

<예제 4. 49>

$W_{\min}$  과  $W_{\max}$  을 구하시오.

(1)  $W_{\min}$      $M_D = -200\text{N}\cdot\text{m}$

$$+\circlearrowleft \sum M_D = 0 : (200\text{N})(8\text{m}) - W_{\min}(5\text{m}) + (200\text{N})(4\text{m}) - (200\text{N}) = 0$$

$$\underline{W_{\min} = 440\text{N}}$$

(2)  $W_{\max}$      $M_D = 200\text{N}\cdot\text{m}$

$$+\circlearrowleft \sum M_D = 0 : (200\text{N})(8\text{m}) - W_{\max}(5\text{m}) + (200\text{N})(4\text{m}) + 200\text{N}\cdot\text{m} = 0$$

$$\underline{W_{\max} = 520\text{N}}$$

$$\underline{440\text{N} \leq W \leq 520\text{N}}$$