

3.

3.2

(1)

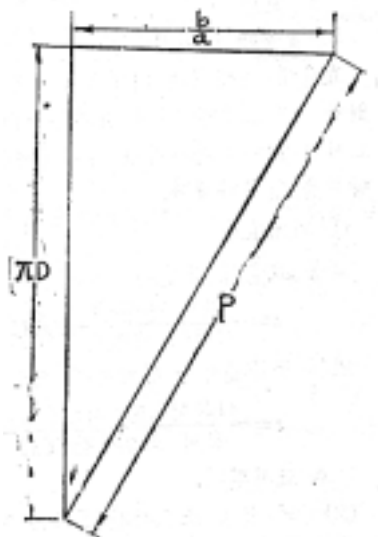
1) RTW

$$(\text{yds/min}) \times \frac{(\text{")}) \times \pi}{36} \dots\dots\dots$$

8 100% 1

$$(\text{kg}) = \frac{\times 60 \times 8 \times 0.4536}{840 \times} \dots\dots\dots$$

() a : 0.5



D : (in)

d : (in)

R : (rpm)

N :

T :

E :

1

P()

$$P = \sqrt{(\pi D)^2 + \left(\frac{d}{a}\right)^2}$$

$$T \qquad \qquad \qquad W(\qquad)$$

$$W = \frac{P \times R \times T}{N \times 36 \times 840}$$

$$a = 2.5 \qquad D = 3 \frac{1}{16}''$$

$$R=1,700\text{rpm} \quad d=5''$$

$$N=40'^s \quad T=480$$

$$E=60\%$$

$$P = \sqrt{\left(\pi \times 3 \frac{1}{16}\right)^2 + \left(\frac{5}{2.5}\right)^2} = 9.82(\text{in})$$

$$8 \qquad \qquad 1 \qquad \qquad W(\text{lb})$$

$$W = \frac{9.82 \times 1,700 \times 480}{40 \times 36 \times 840} = 6.26(\text{lbs})$$

2)

$$\text{a)} \qquad \qquad W(\text{kg} \qquad \text{lb})$$

$$W(\text{lb}) = \frac{D \times V_0 \times H \times 60}{840 \times N_e} \times \varepsilon$$

$$W(\text{kg}) = \frac{D \times V_1 \times H \times 60}{N_m \times 1,000} \times \varepsilon \qquad .$$

D :

V_0 : (yd/min)

V_1 : (m/min)

H :

N_e :

N_m :

ε :

b)

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$$\varepsilon = \text{—————} \times 100\% \cdots \cdots (1)$$

가

$$\varepsilon = \frac{(T_1)}{(T_A)} \times 100\% \cdots \cdots (2)$$

·

$$(2) \qquad (T_A) \qquad (T_1)$$

$$(T_L) \qquad \cdot$$

$$T_A = T_1 + T_L \cdot \cdot \cdot \cdot \cdot (3)$$

T_L

T_L

()

$$(T_L) \qquad \cdot$$

(2)

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7.	"
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9.	.

2)

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3)

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4)

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5) ()

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7)

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8)

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3.	가 .
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9)

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10)

1.	가 .



11)

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12)

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13)

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14)

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15)

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(3)

1)

- 2) , (異色), , .
- 3) 가 .
- 4) .
- 가 .
- , , 가 퀘 가 .
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- 1) .
- 2) .
- 3) .
- 4) 가 .
- 5) .
- 6) .
- 7) .
- 8) .
- 9) .