

()
INTERSTATE COUNCIL FOR STANDARDIZATION, METROLOGY AND CERTIFICATION
(ISC)

**34905.1—
2022
(ISO 15242-1:
2015)**

1

(ISO 15242-1:2015, MOD)

1.0 «

1.2 «

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5

2 307 « -

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22 2022 . 156-)

(3166) 004—97	(3166) 004—97	
	BY RU UZ	« »

4 2022 . 1562- 34905.1—2022 (ISO 15242-1:2015) 22 -
1 2023 .

5 ISO 15242-1:2015 « 1. -
» («Rolling bearings — Measuring methods for vibration — Part 1: Fundamentals», MOD) -

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www.iso.org/patents

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ISO 15242-1:2015,

3.3 —

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7.1.1 7.2

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Rolling bearings. Measuring methods for vibration. Part 1. Fundamentals

— 2023—02—01

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2

24346

24955

25347 (ISO 286-2:2010)

34905.2 (ISO 15242-2:2015)

34905.3 (ISO 15242-3:2017)

34905.4 (ISO 15242-4:2017)

(www.easc.by)

3

24346

24955,

3.1 (error motion):

3.2 (vibration):

3.3 (transducer):

1

2 « »

3.4 (filter):

3.5 (band-pass filter):

3.6 (nominal upper and lower cut-off frequencies):

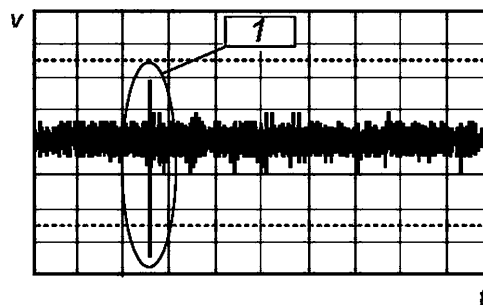
() f_{upp} , f_{low}

3.7 v_{rms} (root mean square velocity):

3.8 (period):

3.9 (spike):

— 1

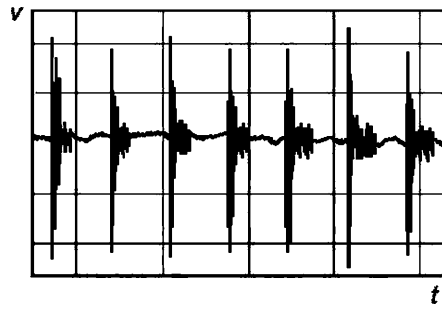


1 — импульс; t — время; v — скорость

1 —

3.10 (pulse):

