TRUTURN
PRECISION ENGINEERING

ENVIRONMENTAL POLICY

1. Introduction

Truturn Precision Engineering (Charfield) Ltd is committed to minimising the environmental impact of its operations as a CNC turning and milling manufacturer. We focus on precision engineering and lean manufacturing practices. We recognise our responsibility to protect the environment and aim to continually improve our environmental performance through sustainable practices.

2. Our commitment

We are committed to:

- Complying with all relevant environmental legislation, regulations, and other requirements pertaining to CNC machining and manufacturing.
- Preventing pollution and minimising our environmental impact through efficient resource use, waste reduction, and responsible disposal methods specific to CNC operations.
- Continually improving our environmental performance through setting objectives, monitoring progress, and reviewing our environmental management system, potentially aligning with standards like ISO 14001.
- Educating and training our employees on environmental issues and promoting environmentally responsible behaviour within the workplace, especially concerning machine operation, waste handling, and material usage.
- Communicating our environmental policy and performance to employees, customers, suppliers, and other stakeholders, fostering transparency and collaboration.

3. Our environmental objectives

We will work to achieve our commitment by focusing on the following key areas:

3.1. Energy consumption

Objective: To reduce energy consumption in our facilities and CNC turning and milling operations.

Actions:

- Monitor and track energy usage (electricity and potentially natural gas), considering different types of energy used in the sector.
- Invest in energy-efficient CNC machines and technologies, such as LED lighting.
- Optimise machining parameters like feed rate, cutting speed, and depth of cut to minimise energy use while maintaining quality.
- Implement energy-saving practices, such as switching off CNC machines and other equipment when not in use or using power-saving modes.
- Continue to use renewable energy sources, like solar panels, to reduce our reliance on grid electricity.

3.2. Waste management

Objective: To minimise waste generated from our CNC turning and milling operations and maximise recycling and reuse.

Actions:

- Implement waste reduction measures, such as optimising material selection and nesting parts closely to maximise material yield and reduce offcuts.
- Promote waste segregation for different types of metal chips and swarf (e.g., aluminum, steel, brass) to facilitate recycling.
- Implement systems for reclaiming and recycling scrap materials like swarf and offcuts, potentially selling them back into the supply chain or even converting them into feedstock for additive manufacturing.
- Responsibly dispose of hazardous waste, including spent cutting fluids and lubricants, according to legal requirements and working with certified waste disposal companies.
- Encourage suppliers to use minimal and recyclable packaging for deliveries.

3.3. Water and coolant management

Objective: To reduce water and coolant consumption in our operations and manage fluids responsibly.

Actions:

- Implement water-saving measures where applicable in facilities and processes.
- Utilise and maintain coolant recycling systems, including filtration, skimming, or centrifuges, to extend the life of coolants and lubricants, reducing waste and the need for fresh supplies.
- Explore environmentally friendly cutting fluids, such as vegetable-based or biodegradable options, where feasible.
- Ensure proper storage of coolants and lubricants in labeled sealed containers.
- Do not discharge coolants or machining fluids directly into drains or water sources.

3.4. Emissions and air quality

Objective: To minimise air emissions and maintain a clean and healthy working environment.

Actions:

- Utilise efficient dust and fume extraction systems to capture and filter fine particles, mists, and volatile organic compounds (VOCs) generated during CNC machining, protecting both indoor air quality and the external environment.
- Regularly maintain and inspect oil mist collectors to ensure they are operating effectively, returning clean oil to machines and clean air to the workplace.
- Explore eco-friendly lubricants and coolants that produce fewer harmful emissions.

3.5. Sustainable procurement

Objective: To consider environmental factors when purchasing goods and services.

Actions:

- Give preference to suppliers who demonstrate a commitment to environmental responsibility and offer environmentally preferable products.
- Prioritise products that are durable, reusable, energy-efficient, made from sustainably produced materials, and minimise waste and toxicity.
- Consider the recyclability and environmental impact of raw materials during the selection process.

3.6. Transport

Objective: To minimise emissions related to transportation of materials and finished products.

Actions:

- Optimise delivery and service routes to reduce travel time and fuel consumption.
- Explore and, where feasible, invest in more fuel-efficient or electric vehicles for transport.
- Encourage green travel alternatives for employees where possible.
- Focus on efficient logistics to reduce carbon emissions from the supply chain.

4. Responsibility and review

This environmental policy is supported by the management team at Truturn Precision Engineering (Charfield) Ltd, and all employees are responsible for adhering to its principles. We will regularly review this policy and our environmental performance, including conducting regular environmental impact assessments and annual management reviews. This ensures its continued effectiveness and relevance to our operations and compliance with evolving environmental regulations.

Signed: Print: Rebecca Beacham

Poisition: Managing Director

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