

Which of the following materials has the highest machienability index.

- a. aluminium
- b. copper
- c. steel
- d. tungsten



Abrasive water jet machining is one of the advanced machining processes. Briefly describe the operation principle of this process, its impact on the capability of manufacturing industry, mention two examples of A.W.J.M products, the impact of this process on the environment and when is A.W.J.M advised to be used as a manufacturing process from an economical point of view (don't copy and paste from your lecture notes answer it in your words)

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↓ A ▾ B I ≡ ≡ ∞ ∞ 🖼

I

what are the two basic categories of cutting edges (cutting tools) in conventional machining? Give two examples of machining operations that use each of the tooling types.

↓ A ▾ B I ☰ ☷ ∞ ⚙ 🖼

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Time left 0:19:48

Crater wear occurs mainly on the

- a. front face only
- b. face of the cutting tool at a short distance from the cutting edge only
- c. cutting edge only
- d. nose part, front relief face and side relief face of the cutting tool

Quiz nav

1

2

9

10

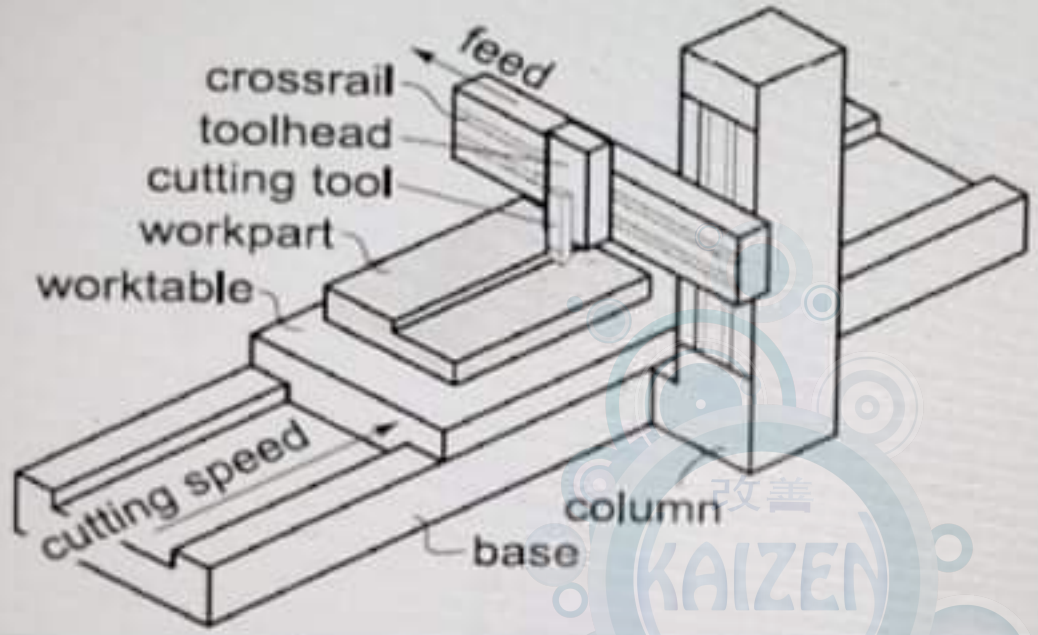
17

18

Finish atte

Not yet
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1.00
Flag
question

The following figure refers to manufacturing process



- a. planing
- b. turning
- c. shaping
- d. sawing



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Time left 0:04:18

Flag question

In a turning operation the tool life of the carbide tool was found to be 20 minute and 100 minute at cutting speeds of 120 m/min and 60 m/min respectively. What will be the tool life of the tool under the same condition but at a cutting speed of 100 m/min?

- a. 31 minutes
- b. 41 minutes
- c. 36 minutes
- d. None of them

Time left 0:10:41

Abrasive water jet machining is one of the advanced machining processes. Briefly describe the operation principle of this process, its impact on the capability of manufacturing industry, mention two examples of A.W.J.M products, the impact of this process on the environment and when is A.W.J.M advised to be used as a manufacturing process from an economical point of view (don't copy and paste from your lecture notes answer it in your words)

Rich text editor toolbar with icons for undo, bold, italic, bulleted list, numbered list, link, unlink, and image. The main text area contains a large watermark logo for 'KAIZEN TEAM' with the Japanese characters '改善' (Kaizen) above it. A cursor is visible in the text area.

Maximum file size: 100MB, maximum number of files: 1

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Quiz

Quiz progress indicator showing question numbers 1, 2, 11, 12, 21, 22 in a grid format.

