

Belastungsdiagramme

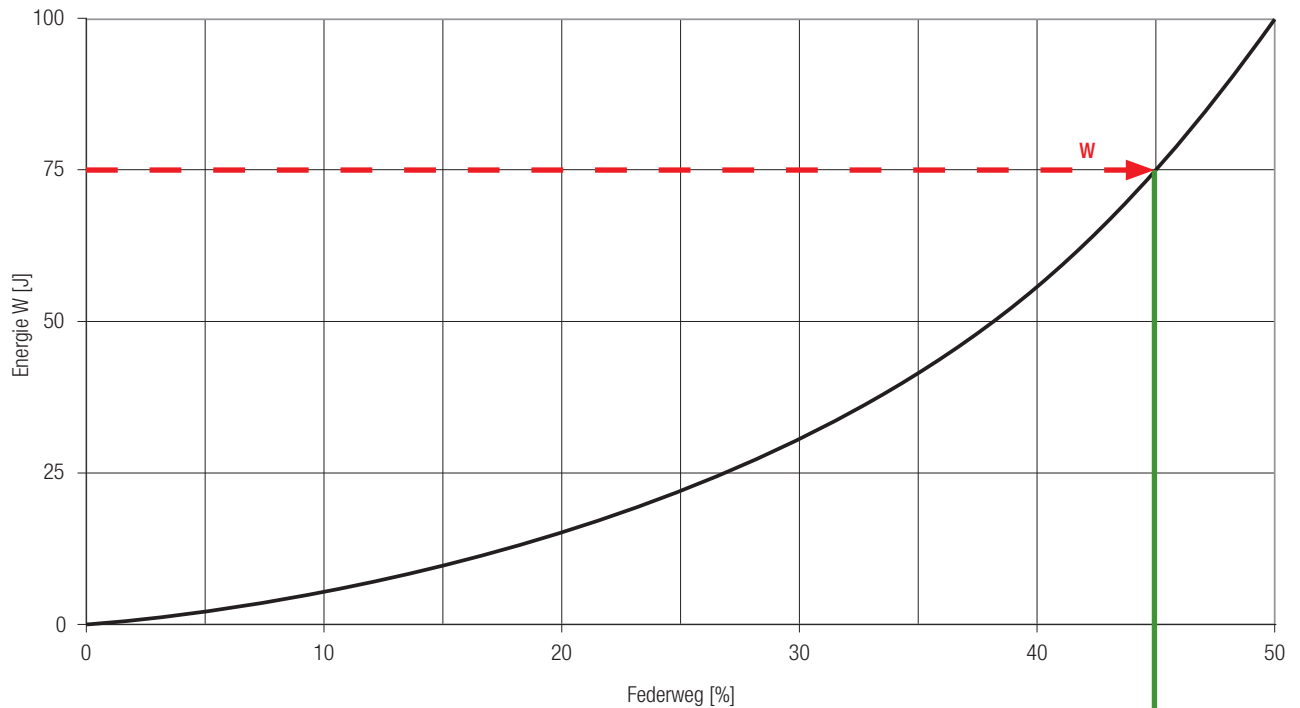
Programm 0170 Gummi-Puffer



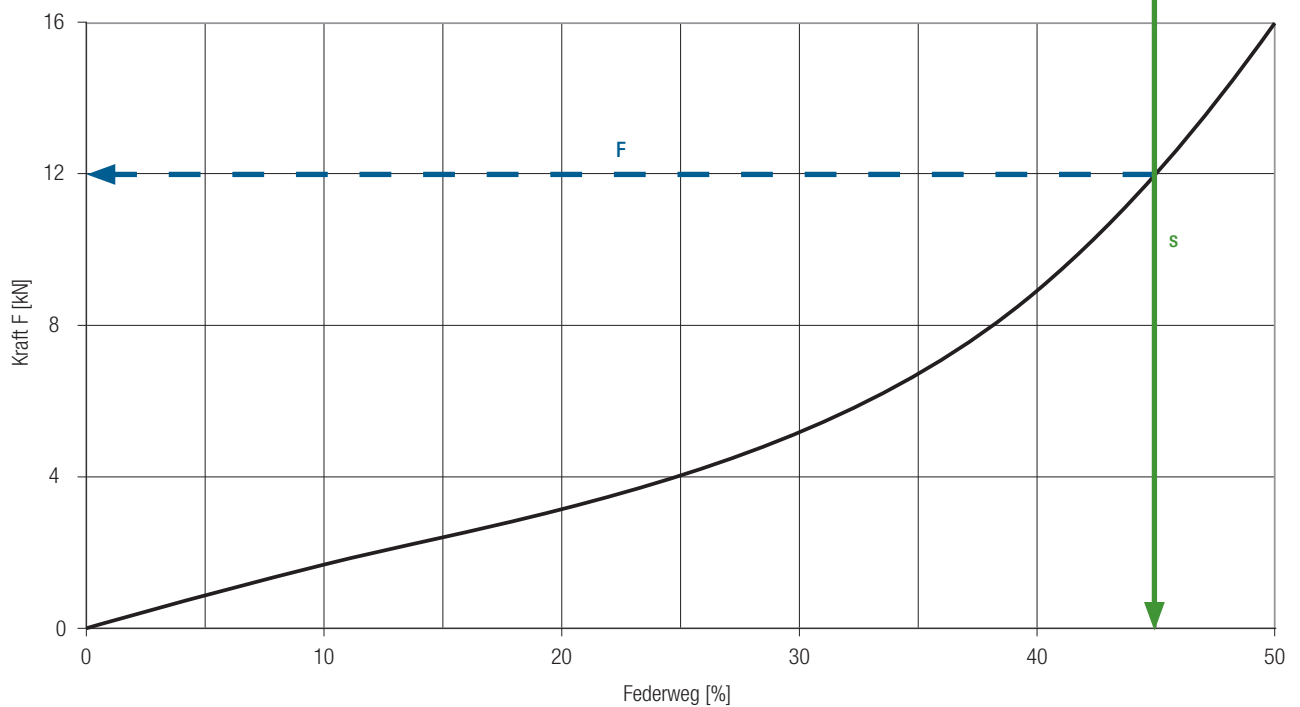
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Berechnungsbeispiel

Energie-Weg-Diagramm Ø 50



Kraft-Weg-Diagramm Ø 50

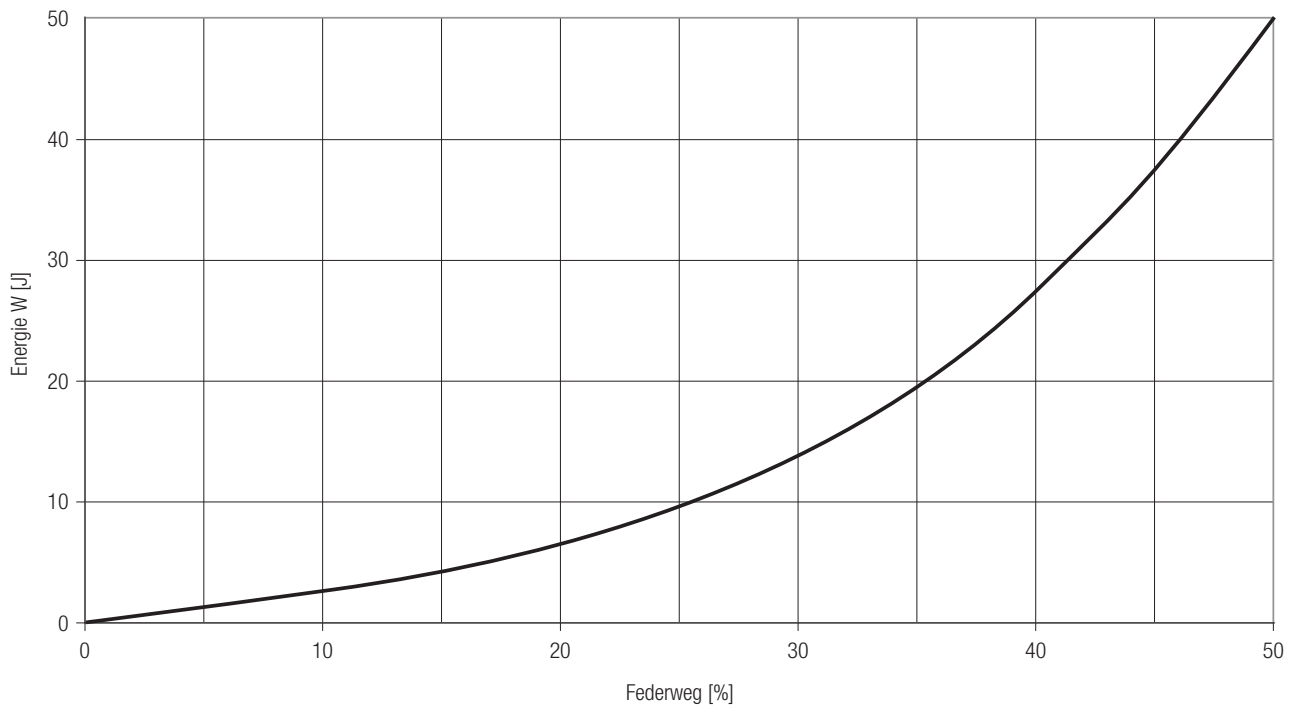


1. Berechnung der Energie pro Puffer: $W = \frac{1}{2} m \times v^2$
2. Federweg des Puffers aus Tabelle auslesen
3. Endkraft des Puffers aus Tabelle auslesen
4. Ergebnis und Kontrolle
 - $s < 0,5 \times h$
 - $F < F_{\max}$ der Kranstruktur
 - $a = v^2/2s < a_{\max}$

