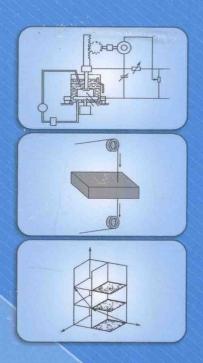
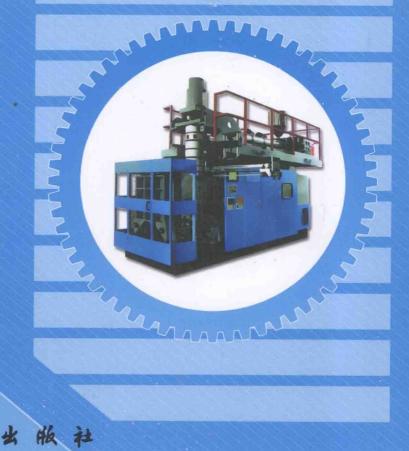


高职高专"十二五"规划教材

度是药语







航空工业出版社

模具英语

English for Mold & Die

主编楼四骏

0-8010-8818 T-858 VO

近海外一周的位 田 一個市 田 一海市

and the second s

ANDIN NIDAY

航空工业出版社

中的人们的人工作的人工作。

内容提要

本教材共七个单元,对模具专业领域的主要内容进行了立体化的介绍,内容分别为模具介绍、模具 企业简介、开模客户服务流程、模具成型类型及产品、模具故障排除、模具的加工方法以及相应的设备、 模具报价与合同等。

本教材是高职高专模具相关专业的英语教材,也可作为商务英语、应用英语专业学生的行业英语选修课教材。

图书在版编目(CIP)数据

模具英语 / 楼四骏编著. -- 北京: 航空工业出版 社,2012.12 ISBN 978-7-5165-0103-0

I. ①模… II. ①楼… III. ①模具-英语 IV. ①H31

中国版本图书馆 CIP 数据核字(2012)第 271956 号

模具英语 Muju Yingyu

航空工业出版社出版发行 (北京市安定门外小关东里 14 号 100029)

发行部电话: 010-64815615 010-64978486

1/16

北京忠信印刷有限责任公司印刷

全国各地新华书店经售

2013年1月第1版

2013年1月第1次印刷

开本: 787×1092

印张: 12.25 字数: 306 千字

印数: 1-3000

定价: 29.80元

前言

20 世纪 90 年代以来,我国模具业高速发展,行业规模日益壮大,技术水平不断提升。 我国的模具外贸业务也在不断扩大,模具设计和模具制造等岗位对从业人员英语水平的要求 越来越高。为帮助学生了解模具的相关背景知识和专业术语表达,提高学生阅读专业英语资 料的能力,我们编写了本教材。

本教材共七单元,对模具专业领域的主要内容进行了立体化的介绍,内容包括模具介绍、模具企业简介、开模客户服务流程、模具成型类型及产品、模具故障排除、模具的加工方法以及相应的设备、模具报价与合同等。

每个单元基本框架及其特点如下:

- (1) Warming-up: 导入部分,利用图片、视频资料,引起学生对单元学习内容的兴趣;
- (2) Situational Dialogue: 情景对话均摘录一线模具外贸业务员与外商的真实对话,实用性高;
- (3) Focus Reading (Text A, Text B, Text C): 焦点阅读共三篇,每篇之后都有相应的新单词释义和辅助练习帮助学生理解文章,熟记模具相关术语;
- (4) Fast Reading: 快速阅读,加大信息量,加深学生对专业词汇的印象,对所学内容进行深化:
 - (5) Field Training: 实战训练,模拟真实场景,训练与外国模具同行有效沟通的能力;
 - (6) Supplementary Reading: 补充阅读,适合对模具英语学习有浓厚兴趣的高职学生;
- (7) Related Knowledge: 相关背景知识,让学生了解模具相关知识。考虑到高职学生的英语能力,本部分用中文编写,便于学生读懂、学会。

本教材插图资料丰富,教材的设计注重重要知识点的重现和复习,并根据德国著名职教改革专家托马斯· 胡格教授的职业教育理念,特别设有 Team work, Presentation, Field training 等训练项目,让学生在做中学,从而更加牢固地掌握所学的知识。

本教材是高职高专模具相关专业的英语教材,也可作为高等院校商务英语、应用英语专业学生的行业英语选修课教材。

本教材由王维平总体策划;楼四骏担任主编,设置单元的基本框架和难度要求;蒋轶阳、杨晓青、许唱、张倩和邓琳担任副主编;李宏磊、翁晓梅、阳振林、王建成参与编写;并由董彦担任教材的主审工作。在编写过程中还得到宁波埃利特模具制造有限公司和宁波通成汽配有限公司的大力支持,在此表示感谢。