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Time left 0:26:44

A slab-milling operation is being carried out on a 300-mm-long, 100-mm-wide annealed mild-steel block at a feed $f = 0.25$ mm/tooth and a depth of cut $d = 3.0$ mm. The cutter is $D = 50$ mm in diameter, has 20 straight teeth, rotates at $N = 100$ rpm, and, by definition, is wider than the block to be machined. The specific energy for the material to be machined is 3 W.S/mm³. Determine the material removal rate

- a. 150,000 mm³/min
- b. 250,000 mm³/min
- c. 50,000 mm³/min
- d. 510,000 mm³/min

Quiz no

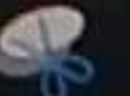
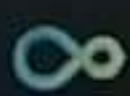
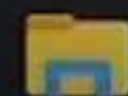
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Finish after

Next page

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Question 21

Not yet answered

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Flag question

a) what is the main objective of the following Processes?

i) Reaming

ii) Countersink

iii) Drilling

iv) Taping.

b) What are the specifications of grinding wheel has the following symbols 51-A-36-L-5-V-1/8



Time left 0:06:56

In a turning operation on cast iron, the nose radius on the tool = 1.5 mm, feed = 0.22 mm/rev, and speed = 1.8 m/s. An estimate of the surface roughness factor R_t for this cut is.

- a. 1.26 μm .
- b. 2.26 μm .
- c. 3.26 μm .
- d. 4.04 μm .

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Next page

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Flag question

In Electron beam machining, workpiece is held in

- a. electrolyte
- b. b) dielectric medium
- c. vacuum chamber
- d. none of these

[Clear my choice](#)

[Next page](#)

[Previous activity](#)

CUTTING PROCESSES

courses

METAL CUTTING PROCESSES

General

Final Exam

In Electrical discharge machining (EDM), the spark gap is kept between

- a. 5 to 10
- b. 0.005 to 0.05
- c. 1 to 5
- d. 0.55 to 0.95

Clear my choice

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Question 5

Not yet
answered

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question

the following figure refers to manufacturing process



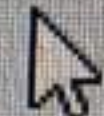
- a. slab Milling
- b. peripheral milling
- c. nose milling
- d. end milling

Crater wear occurs mainly on the

- a. front face only
- b. face of the cutting tool at a short distance from the cutting edge only
- c. cutting edge only
- d. nose part, front relief face and side relief face of the cutting tool

In Electrical discharge machining (EDM), the spark gap is kept between ___mm to ___mm.

- a. 5 to 10
- b. 0.005 to 0.05
- c. 1 to 5
- d. 0.55 to 0.95



METAL CUTTING PROCESSES

My courses: METAL CUTTING PROCESSES General Final Exam

Which the following is true for Electrical Discharge machining (EDM)?

1. The metal removal takes place due to erosion
2. Any electrical conductor can be machined by this method
3. Transformer oil or kerosene oil is used as dielectric

- a. Only 1
- b. 2 and 3
- c. 1 and 2
- d. 1, 2 and 3

Clear my choice

Jump to

DELL



Question 8

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answered

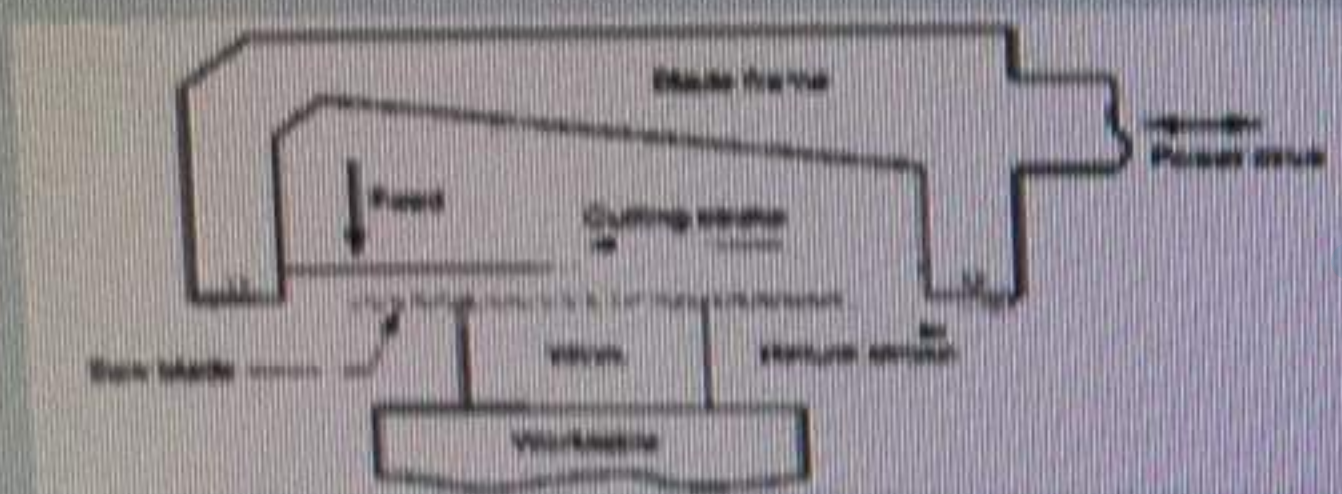
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question

the following figure refers to manufacturing process



- a. blade sawing
- b. belt sawing
- c. disc sawing
- d. hacksawing

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Not yet answered

Time left 0:03:21

Marked out of 1.00

Flag question

. Cast iron during machining process produces

- a. Continuous chips
- b. Discontinuous chips
- c. Continuous with built up edge
- d. None

