C & I ENGINEERING COMPANY LIMITED

The Efficiency Partner / Better Technology Group www.cni.co.th

DEFINITION OF PRINCIPAL S.I.UNITS

MASS

The unit of mass id the kilogramme (kg)

FORCE

The unit of force is the Newton, which imparts to a mass of 1 kg an acceleration of 1 metre per second per second

WORK AND ENERGY

The unit is the Joule=work produced by a force of 1 Newton over a distance of 1 metre

POWER

The unit is the Watt = one Joule per second

STRESS AND PRESSURE

The unit is the Pascal = a force of 1 Newton exerted on a surface of 1 m^2

Pa =
$$1N/m^2 = 1.0197 \cdot 10^{-5} \text{ kg/cm}^2$$