

## Summary of study: Air compressor in a forging unit: Unit - 2

**Industry** : Forging

**Unit profile** : A forging unit located in Pune (Maharashtra)

**Technology** :

- Inverter type screw compressor
- Operating practice improvements

**Application** : Energy savings in compressed air system

**Year of investigation** : 2013

**Key features:**

- Replacing existing compressors with a combination of inverter screw compressor (75 kW X 1) and standard compressor (75 kW X 1)
- Installation of air dryer
- Reduction of discharge pressure
- Reduction of leakages

**Energy and cost saving:**

Details	Existing	Recommended
Compressed air system	160 kW X 2 units + 132 kW X 1	Inverter type (75 kW X 1) + Standard (75 kW X 1)
Power consumption kW(m <sup>3</sup> /min)	177	147
Power savings (%)		17

**Note:**

This report is an example for investigating the potential of application of Japanese low carbon technology (LCT) in Indian industries. Adoption of energy efficient technologies and practices can generate greater benefits in compressed air applications in industries.

