GUN & SHELL FACTORY COSSIPORE KOLKATA-700 002



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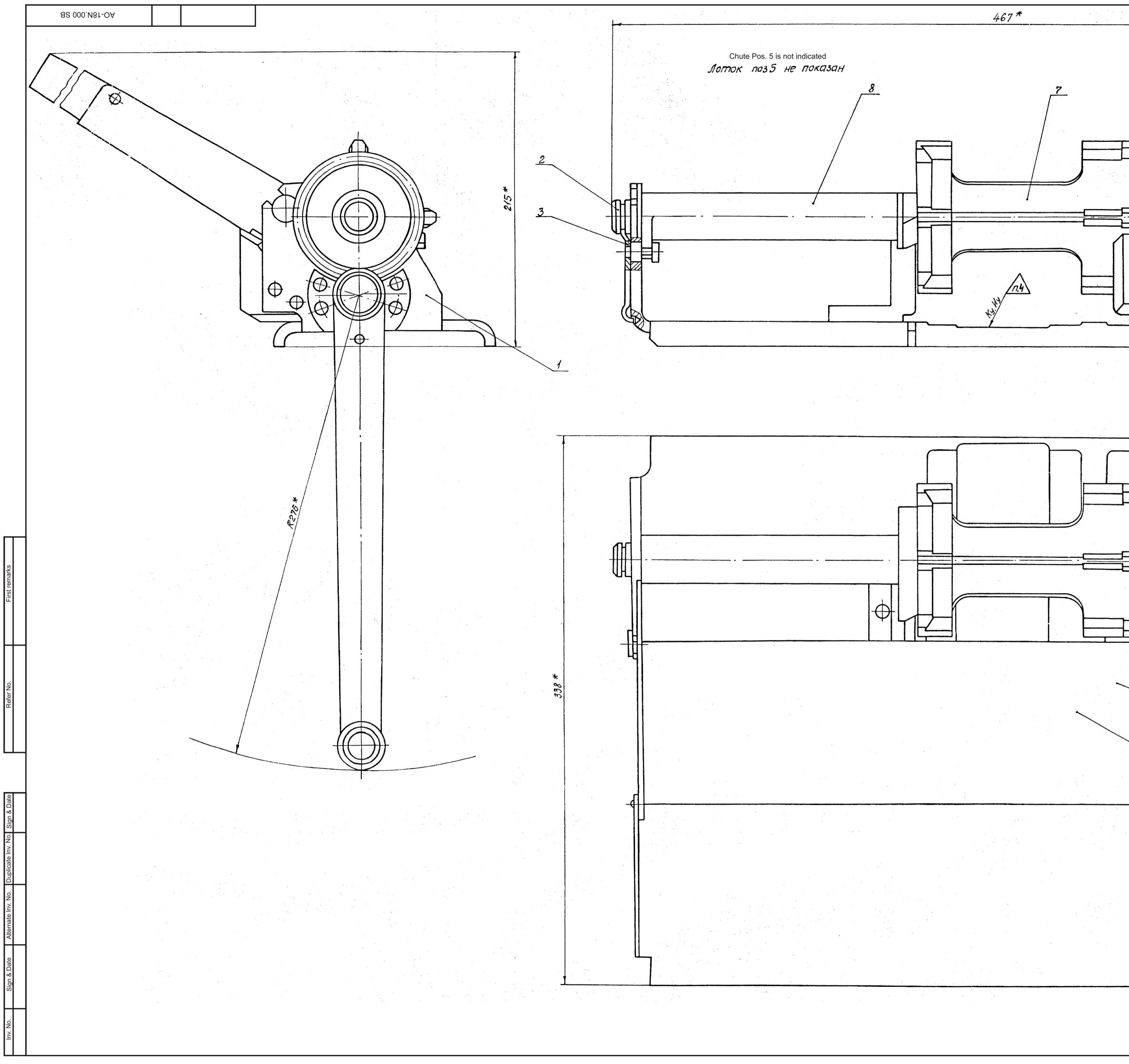
 NO PART OF IT SHOULD BE COPIED ,TRANSMITTED OR REPRODUCED
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THE CD SHOULD BE RETURNED TO THE GENERAL MANAGER GUN AND SHELL FACTORY AFTER USE

BELT FILLING UNIT

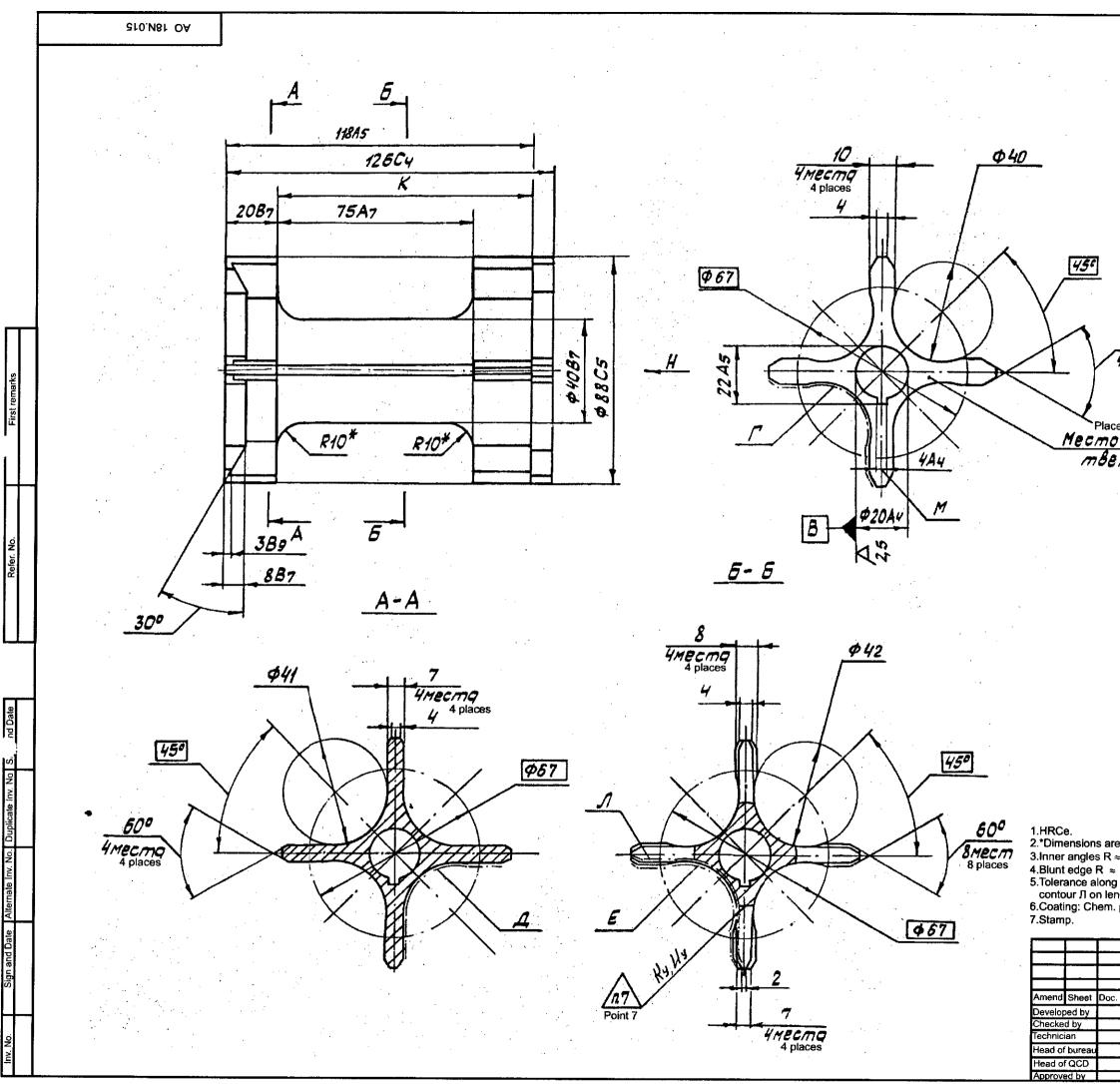
se	Format	Zone	Position		Desig	natio	n	Nomenclature		Qty.	Ren	narks
First use								<u>Documents</u>				
	A1			AO	-18N.00	00 SB		Assembly drawing				
	A4			AO	-18N.00	00 TU		Specifications				
e No.	A4			AO	-18N.00)0-01F	PS	Certificate				
Reference No.								Assembly units				
	A4		1	AO	-18N.01	10		Base plate		1		
	A4		2	AO	-18N.02	20		Shaft		1		
	A4		3	AO	-18N.03	30		Locator		1		
	A4		4	AO	-18N.04	40		Handle		1		
	A4		5	6Υι	u16.070)		Tray		1		
								<u>Components</u>				
ate	A3		6	AO	-18N.01	14		Major pinion		1		
ğ	A2		7	AO	-18N.01	15		Sprocket		1		
Sign and Date	A3		8	AO	-18N.01	16		Spacing sleeve		1		
								Set of spare part	<u>.s</u>			
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Dupi								Set of tool and acces	sories			
2								Knock out 4x100		1		
te Inv.								GOST V18655-82				
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Orig. Inv. No.	Head		-					Machine for charging belts			1	1

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							1145-80		
							Screwdriver Cd.21 Cr.	1	
							GOST 17199-88		
							Set of packing facilities		
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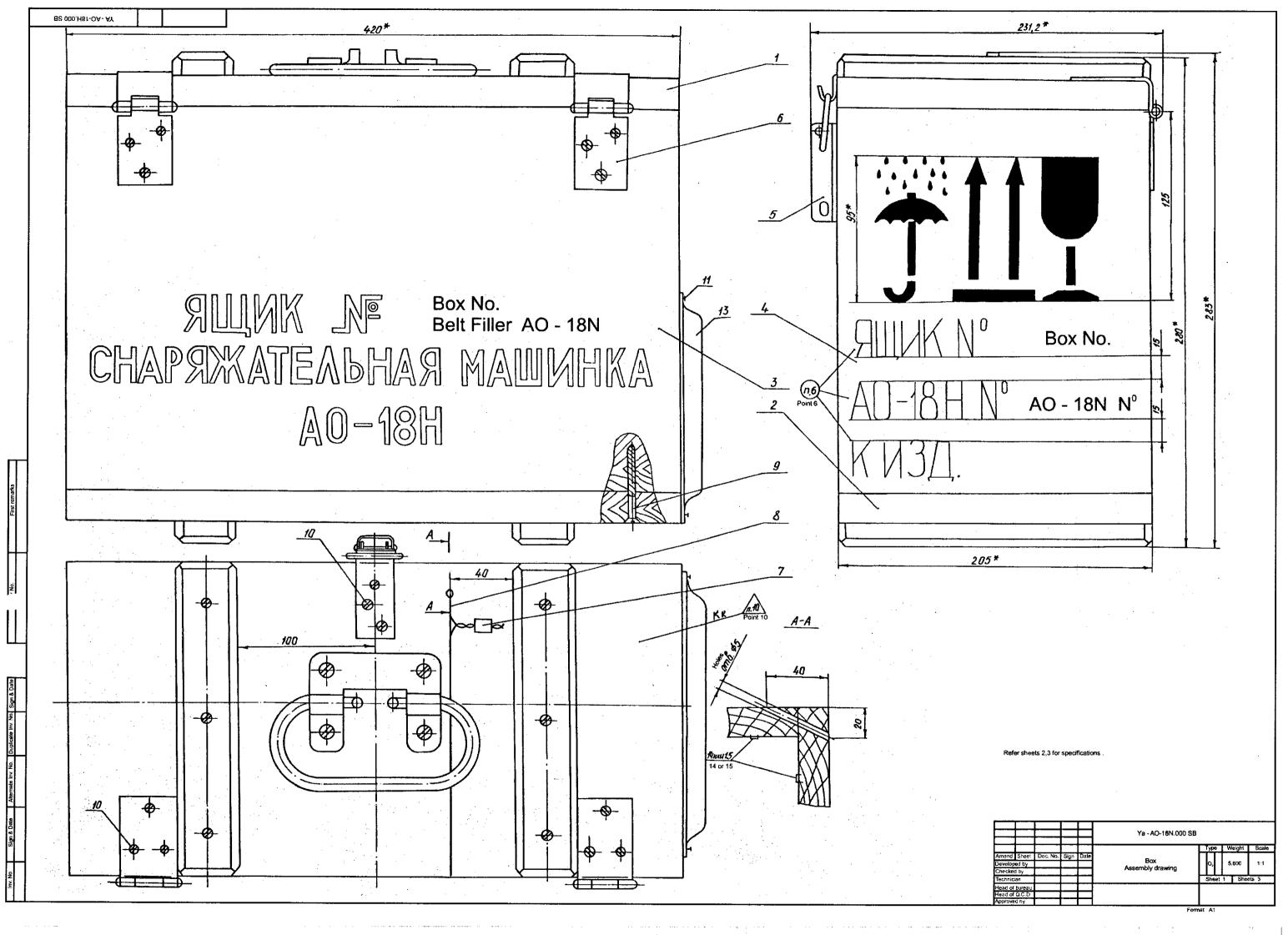


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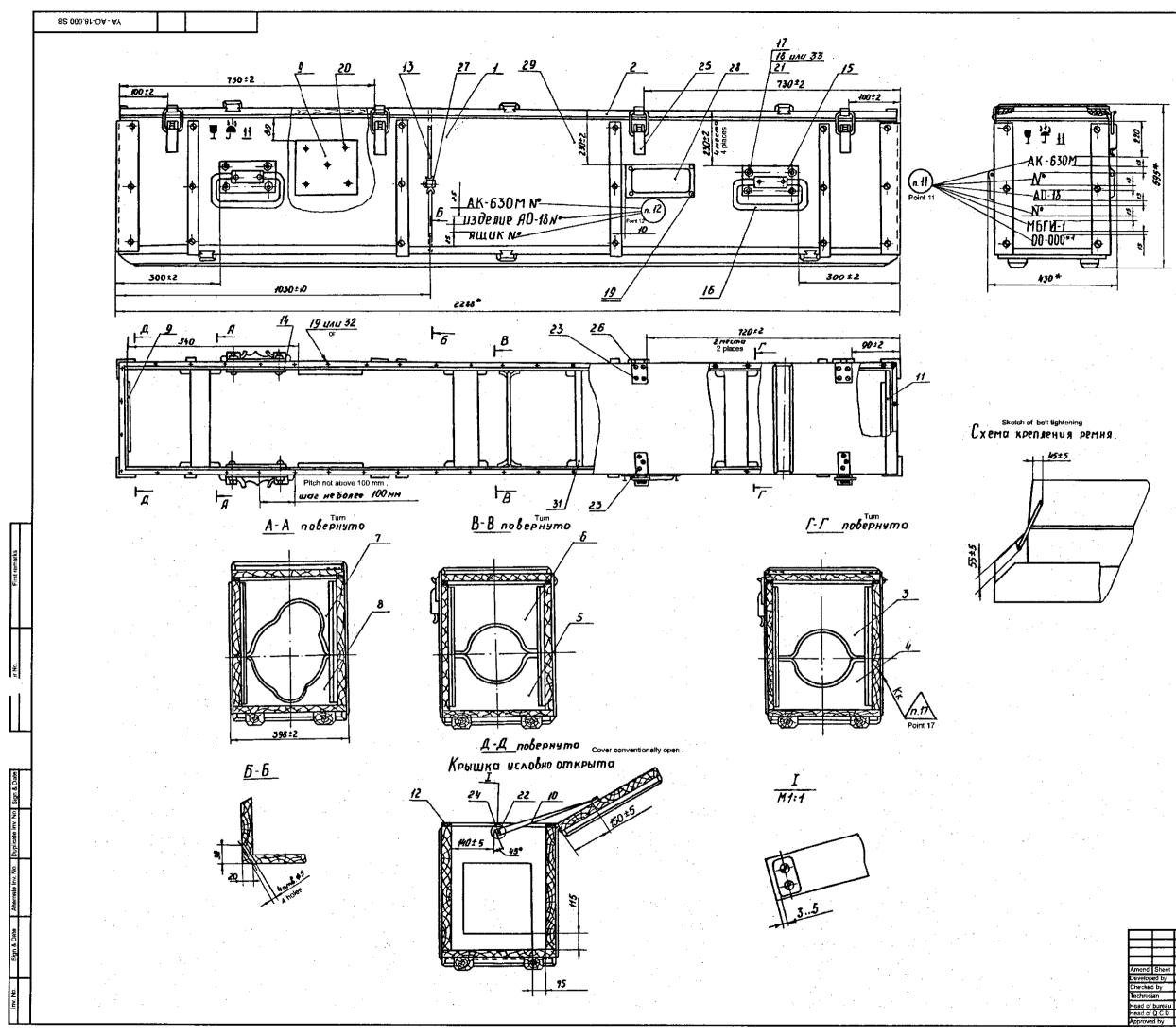
Head of Q.C.D Approved by



e ensured by tool. ~ 0.4 mm. 0.6 mm. g contour F and E should not be more than 0.2 mm, along contour J] and ngth K should not be more than 0.2 mm, along contour J] and ngth K should not be more than 0.3 mm in respect to surface B and slot M. . phos. / impregn. varnish BT 987 black GOST 6244 70, layer 1 V X, AO 18N.015 <u>Type Weight Scale</u>	Buð H
e ensured by tool. ≈ 0.4 mm. 0.6 mm. gontour Γ and E should not be more than 0.2 mm, along contour ∏ and grontour Γ and E should not be more than 0.2 mm, along contour ∏ and grontour Γ and E should not be more than 0.2 mm, along contour ∏ and grontour Γ and E should not be more than 0.2 mm, along contour ∏ and phos. / impregn. varnish BT 987 black GOST 6244 70, layer 1 V Xc. AO 18N.015 AO 18N.015 No. Sign Date Sprocket 0, 0.65 1:1	4 MPCma
Image: No. Sign Date Sprocket 0, 0.65 1:1	ce for checking hardness <u>ucnbimqhug</u> apdocmuj 60°
No. Sign Date Sprocket D ₂ 0.65 1:1	≈ 0.4 mm. 0.6 mm. g contour Г and E should not be more than 0.2 mm, along contour Д and ngth K should not be more than 0.3 mm in respect to surface B and slot M.
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Steel 30KhRA OST 3- 98- 80	