— 2



t — ; v —

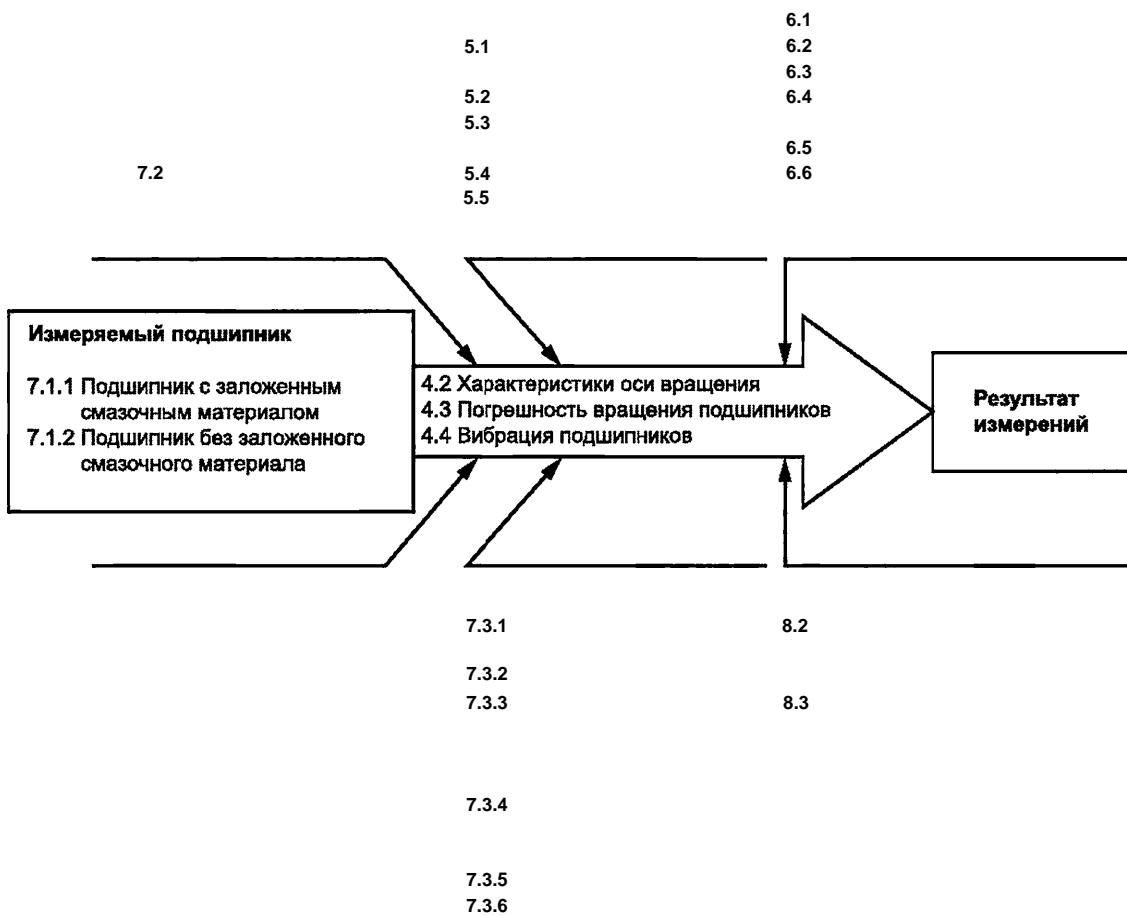
2 —

4

4.1

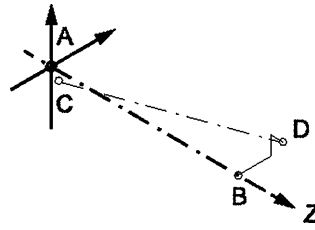
3

3

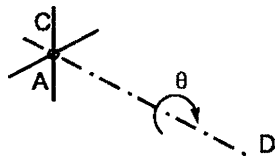


4.2

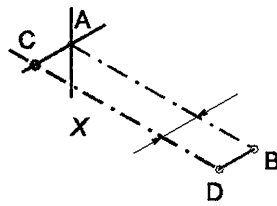
4) ;
 4) d);
 4);
 f)).



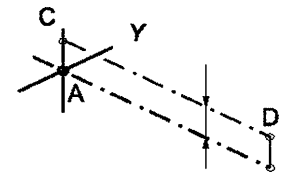
)



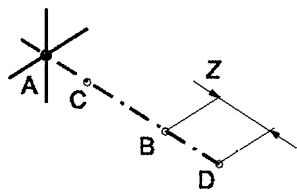
) Z



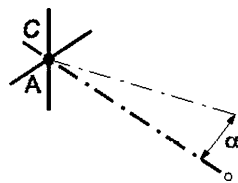
)



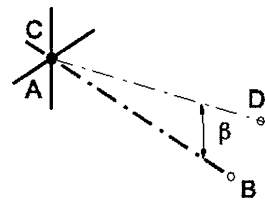
d)



) Z



f) X



)

— Z; CD — ; — X; — Y
 4—

1 %

2 %.

5.3

5.4

5.5

6

6.1

5 (/).

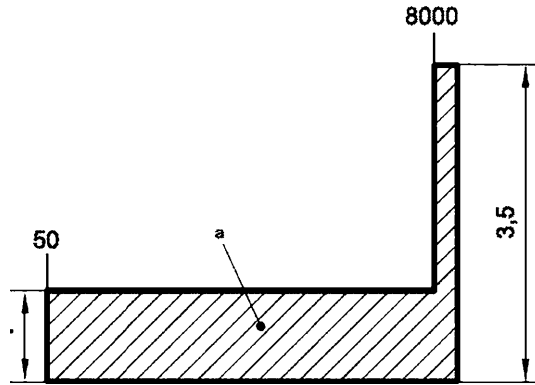
6.2

34905.2 — 34905.4.