[Finish attempt ...](#)

Previous activity

[◀ Midterm exam](#)

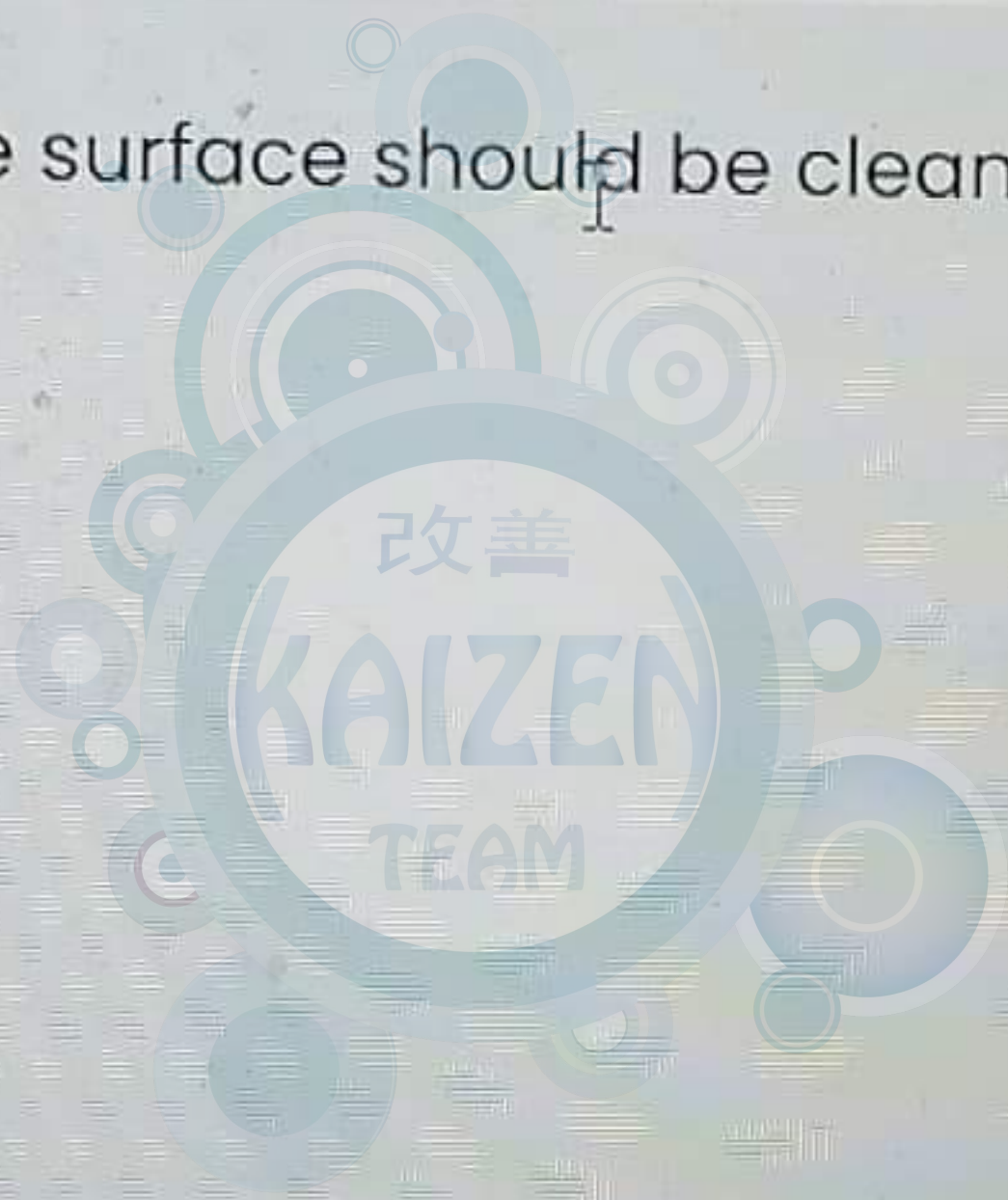
Jump to...

Quiz navigation



In milling process, the workpiece surface should be cleaned before of the cut

- a. up milling
- b. down milling
- c. end milling
- d. ball milling



Time left 0:38:39

Question 4

Not yet answered

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Flag question

Abrasive water jet machining is one of the advanced machining processes. Briefly describe the operation principle of this process, its impact on the capability of manufacturing industry, mention two examples of A.W.J.M products, the impact of this process on the environment and when is A.W.J.M advised to be used as a manufacturing process from an economical point of view (don't copy and paste from your lecture notes answer it in your words)

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Quiz navigation

1	2	3	4	5
9	10	11	12	13
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Finish attempt ...