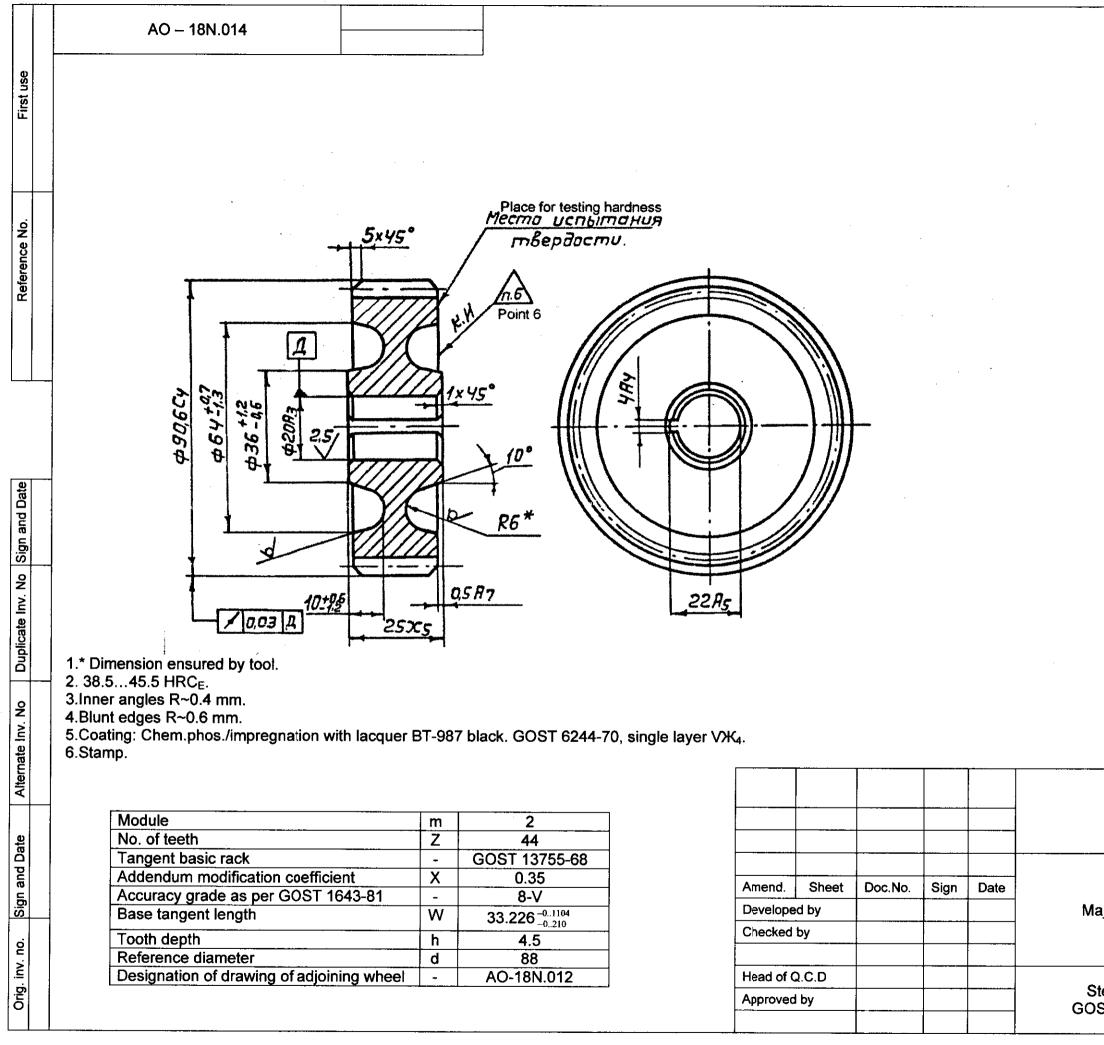
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Refer sheets 2.3 for specification

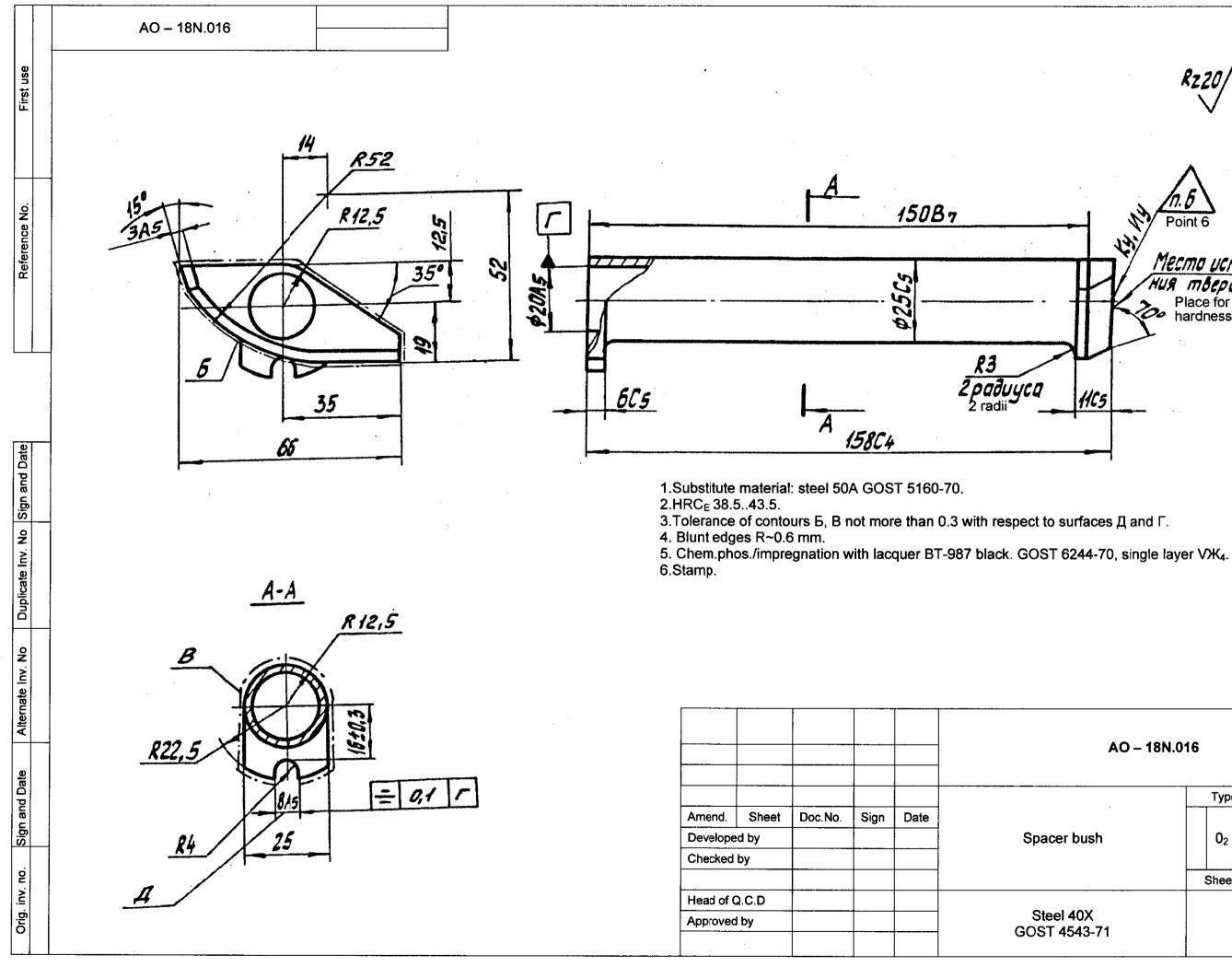
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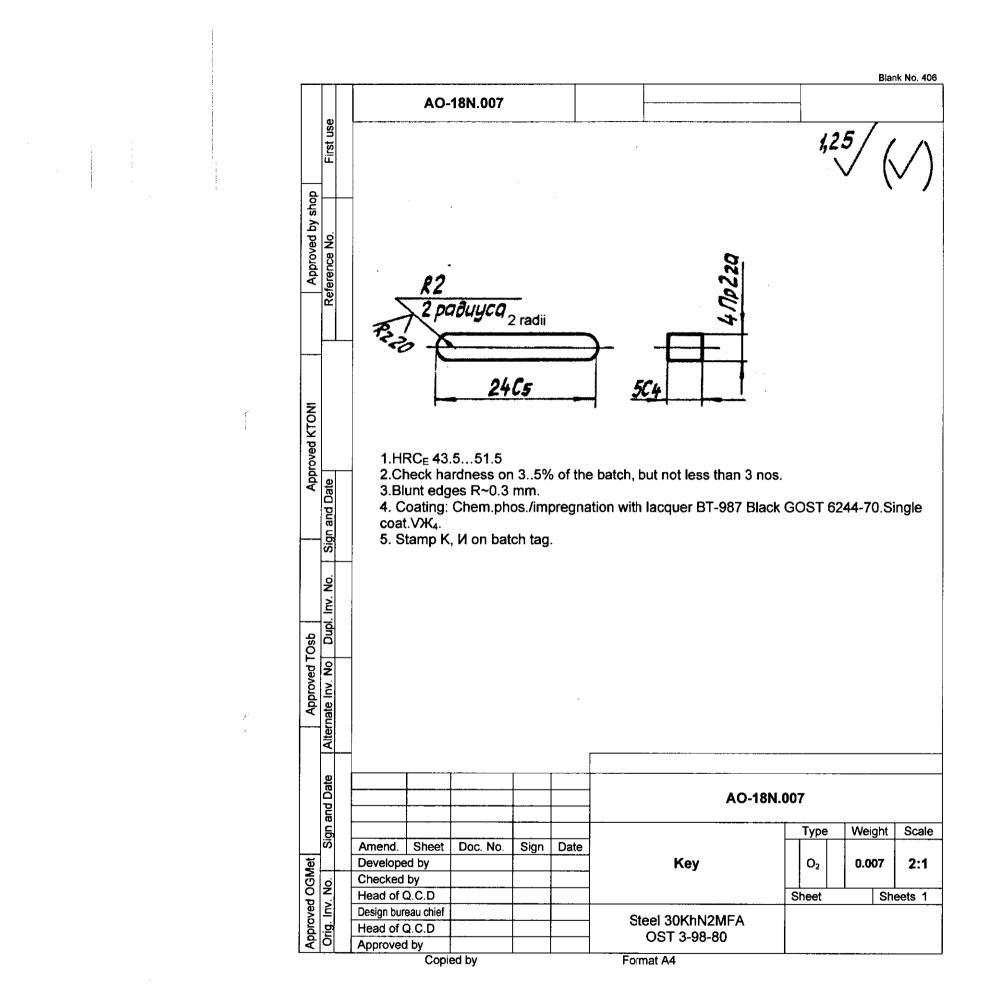