由于编写时间仓促,加之编者水平有限,书中疏漏与不当之处在所难免,敬请读者批评指正。

CONTENTS

Unit	1 Introduction	1
	Warming-up	1
	Situational Dialogue	3
	Focus Reading	4
	Fast Reading	. 14
	Field Training	. 19
	Supplementary Reading	. 20
	Related Knowledge	. 21
Unit	2 Company Profile	. 23
		. 23
	Situational Dialogue	
	Focus Reading	. 25
	Fast Reading Sugolated lecorbactus	. 37
	Field Training	. 42
	Supplementary Reading.	. 43
		. 46
Unit	t 3 Customer Service.	. 49
		. 49
	Situational Dialogue	. 50
	Focus Reading	. 52
	Fast Reading	. 67
	Field Training	72
	Supplementary Reading	. 74
	Related Knowledge	76
Unit	t 4 Shaping Modes and Parts	79
	Warming-up	79
	Situational Dialogue	80
	Focus Reading	81
	Fast Reading	94



Field Training	100
Supplementary Reading	101
Related Knowledge	
Unit 5 Trouble Shooting	109
Warming-up	109
Situational Dialogue	111
Focus Reading	112
Fast Reading	124
Field Training	130
Related Knowledge	134
Unit 6 Machine Tools	136
Warming-up	136
Situational Dialogue	
Focus Reading	
Fast Reading	
Field Training	
Supplementary Reading	158
Unit 7 Quotation and Contract	163
Warming-up	163
Situational Dialogue	164
Focus Reading	166
Fast Reading	179
Field Training	183
Supplementary Reading	185
Related Knowledge	188
References	189

Unit 1 Introduction

Warming-up

Task 1 Team work

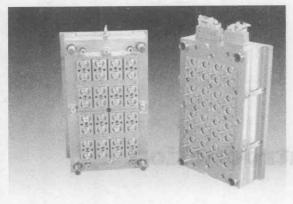


Do you have any idea of mold and mold products? Do you know what are they? What does mold have to do with our day-to-day life? Work in teams and get some information from your classmates.

Task 2 Pick out mold and mold products

Quite confused about mold? Don't worry, exam the following 10 pictures, you may get some ideas of mold. Warning! Not all of the pictures are mold or mold products, try to figure out the right ones.







Pic.1

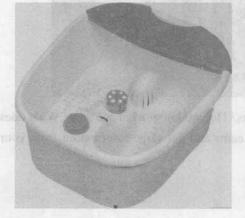
Pic.2







Pic.4





Outre confused a 8.319 mold. Don't works exam the following 6.319 cities as more ideas of mold. Wermage two all of the pictures are mold products; by to figure out the picture and ones.

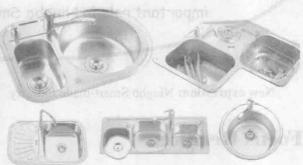






Pic.7 Dig forty/ Sasigmoxa since svig Pic.8 DJ





Pic.9 Pic.10

Situational Dialogue

A: Good morning, Lisa. Where are you going?

B: I am going to the library to borrow some books about molds, as my investigation thesis focuses on molds industry in Ningbo.

A: As far as I know, there's a wide range of molds and on which one you are going to investigate?

B: I've no idea about that. Please tell me more.

A: OK, usually we classify the mold in two groups: metal products mold and nonmetal products mold. For metal products mold, we have metal processing mold including cold-press mold, forging mold and pressing mold, metal casting mold and powder metallurgy mold. While for nonmetal products mold, we have plastic mold, ceramic mold, rubber mold, glass mold, food

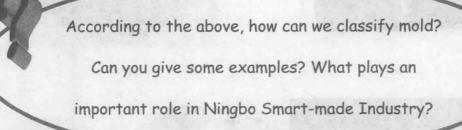


mold, ornament mold and so on.

B: Whao... I never realized the mold family gets such amount of members. What type do you suggest me to investigate on, especially in the setting of Ningbo city.

A: If I were you, I will choose plastic mold, or to narrow down the topic, injection plastic mold, as it plays an important role in Ningbo Smart-made Industry.

B: Sounds sensible, thank you for giving me such precious suggestion!



New expression: Ningbo Smart-made Industry "宁波智造"

Focus Reading

Text A

Task 1 Pre-reading

Find the definition of Injection Molding and share it with your classmates.

Do it by yourself, not waiting for the teacher's help.