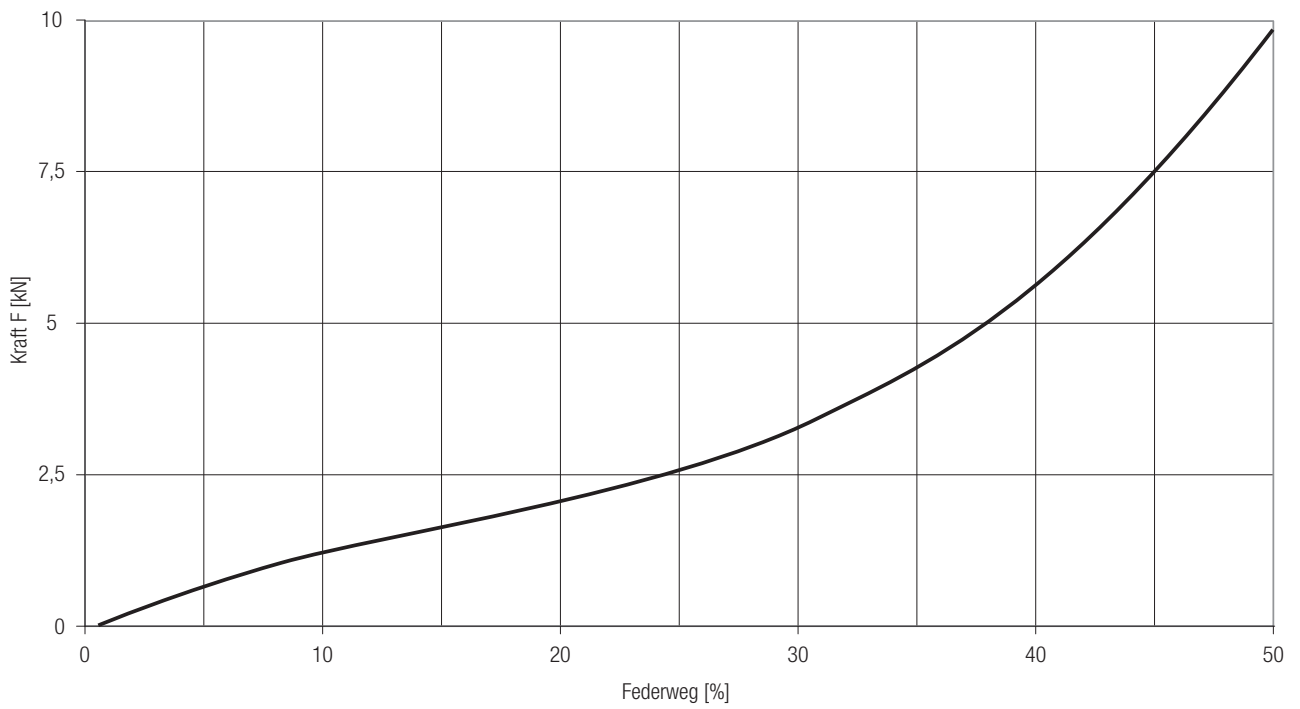
W = Arbeitsaufnahme [J]
s = Weg [mm]
F = Kraft [kN]
v = Geschwindigkeit [m/s]
m = Masse [kg]
h = Höhe Pufferkörper
a = Verzögerung