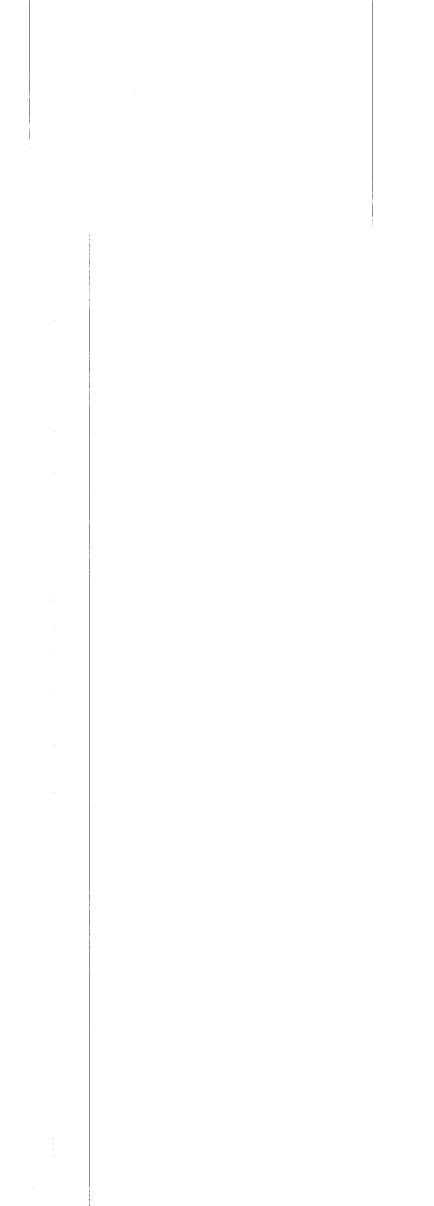
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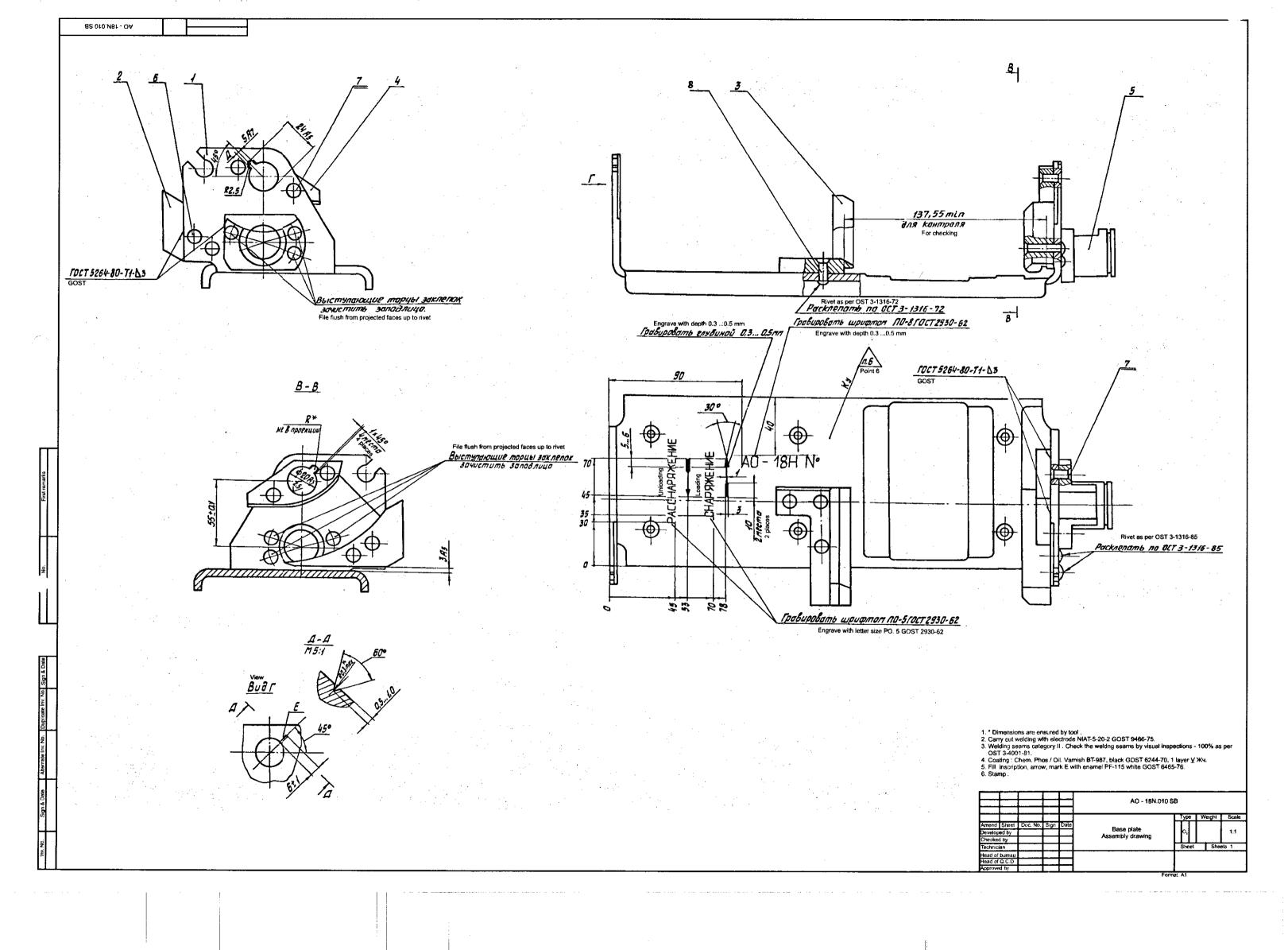
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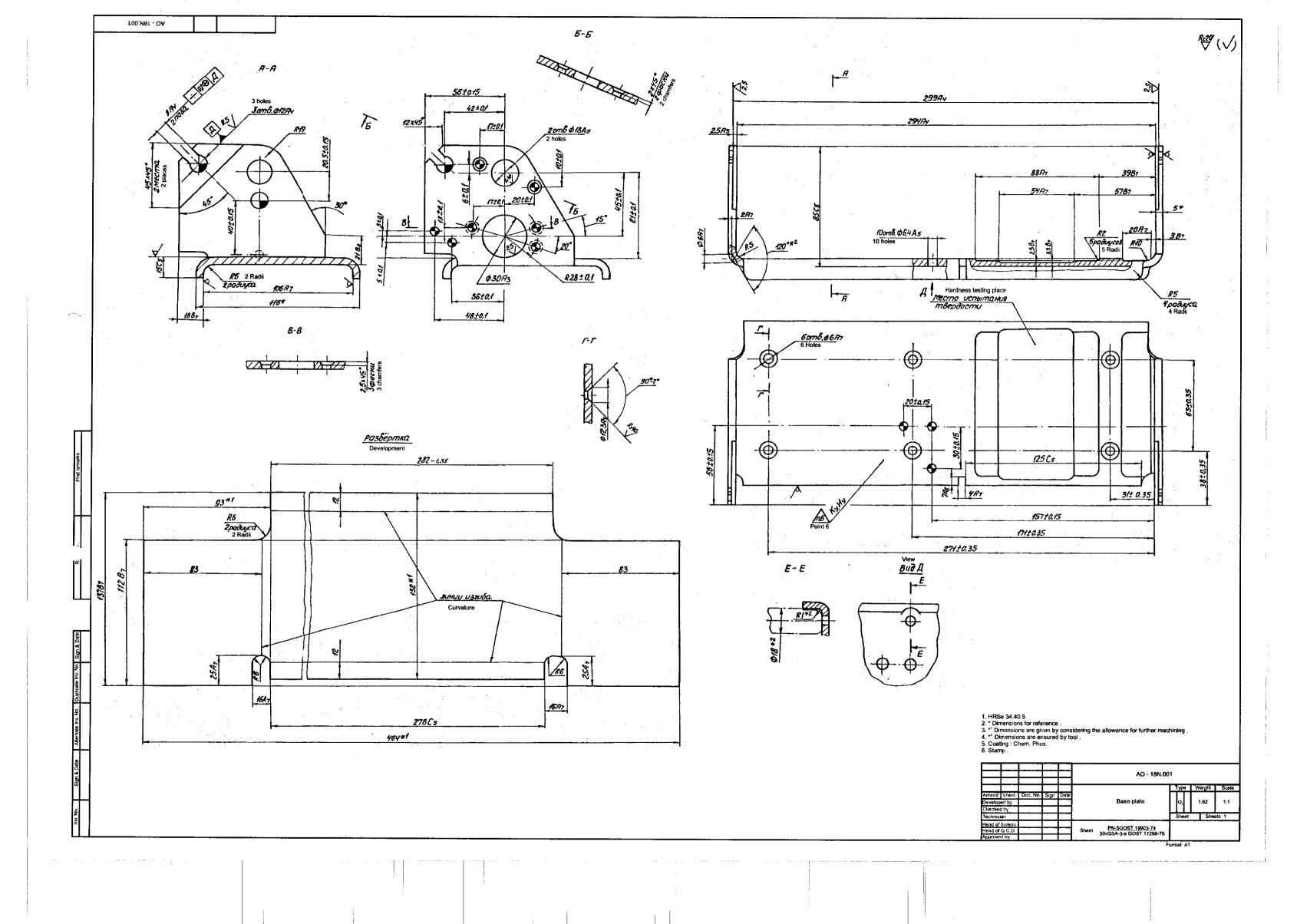
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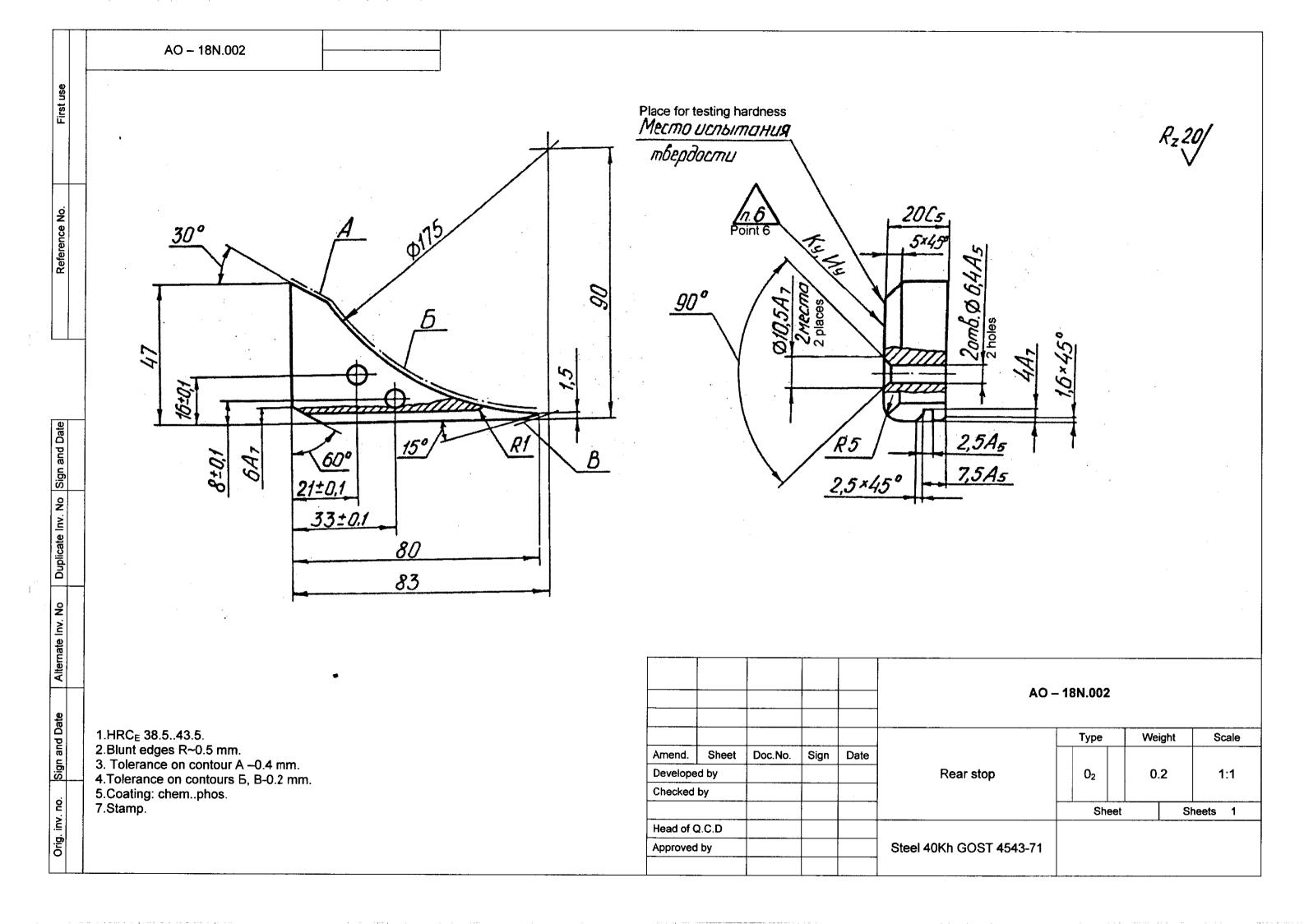
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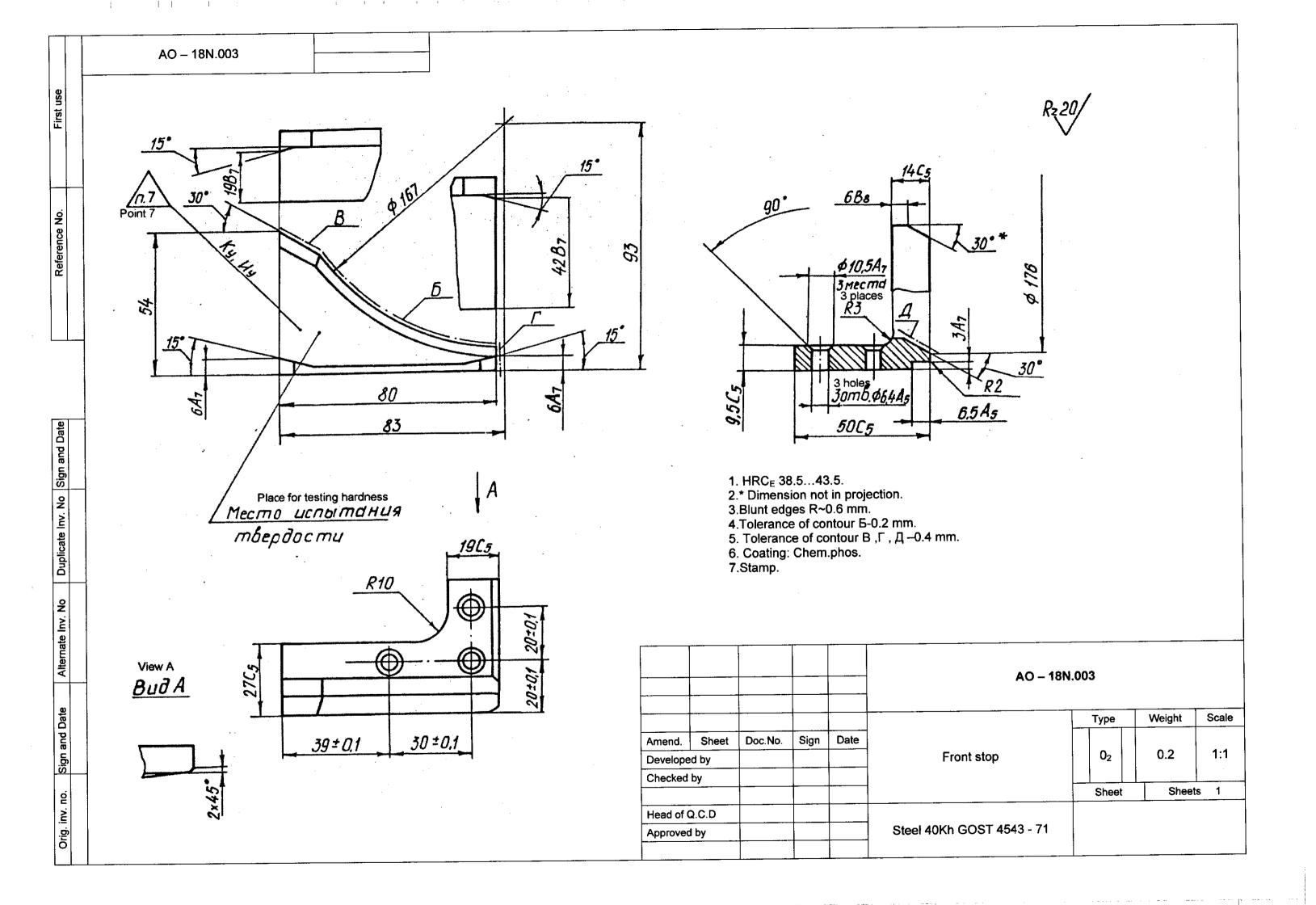
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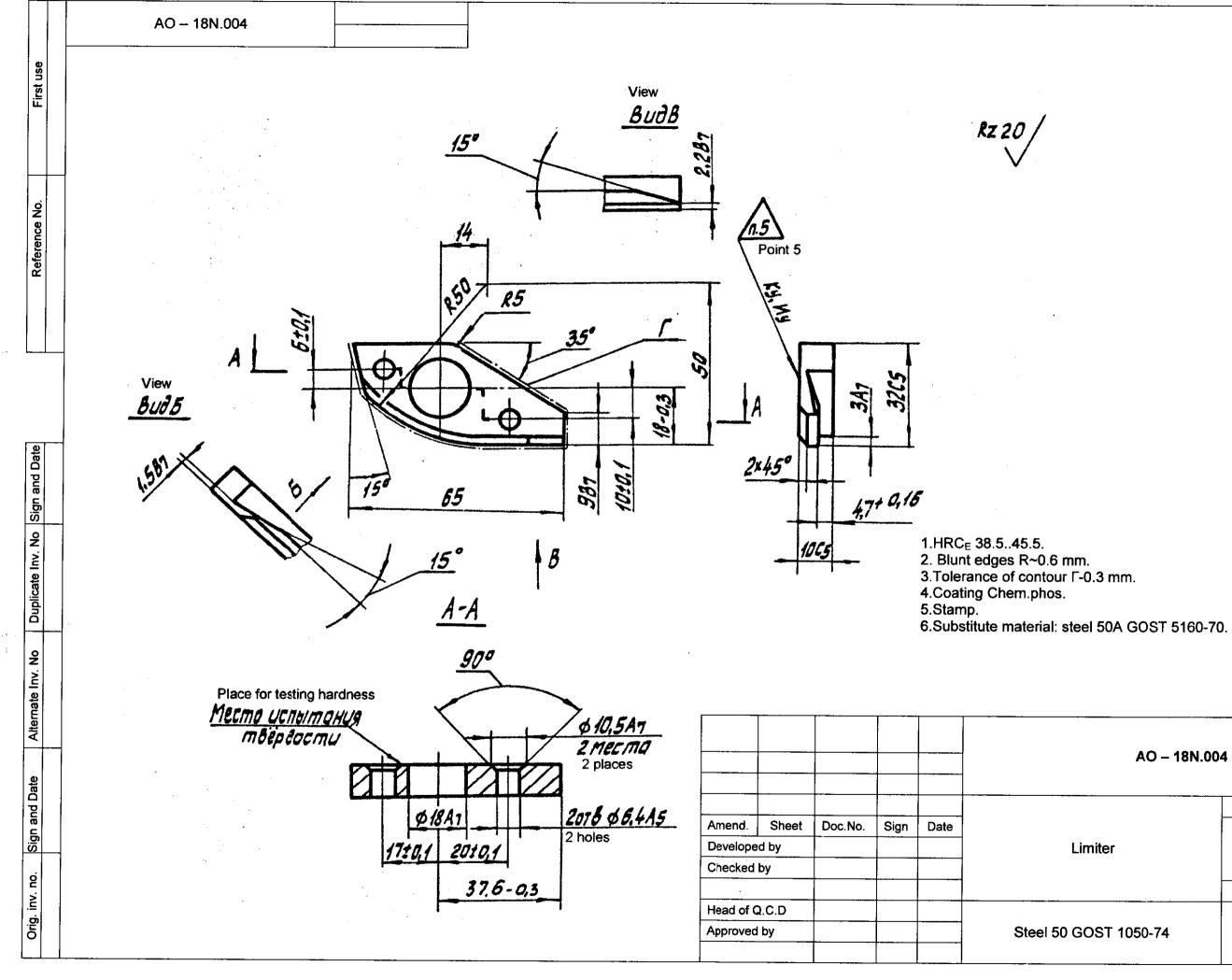




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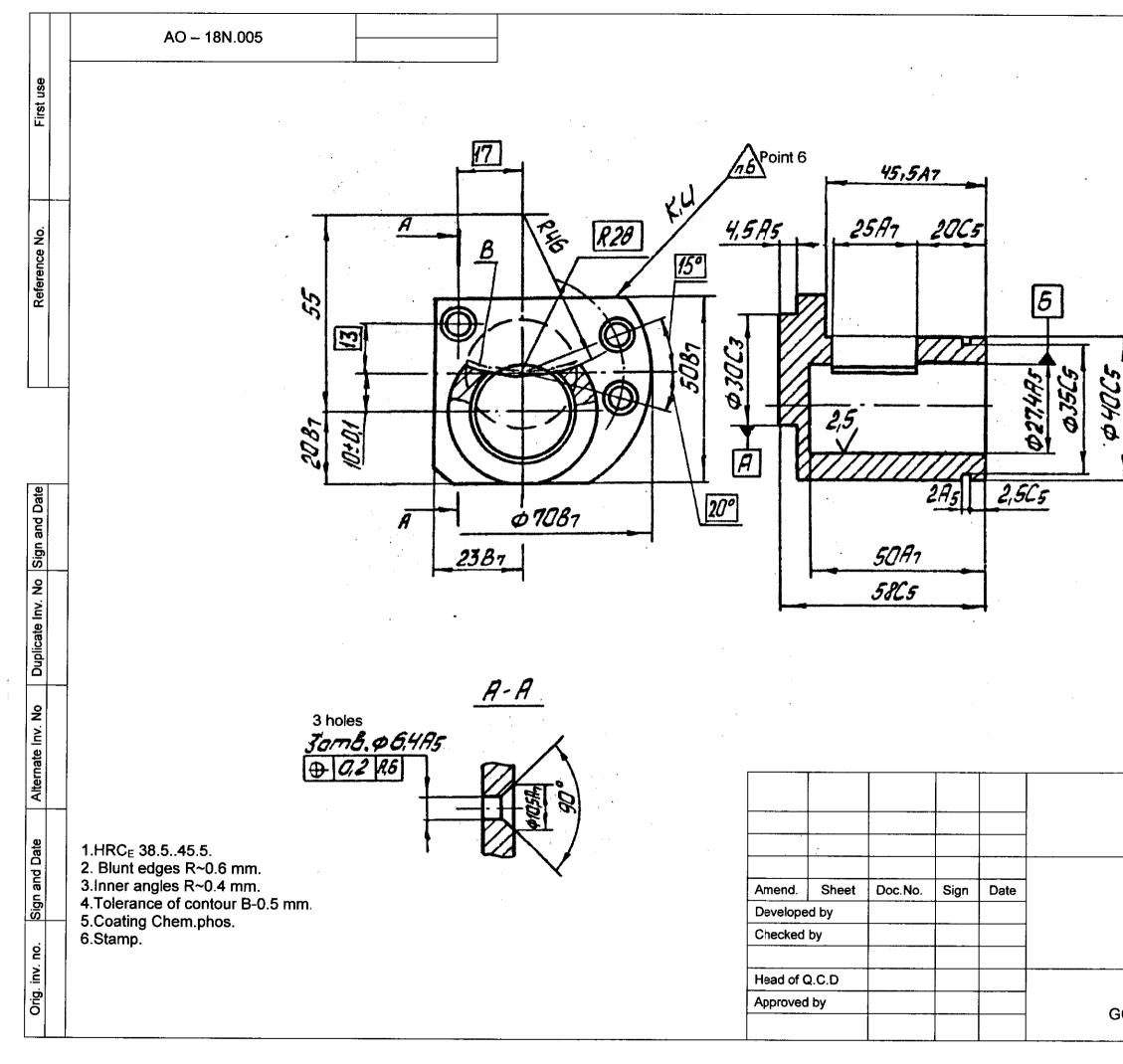


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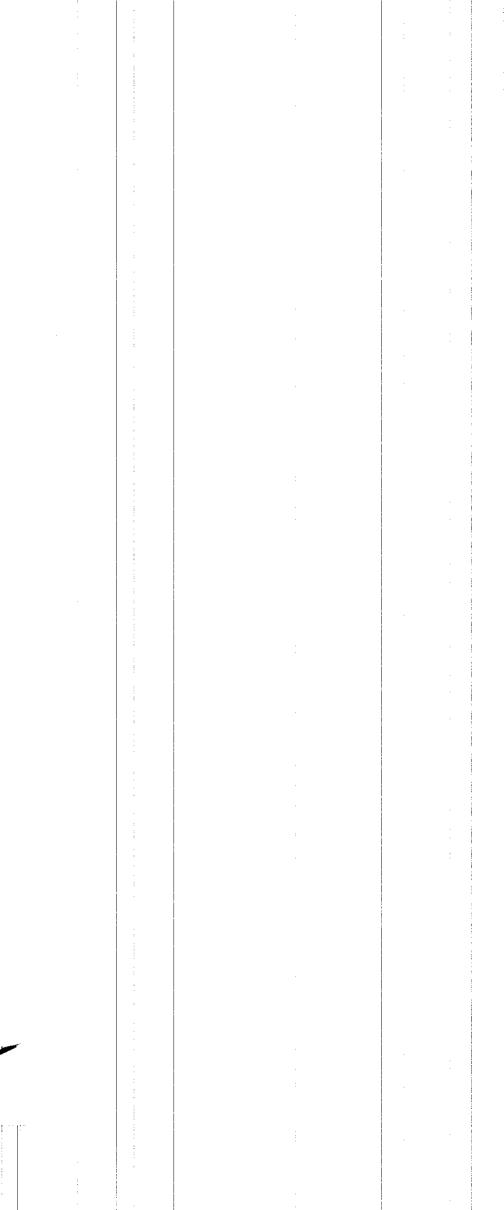