Injection Molding Affects Our Day-to-day Lives

Many products that we use in our everyday lives are made by the process of plastic injection molding. This process is used when large quantities of plastics items are made, as a single mold will produce the same item many times over. It is the most important part of the plastic manufacturing process. A large range of different products are produced using this process.

The process itself used to be undertaken manually by people in the factory but today the process is fully automated and controlled by a central processing unit. The process involves powdered thermoplastic plastic being fed into the machine and the plastic is then melted down. The plastic is injected into the mold cavity, which is warmed to prevent the plastic from hardening before the mold is full, and then pressure is exerted to keep the plastic in the mold while it hardens. The end result is that the plastic takes on the shape of the mold cavity, which is the finished product, whatever that may be.

Food Industry







view and off-19 guillant notice in the Fig1-1" Containers with all stag all and exact amounts has

Our food industry of today would struggle without this process as many containers and other plastic items that are used are made by this process. Bottles, ice cream containers and margarine containers are all made using this process, as are many other containers that hold food. Smaller items like bottle tops are also made using this process, as well as things like milk crates. Plastic bottles and containers have replaced glass with many food items. Plastic is cheap to produce and light to transport.

Around the home







Fig1-2 Toy car, laundry basket and disposable razor

Many of the plastic items you use around your home are made using the process of injection



molding. The plastic plug in your sink and bathtub is made using this process, as is your plastic rubbish bin, laundry basket, disposable razors, bottles, storage containers, as well as children's toys. There are many handy items around your house that are made using injection molding, items that now only exist because of this process.

Technology







Fig1-3 Computer, camera and photocopier

Technology also benefits from this process. Things like computers, printers, photocopiers and cameras have plastic parts in them that are produced by injection molding. Plastic items vary from the very large to the very small, including things like parts of industrial copiers and the keys on your computer keyboard.

Recreation and Travel







Fig1-4 Water craft, kit car and plastic tray

We use many different things made from plastic in our everyday lives, including things used for sports, recreation and entertainment. Today's water sports are made possible because of injection molding as sometimes hulls of boats and parts of other water craft are made using this process. Plastic sports equipment is made this way, which is often used in junior competitions, as well as training aids like plastic cones. Even when we travel we come across things made by this process. The meals on an air plane come served on a plastic tray, there are plastic parts in the

interiors of trains and even the body shells of kit cars are made from plastic which has been molded using injection molding.

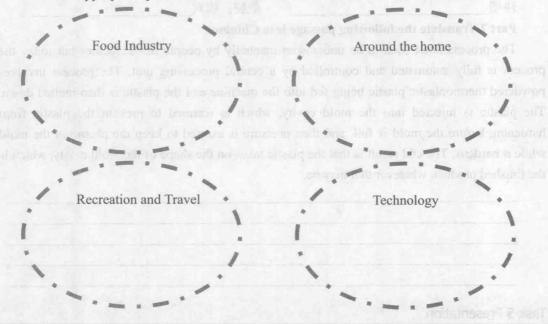
Glossary

injection molding 注塑
automate v. 自动化;使自动化
thermoplastic adj. 热塑性的
cavity n. 型腔,模穴
exert v. 运用;发挥
crate n. 板条箱
plug n. 塞子;插头
razor n. 剃刀

photocopier n. 复印机 hull n. 船体; 外壳 craft n. 小船; 手艺 cone n. 圆锥体 tray n. 托盘 interior n.&adj. 内部; 内部的 kit car 组装车

Task 2 Classification

Find the appropriate products in the text to match the relative fields in our lives.



Task 3 Reading Comprehension

Answer the following questions according to the text.

1. Can you list some products we use in our daily lives that are made by the process of plastic injection molding? You may not just list the products mentioned in the text.

2. Can we call a plastic crate a n	nold? Why?	ven the body a notifing	n bus emin minopolism	to rectratu shu leblest
			1 10	Real D
3. Is a desktop computer a mold	product? Why?		grabioto a	
4. Have you got some ideas of r	mold and the produ	The state of the s	ney closely r	0011111111
ife?				
- Children Hally Alban Sons		N and		
Task 4 Translation			KW1.n	Tomas .
Part 1 Translate the following to	erms into English.			
热塑性塑料				alecton 20
注塑			THE CONTRACTOR	
Part 2 Translate the following p	assage into Chine	se.		
The process itself used to be un-	dertaken manually	by people in t	he factory b	ut today the
process is fully automated and contr	colled by a central	processing un	it. The proc	ess involve
powdered thermoplastic plastic being	fed into the machi	ne and the plas	tic is then n	nelted down
The plastic is injected into the mol	d cavity, which is	s warmed to p	revent the	plastic fron
nardening before the mold is full, and	d then pressure is	exerted to keep	the plastic	in the mole
while it hardens. The end result is that	t the plastic takes o	n the shape of t	he mold cav	ity, which is
he finished product, whatever that ma	y be.			
www.combast.	N	LiverTheo	normost.	