- Max. Federweg = 50%
- Gültig für Vollgummi-Puffer mit $h = 0,8 \times d_1$

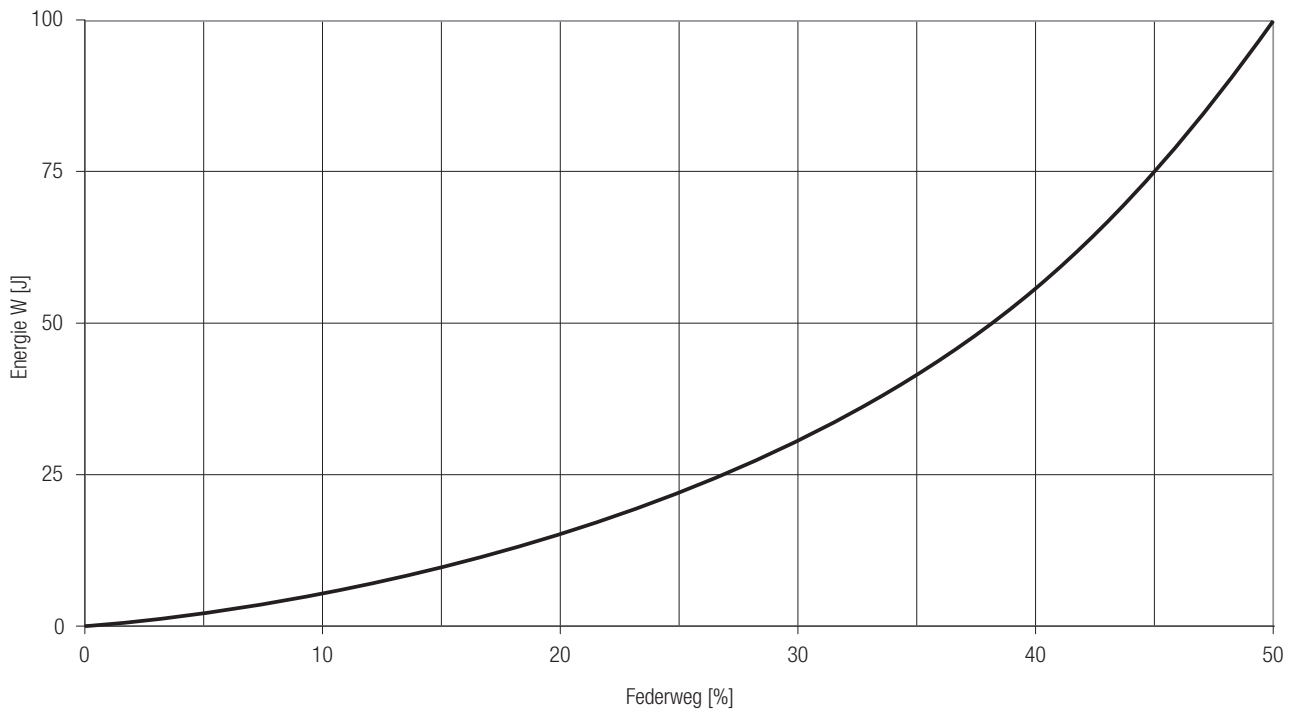
Energie-Weg Ø 40



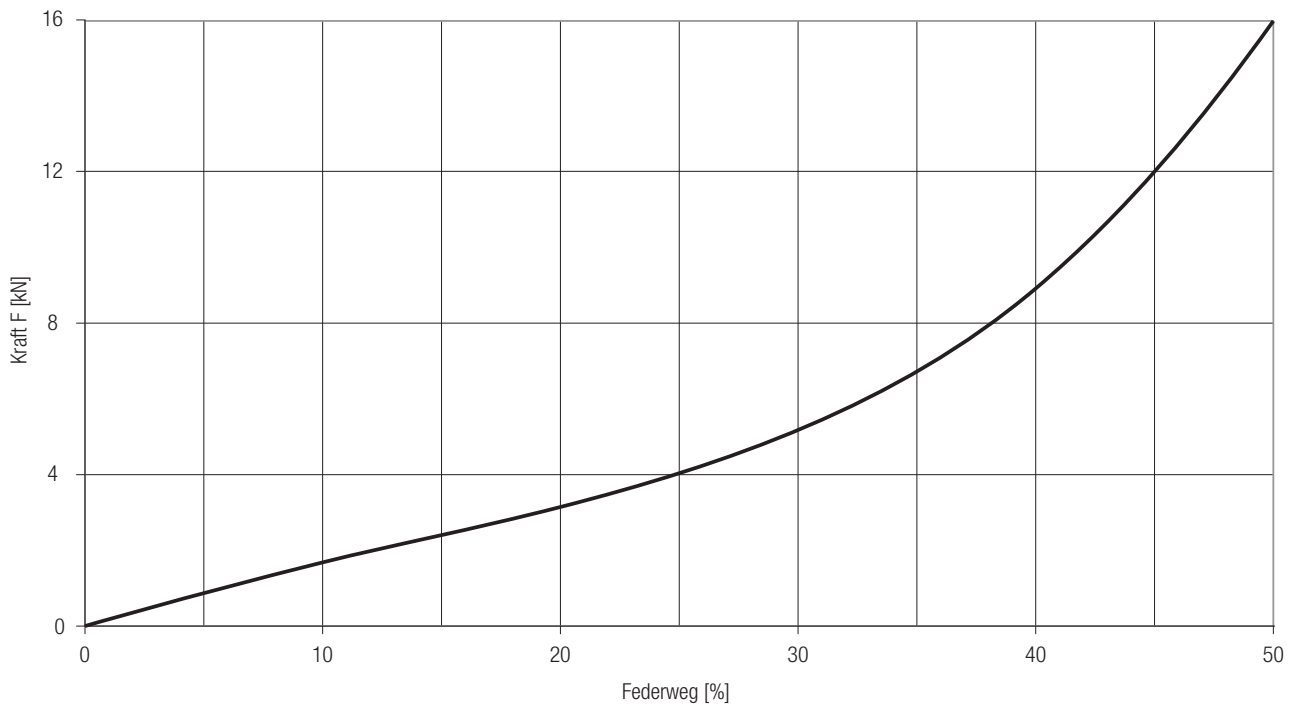
Kraft-Weg Ø 40