Time left 0:27:09

Question 5

Not yet
answered

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1.00

Flag
question

In a turning operation on cast iron, the nose radius on the tool = 1.5 mm, feed = 0.22 mm/rev, and speed = 1.8 m/s. An estimate of the surface roughness factor R_t for this cut is.

- a. 1.26 μm .
- b. 2.26 μm .
- c. 3.26 μm .
- d. 4.04 μm .

Next page

An electrolyte medium must be used in.....Machining

- a. Electrochemical grinding
- b. wire electrical discharge
- c. Plasma
- d. abrasive jet





Time left 0:14:39

Question 17

Not yet answered

Marked out of 10.00

Flag question

The cutting force and thrust force in an orthogonal cutting operation are 650 N and 300 N respectively, The cutting tool is inclined with an angle of 5° .

The rake angle = 5° , the width of the cut = 5.25 mm, the chip thickness before the cut = 0.12, the chip thickness = 0.42, and the cutting velocity 2m/s.

Determine the following without using approximation formulas

- The coefficient of friction
- shear stress
- Specific Power consumed in shear
- Specific power consumed in friction
- the total power consumed during the cut.



A ▾

B

I





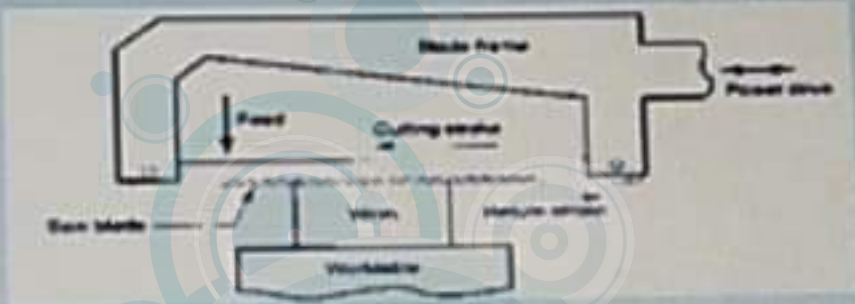
Question **3**

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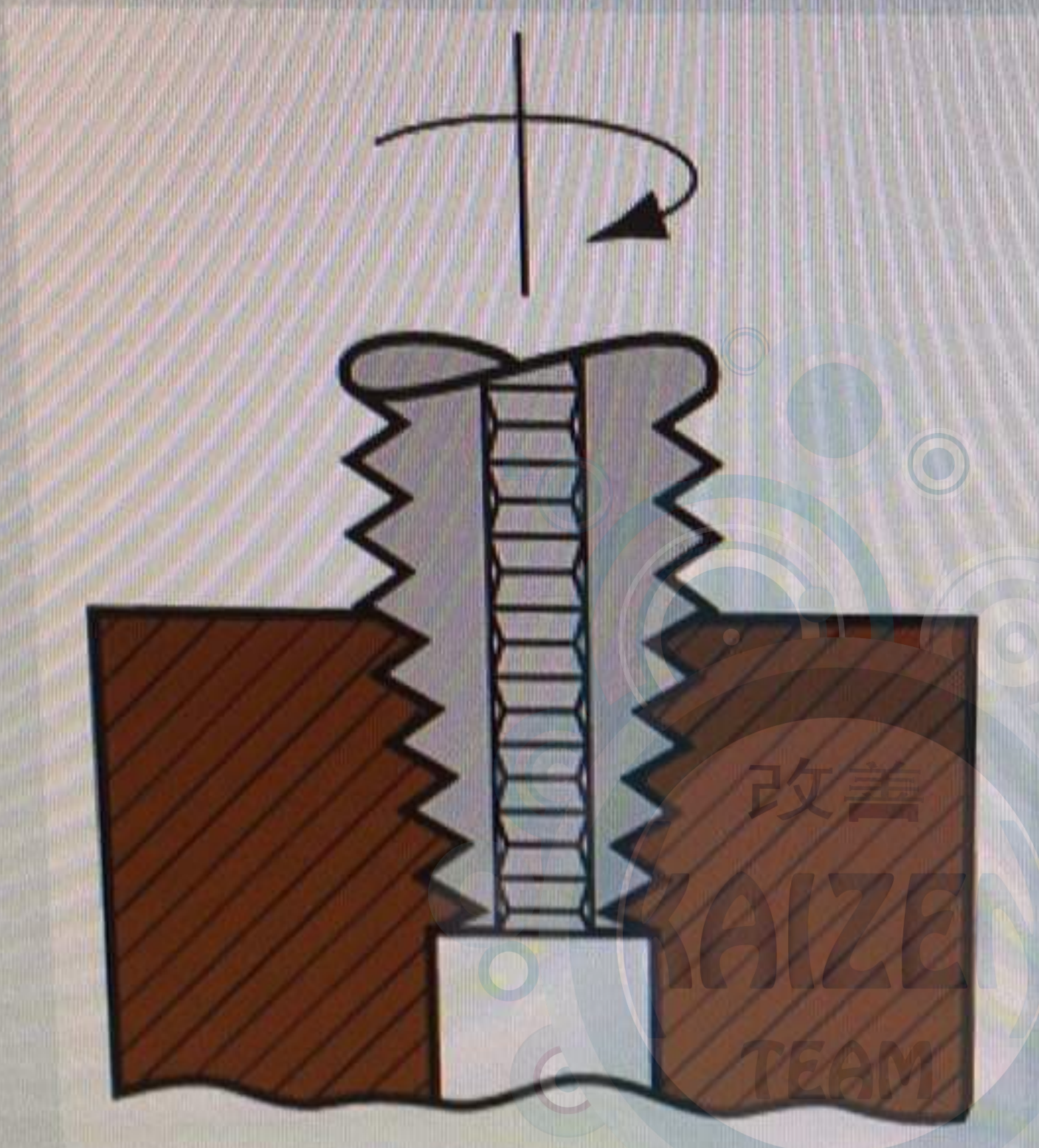
Flag question