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AO – 18	3N.005			
AO – 18	3N.005	Weight	Scale	
AO – 18 Bush		Weight 0.2	Scale 1:1	
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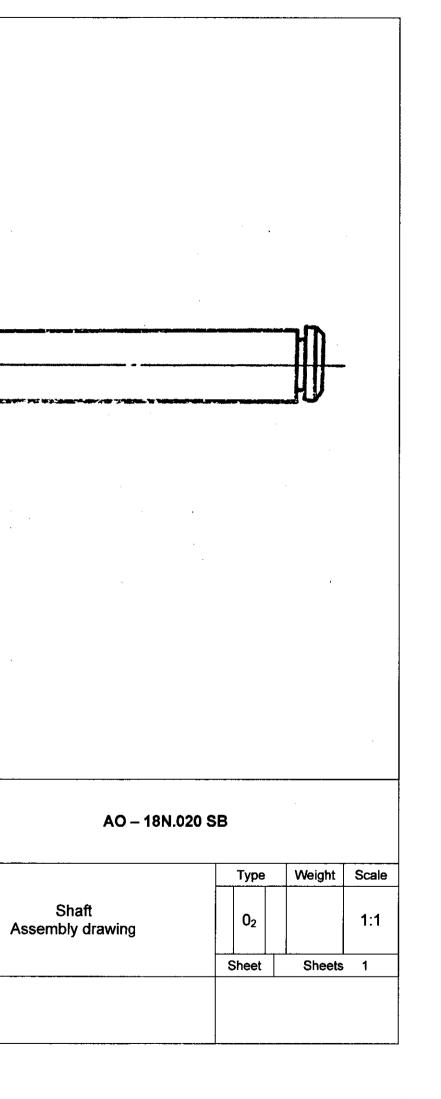
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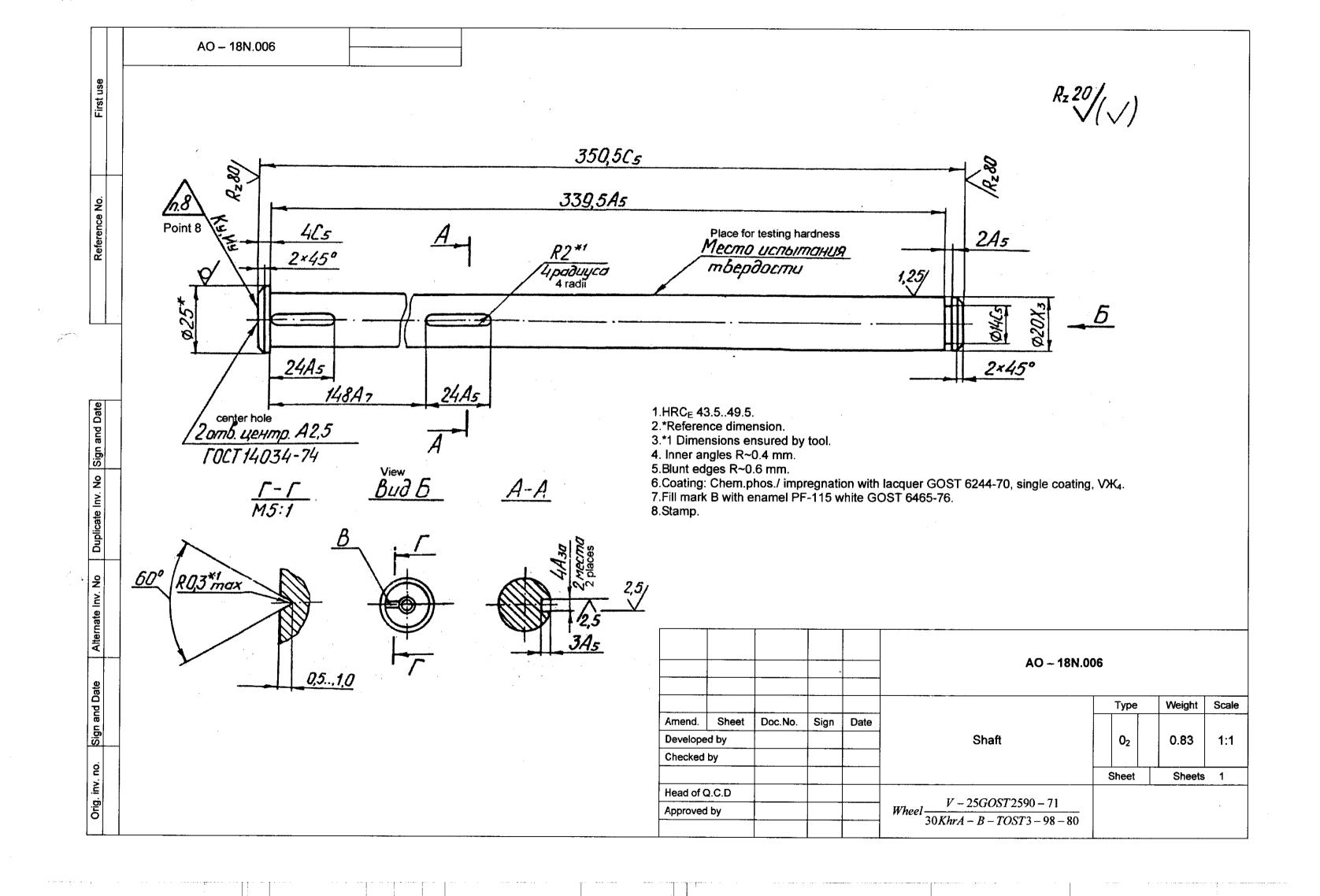
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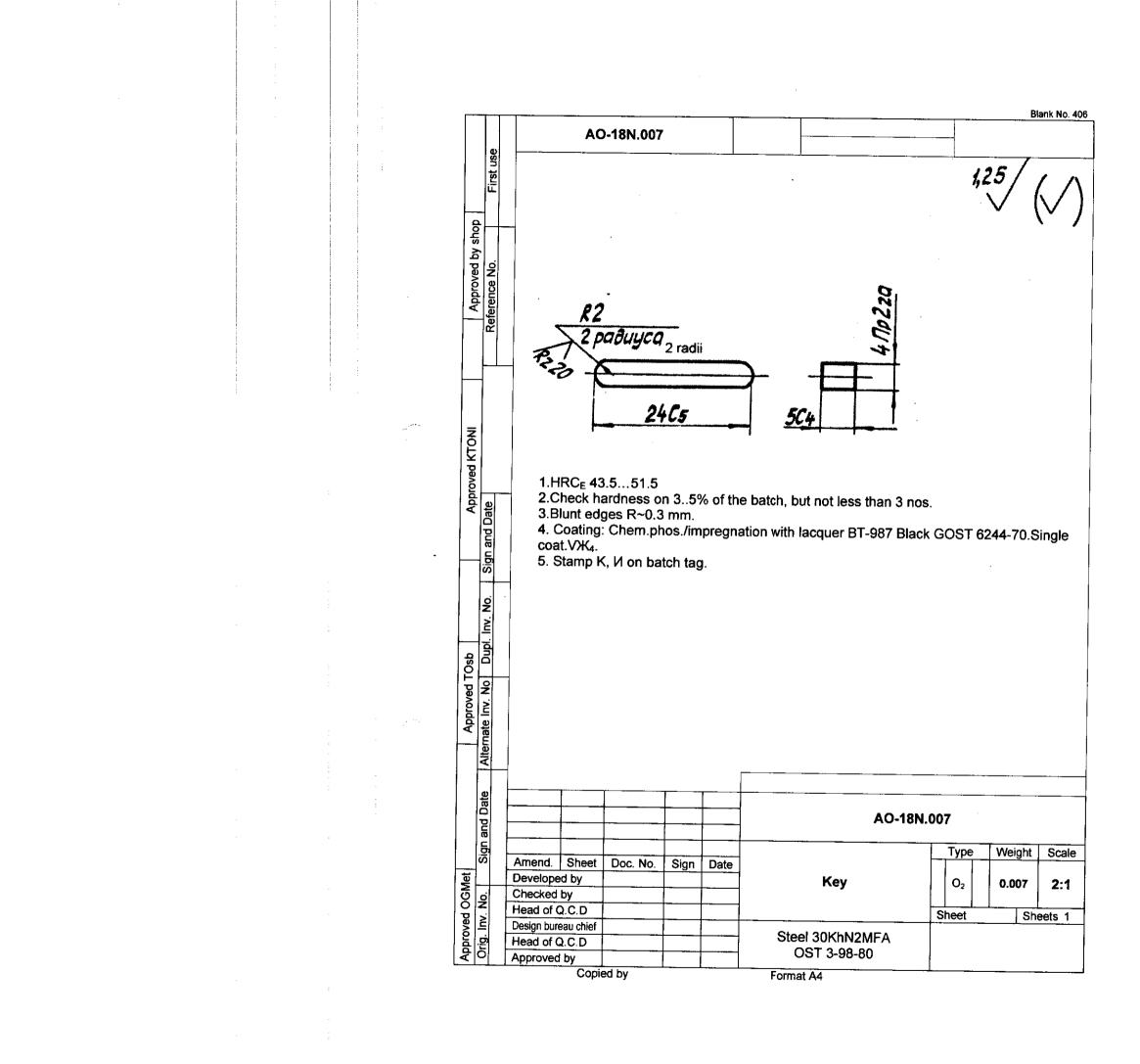
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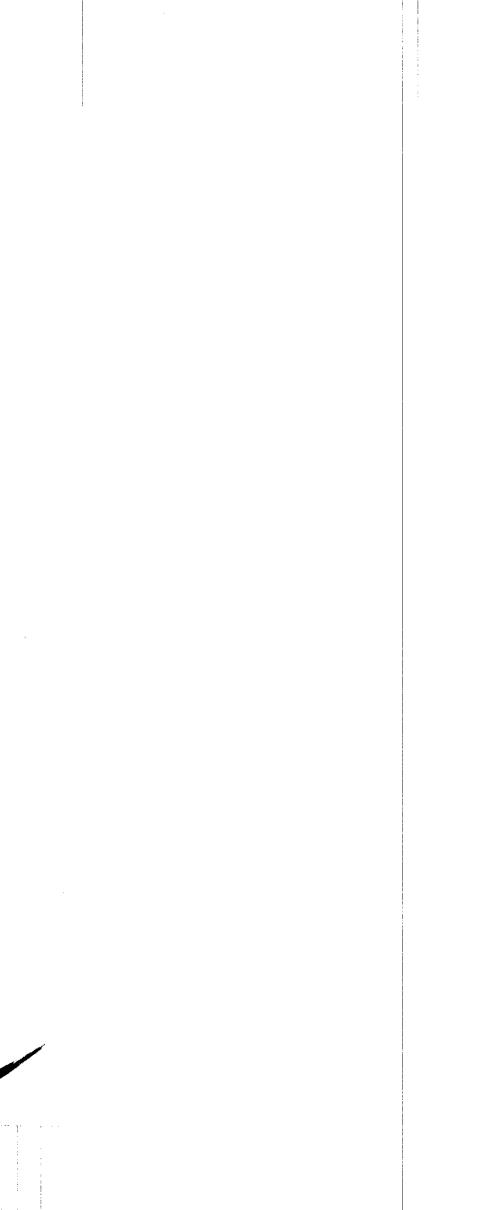
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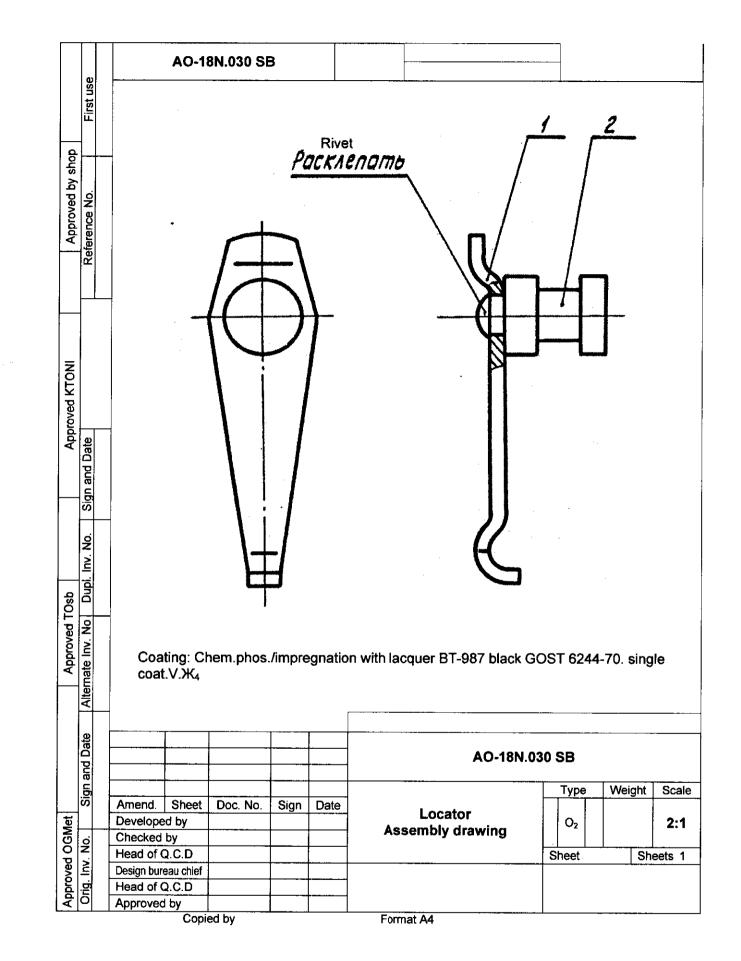
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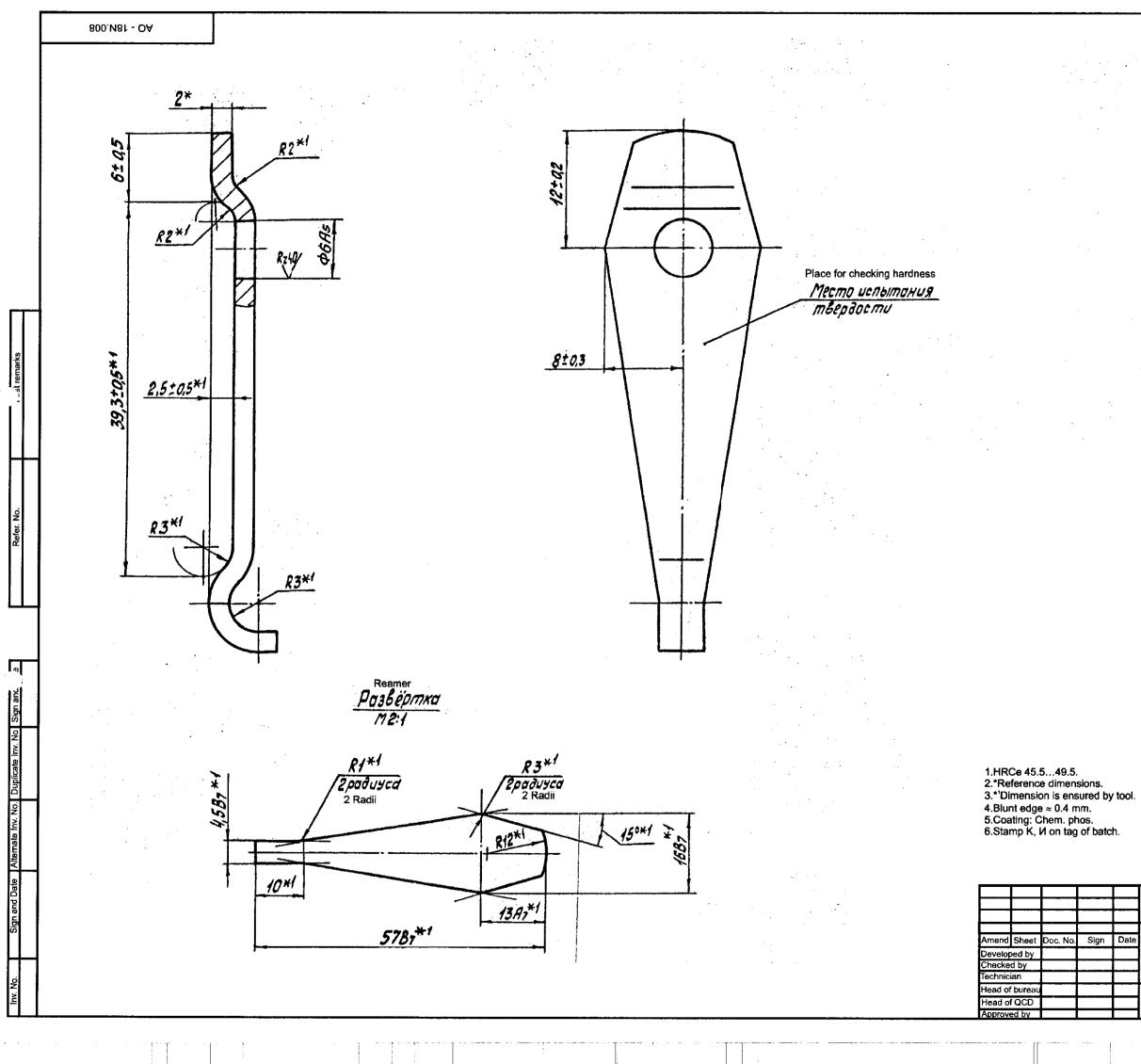
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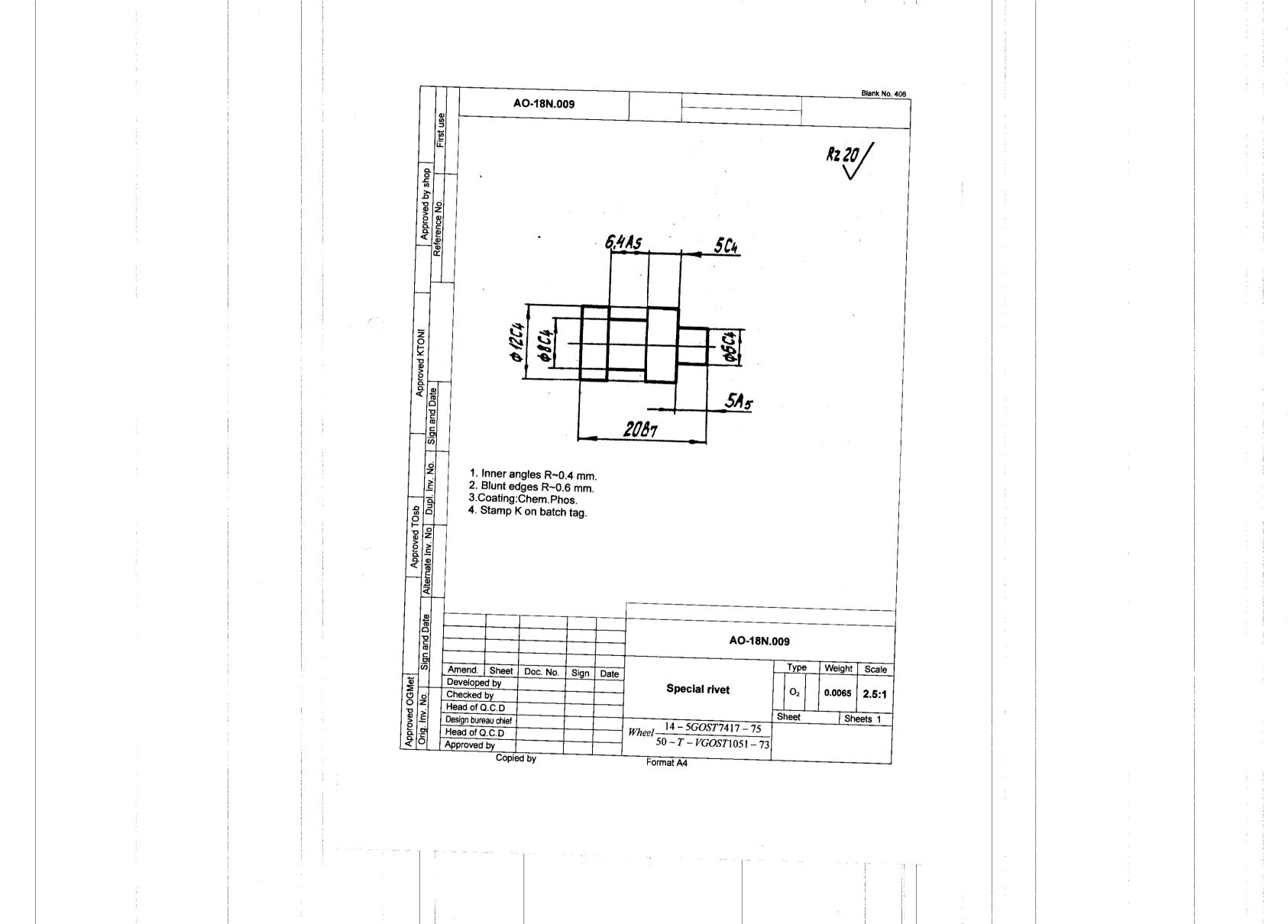




