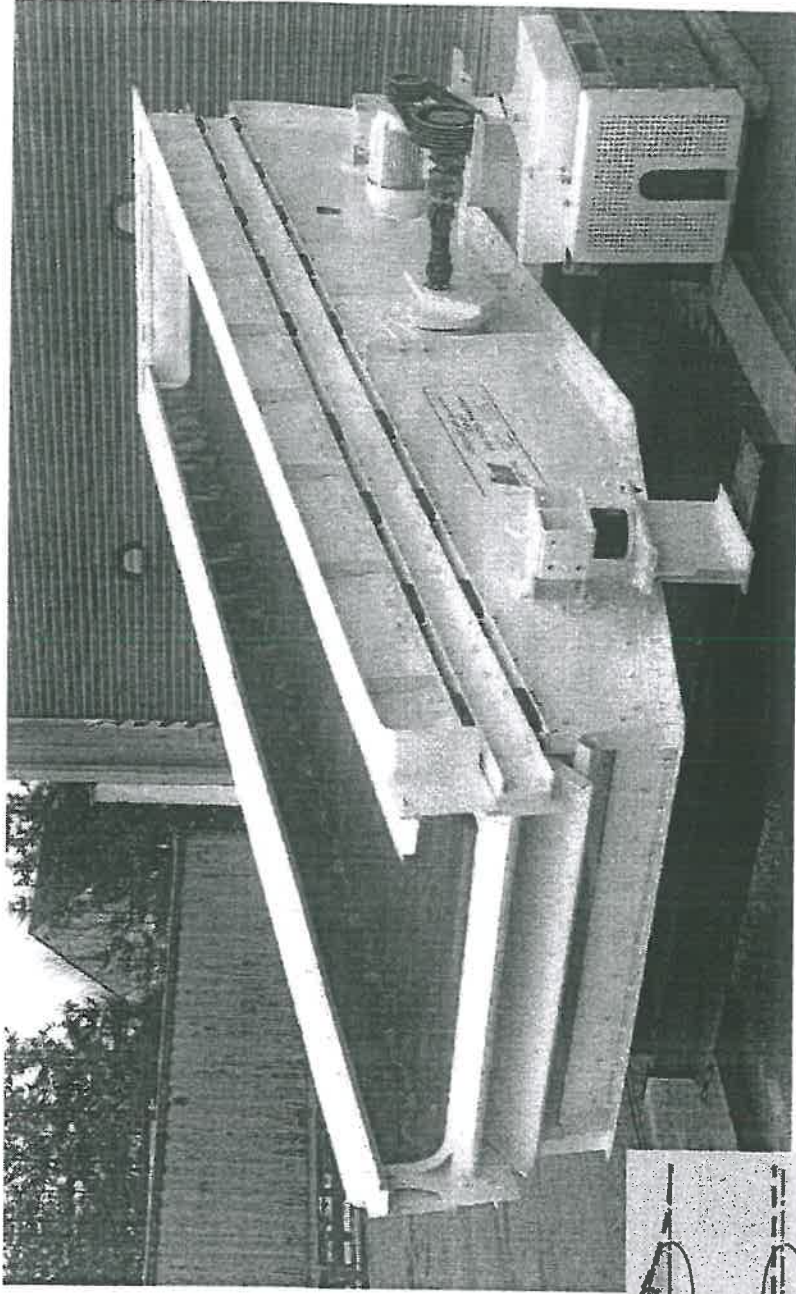
Elliptische Bewegung
im Abwurfbereich



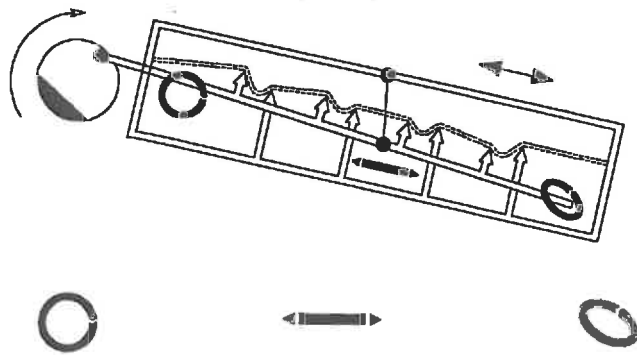
HL
(nur linear)