the following figure refers to manufacturing process



- a. blade sawing
- b. belt sawing
- c. disc sawing
- d. hacksawing

the following figure refers to manufacturing process



- a. planning
- b. tapping
- c. shaping
- d. granding

Time left 0:03:29

A slab-milling operation is being carried out on a 300-mm-long, 100-mm-wide annealed mild-steel block at a feed $f = 0.25$ mm/tooth and a depth of cut $d = 3.0$ mm. The cutter is $D = 50$ mm in diameter, has 20 straight teeth, rotates at $N = 100$ rpm, and, by definition, is wider than the block to be machined. The specific energy for the material to be machined is 3 W.S/mm³. Determine the material removal rate

- a. 150,000 mm³/min
- b. 250,000 mm³/min
- c. 50,000 mm³/min
- d. 510,000 mm³/min



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Jump to...

METAL CUTTING PROCESSES

My courses METAL CUTTING PROCESSES General Final Exam

the following figure refers to _____ manufacturing process



- a. planning
- b. tapping
- c. shaping
- d. grinding

Clear my choice

search



In a turning operation the tool life of the carbide tool was found to be 20 minutes and 100 minutes at cutting speeds of 120 m/min and 60 m/min respectively. What will be the tool life of the tool under the same condition but at a cutting speed of 100 m/min?

- a. 31 minutes
- b. 41 minutes
- c. 36 minutes
- d. None of them



Question 7

Not yet answered

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Flag question

Time left 0:29:13

The Electrical Discharge machining (EDM) process is

- a. a Direct contact machinin
- b. Not for hard metals
- c. Burr free
- d. Capable of producing sharp corners

Quiz navigation

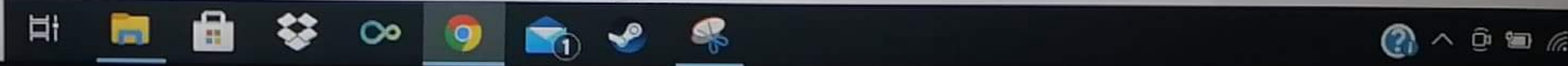
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Finish attempt ...

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Time left 0:23:10

Flag question

In a turning operation the tool life of the carbide tool was found to be 20 minute and 100 minute at cutting speeds of 120 m/min and 60 m/min respectively. What will be the tool life of the tool under the same condition but at a cutting speed of 100 m/min?

- a. 31 minutes
- b. 41 minutes
- c. 36 minutes
- d. None of them

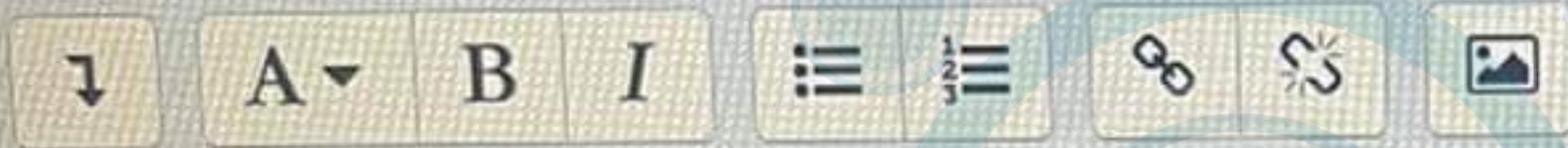
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Jump to...