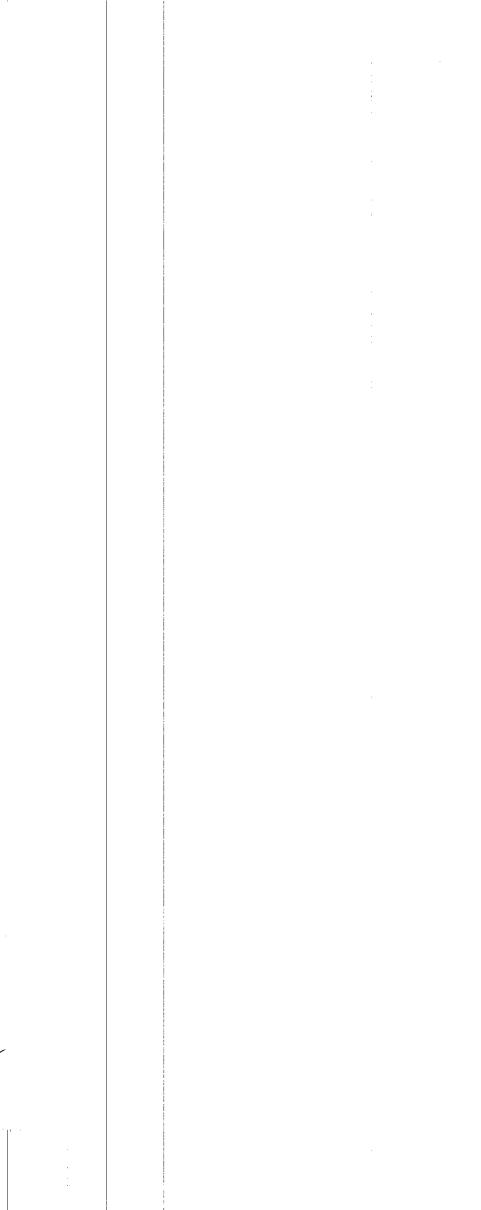


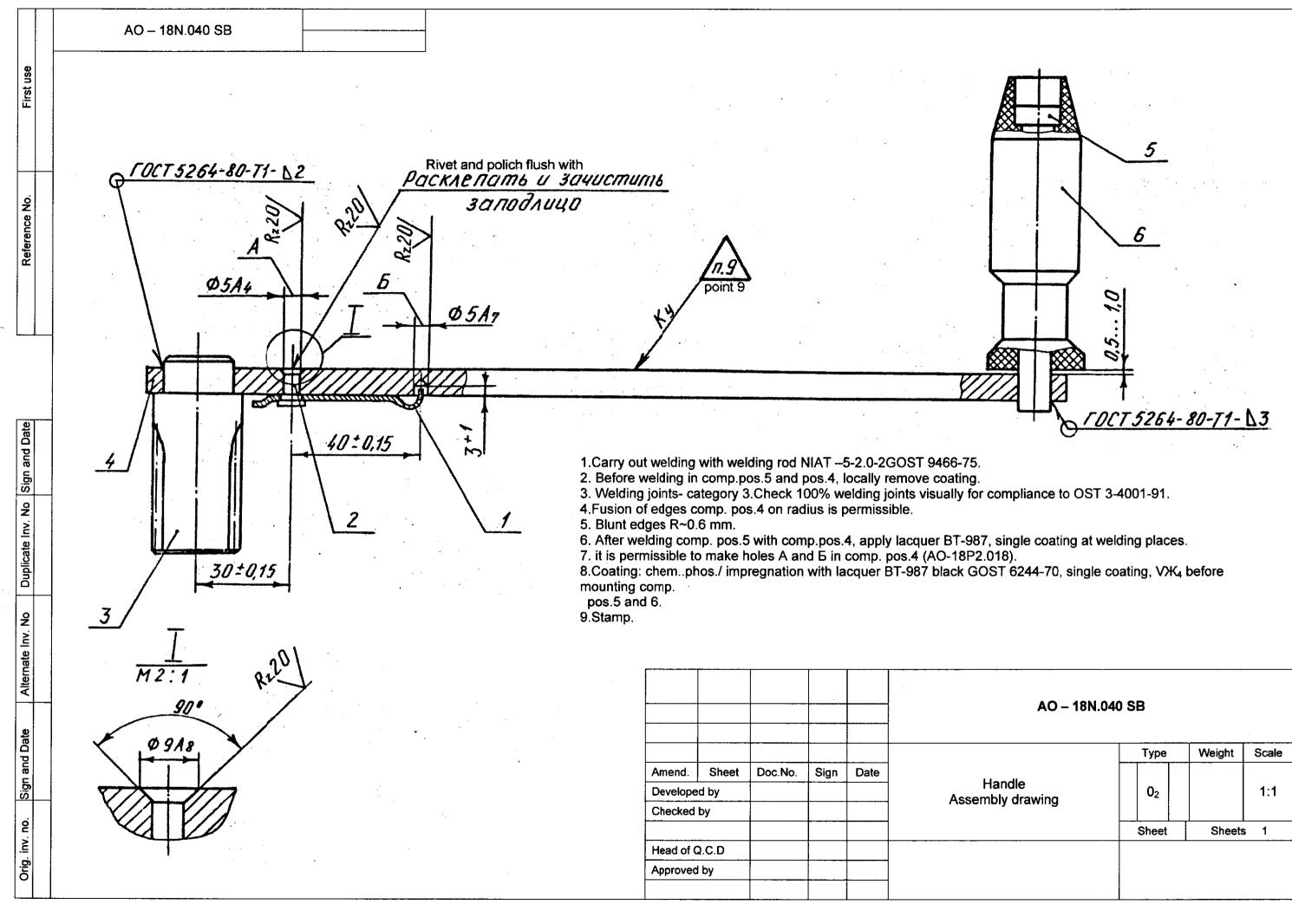


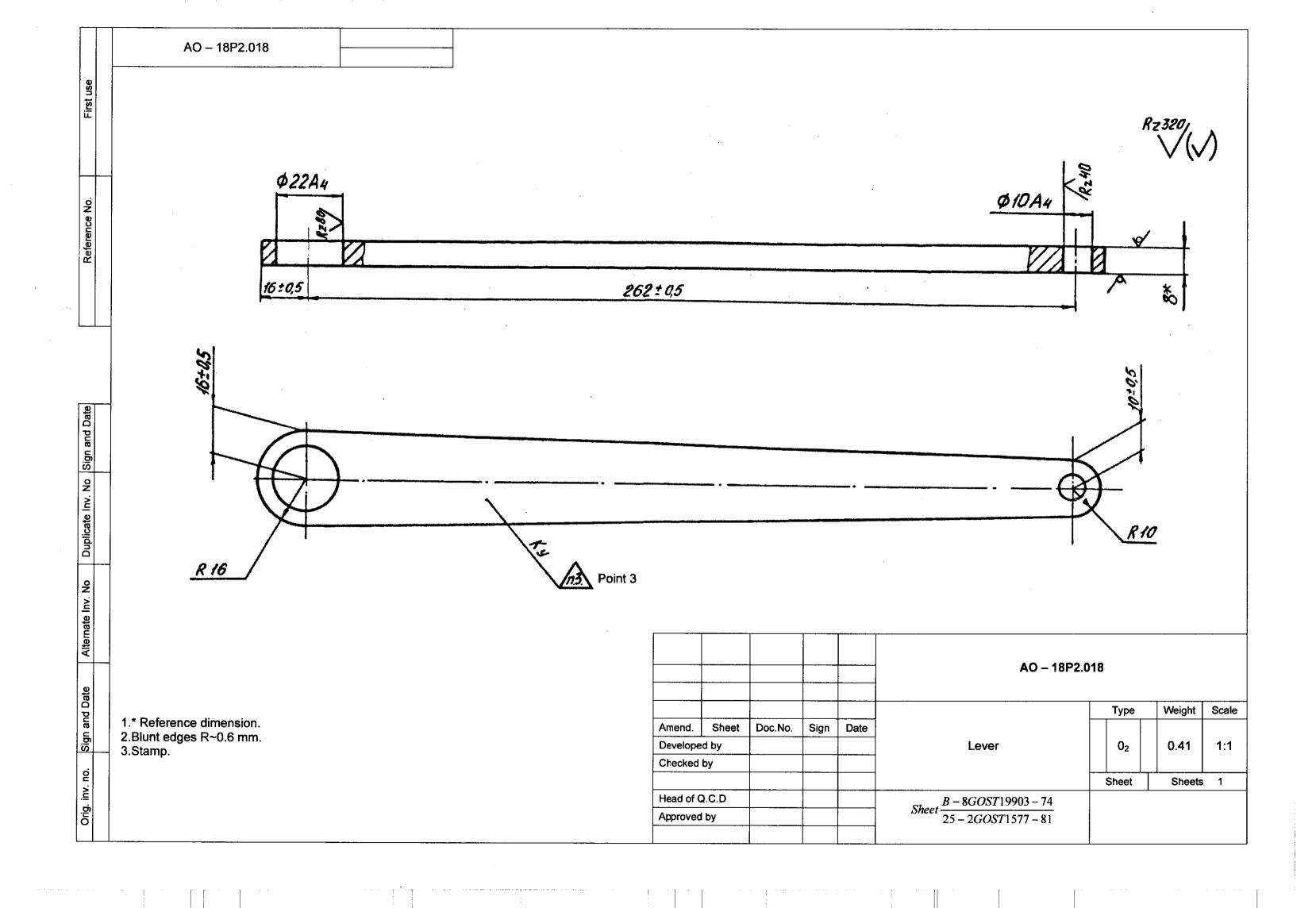
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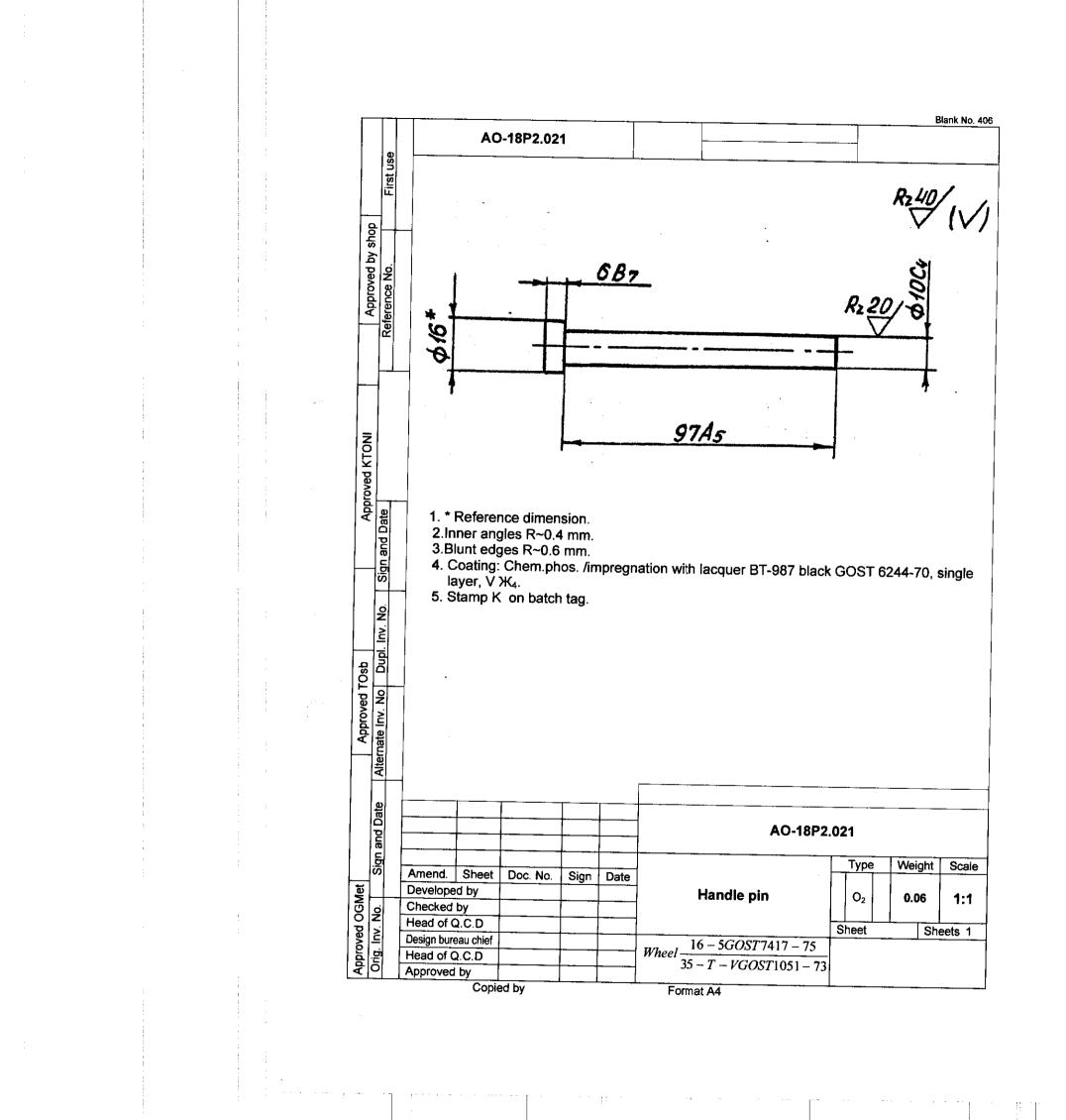


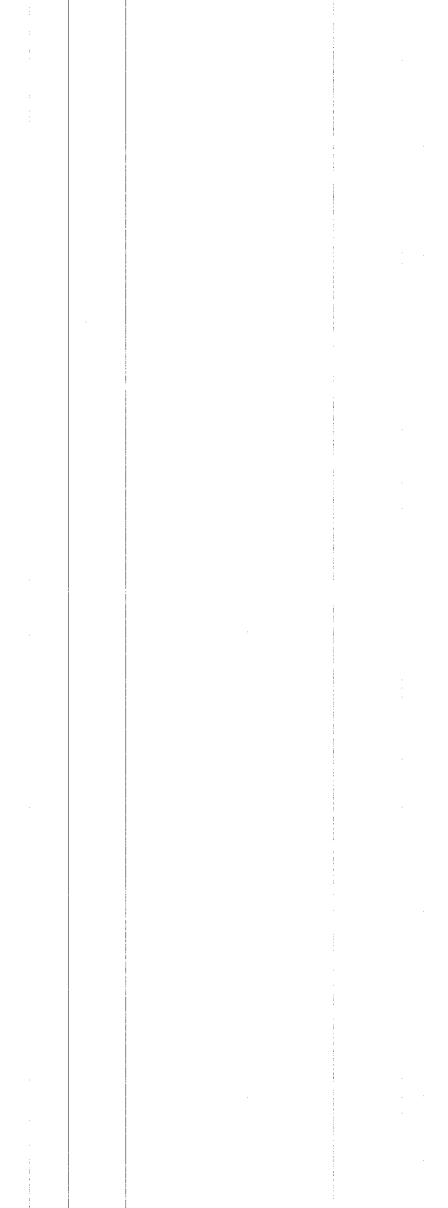
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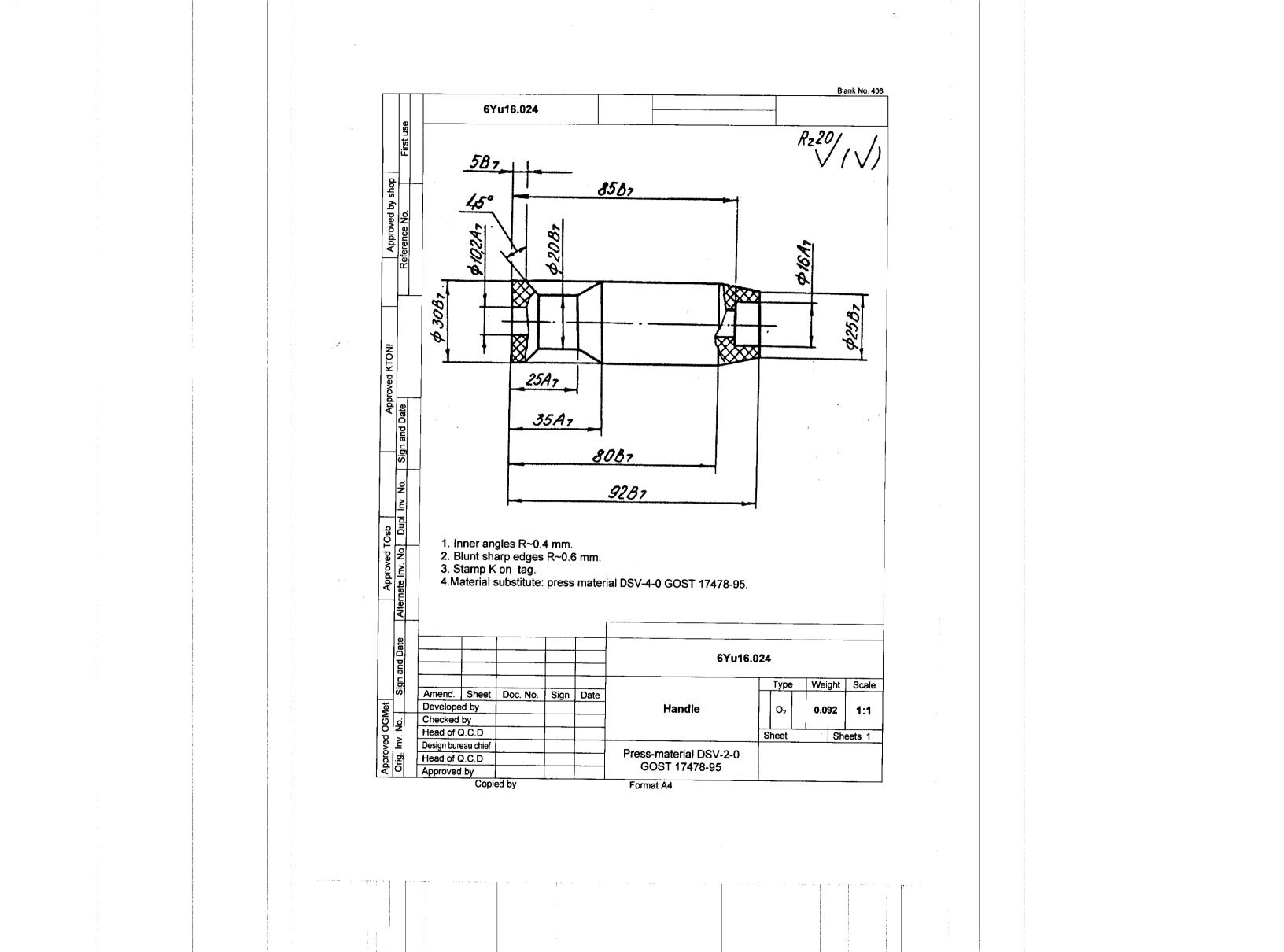


