MFAMENTALS OF MECHANICAL PROTOTYPING



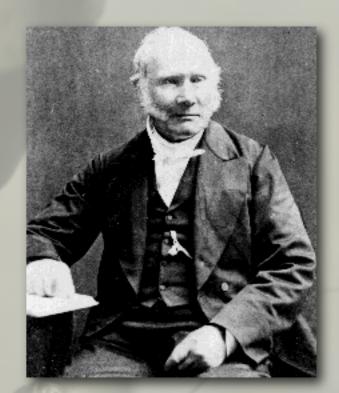


DR. ROBERT STIRLING

PATENT 1816

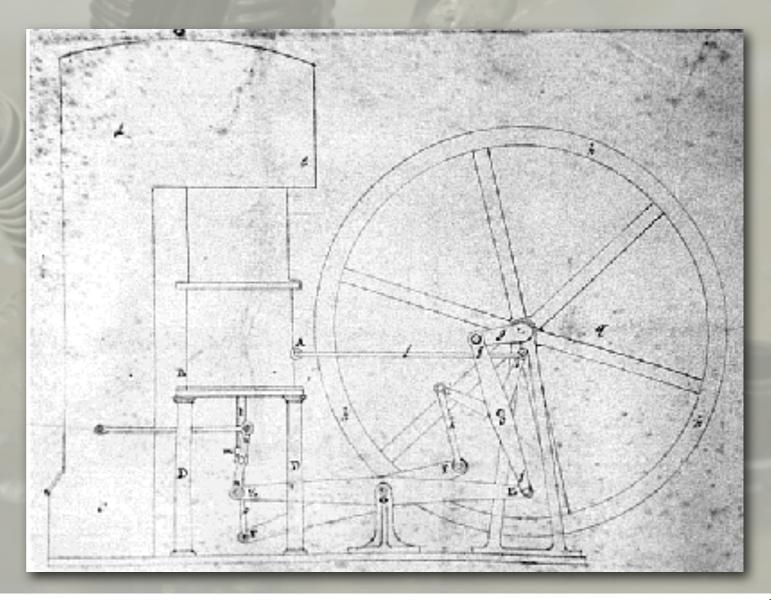
CLOSED-CYCLE REGENERATIVE HOT AIR ENGINE