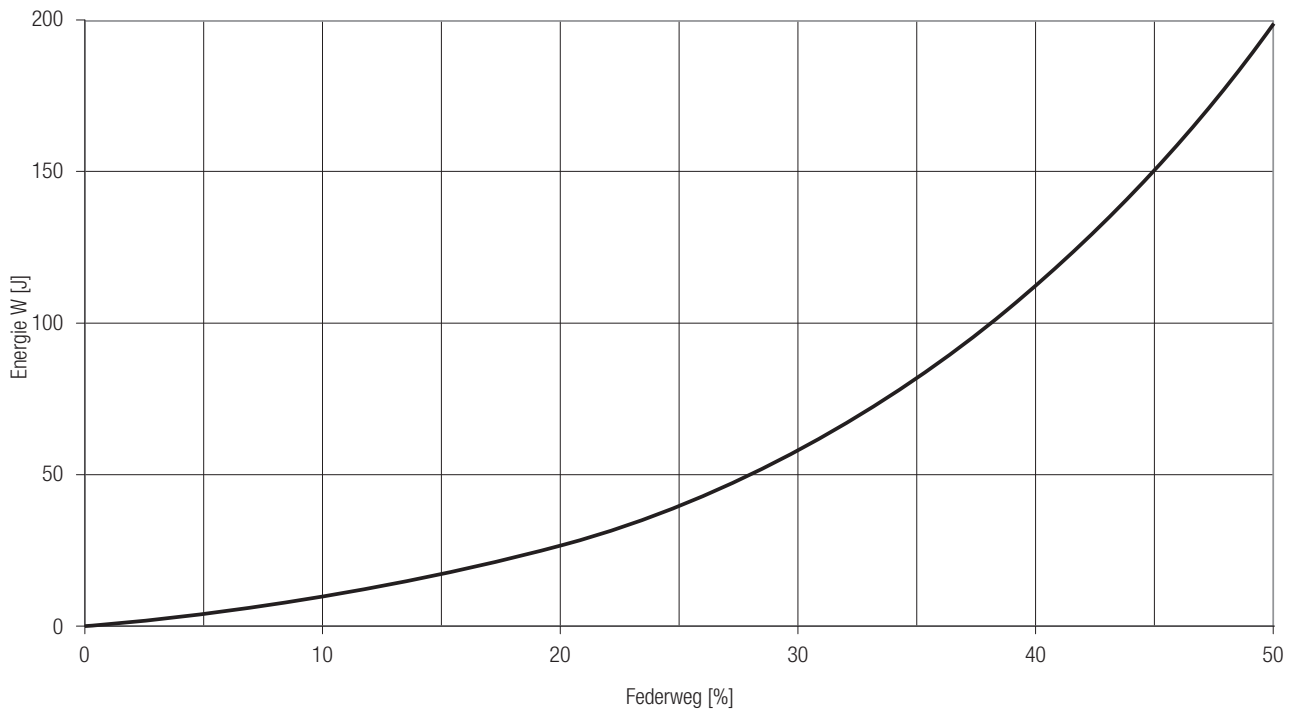
Energie-Weg Ø 50



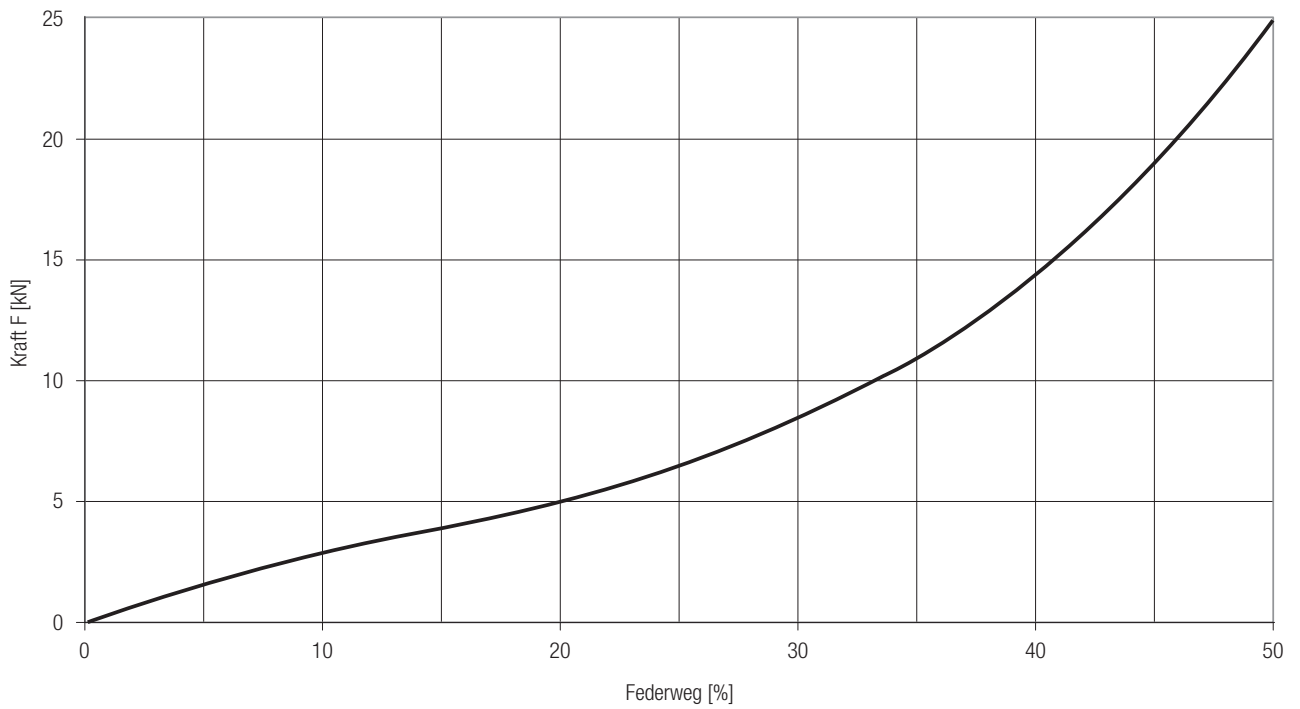
Kraft-Weg Ø 50



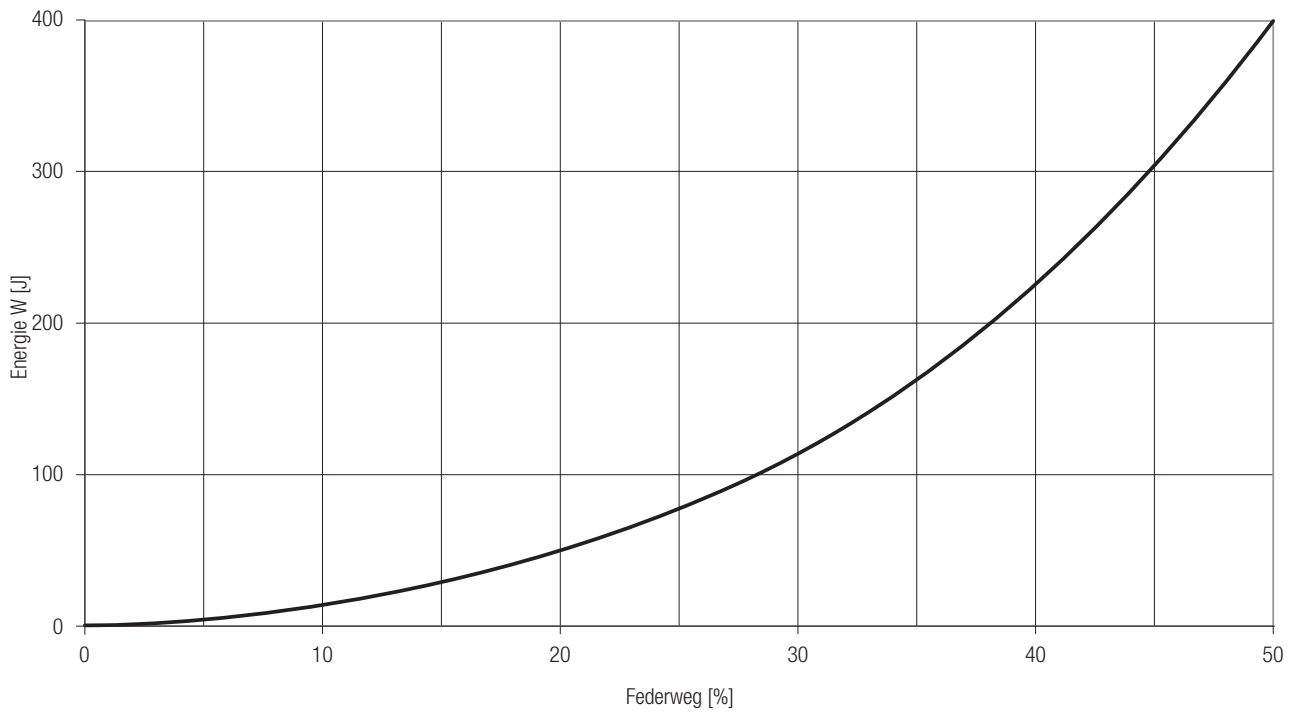
Energie-Weg Ø 63



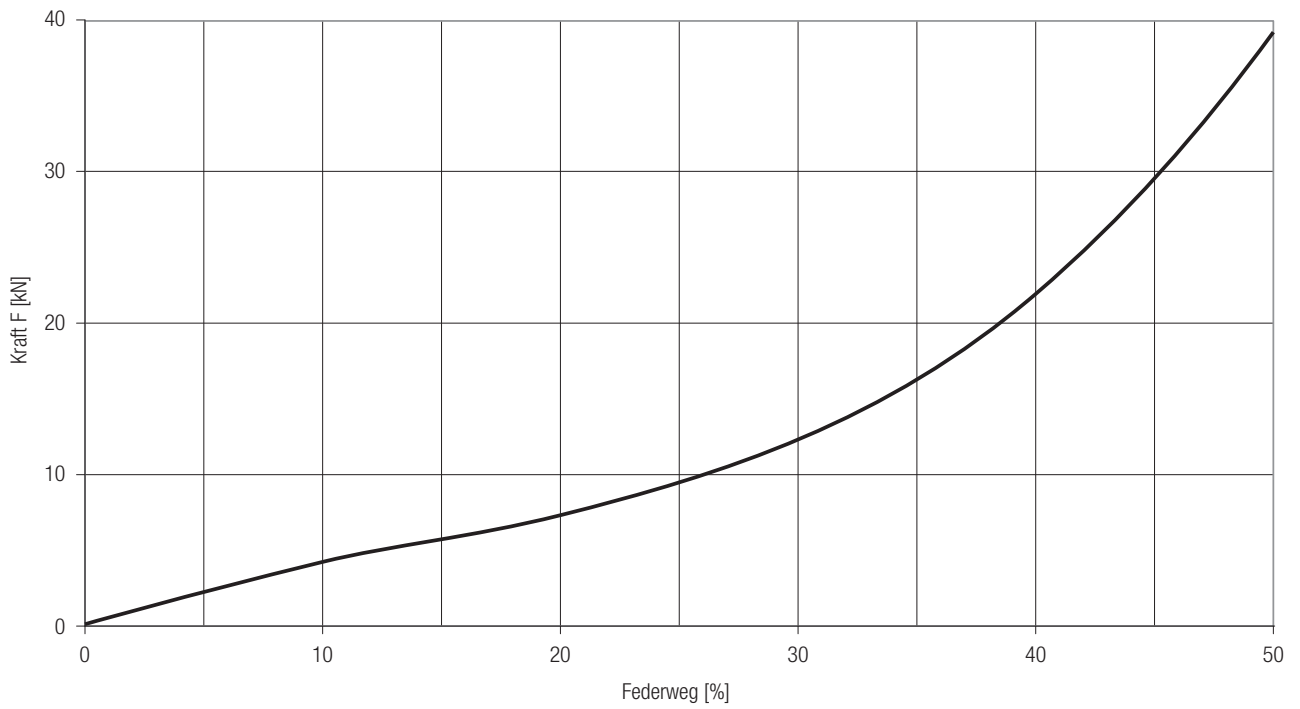