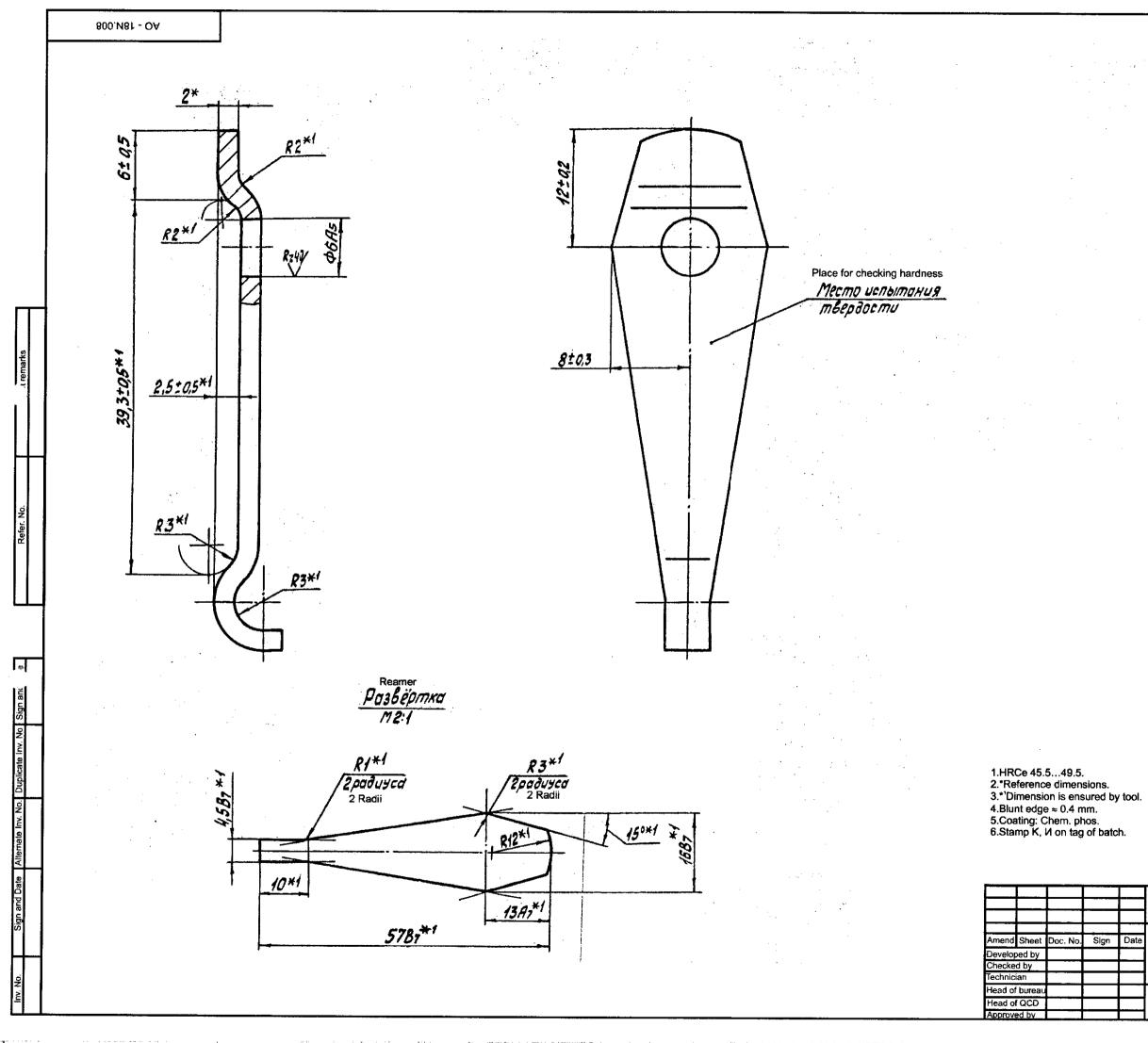




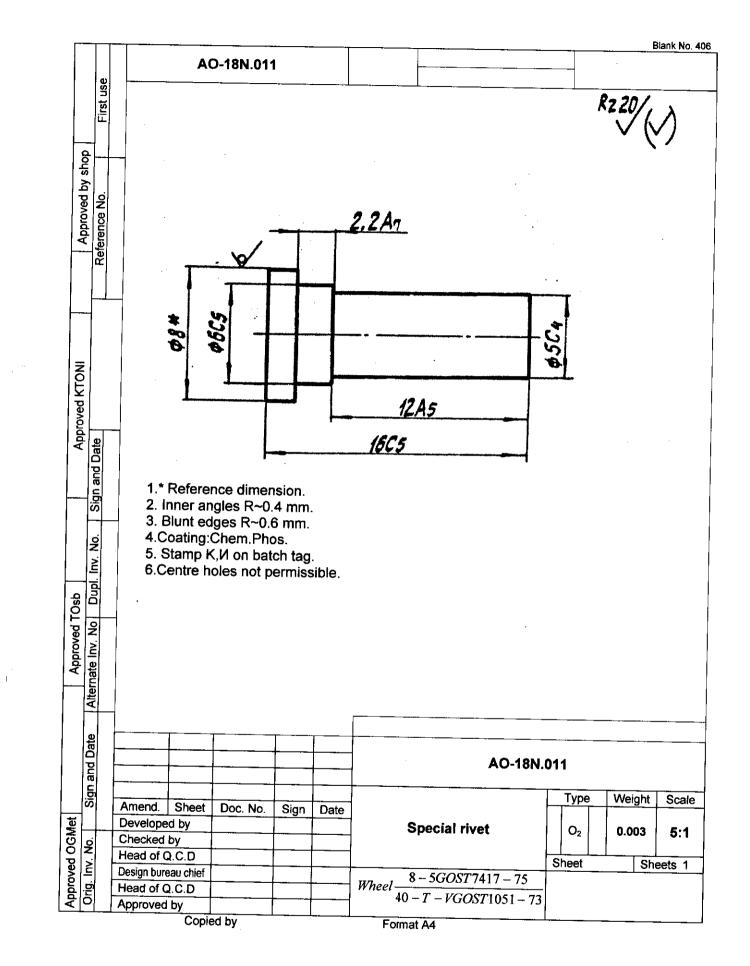




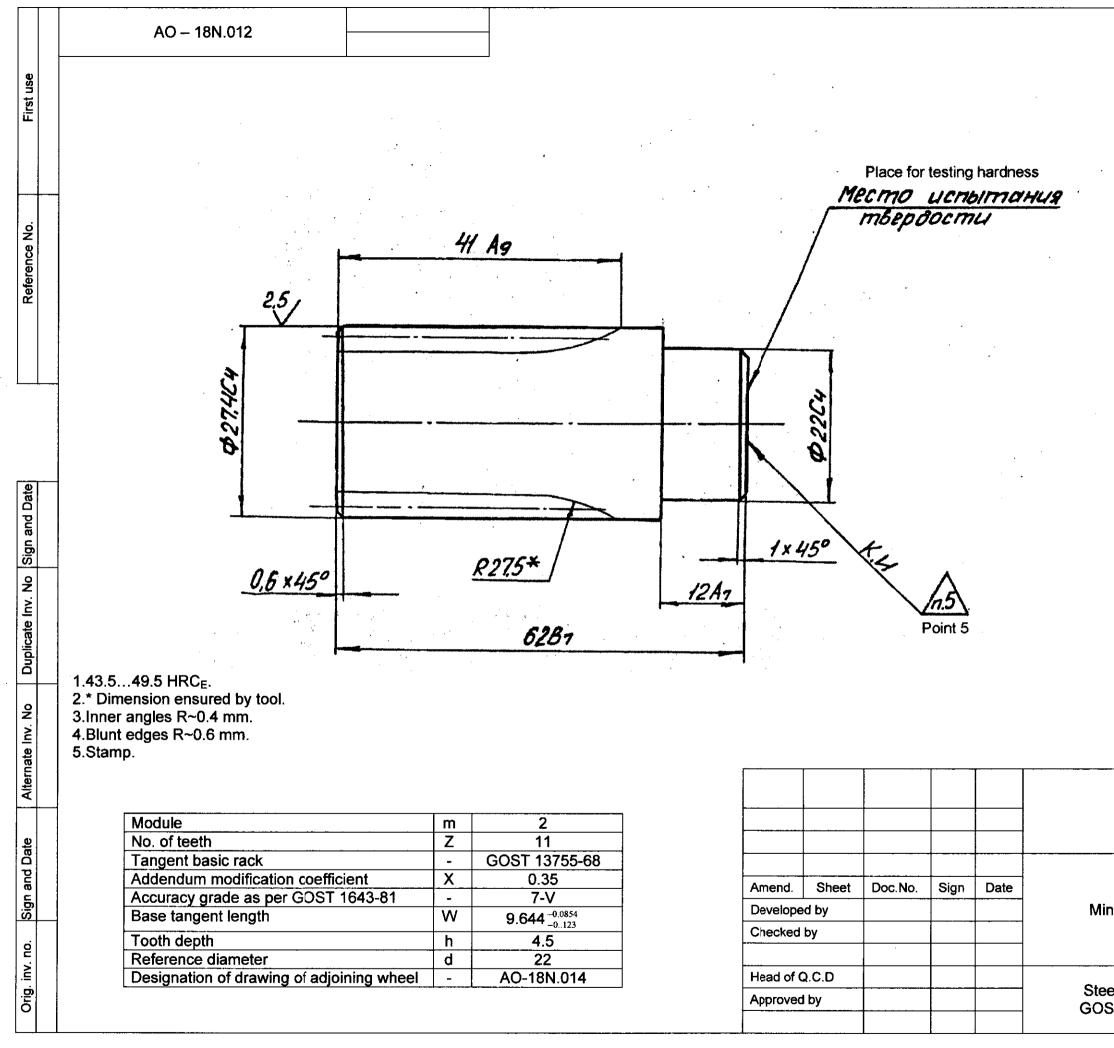




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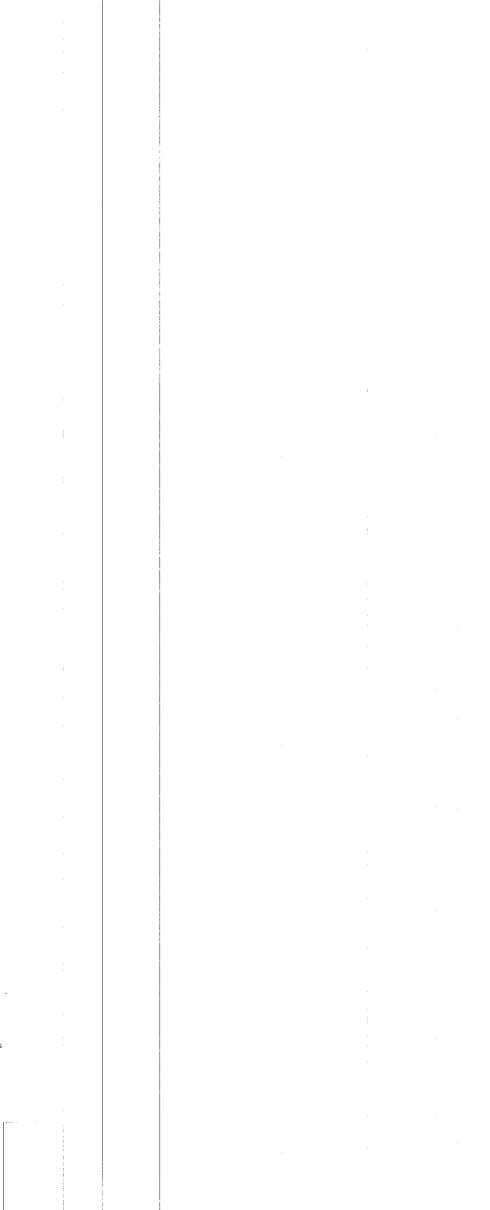


