

泵浦變動負載

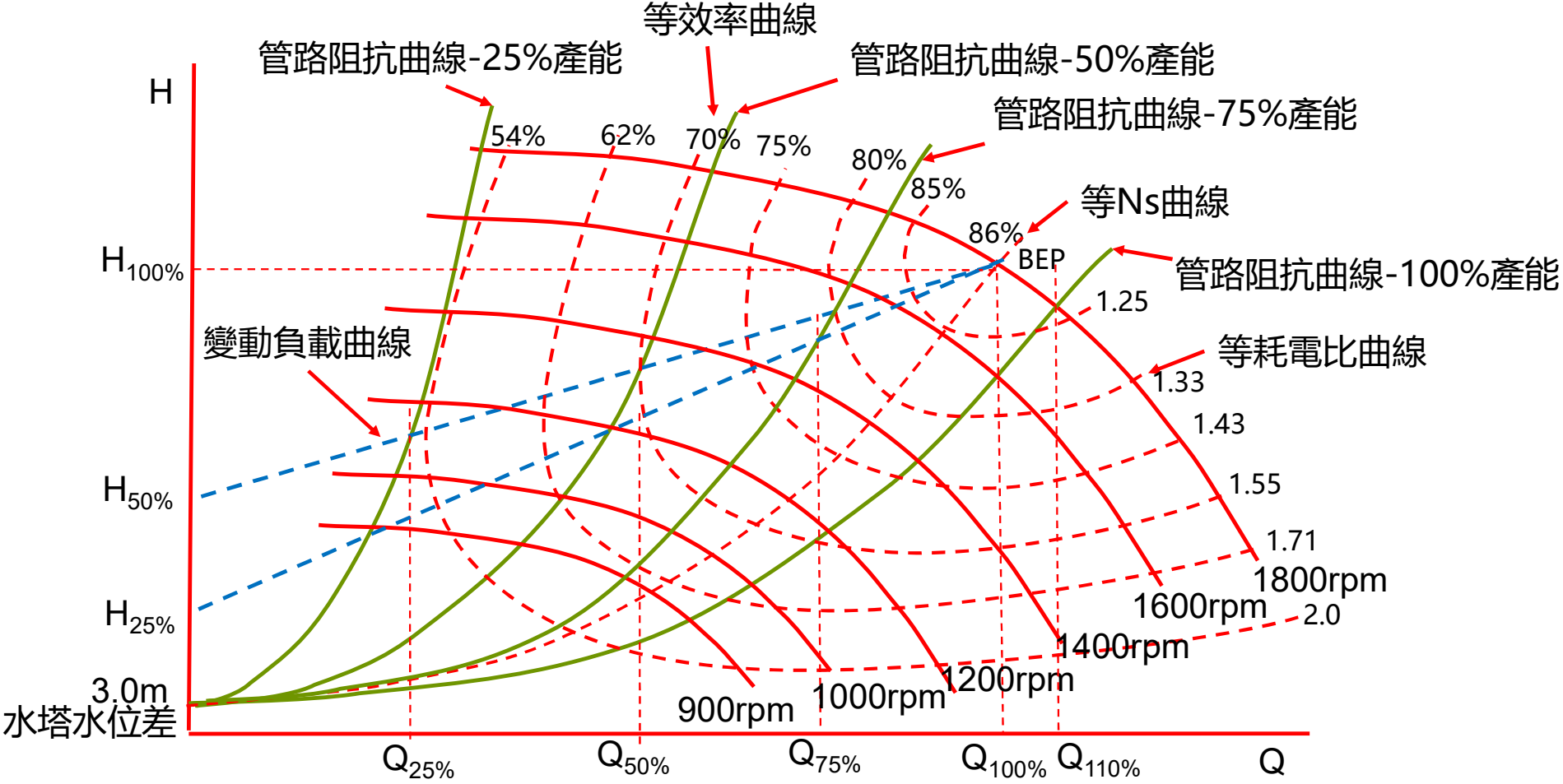
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