Kraft-Weg Ø 63



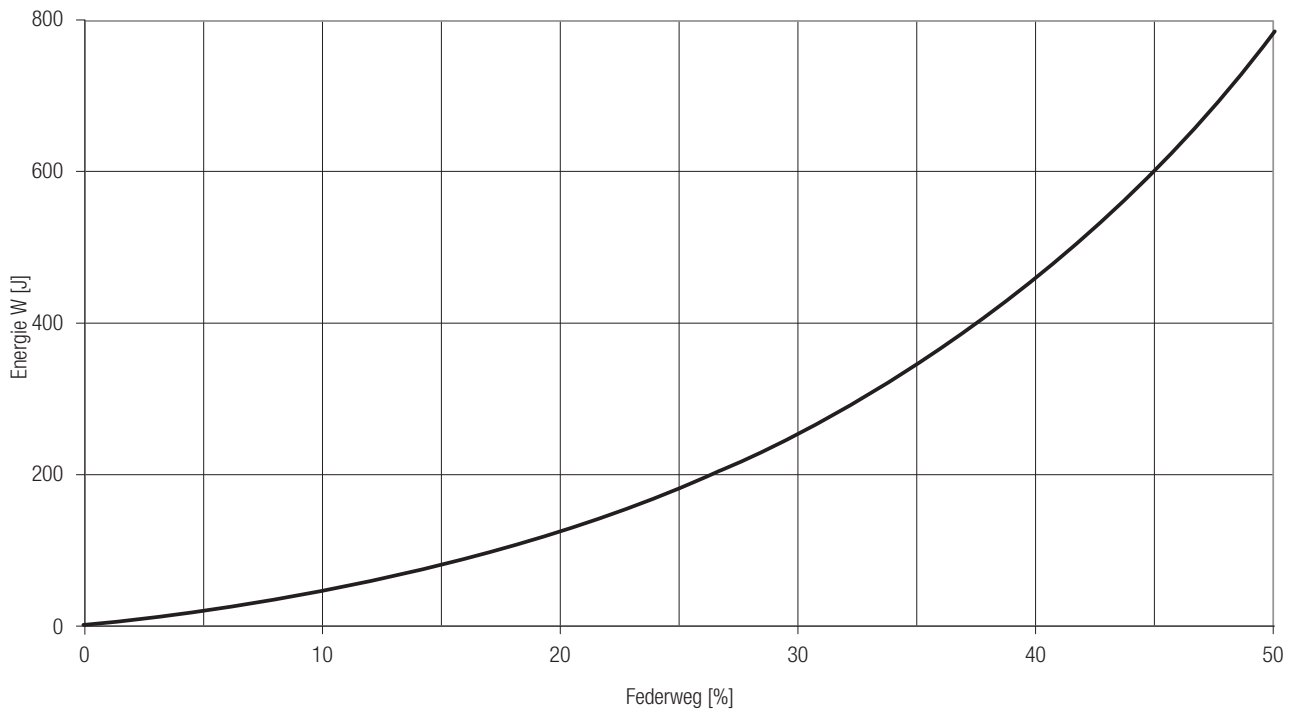
Energie-Weg Ø 80



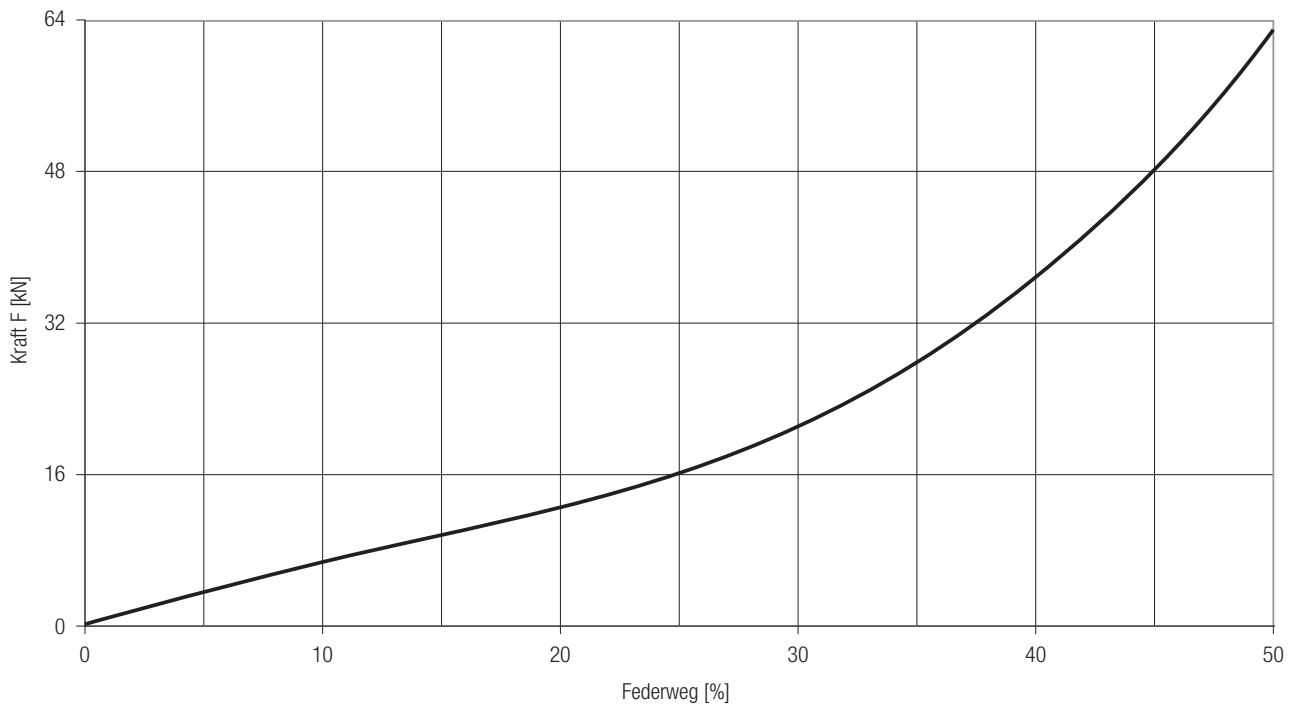
Kraft-Weg Ø 80



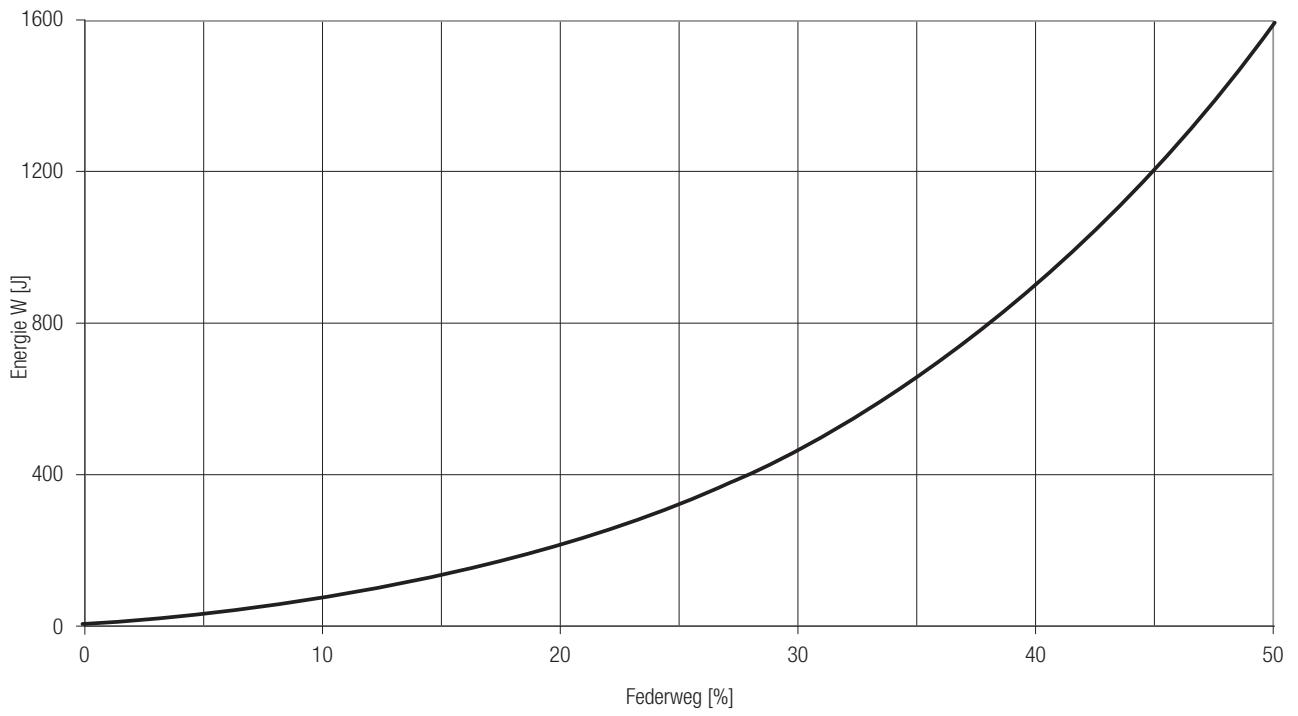
Energie-Weg Ø 100