THEORETICAL FULL CARNOT EFFICIENCY

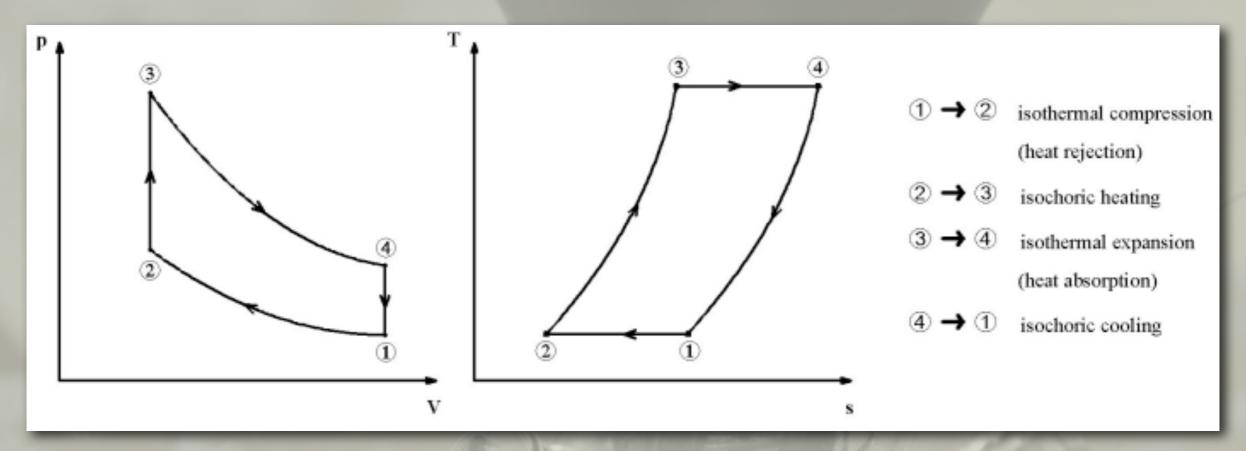


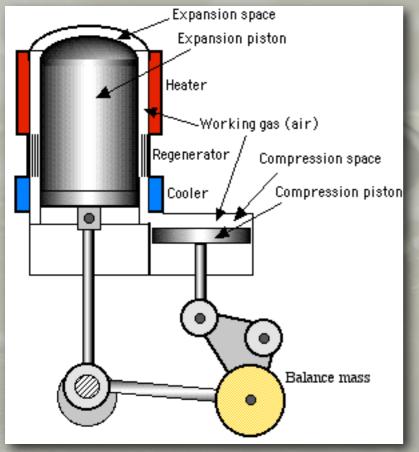
ANY HEAT SOURCE

SEMI-REVERSIBLE



THERMODYNAMICS OF THE STIRLING ENGINE









GENERAL GUIDELINES

KEEP YOUR PART FROM MOVING

VISE

SCREWS

BOLTS

CLAMPS

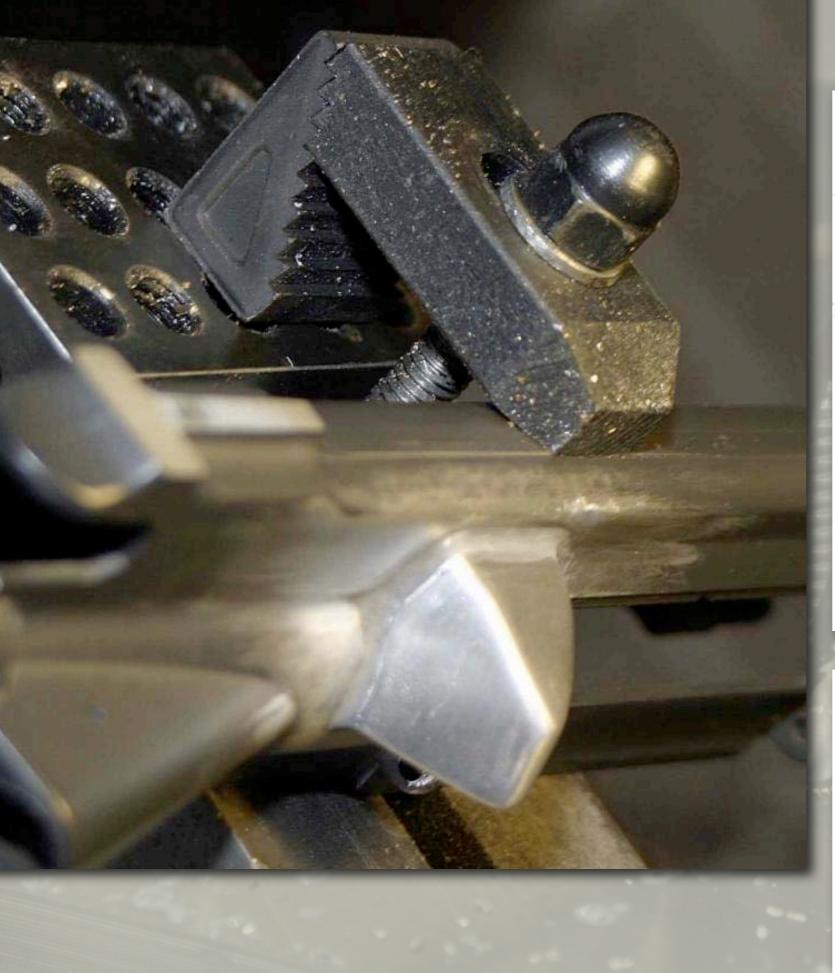
ETC.