Task 5 Presentation

Use the pictures from Warming-up(Task 2) and Text A as your references to make a presentation in your group about the influence of injection molding on our day-to-day lives.





Text B

Task 1 Pre-reading

Search the following terms on the Internet and write down your own understanding about them.

1. blanking die	
	Se vill is at specialis
	The state of the s
2. bending die	
	The second of th
	con a part with the contract
3. drawing die	Property of the State of the St
en Frenchi	Alberta bur direct
TOTAL IN THE STATE OF THE	All the second s
4. forming die	emics only thirth white
	ALLE BUT A Shares
	the Art a water

What Is Mold or Die?

Mold is a shaped hollow container into which a liquid material is poured so that it can set in a particular shape when it hardens.

Die is a device used for cutting out, forming, or stamping material, especially:

- (1) An engraved metal piece used for impressing a design onto a softer metal, as in coining money.
- (2) A part on a machine that punches shaped holes in, cuts, or forms sheet metal, cardboard, or other stock.



(3) A metal block containing small conical holes through which plastic metal, or other ductile material is extruded or drawn.

Die is used for drawing wire, and for blanking, bending, cutting, machine forging, and embossing. Die used for striking, or stamping, coins and medals are cut in intaglio, one for the front, another for the back, of the coin. Diemaking, formerly entirely a hand process in which the graver (a cutting tool), riffler (a file), and chisel were employed, has been accelerated in mordern times by the use of diemaking machines supplemented by hand finishing. Sheet metal or other material is blanked out, shaped, or embossed between the dies by power-operated levers or drop hammers, or by die-casting. The die used for drawing wires or extruding rods is made of hard metal with a hole or a series of progressively smaller holes through which the metal is forced. For making screws or threading pipe, a hollow hard metal die with internal threading is used.

Glossary

hollow adj. 凹的,中空的

container n. 容器, 箱

pour v. 灌注, 倾倒

die n. 冲模, 钢型, 硬模

stamp v. 牙印, 压花, 冲压

engrave v. 雕刻

coin v. 冲制, 模压, 压花纹

punch v. 冲孔, 打孔

sheet metal 金属板 (片), 钣金件

cardboard n. 纸板

stock n. 原料, 材料

conical adj. 圆锥的, 圆锥形的

ductile adj. 可延展的, 可锻的

extrude v. 挤出,挤压成

draw v. 拉深, 拉拔

mold n. 模具

drawing wire 金属拉丝 Sald To Bloom A Thorag

blank v. 冲裁, 下料, 冲切 proping a conference would be quite a st block

bend v. 弯曲

forge v. 锻造, 锤炼 management and animal more management and animal more management and animal management animal management and animal management animal management and animal man

emboss v. 压纹, 轧花, 浮雕

intaglio v. 凹雕, 阴雕

graver n. 雕刻师

riffler n. 曲锉 (用来雕模)

n 1/

file n. 锉刀

chisel of n. 錾子) were ash dealer or record band a visitive wheerant, random of U.E.

accelerate v. 加速, 促进 mm m benericon mod and the works are seen as file

supplement v.&n. 补充,补足

power-operated 机(电/自)动的,动力驱动的

lever n. 杆, 控制杆, 杠杆

drop hammer 落锤,吊锤,打桩锤

die-casting 压(模)铸法,压模铸件

rod n. 杆, 棒

progressive adv. 渐进地

screw n. 螺钉,螺旋,螺杆,螺孔

thread n. 螺线 v. 攻螺纹,套螺纹

internal adj. 内在的, 内部的

progressive die 级进模

scrap strip 废料板

Task 2 What's the difference between mold and die? Examine the following statements and decide whether they are True or False.

		1. A	mold	is a	specia	alized	tool	used	in	manu	facturi	ing	industries	s to	cut	or	shape	material
usin	gaj	press	di qu															

- □ 2. A mold shapes things. A die cuts things to a shape.
- ☐ 3. Products made with dies range from simple screws to complex pieces used in advanced technology
- ☐ 4. The process of moldmaking is undertaken manaully by people while the process of diemaking is automated and control by a machine.

Task 3 Translation

Translate the following sentences into Chinese.

1. Mold is a shaped hollow container into which a liquid material is poured so that it can set in a particular shape when it hardens.

2. Die is a device used for cutting out, f	forming, or stamping material.
--	--------------------------------