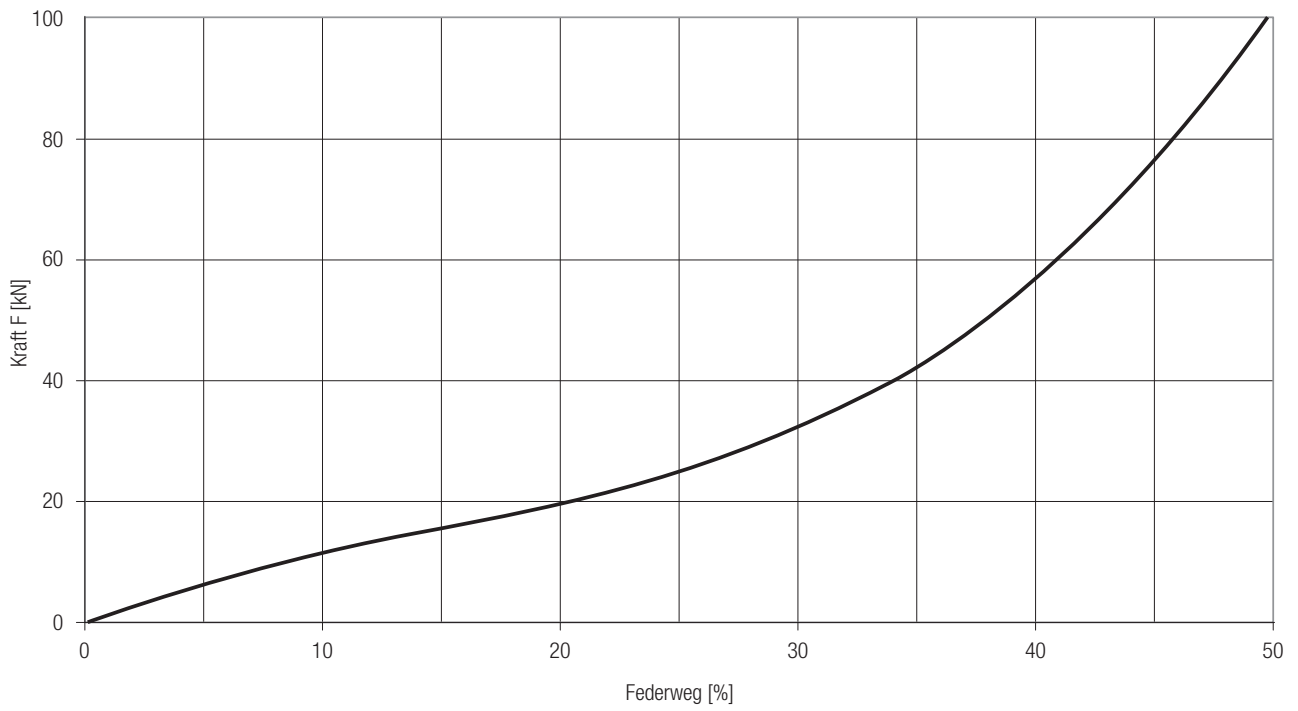
Kraft-Weg Ø 100



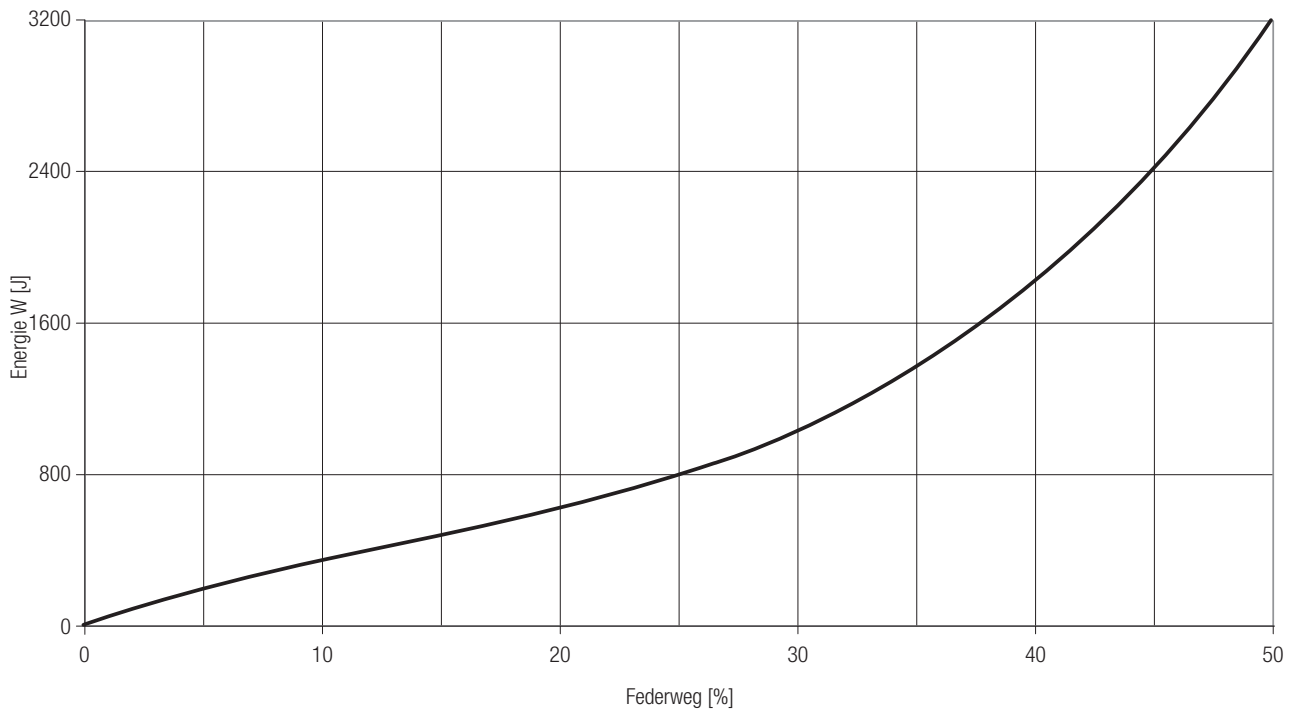
Energie-Weg Ø 125



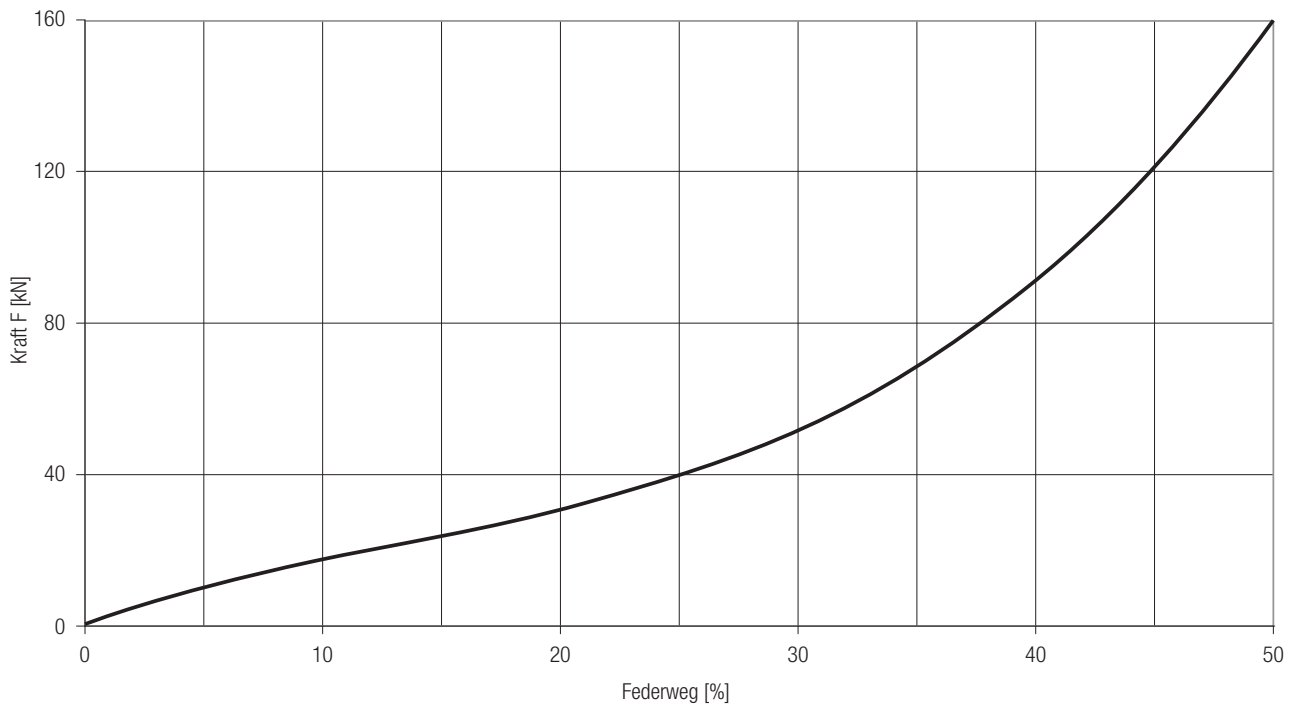
Kraft-Weg Ø 125



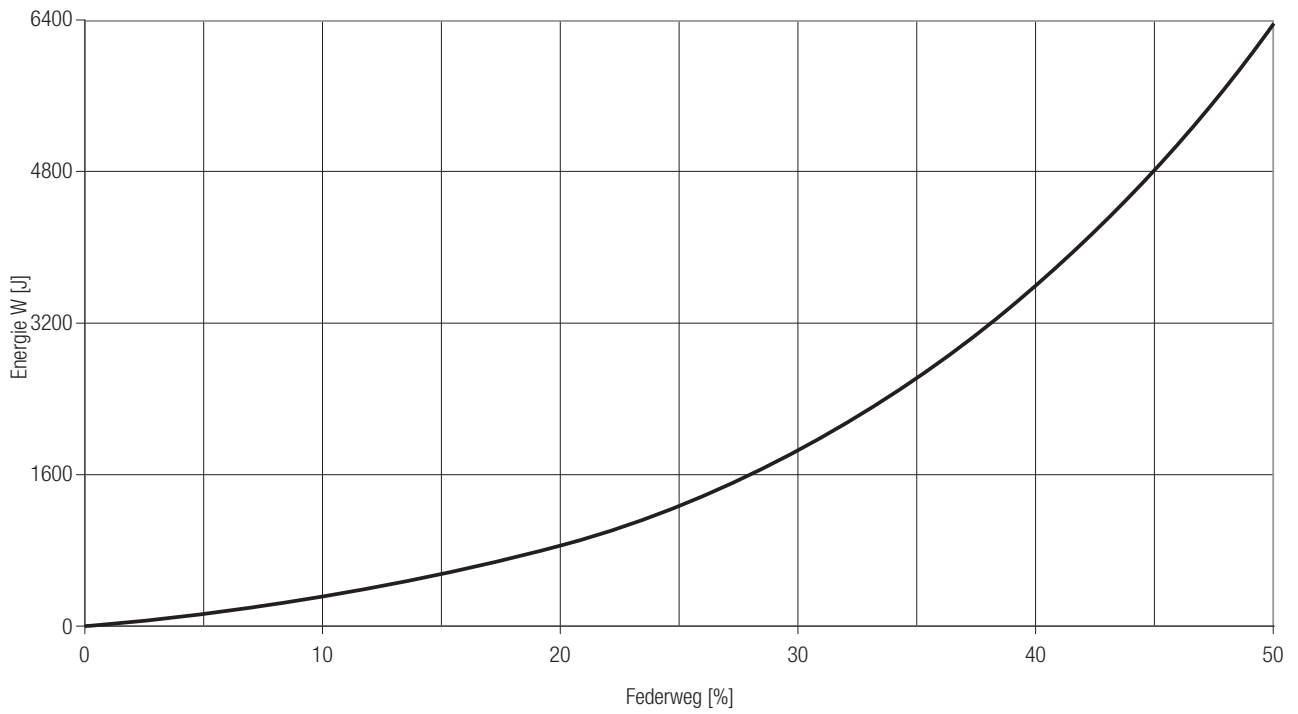