LOCATE YOUR PART/BLANK

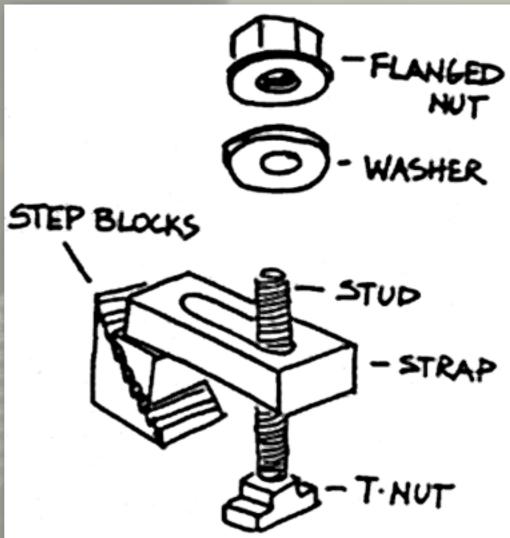
PINS

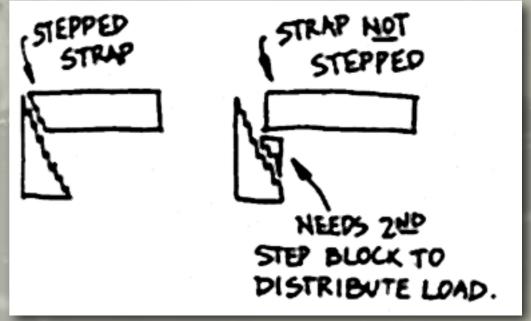
SHOULDER SCREWS

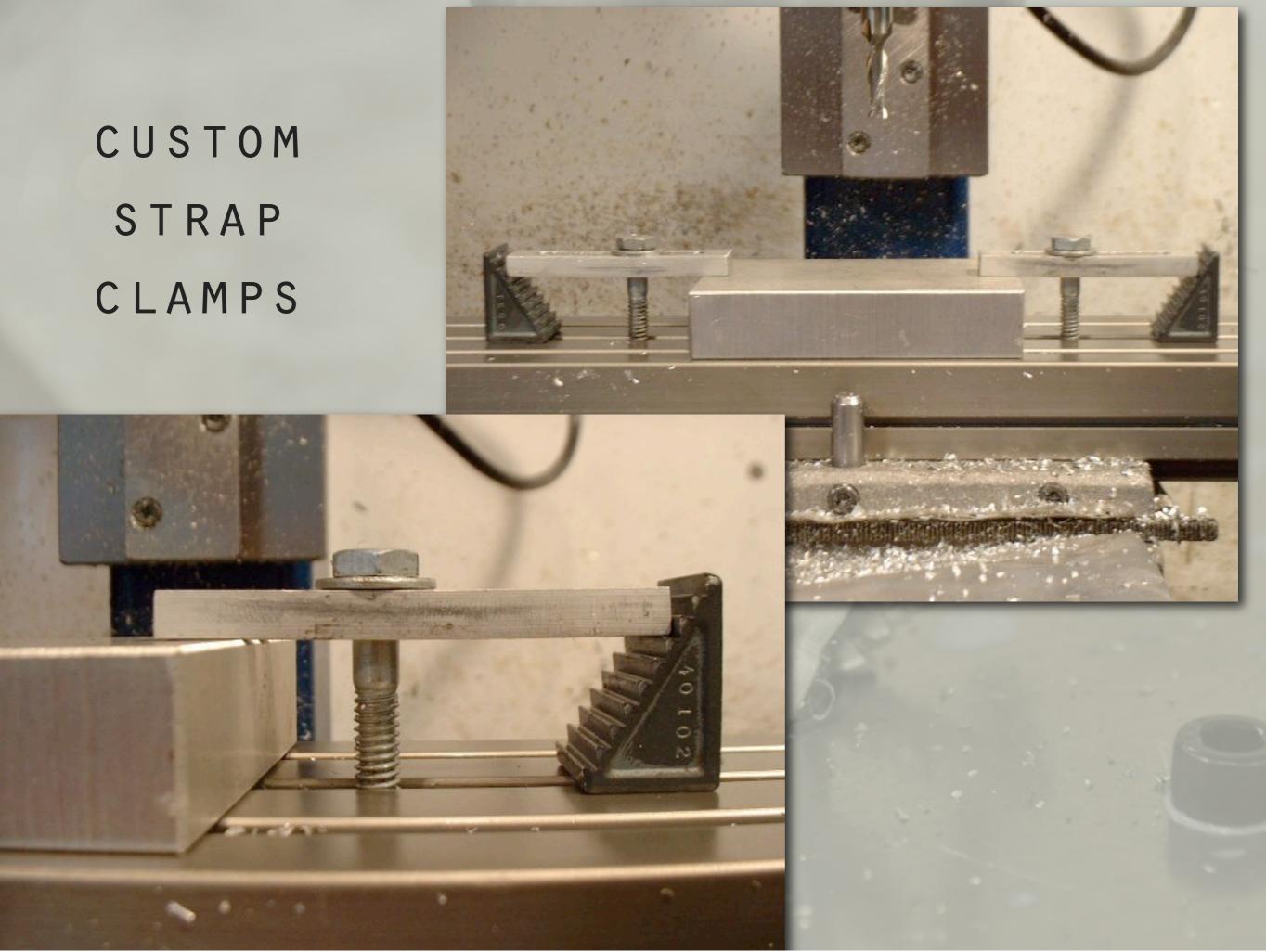
ETC.