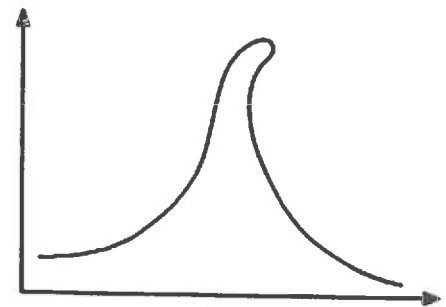
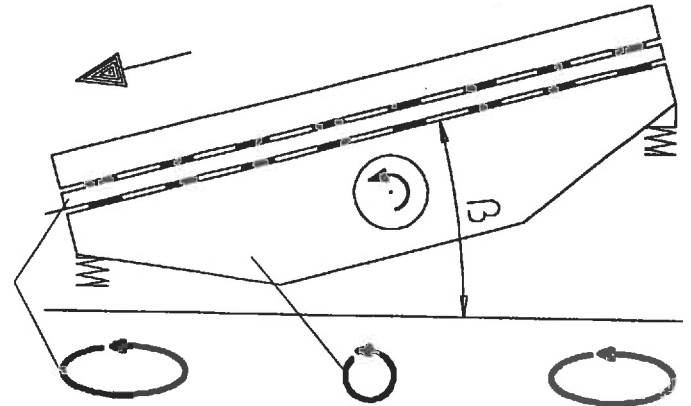
*Binder
(Resonant system)*



IFE - Trisomat



Binder - BIVITEC



Trisomat = Mechanisches System:

Bewegung durch Exzenter vorgegeben

Bei Überlast:
Förderkomponente bleibt \approx konstant,
Siebwirkungsgrad sinkt

\Rightarrow Kein Überfüllen der Maschine

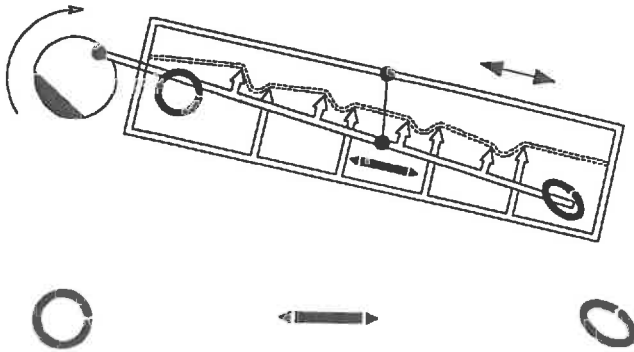
Binder = Resonanzsystem:

Außenrahmen über Schubgummielemente gelagert:
Eigenfrequenz \approx Erregerfrequenz

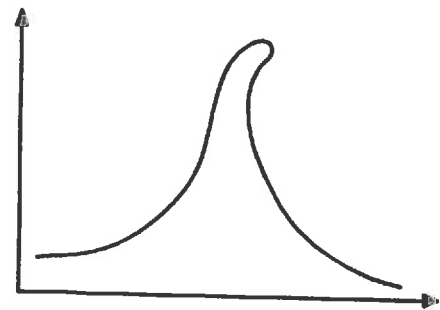
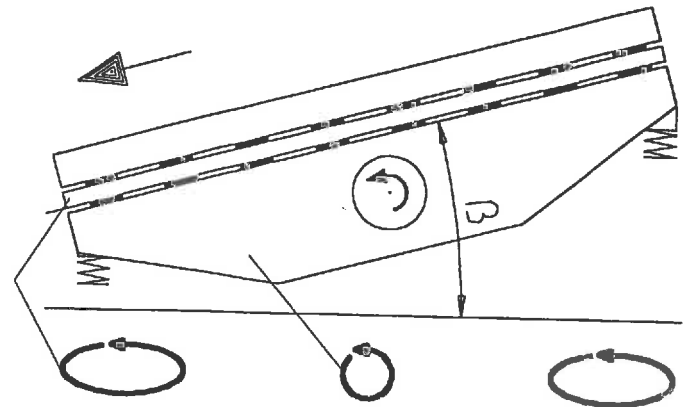
Bei Überlast:
Förderkomponente und Siebwirkungsgrad sinken

