

ProHelp Millennium Real Time Display Calculations

$$\text{Average Machine Speed (Seconds/Cycle)} = \frac{\text{Run Time (Hrs)} * 3600 \text{ (Seconds/Hr)}}{\text{Production Cycles (Cycles)}}$$

$$\text{Average Cycle Time (Seconds/Cycle)} = \frac{\text{Run Time (Hrs)} * 3600 \text{ (Seconds/Hr)}}{\text{Production Cycles (Cycles)}}$$

$$\text{Yield Efficiency} = \frac{\text{Run Time (Hrs)} / \text{Good Production (Parts)}}{\text{Standard Yield Per Hour (Parts/Hr)}}$$

$$\text{Cycle Time Efficiency} = \frac{\text{Standard Cycle Time (Seconds/Cycle)}}{\text{Average Cycle Time (Seconds/Cycle)}}$$

$$\text{Shift Efficiency} = \frac{\text{Good Production (Parts)} / \text{Standard Yield Per Hr (Parts/Hr)}}{\text{Run Time (Hours)}}$$

$$\text{Plant Efficiency} = \frac{\text{Good Production (Parts)} / \text{Standard Yield Per Hr (Parts/Hour)}}{\text{Run Time (Hrs)} + \text{Down Time (Hrs)}}$$

$$\text{Utilization} = \frac{\text{Run Time (Hrs)}}{\text{Run Time (Hrs)} + \text{Down Time (Hrs)}} * 100$$

$$\text{Scrap Percentage} = \frac{\text{Scrap Production (Parts)}}{\text{Good Production (Parts)} + \text{Scrap Production (Parts)}} * 100$$

$$\text{Standard Yield Per Hour (Parts/Hr)} = \frac{\text{Standard Cavities (Parts/Cycle)} * (1 - \text{Scrap Percentage})}{\text{Standard Cycle Time (Seconds/Cycle)} / 3600 \text{ (Seconds/Hr)}}$$

$$\text{Production Goal (Parts)} = \frac{\text{Run Time (Hrs)}}{\text{Standard Yield Per Hour (Parts/Hour)}}$$