An electrolyte medium must be used in.....Machining

- a. Electrochemical grinding
- b. wire electrical discharge
- c. Plasma
- d. abrasive jet

Abrasive water jet machining is one of the advanced machining processes. Briefly describe the operation principle of this process, its impact on the capability of manufacturing industry, mention two examples of A.W.J.M products, the impact of this process on the environment and when is A.W.J.M advised to be used as a manufacturing process from an economical point of view (don't copy and paste from your lecture notes answer it in your words)



METAL CUTTING PROCESSES

My courses

METAL CUTTING PROCESSES

General

Final Exam

Time left 0:03:28

A slab-milling operation is being carried out on a 300-mm-long, 100-mm-wide annealed mild-steel block at a feed $f = 0.25$ mm/tooth and a depth of cut $d = 3.0$ mm. The cutter is $D = 50$ mm in diameter, has 20 straight teeth, rotates at $N = 100$ rpm, and, by definition, is wider than the block to be machined. The specific energy for the material to be machined is 3 W.S/mm³. Estimate the power

- a. 5.7 kW
- b. 7.5 kW
- c. 5.7 W
- d. 7.5 W

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Jump to...

Time left 0:29:47

Question 4

Not yet
answered

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Flag
question

Which of the following materials has the highest machienability index.

- a. aluminium
- b. copper
- c. steel
- d. tungsten



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Question 2

Not yet
answered

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4.00

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question

Time left 0:41:11

a) what is the main objective of the following Processes?

i) Reaming

ii) Countersink

iii) Drilling

iv) Taping.

b) What are the specifications of grinding wheel has the following symbols 51-A-36-L-5-V-
1/8

Quiz navigation

1	2	3	4	5	6
7	8	9	10	11	12
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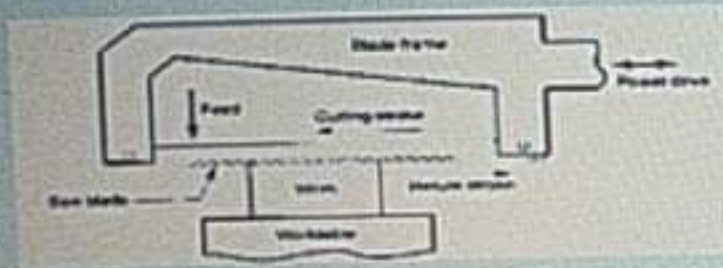
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3
the following figure refers to manufacturing process



- a. blade sawing
- b. belt sawing
- c. disc sawing
- d. hawksawing

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Question 10

Not yet answered

Marked out of 1.00

Flag question

In milling process, the workpiece surface should be cleaned before of the cut

- a. up milling
- b. down milling
- c. end milling
- d. ball milling

Previous activity

◀ Midterm exam

Jump to...



Time left 0:54:0

what are the two basic categories of cutting edges (cutting tools) in conventional machining? Give two examples of machining operations that use each of the tooling types.



A ▾

B

I



(1) single-point tools, used in operations such as turning and boring; and (2) multiple-edge cutting tools, used in operations such as milling and drilling.

Next page

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Question 21

Not yet
answered

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question

Crater wear occurs mainly on the

- a. front face only
- b. face of the cutting tool at a short distance from the cutting edge only
- c. cutting edge only
- d. nose part, front relief face and side relief face of the cutting tool

Previous activity

◀ Midterm exam

Jump to...



Question 12

Not yet answered

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Flag question

Time left 07:36

The cutting force and thrust force in an orthogonal cutting operation are 450 N and 300 N respectively. The cutting tool is inclined with an angle of 5° . The rake angle = 15° , the width of the cut = 5.25 mm, the chip thickness before the cut = 0.12, the chip thickness = 0.41, and the cutting velocity 2m/s. Determine the following without using approximation formulas

- (a) The coefficient of friction
- (b) shear stress
- (c) Specific Power consumed in shear
- (d) Specific power consumed in friction
- (e) the total power consumed during the cut.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

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Finish attempt...

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Time left 0:36:00

If _____ existing process, the response we have provided has a better chance of the IIR

- It is not working
- It is slow working
- It is not working
- It is **not** working

Give my answer

Next Page



Question 11

Not yet
answered

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1.00

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question

The Electrical Discharge machining (EDM) process is

- a. a Direct contact machinin
- b. Not for hard metals
- c. Burr free
- d. Capable of producing sharp corners

Previous activity

Jump to...



Which the following is true for Electrical Discharge machining (EDM)?

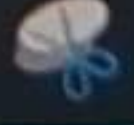
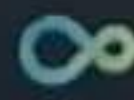
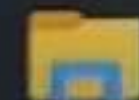
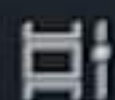
1. The metal removal takes place due to erosion method. 2. Any electrical conductor can be machined by this method.
3. Some light oil like transformer oil or kerosene oil is used as dielectric.