Energie-Weg Ø 160



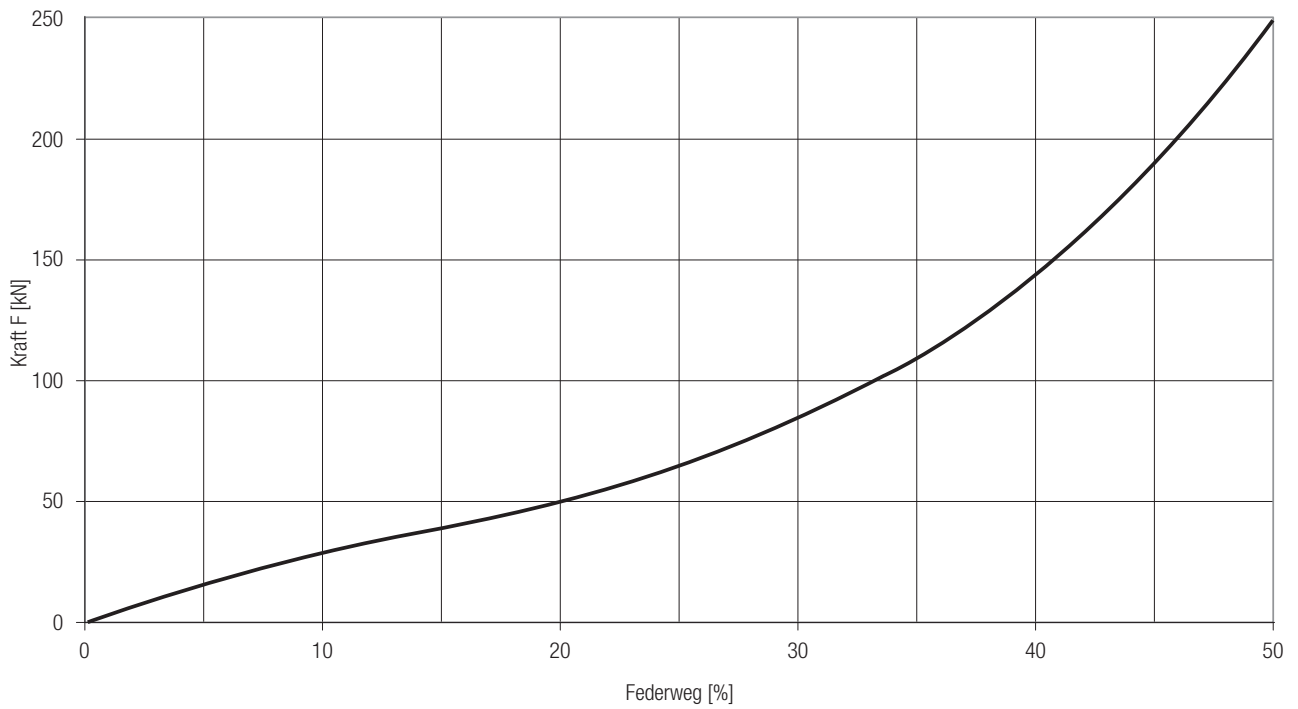
Kraft-Weg Ø 160



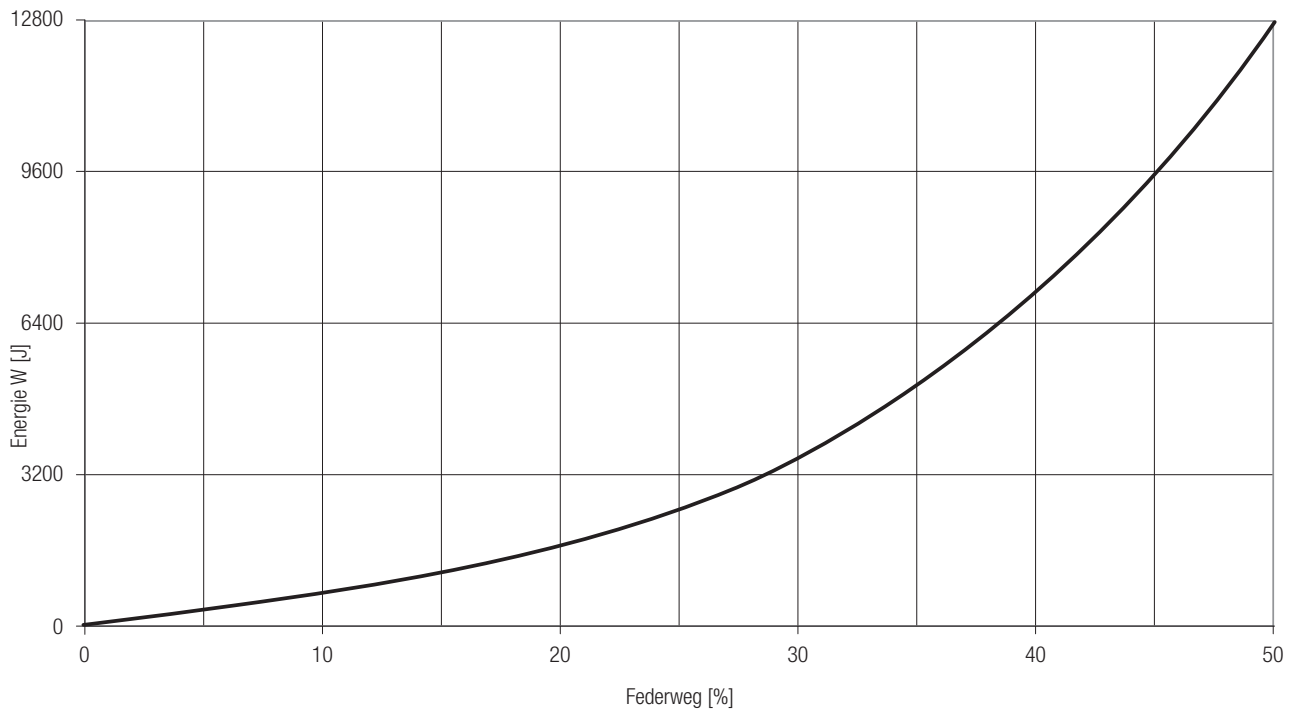
Energie-Weg Ø 200



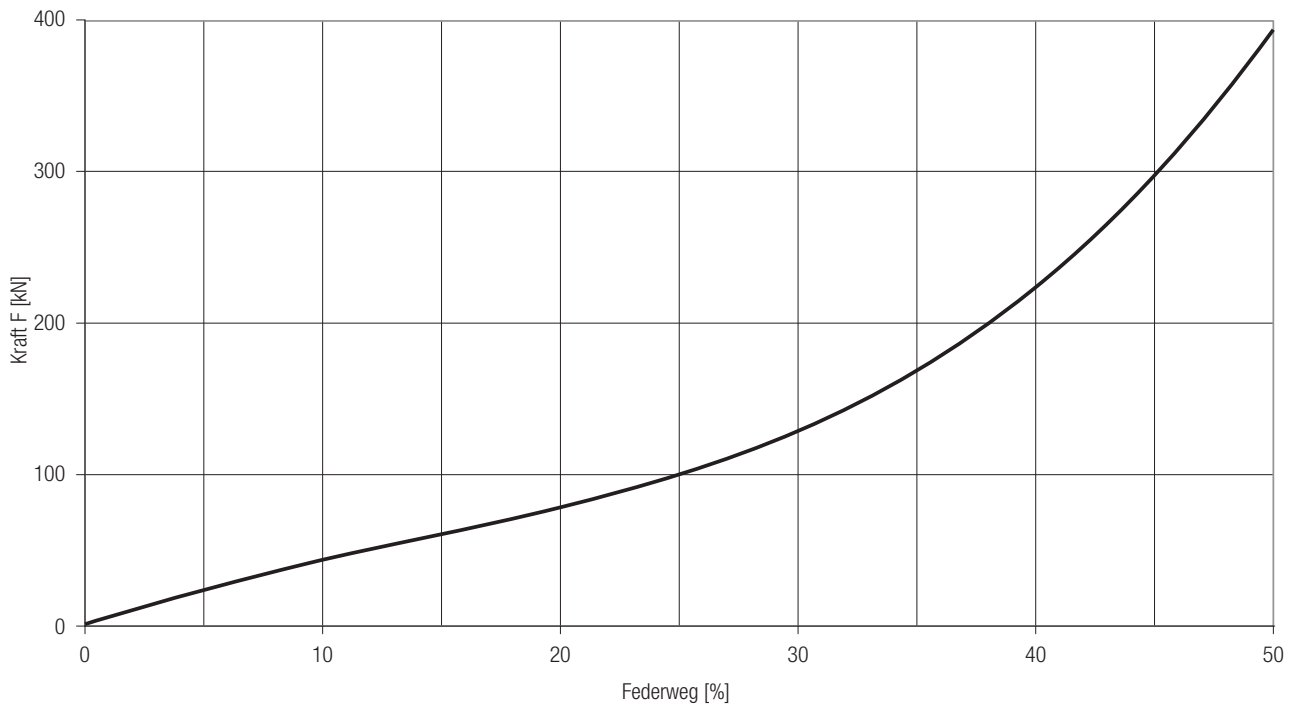
Kraft-Weg Ø 200