STRAP CLAMPS



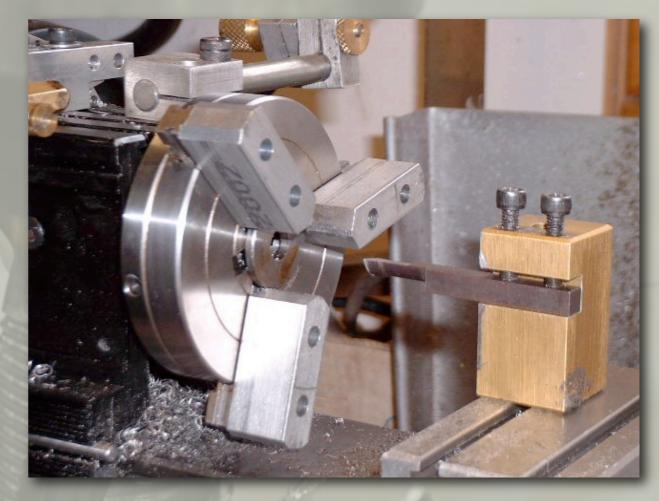


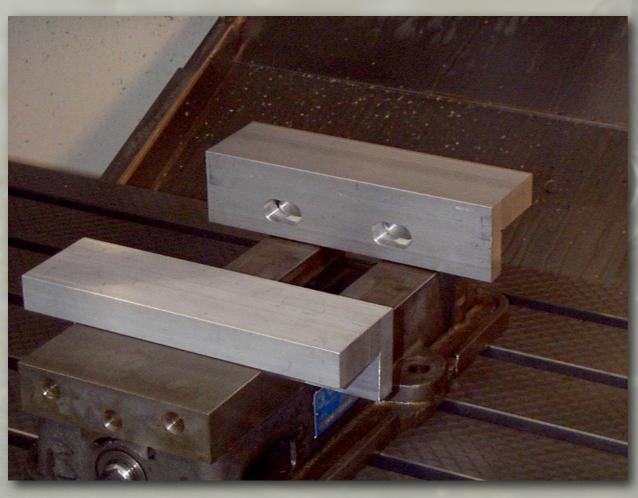


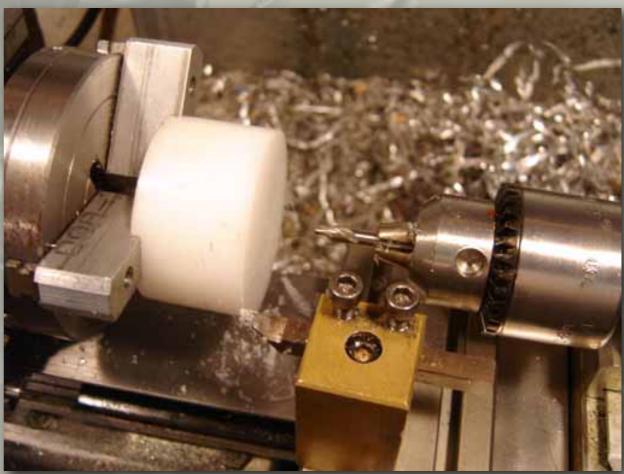


SOFT JAWS

ODD SIZES/SHAPES
MACHINABLE







CUSTOM FIXTURE ELEMENTS

MATERIAL: STEEL VS. ALUMINUM

LOCATING ELEMENTS: ARE SCREWS GOOD ENOUGH?

MACHINE SCREWS DOWEL PINS SHOULDER BOLTS