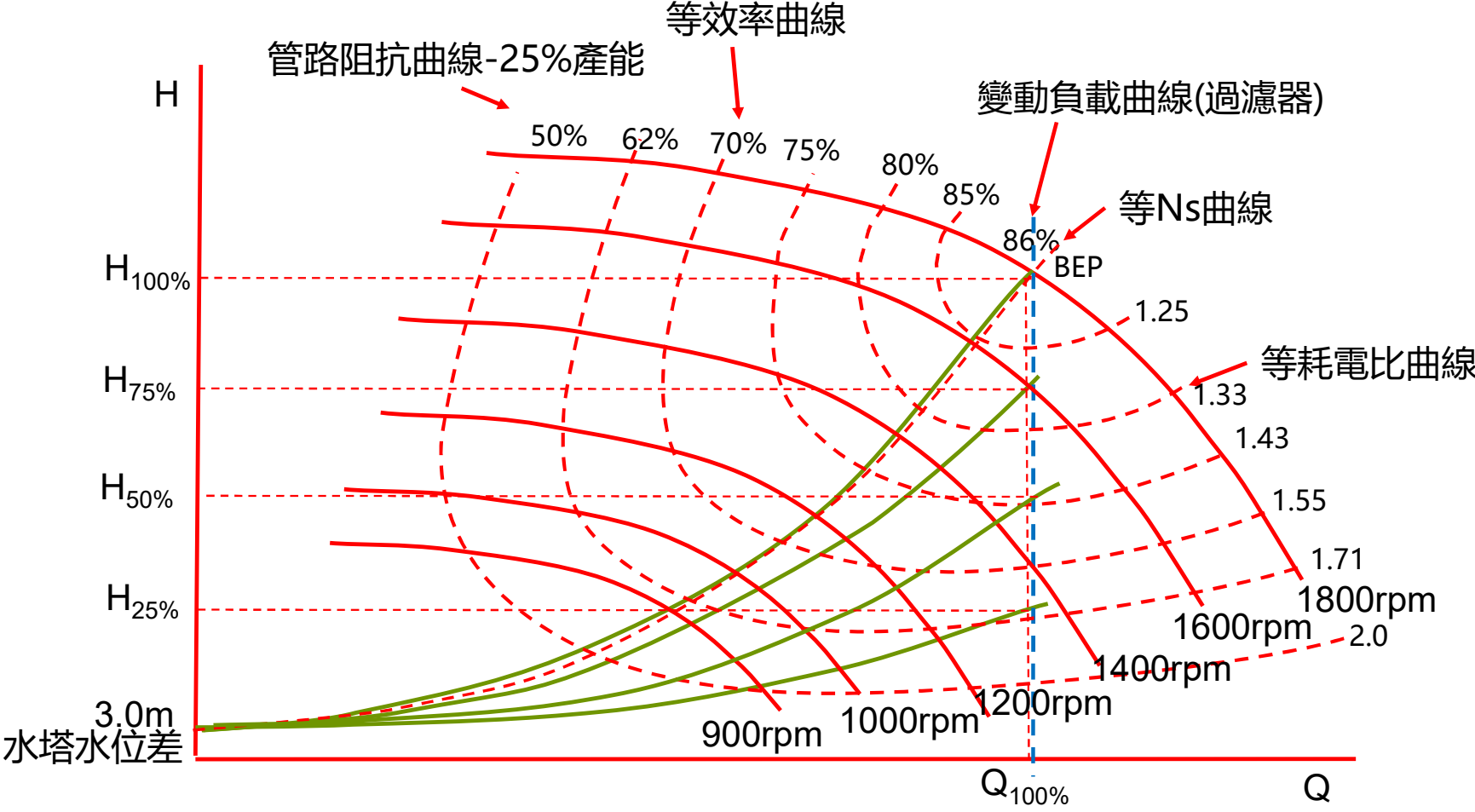
1. 泵浦變頻性能曲線