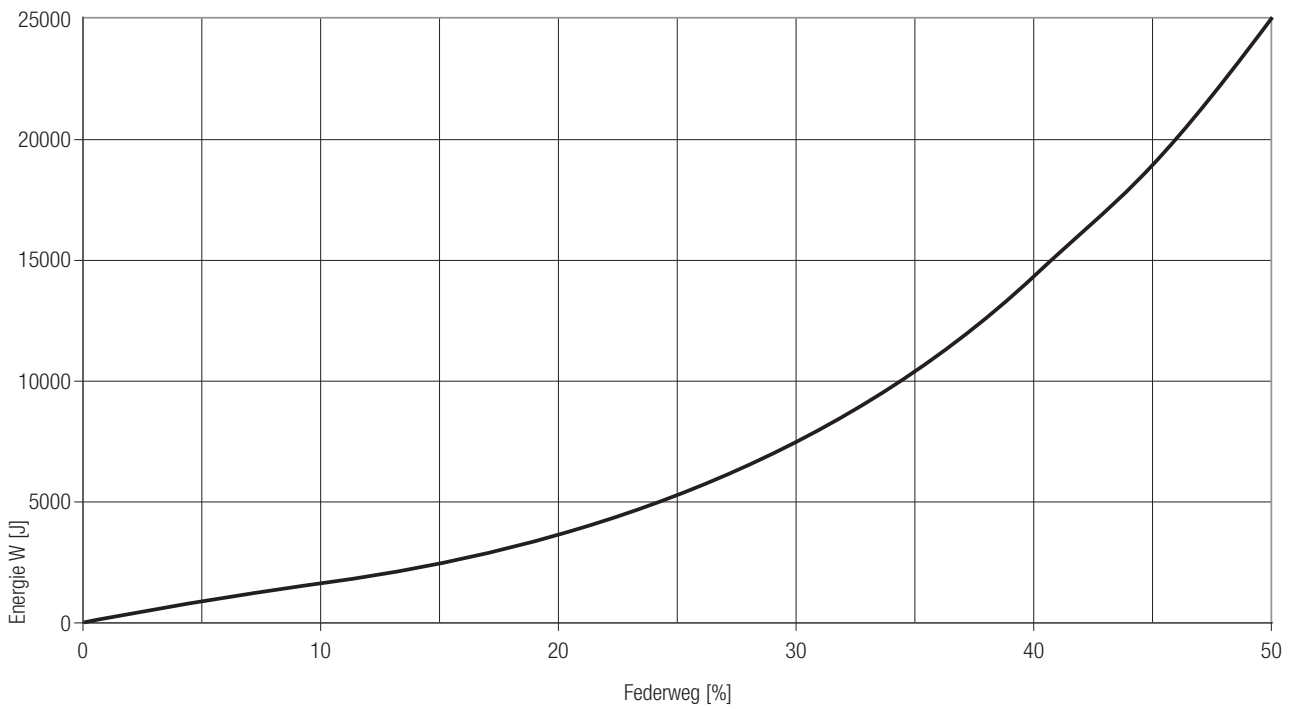
Energie-Weg Ø 250



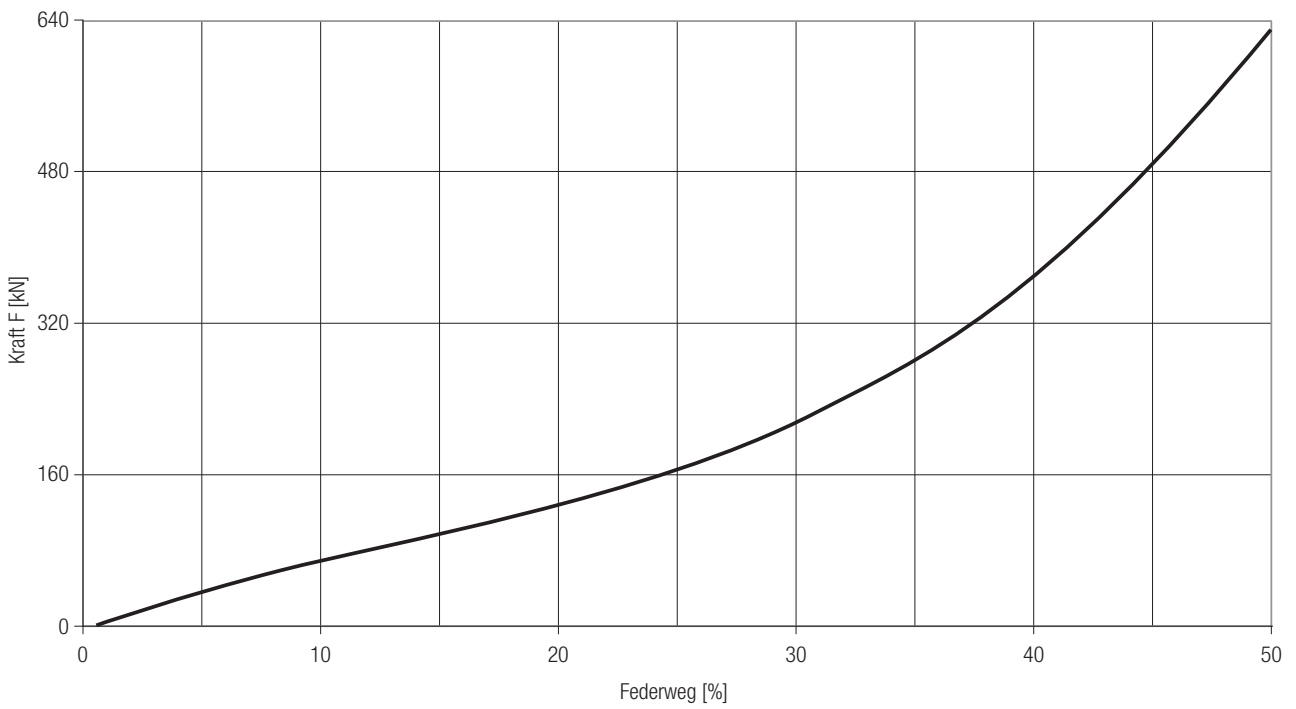
Kraft-Weg Ø 250



Energie-Weg Ø 315



Kraft-Weg Ø 315



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