\Rightarrow Überfüllen der Maschine

IFE - Trisomat



Binder - BIVITEC



Trisomat = Mechanical system:

Defined movement by exciter

Overload:

No real influence in feeding, efficiency goes down

⇒ No overloading of machine itself

Binder = Resonance system:

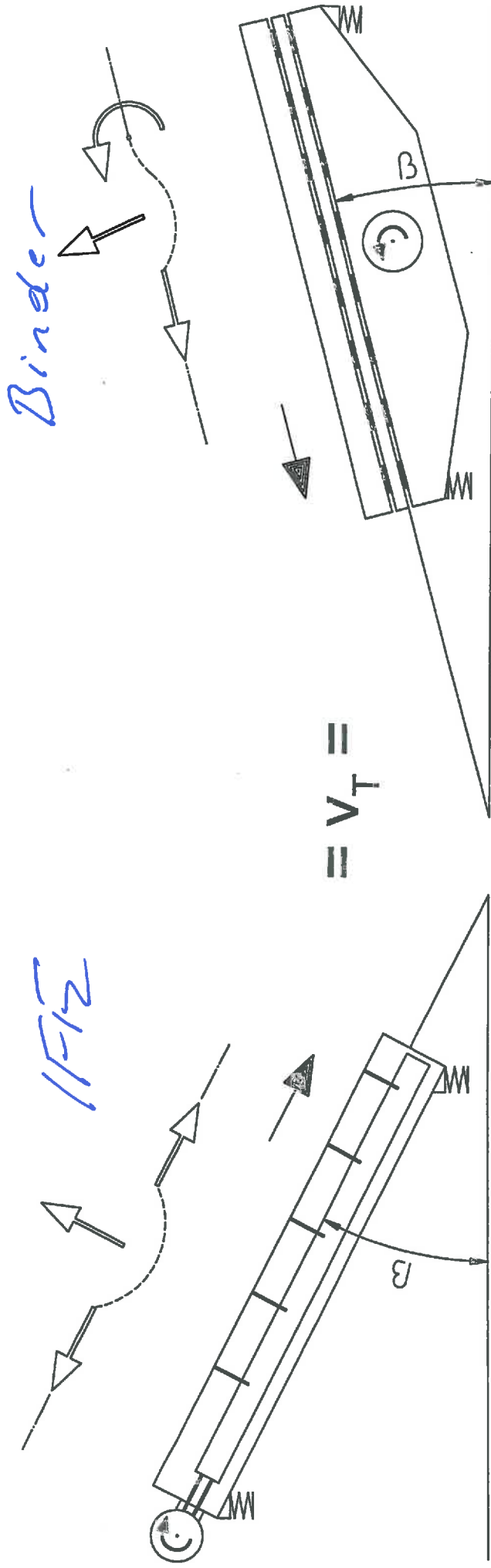
Outer Frame based on rubber elements:

Natural frequency \approx Drive frequency

Overload:

Feeding and efficiency are going down

⇒ Overloading of machine



größere Einbauneigung
 $\beta = 15 - 30^\circ$

kleinere Einbauneigung
 $\beta = 5 - 15^\circ$

v_T über Sieblänge konstant