- a. Only 1
- b. 2 and 3
- c. 1 and 2
- d. 1, 2 and 3

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In milling process, the workpiece surface should be cleaned before of the cut

- a. up milling
- b. down milling
- c. end milling
- d. ball milling



Question 1

Not yet
answered

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1.00

Flag
question

9. As the lead angle increases the undeformed chip thickness

- a. increases
- b. decreases 改善
- c. don't affected
- d. none of them



Time left 0:41:27

Question 3

Not yet answered

Marked out of 4.00

Flag question

a) what is the main objective of the following Processes?

i) Reaming

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ii) Coutersink

iii) Drilling

iv) Taping.

b) What are the specifications of grinding wheel has the following symbols 51-A-36-L-5-V-1/8

Time left 0:23:08

Question 6

Not yet answered

Marked out of 1.00

Flag question

A slab-milling operation is being carried out on a 300-mm-long, 100-mm-wide annealed mild-steel block at a feed $f = 0.25$ mm/tooth and a depth of cut $d = 3.0$ mm. The cutter is $D = 50$ mm in diameter, has 20 straight teeth, rotates at $N = 100$ rpm, and, by definition, is wider than the block to be machined. The specific energy for the material to be machined is 3 W.S/mm³. Estimate the power

- a. 5.7 kW
- b. 7.5 kW
- c. 5.7 W
- d. 7.5 W

In a turning operation on cast iron, the nose radius on the tool = 1.5 mm, feed = 0.22 mm/rev, and speed = 1.8 m/s. An estimate of the surface roughness factor R_t for this cut is.

- a. 1.26 μm .
- b. 2.26 μm .
- c. 3.26 μm .
- d. 4.04 μm .

Time left 0:58:18

Question 1

Not yet
answeredMarked out of
1.00Flag
question

In Electron beam machining, workpiece is held in

- a. electrolyte
- b. b) dielectric medium
- c. vacuum chamber
- d. none of these

Next page

Question 2

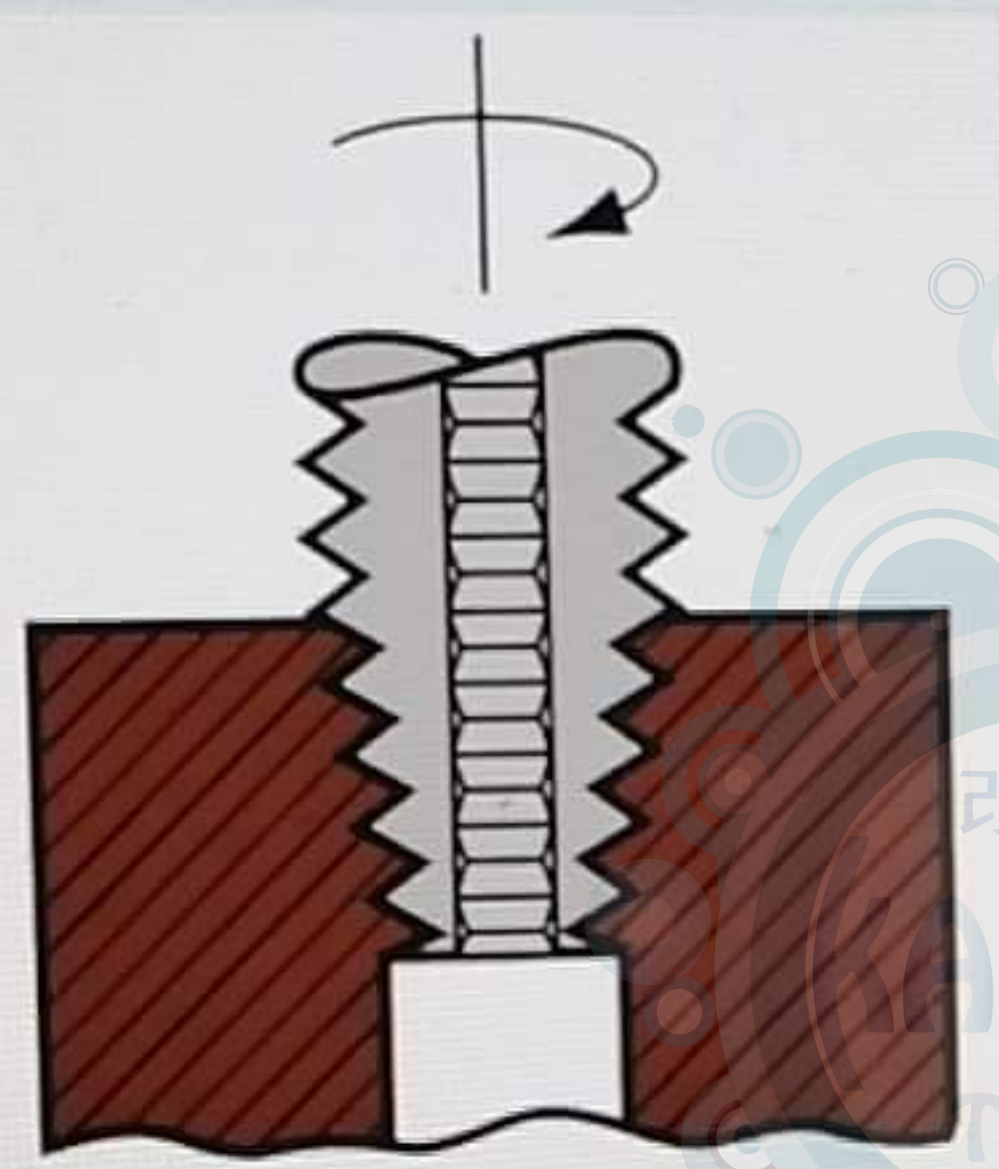
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the following figure refers to manufacturing process