$$H_L = C_0 + C_1(Q_{110\%})^2$$

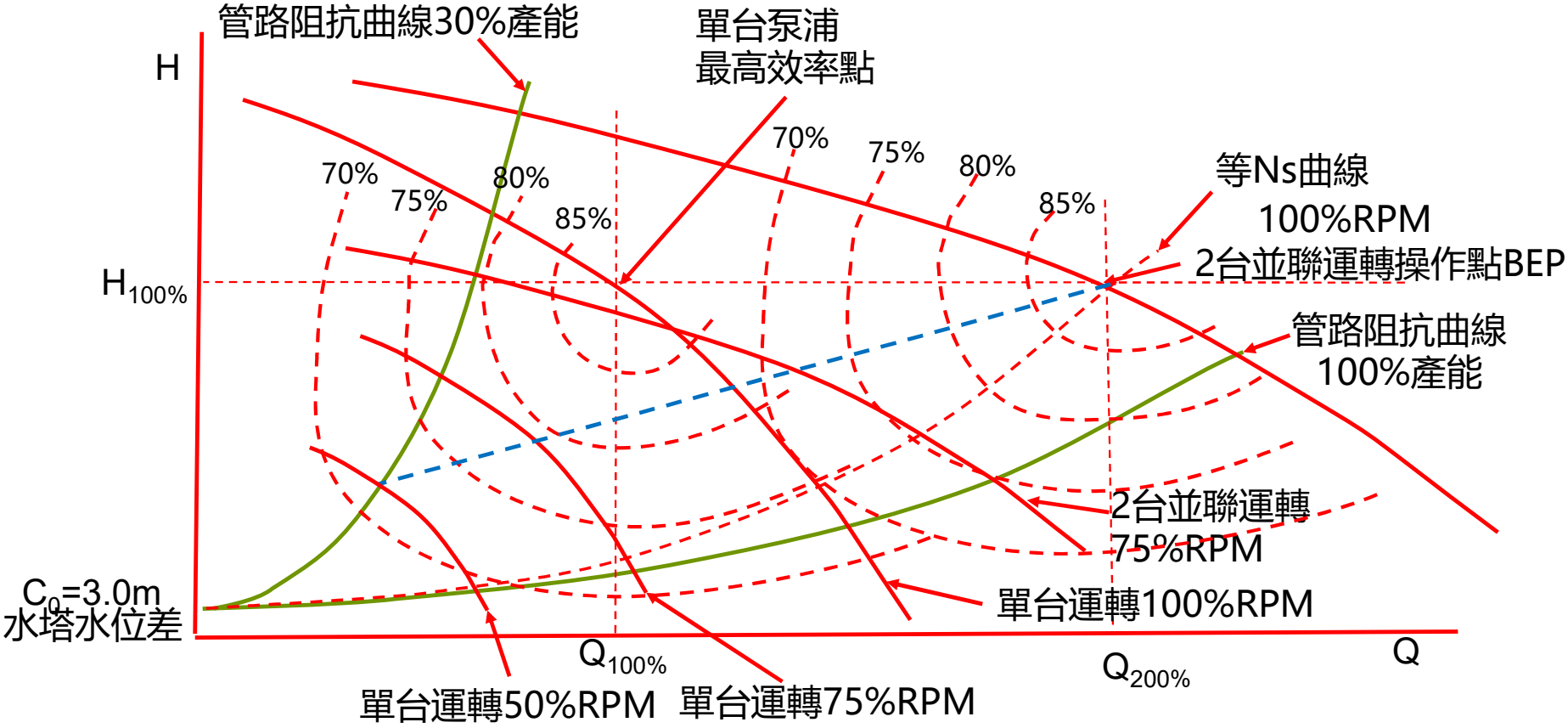
$$\text{耗電比} = \frac{1}{\eta_p} \times \frac{1}{\eta_m} = \frac{\text{輸出流功}(kW)}{\text{耗電功}(kW)} = \frac{1}{\text{總效率}\%}$$



