

**Gas turbines - Procurement - Part 5:  
Applications for petroleum and natural gas  
industries**

Gas turbines - Procurement - Part 5: Applications for  
petroleum and natural gas industries

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 3977-5:2003 sisaldab Euroopa standardi EN ISO 3977-5:2003 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 06.06.2003 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN ISO 3977-5:2003 consists of the English text of the European standard EN ISO 3977-5:2003.</p> <p>This document is endorsed on 06.06.2003 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p><b>Käsitlusala:</b> This part of ISO 3977 specifies requirements and gives recommendations for the design, materials, fabrication, inspection, testing and preparation for shipment of packaged gas turbines for use in drilling, production, refining and the transport by pipelines of petroleum and natural gas*</p>	<p><b>Scope:</b> This part of ISO 3977 specifies requirements and gives recommendations for the design, materials, fabrication, inspection, testing and preparation for shipment of packaged gas turbines for use in drilling, production, refining and the transport by pipelines of petroleum and natural gas*</p>
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**ICS** 27.040, 75.180.10, 75.180.20

**Võtmesõnad:** co, consumer- suppl, design, gas turbines, natural gas industries, order indications, orders, orders (sales documents), packages, packing, petrochemistry, procurements, recommendation, sales documents, specification (approval), specifications, suppliers, turbines

ICS 27.040; 75.180.10; 75.180.20

**English version**

**Gas turbines – Procurement**

**Part 5: Applications for petroleum and natural gas industries  
(ISO 3977-5 : 2001)**

Turbines à gaz – Spécifications pour l'acquisition – Partie 5: Applications pour les industries du pétrole et du gaz naturel (ISO 3977-5 : 2001)

Gasturbinen – Beschaffung – Teil 5: Anwendungen in der Erdöl- und Erdgasindustrie (ISO 3977-5 : 2001)

This European Standard was approved by CEN on 2002-12-18.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, the Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland, and the United Kingdom.

**CEN**

European Committee for Standardization  
Comité Européen de Normalisation  
Europäisches Komitee für Normung

**Management Centre: rue de Stassart 36, B-1050 Brussels**

## Foreword

International Standard

ISO 3977-5 : 2001 Gas turbines – Procurement – Part 5: Applications for petroleum and natural gas industries, which was prepared by ISO/TC 192 'Gas turbines' of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 12 'Materials, equipment and offshore structures for petroleum and natural gas industries', the Secretariat of which is held by AFNOR, as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by August 2003 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard:

Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, the Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland, and the United Kingdom.

## Endorsement notice

The text of the International Standard ISO 3977-5 : 2001 was approved by CEN as a European Standard without any modification.

## Introduction

Users of this part of ISO 3977 should be aware that further or differing requirements may be needed for individual applications. This part of ISO 3977 is not intended to inhibit a packager from offering, or the purchaser from accepting, alternative equipment or engineering solutions for the individual application. This may be particularly applicable where there is innovative or developing technology. Where an alternative is offered, the packager should identify any variations from this part of ISO 3977 and provide details.

## 1 Scope

This part of ISO 3977 specifies requirements and gives recommendations for the design, materials, fabrication, inspection, testing and preparation for shipment of packaged gas turbines for use in drilling, production, refining and the transport by pipelines of petroleum and natural gas. It is applicable to the procurement of gas turbines and gas turbine systems, including gas turbines for combined cycle systems, and their auxiliaries by a purchaser from a packager.

This part of ISO 3977 is not intended to deal with local or national legislative requirements to which the installation may be required to conform.

## 2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 3977. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 3977 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 3977-1, *Gas turbines — Procurement — Part 1: General introduction and definitions*

ISO 3977-2, *Gas turbines — Procurement — Part 2: Standard reference conditions and ratings*

ISO 3977-3, *Gas turbines — Procurement — Part 3: Design requirements*

ISO 3977-4, *Gas turbines — Procurement — Part 4: Fuels and environment*

ISO 3977-7, *Gas turbines — Procurement — Part 7: Technical information*

ISO 3977-8, *Gas turbines — Procurement — Part 8: Inspection, testing, installation and commissioning*

ISO 3977-9, *Gas turbines — Procurement — Part 9: Reliability, availability, maintainability and safety*

ISO 11086, *Gas turbines — Vocabulary*

## 3 Terms and definitions

For the purposes of this part of ISO 3977, the terms and definitions given in ISO 11086, ISO 3977-1, ISO 3977-3, ISO 3977-4, ISO 3977-8 and ISO 3977-9 apply.