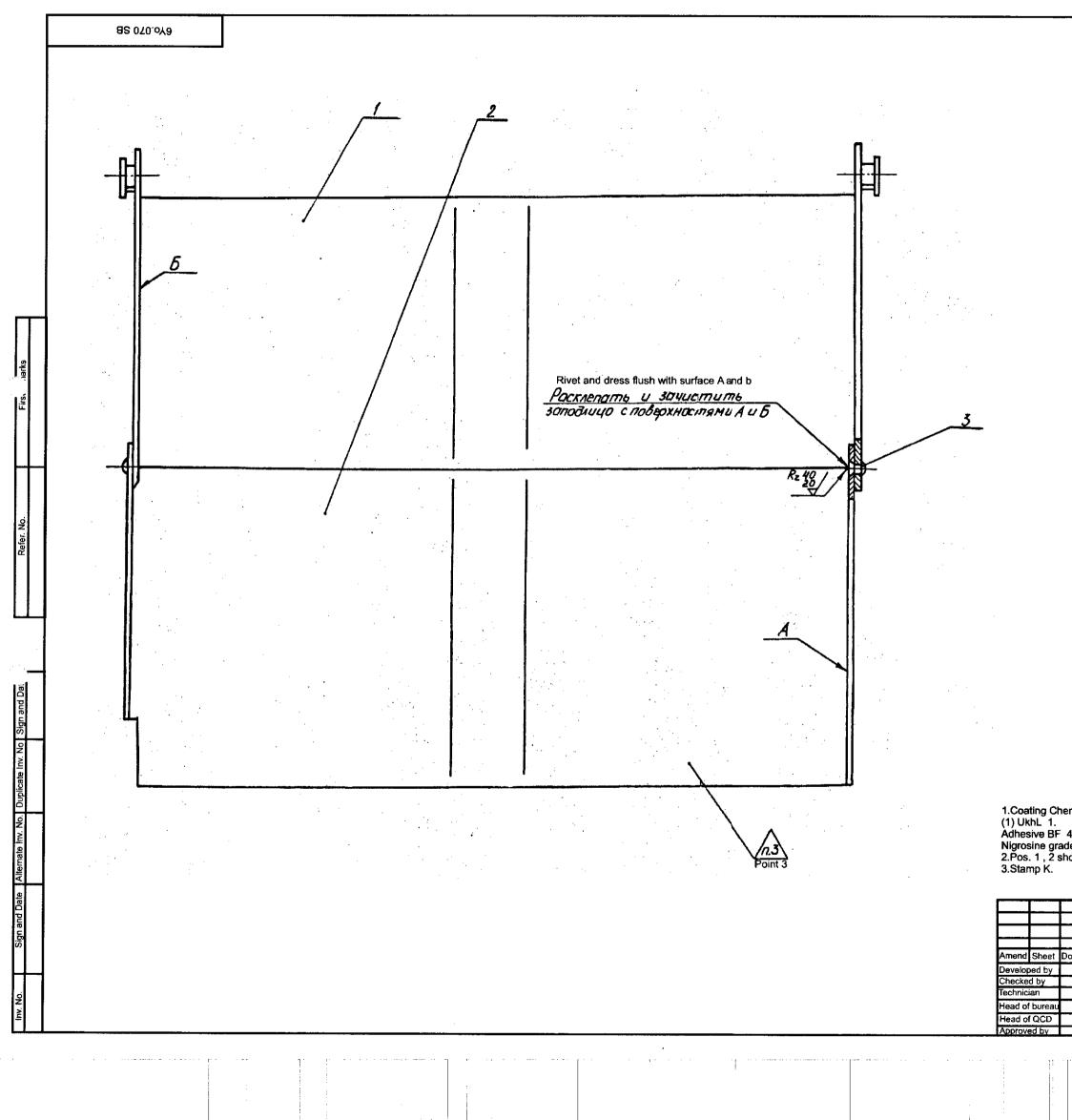


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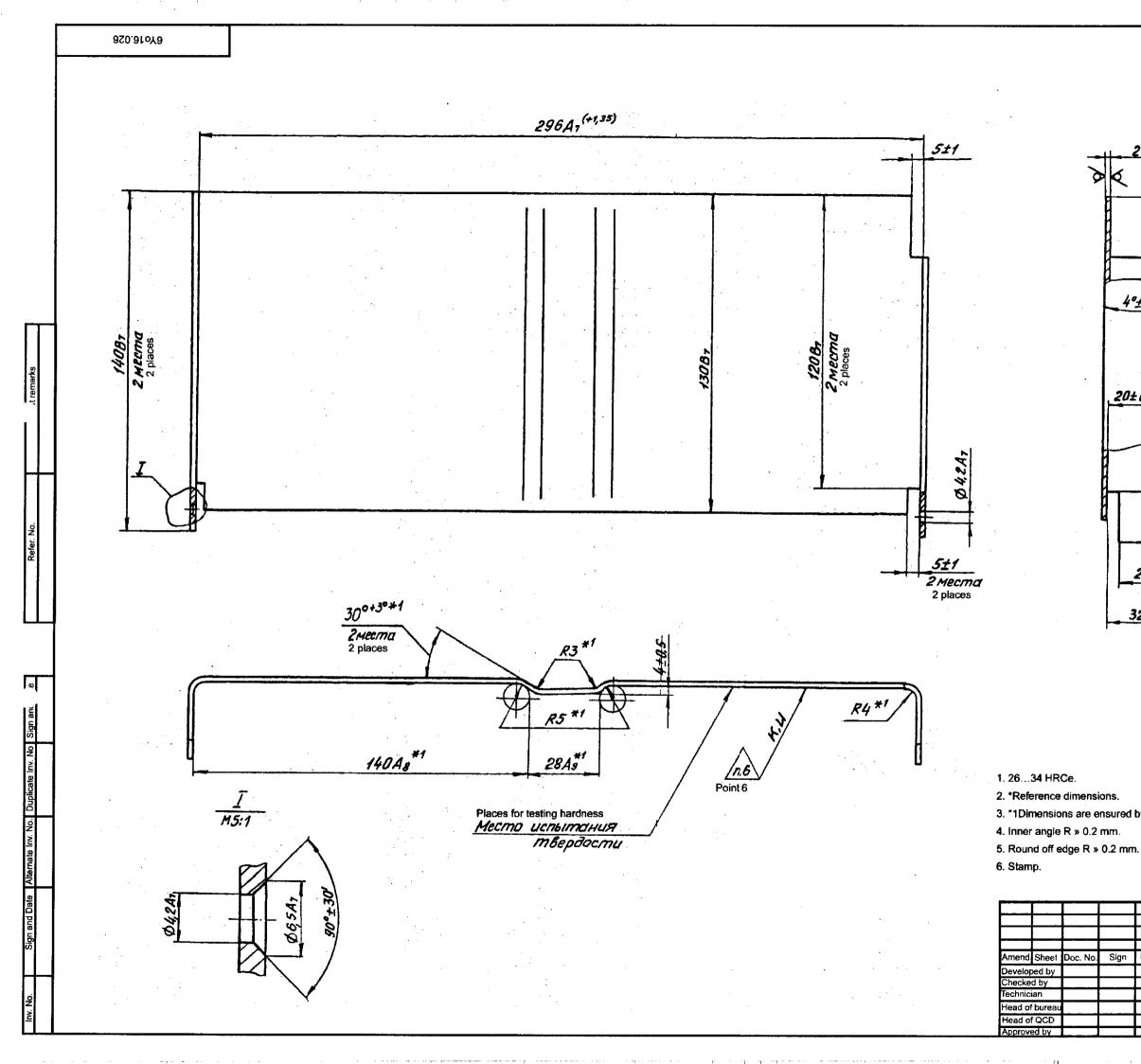
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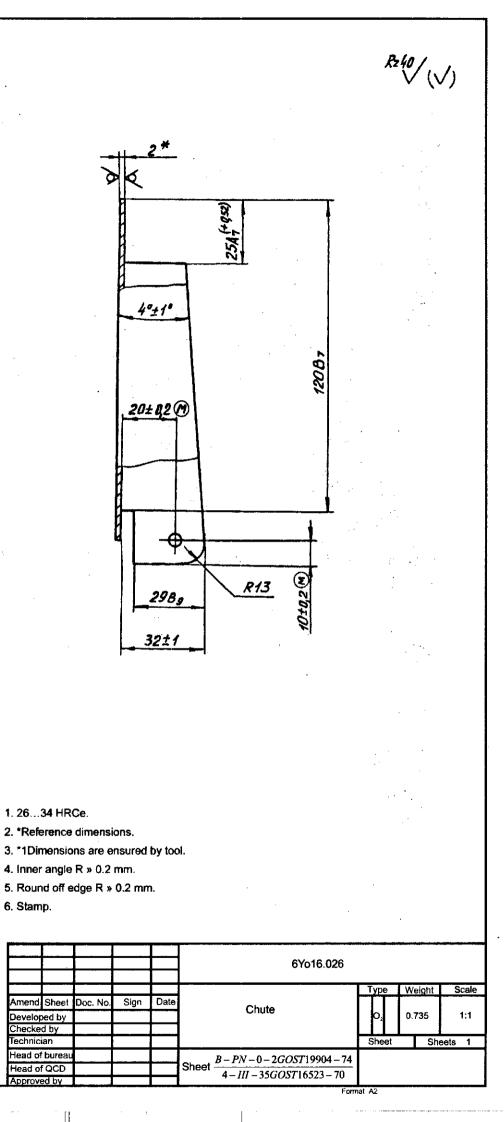
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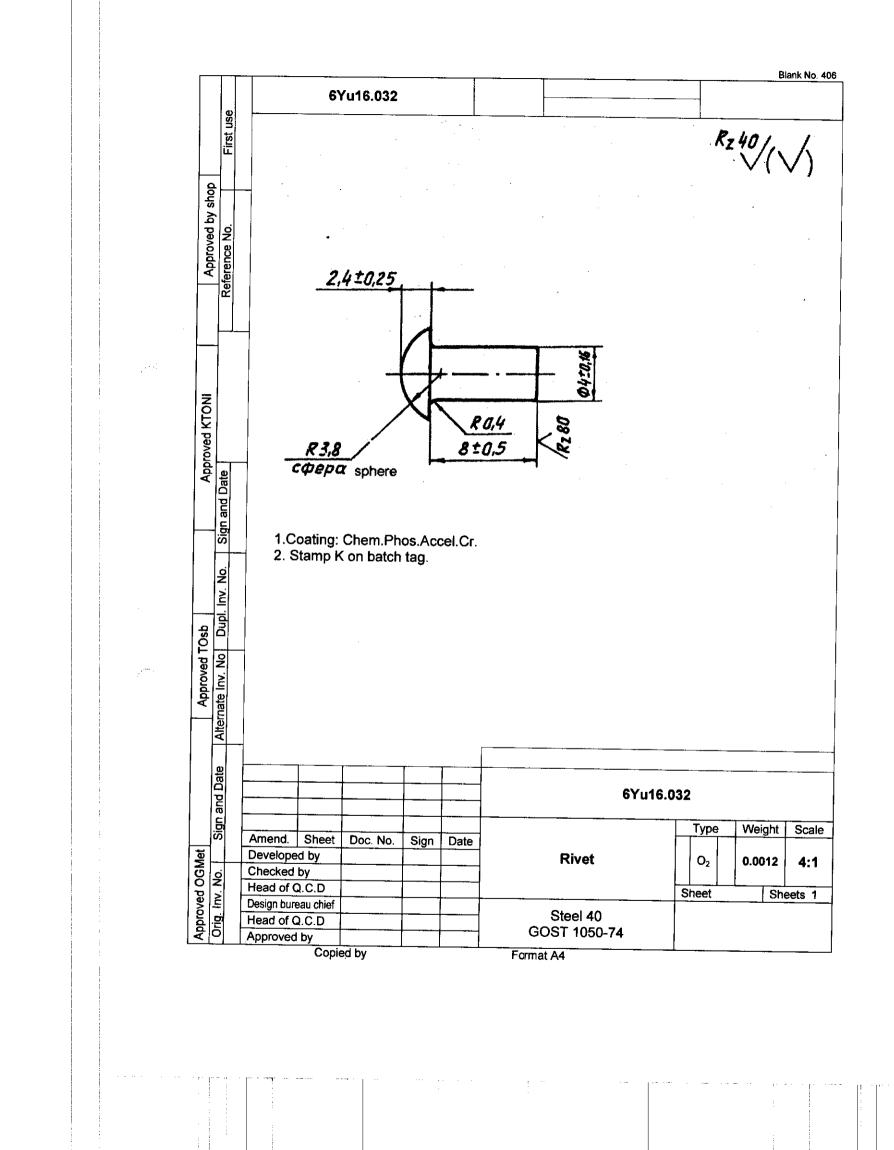


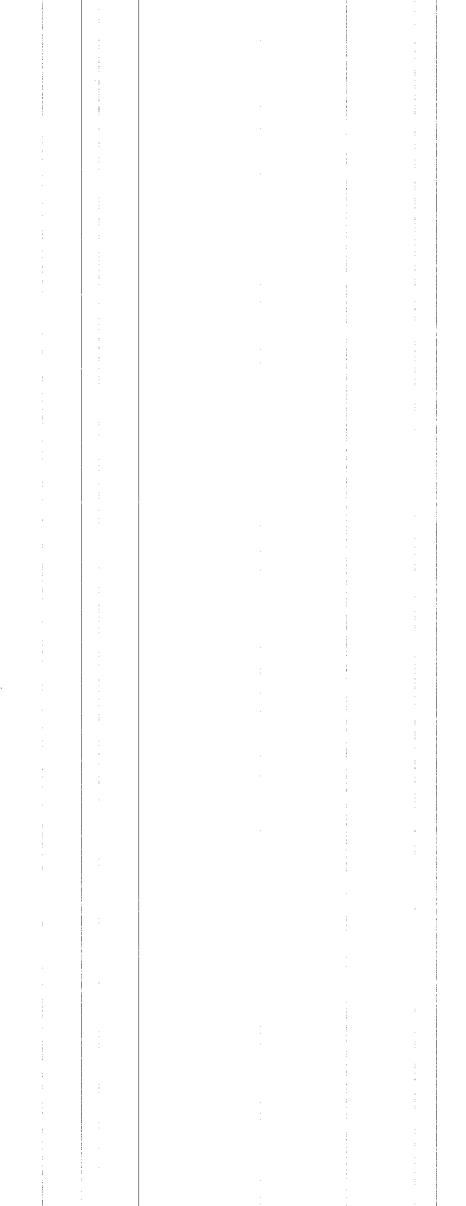


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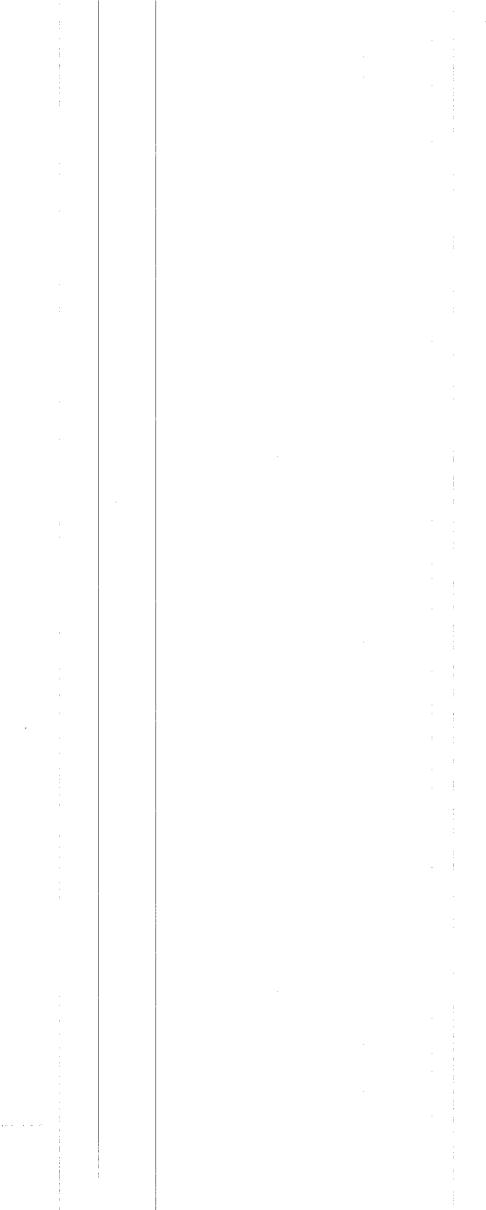