Time left 0:44:24



- a. planning
- b. tapping
- c. shaping
- d. granding

9	10	11	12	13	14	15
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Finish attempt ...

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METAL CUTTING PROCESSES

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Question 9
Not yet answered
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Flag question

Cast iron during machining process produces

- a. Continuous chips
- b. Discontinuous chips
- c. Continuous with built up edge
- d. None

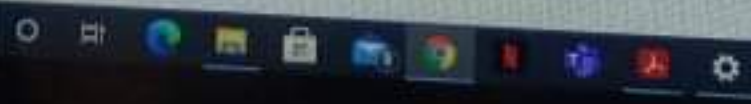
Clear my choice

Previous activity
Midterm exam

Jump to

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Question 4

Not yet answered

Marked out of 1.00

Flag question

An electrolyte medium must be used in.....Machining

- a. Electrochemical grinding
- b. wire electrical discharge
- c. Plasma
- d. abrasive jet

Previous activity

◀ Midterm exam

Jump to...

13
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In a turning operation the tool life of the carbide tool was found to be 20 minute and 100 minute at cutting speeds of 120 m/min and 60 m/min respectively. What will be the tool life of the tool under the same condition but at a cutting speed of 100 m/min?

- a. 31 minutes
- b. 41 minutes
- c. 36 minutes
- d. None of them

Cast iron during machining process produces

- a. Continuous chips
- b. Discontinuous chips
- c. Continuous with built up edge
- d. None

Clear my choice



the following figure refers to manufacturing process



- a. slab Milling
- b. peripheral milling
- c. nose milling
- d. end milling



Time left 0:02:03

A slab-milling operation is being carried out on a 300-mm-long, 100-mm-wide annealed mild-steel block at a feed $f = 0.25$ mm/tooth and a depth of cut $d = 3.0$ mm. The cutter is $D = 50$ mm in diameter, has 20 straight teeth, rotates at $N = 100$ rpm, and, by definition, is wider than the block to be machined. The specific energy for the material to be machined is 3 W.s/mm³. Estimate the power

- a. 5.7 kW
- b. 7.5 kW
- c. 5.7 W
- d. 7.5 W

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Jump to...

Quiz n

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Finish atte

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9. As the lead angle increases the undeformed chip thickness

- a. increases
- b. decreases
- c. don't affected
- d. none of them



In a turning operation the tool life of the carbide tool was found to be 20 minute and 100 minute at cutting speeds of 120 m/min and 60 m/min respectively. What will be the tool life of the tool under the same condition but at a cutting speed of 100 m/min?

- a. 31 minutes
- b. 41 minutes
- c. 36 minutes
- d. None of them



In Electron beam machining, as the electrons strikes the work piece

- a. Electro-chemical etching takes place
- b. They get scattered
- c. Mechanical erosion in work piece takes place
- d. Their kinetic energy is converted into heat

Time left 0:00:51

Quiz navigation

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13	14	15	16	17
19	20	21	22	23

Finish attempt ...

Question 24

Not yet answered

Marked out of 1.00

Flag question

Which the following is true for Electrical Discharge machining (EDM)?

1. The metal removal takes place due to erosion machined by this method. used as dielectric.

2. Any electrical conductor can be used as dielectric.

3. Some light oil like transformer oil or kerosene oil is used as dielectric.

- a. Only 1
- b. 2 and 3
- c. 1 and 2
- d. 1, 2 and 3

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Finish attempt ...

Question 18

yet

answered

marked out of

0

Flag

question

The Electrical Discharge machining (EDM) process is

- a. a Direct contact machining
- b. Not for hard metals
- c. Burr free
- d. Capable of producing sharp corners

METAL CUTTING PROCESSES

My courses

METAL CUTTING PROCESSES

General

Final Exam

7
the following refers to _____ manufacturing process



a. reaming

b. sawing

c. broaching

d. none of them

Clear my choice



DELL

Question 10

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ked out of

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Question

the following figure refers to manufacturing process



- a. slab Milling
- b. peripheral milling
- c. nose milling
- d. end milling

改善

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TEAM