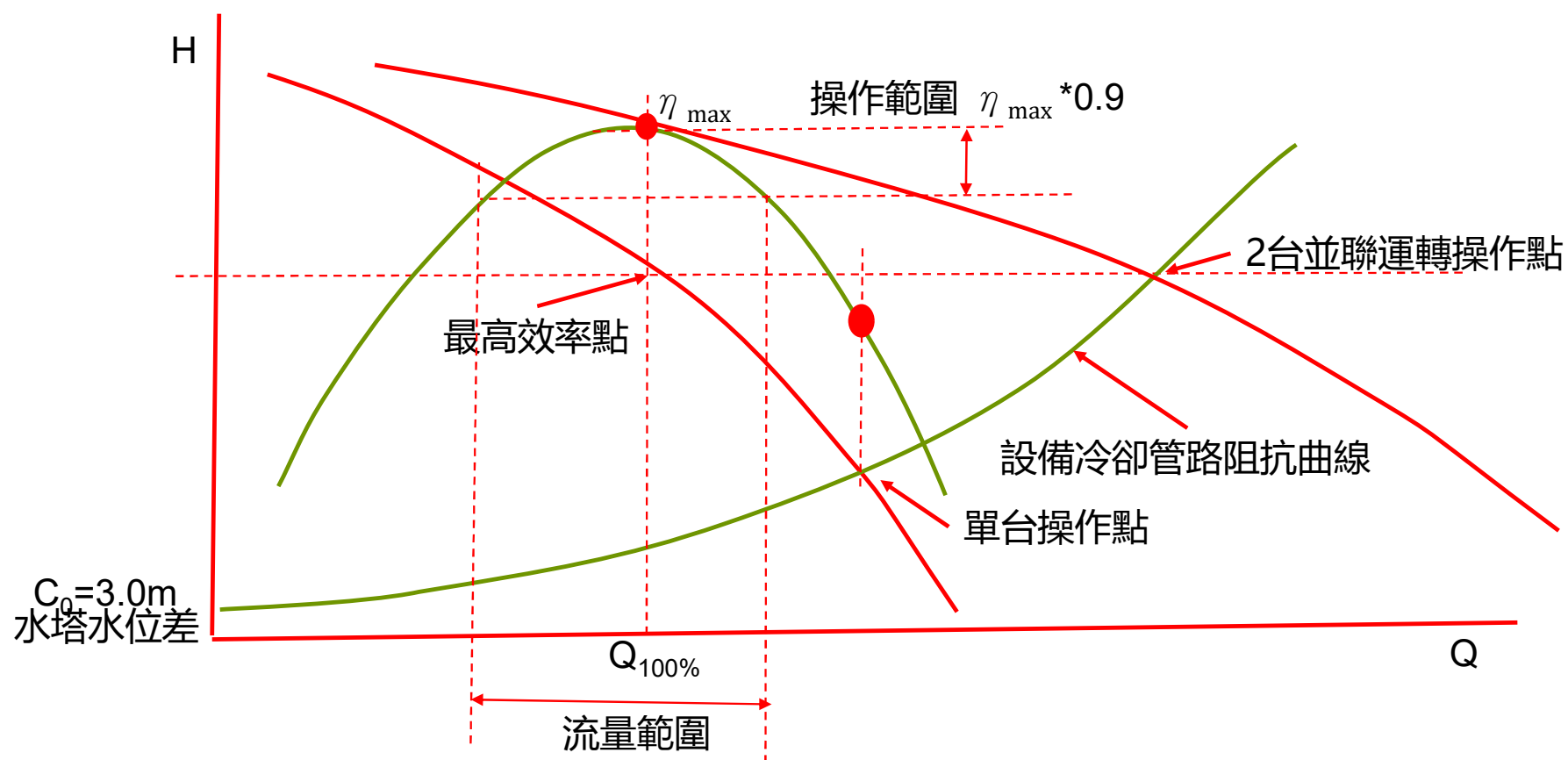
2. 泵浦變頻等流量曲線



3. 泵浦變頻並聯曲線

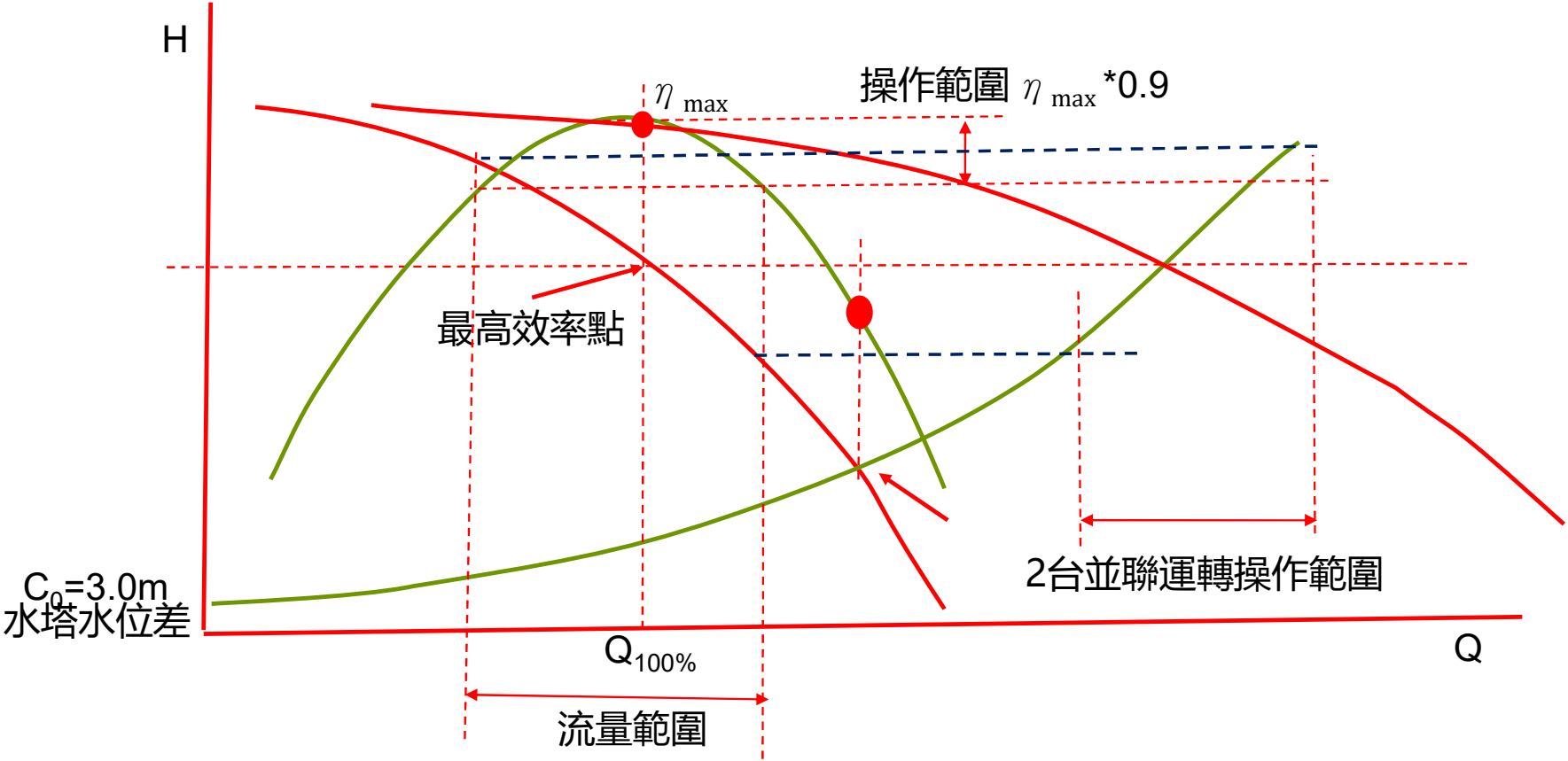


2. 二台並聯變頻泵浦的性能曲線



3. 二台泵浦並聯操作範圍

$$H_L = C_0 + C_1(2Q_{100\%})^2$$



4. 部份變頻並聯運轉

假設：單台1A泵的BEP，耗電比1.5

比較操作點：1A點、1.8A點、2A點，流量、揚程、耗電比

