2006. 9

1.		(RPM)	
	1.1		
	1.2		
	1.3		
	1.4		
	1.5		5
	1. 6		7
	1. 7		7
2.			
	2.1		12
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	2.4.1		
	2.4.	2	
	2.4.3		14
	2.5		
	2.6		
	2.7		16
	_ ·		10

# 1. (RPM)

## 1.1

- RPM
   RPM RPM
- 3. RPM

# 1.2

 1. CAD

 2. STL STL FDM

 3.

 4.

 5.

# 1.3

1. FDM 2. 3. PVC

### 1.4

#### 1.4.1

(Rapid Prototyping, RP)	20	80	
		RP	

#### 1.4.2 RP

RP	CAD		
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2	STL		
	CLI	(	)
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2 LOM

#### 1.4.4

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#### 1.4.5

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#### ♦ STL

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# 1.5

1.5.1

	FDM
MEM250	
	CATIA
*.STL	STL

99032\_taoyifei.stl

# 1.5.2

99032\_taoyifei.cli

.CLI

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CLI

220 70

100× 100× 1mm

1.5.4 1.5.5 word 

1. 6		
1)		
2)	80× 80× 50mm	
3 4) 5)	5mm 990	32_taoyifei.cli
1. 7		
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# 1 CAD STL

Alibre	File	-> Export	-> Sa	veAs		.STL	->	-> Save
AutoCAD	_		XYZ				"Fa	ceters" ->
	FACET	RES 1 ´	10	(1		10	) ->	
	"	STLOUT" ->	->	> "`	Y"		->	
CADKey	Export		Stereolitho	graphy				
I-DEAS	File	-> Export	-> Ra	pid Proto	otype File		->	
	->Se	ect Prototype	Device	> SL	A500.dat	-> ab	solute facet	
	deviation		0.000395	->	Binary			
Inventor	Save Copy	As	->	STL	->	Opti	ons	
	High							
IronCAD			-> Part Prop	erties		> Rende	ring	->
	Facet Surfa	ce Smoothing			150 -> Fi	le	> Export	->
	.STL							
Mechanical	AMS	TLOUT	STL					
Desktop			STL					
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ProE	1. F	File	-> Exp	ort	->	Model					
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SolidDesigner	File	-:	> Save	-	>		ST	L			
(Version 8.x)											
SolidDesigner	File	-:	> External		-> Sav	e STL		STL	->	Binary	
(not sure of		->	->	0.001	mm	Max D	eviatio	n Dista	nce		
version)											
SolidEdge	1. Fi	le	-> Save	As		->			STL		
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Think3	File	-:	>SaveAs		->			STL			
Unigraphics	1. Fi	le	> Export		> Rapid	Prototyp	bing		->		Binary
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# 2.

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  - 2.
  - 3.

## 2.3

- 1.
- 2.
- 3.

# 2.4

2.4.1



Force Microscope Employing Laser Beam Deflection for Force Detection, Laser-AFM ——

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Laser Diode

Cantilever

Detector

10<sup>-9</sup>

# (Feedback)

2.4.2

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2

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80%



2.4.5



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