6.3

6.4

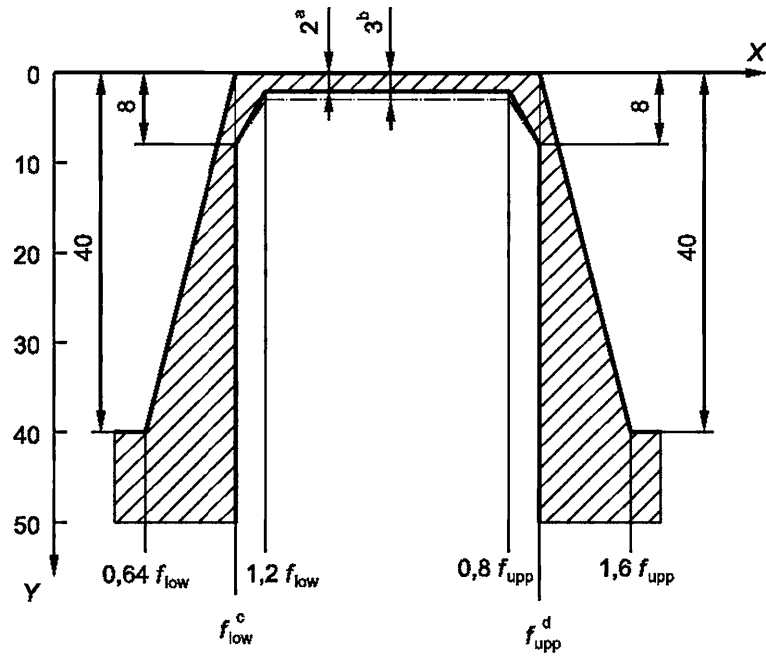
5.



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5 —

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10 % 10 10 000 / .
6. 160 % 64 % -
([^]_{ow}), 40 (f_{upp}),



d

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±5 %

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6.6

34905.2 — 34905.4.

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7.1.1

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7.1.2

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7.2

18 °C 27 °C;
70 %.

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7.3.1

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7.3.3

34905.2

34905.4.

7.3.4

34905.2

34905.4.

7.3.5

f5

25347

7.3.6

8

8.1

8.2

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8.3

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(*f.* .1 600), (200)
F.

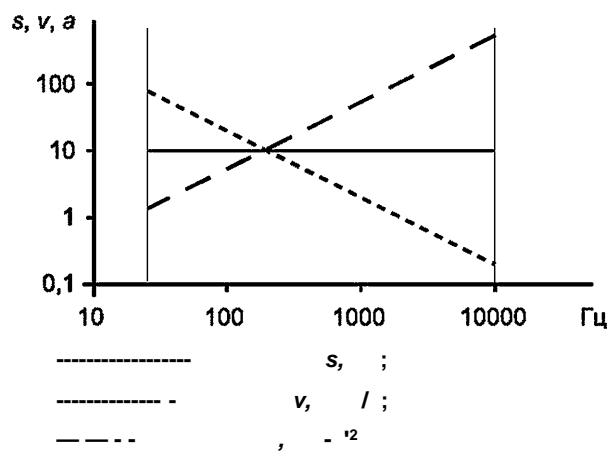
.1 —

	<i>F,</i>		<i>f,</i>
1	1	1	9,6
5	1	1	12,6
1	5	1	12,6
1	1	5	4,3

()

10 /

.1.

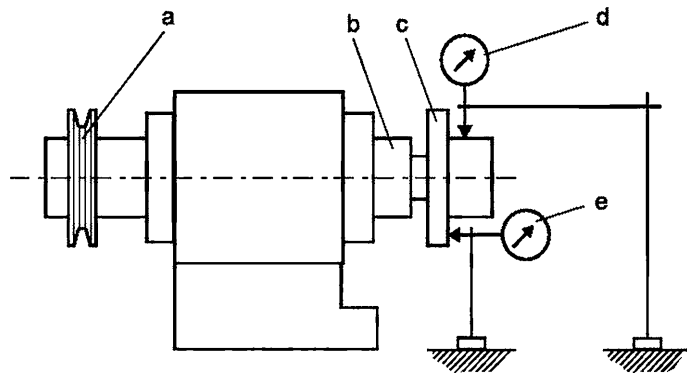


.1—

10 /

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(d .1) ;
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 (.1) (;
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— ; b — ; — ; d — 1; — 2
 .1 —

()

.1

25347—2013 (ISO 286-2:2010)	MOD	ISO 286-2:2010 « (GPS). 2. »
34905.2— (ISO 15243.2:2015)	MOD	ISO 15242-2:2015 « 2. - »
34905.3— (ISO 15243.3:2017)	MOD	ISO 15242-3:2017 « 3. - »
34905.4— (ISO 15243.4:2017)	MOD	ISO 15242-4:2017 « 4. - »
- MOD —		

621.822.6:006.354

21.100.20

MOD

26.12.2022.

09.01.2023.

60*84%.

2,32. - 2,10.