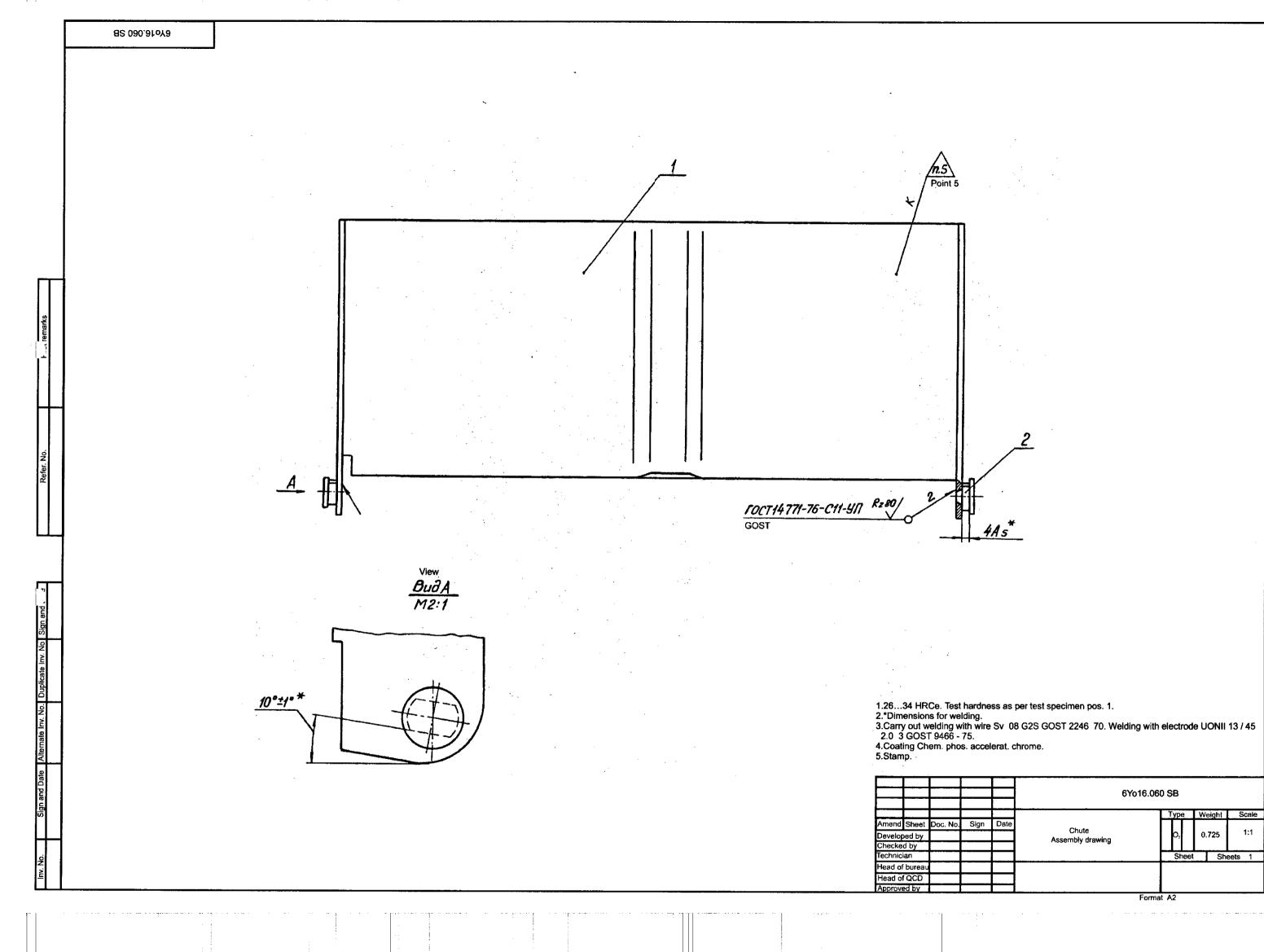


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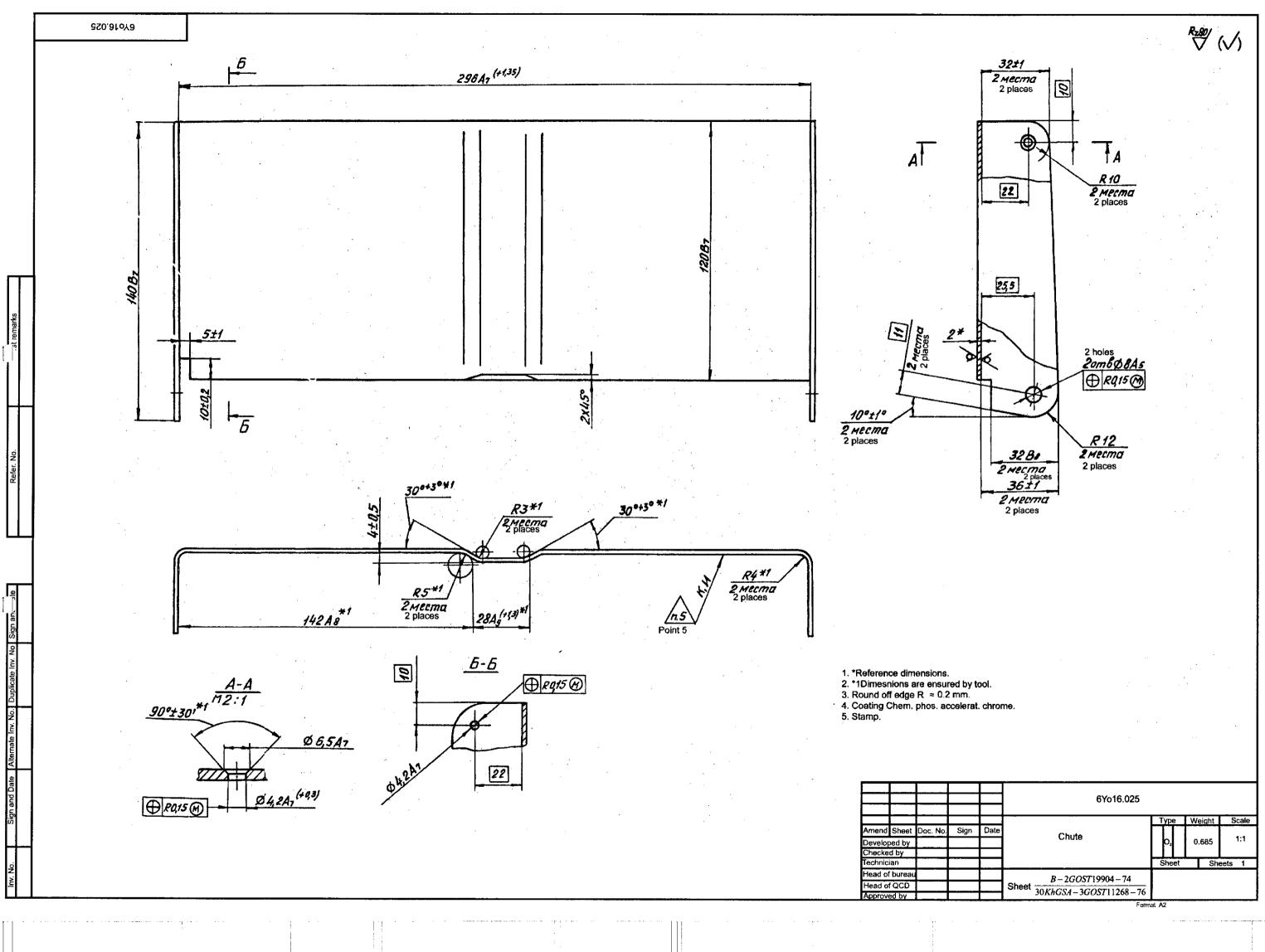
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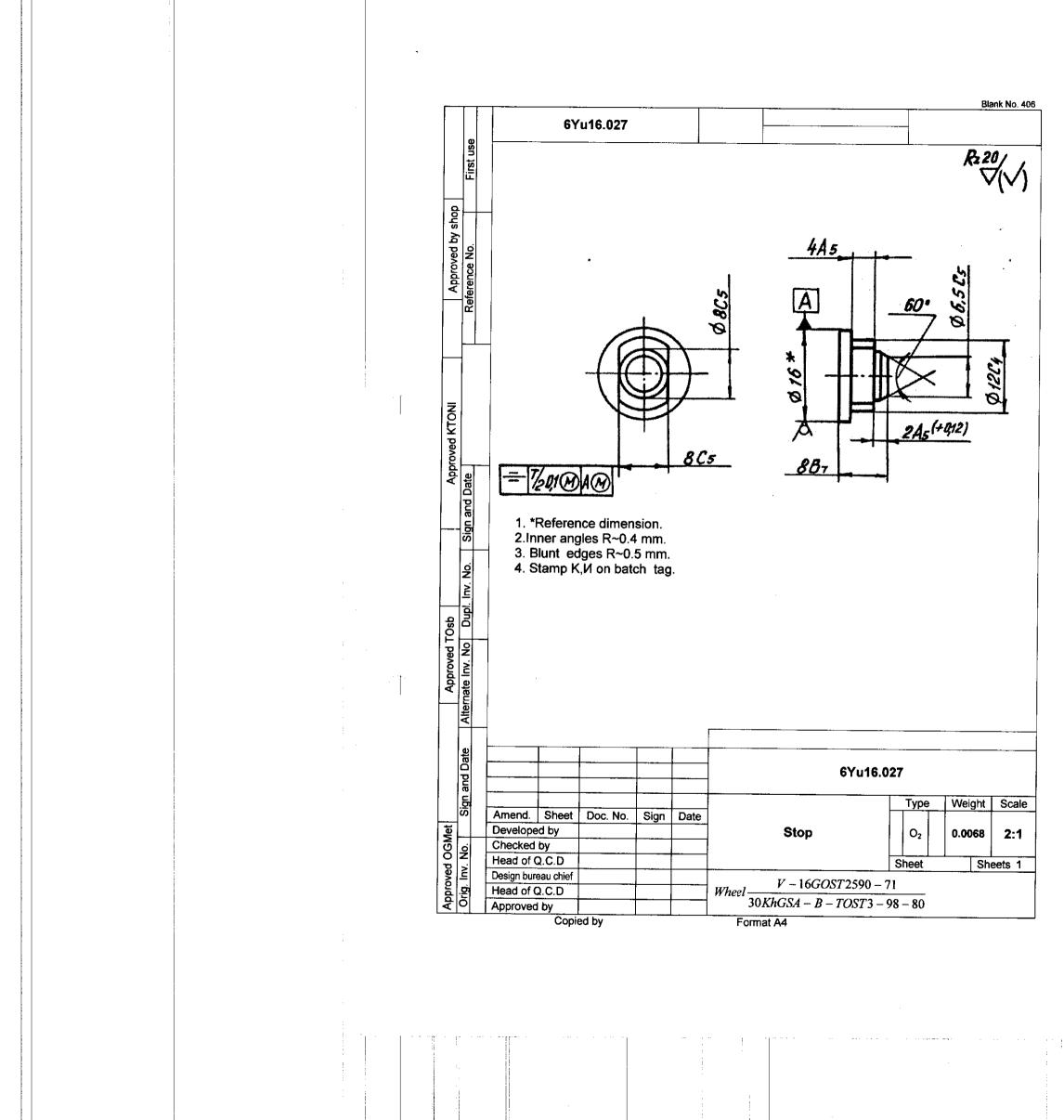
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SPECIFICATIONS /CERTIFICATES

BELT LOADING MACHINE

AO-18N

Specifications

AO-18N.000 TU

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	1.3. Re	quireme	ents for ma	aterials	and b	lanks			5				
	1.4. Re	quirem	ents for he	at trea	tment				5				
	1.5. Re	quirem	ents for ge	ar whe	els				6				
	1.6. Re	quireme	ents for coa	ating					7				
	1.7. Re	quirem	ents for me	easure	ments	and allowances			7				
	1.8. Re	quireme	ents for ma	achinin	g and	stamping			7 7				
	1.9 Requirements for rivet joints												
	1.10.Requirements for welding joints												
	1.11.Requirements for assembled machine												
Date	1.12.Completion kit												
Sign and Date	1.13 Marking												
ign a	1.14 Pa		10 10										
0	2. ACCEPTANCE RULES												
No	2.1 General conditions												
۲۲	2.2 Demonstration test												
Duplicate Inv. No	2.3 Approval test and acceptance by customer's representative												
Dupli	2.4 Periodical test												
	3. TEST METHODS												
	3.1 Weight inspection												
	3.2 Insp	pection	of force or	hand	le				17				
Alternate Inv. No.	3.3 Insp	pection	of designa	ted se	rvice li	fe			17				
ite In			of fail safe						17				
terna	3.5 Insp	pection	of material	ls and	blanks				17				
Ā			of hardnes						18				
					-				18				
Date													
and E	Amend.	Sheet	Doc. No.	Sign	Date	AO-18N.000 T	U						
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	Checked	-				BELT LOADING MACHINE		2	26				
Orig. Inv. No.	AO-18N												
ig. Ir	Head of Q.C.D Specifications												
Orig	Approved	Approved by											

	3.7	Inspec	tion of coat	ting			19
	3.8	Inspec	tion of asse	embled	machir	ne	19
	4. 1	EST M	IETHODS				20
	4.1	Genera	al conditior	ns durin	g tests		20
	4.2	Metho	d of demon	stratior	n and Q	CD acceptance tests	20
	4.3	Method	d for appro	val test	and ac	ceptance by customer's representative	20
	4.4	Period	ical test me	ethod			21
	5. 1	RANS	PORTATIO	ON ANI		AGE	22
	6. 0	OPERA	TING INST	RUCT	ION		23
	Anr	nexure	A. List of c	ompone	ents, fo	r which straightening is permitted after heat	24
			treatme	nt.			
	Anr	nexure	B. List of c	ompone	ents, us	ed for acceptance of machine	25
Sign and Date Alternate Inv. No. Duplicate Inv. No. Sign and Date							
Orig. Inv. No.	Amend.	Sheet	Doc. No.	Sign	Date	AO-18N.000 TU	Sheet 3

These specifications pertain to belt loading machine (further referred as machine) and meant for loading and unloading cartridge belts, consisting of links Z-AO-18.001 and cartridges type AO-18.

These specifications together with design documents and approved manufacturing processes are mandatory manuals for manufacturing, acceptance, tests, packing, storage and transportation of machines.

Manufacturing of machine should be carried out as per technological processes, approved by chief engineer of manufacturing unit.

Technological processes for flaw detection and instruction for preservation are agreed upon with customer's representative at manufacturing unit.

Amendments in prevailing technological processes as well as technological process approved by customer's representative are carried out after conducting necessary inspections as per schedule, approved with customer's representative.

Example of description of machine designation while placing an order and in documents of other article : AO-18N.000.

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1. TECHNICAL REQUIREMENTS

1.1 Basic parameters of machine.

1.1.1 Basic parameters of machine should comply to requirements, mentioned in table of present TU.

Table

S. No.	Nomenclature of parameter	Norm	Test method
1.	Weight of machine, kg, not more than	6.7	point 3.1
2.	Load on handle during loading and unloading, kgf, not more than	15	point 3.2
3.	Designated service life of machine, cycles: a) while loading b) while un loading	18000 2000	point 3.3

1.2 Characteristics of machine

1.2.1 Productivity of machine during loading and unloading of cartridge belts- 2000 nos./hour.

1.2.2 Delay is not permissible due to machine fault, during loading and unloading cartridge belts.

1.3 Requirements for materials and blanks

1.3.1 Materials, used for manufacturing machine should meet requirements of standards, technical documents, mentioned in drawings and should have documents confirming their quality (certificates, etc.).

1.3.2 Incorporation of materials for production should be carried out in compliance with instruction, approved by chief engineer of machine manufacturing unit and confirmed with customer's representative.

Before incorporating , machines should go through incoming inspection.

1.3.3 Materials, not having supplier's documents can be allowed to production in exceptional cases after getting approval from machine manufacturer regarding their serviceability and compliance to requirements of standards.

Incorporation of such materials in production is carried out by

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Orig	Amend.	Sheet	Doc. No.	Sign	Date		5

<< Permission>>, approved by customer's representative.

Customer's representative is provided with certificates and test reports of manufacturer's laboratory along with <<Permission>>.

Format of <<Permission>> is worked out by manufacturer and approved by customer's representative.

1.3.4 On demand of customer's representative, the manufacturing unit is obligated to conduct additional testing of materials for their conformity to requirements of drawings and present specifications at own manufacturing base as well as other places.

1.3.5 Forged materials and blanks made of alloy steels are checked on steel scope for conformity of steel grade and certified by QCD stamp, before delivery to machine shop.1.3.6 Forging of structure steels should comply to GOST 8479-70.

Test methods as per point 3.5.

1.4 Requirements for heat treatment

1.4.1 Hardness of heat treated components should be in compliance with requirements, mentioned in drawings.

1.4.2 Components, made of alloy grade steels should be checked for conformity of steel grade on steel scope and should have stamp for such inspection, before heat treatment.

1.4.3 Decrease in drawing dimension by value not exceeding the allowed by 0.1 mm is permissible on components and assembly units during polishing of surfaces at places, meant for hardness test.

1.4.4 Components made of carbon steels may be subjected to repeat hardening up to 2 times and alloy steels not more than once.

Before repeat hardening, components are subjected to high tempering.

Repeat hardening of components with high frequency currents is permissible not more than once.

Repeat hardening is carried out after establishing causes behind non compliance by permission of chief metallurgist of manufacturing unit by recording in logbook for repeat hardening.

1.4.5 Components, having gone through repeat hardening are stamped additionally (letter P) beside stamp for quality of heat treatment.

1.4.6 If after repeat hardening, hardness of components still do not comply to drawing, such components are rejected and segregated from serviceable ones.

1.4.7 Components that are to undergo machining, except grinding, undergo rechecking

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of hardness and restoration of stamps for heat treatment and steel scope.

1.4.8 There should not by any crack on components, subjected to straightening after heat treatment. After straightening, components undergo tempering for removing stress and flaw detection test.

List of components allowed for straightening after heat treatment is given in annexure A. Inspection method as per point 3.6.

1.5 Requirements for gear wheels.

1.5.1 Pitting of operating surfaces of gears, significant marks of machining of gear space, deposits of metal on gear are not permissible.

1.5.2 Set of inspection for gear wheels is decided by manufacturer. Inspection method as per GOST 1643-81.

1.6 Requirements for coating

1.6.1Coating/plating of components and assembly units are carried out as per requirements of drawings and GOST 9.305-84.

1.6.2 Protection of components against corrosion between operations during manufacturing is carried out as per GOST 9.028-74.

1.6.3 Individual damages of finally applied coatings on surfaces of component and assembly units, occurring during transportation, inspections, and also places of punching, flaring and marking are subjected to localized anti corrosion treatment as per manufacturer's technology.

Inspection method as per 3.7.

1.7 Requirements for measurements and allowances.

1.7.1 Allowances for position or shape, given in drawings should be taken as dependable tolerances as per GOST 24642-81, unless otherwise specified separately.

In absence of tolerances for position and shape in drawings, permissible deviations are limited by tolerance zones for dimensions of such surfaces.

1.7.2 Dimensions, not provided with tolerance in drawings are made as per 7th accuracy grade:

1) for holes A7;

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2) for shafts as per B₇;

3) for others as per CM_7 as per OST 1010.

1.7.3 Tolerances not mentioned for round off radii and chamfers should correspond to GOST 25670-83 (medium accuracy grade).

1.7.4 If taper surfaces in drawings are given with diametric dimensions with tolerances and linear dimensions for distance between datum and diameter measurement place, then tolerances for distance should be within range of tolerances for diametric dimensions (complex tolerance).

1.7.5 If surfaces are given with angular and linear dimensions in drawings, in absence of tolerance for angular dimension, deviation of angular dimension should be within tolerance zone for linear dimension (complex dimension).

1.7.6 During machining of surfaces, mentioned with single dimension, but made at various work places, non mergence of surfaces within tolerance range for dimension is permissible.

1.7.7 General instructions for rounding off (blunting) of sharp edges and for inner angles are approximate and should be checked only for absence of sharp edges and cuts and at adjoining places for absence of fitting as per round offs.

1.8 Requirements for machining and stamping.

1.8.1 Following are not permissible on metal components: burrs, notches, cuts of inner round offs, cracks, rust.

Nicks, scratches, flay marks, marks caused by tool, dents, insignificant ring cuts from reamers (not all along hole length) should not exceed permissible norms of tested specimen.

1.8.2 Bending, punching, riveting and caulking of components and assembly units for dressing of deviations and defects are not permissible.

1.8.3 There should not be cracks, ruptures and flaking on components made of rolled sheet.

Change in initial thickness of blank during cold forging at places of bend should not exceed:

1) at thickness of sheet up to 2 mm-10%;

2) at thickness of sheet above 2 mm-15%.

1.8.4 Stamping, engraving, inscriptions of letters , numbers and other symbols by strike method on metal components and assembly units should be carried out clearly and

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distinctively without ruptured edges and unscripted places.

Deformation of components and assembly units is not permissible.

Metal bulging should be filed.

1.8.5 Shift of stamps during manufacturing of components and assembly units should be attested with QCD stamp or signature in document, certifying quality of components and assembly units.

Inspection method is visual.

1.9 Requirements for riveted joints.

1.9.1 Rivet joint should tightly join riveted components. Mutual movement and swinging of components with respect to each other is not permissible.

1.9.2 On surfaces of riveted components, blunt imprint caused by mandrel and mark not exceeding 0.1 mm in depth are permissible.

1.9.3 Geometrical shapes and dimensions of last heads of rivets should be in compliance with requirements of drawing and OST 3-1316-85.

1.10 Requirements for welding joints

1.10.1Welding joints should comply to requirements of drawings and present specifications.

1.10.2 Welding operations are carried out as per OST 3-4001-91.

Welding joints -category II.

Inspection of welding joints should be visual and thorough.

1.11 Requirements for assembled machine

1.11.1 Link and dummy-gauge of the cartridge should enter the machine , freely-without jamming.

1.11.2 During loading, the link should be placed in groove of gauge. Stretching and break of link are not permissible. Incomplete push of gauge in link is not permissible.

Inspection method as per point 3.8.

1.12 Completion kit.

1.12.1 Supply kit of machine includes:

1) belt loading machine AO-18N.000;

2) certificate AO-18N.000-01PS;

3) key AO-18N.007 (2 nos.)

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4) wood screw 1-5x40 GOST 1145-80 (6 nos.);

5) drift bolt 4x100 GOST V 18655-82;

6) screwdriver 7810-0928 3AI Cd.21 Cr.GOST 17199-88;

7) packing box Ya-AO-18N.000.

1.13 Marking

1.13.1 Marking of components and assembly units as well as machine is carried out in general in compliance with requirements of drawing and present specifications.

1.13.2 All conventional signs and inscription should be done distinctively, without compromise on quality and look of the article.

1.14 Packing

1.14.1 Machine, spare parts, tool, accessories are preserved as per technological process (instruction), developed by manufacturer and approved by customer's representative.

Preservation of machine is done for storage period of 7 years.

1.14.2 Machine, spare parts, tool, accessories and certificate are placed in box Ya-AO-18N.000.

Certificate, spare parts, tool, accessories however are packed in polyethylene sheet packets, with thickness not less than 0.15 mm.

1.14.3 It should be clean inside box, dust and chips inside box are not permissible.

1.14.4 After placement, inspection of correctness of placement and completeness of box, it is closed by tightly fitting cover, locked, tied with wire and sealed with QCD seal and customer's representative.

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2. ACCEPTANCE RULES

2.1 General conditions

2.1.1 Under mentioned basic categories for inspection tests are set for checking quality and acceptance of machines:

1) approval;

1) periodical.

Demonstration test carried out by QCD precedes approval test category.

2.1.2 Category of inspection tests includes basic types of inspection and tests:

1) test foe service life;

- 2) tests for reliability;
- 3) measurement inspection;
- 4) visual inspection.

Specific test schedule includes all or part of basic types depending up on purpose of tests.

2.1.3 Manufacturer's QCD carries out inspection of components and assembly units for compliance requirements of drawings and present specifications by total inspection. QCD periodically carries out inspection of technological processes as per schedule approved by chief engineer and customer's representative.

2.1.4 Customer's representative controls adherence to technological processes selectively on his discretion.

2.1.5 Demonstration, approval tests and acceptance of machine are carried out by the QCD and customer's representative by furnishing separate documents(notice regarding demonstration, protocol with results). Format of documents is worked out by manufacturer and approved by customer's representative.

2.1.6 Technological certificate should be furnished for each machine, it should have information regarding assembly, tests and inspection operations.

Format of technological certificate is developed by manufacturer and approved by customer's representative.

2.1.7 Servicing of machines during demonstration and approval tests is carried out with help of technological kit of tool and accessories.

Servicing of machines during periodical tests , is carried out by tool and accessories

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taken from supply kit.

2.1.8 Machines, demonstrated during approval tests, should be fully completed in compliance with point 1.1.2 of present specifications.

2.1.9 Test results are considered positive and machines having withstood tests, if it has been tested in full extent and sequence specified in specifications for test category carried out and comply to all requirements of specifications, checked during these tests.2.1.10 Test results are considered negative and machines, having failed the tests, if test results show non conformity of the machine even if for a single requirement established

for this category of tests.

2.1.11 Basis for taking decision about acceptance of machine is positive results of approval tests and also positive results of previous periodical tests, carried out in specified periods.

2.1.12 If the tests and acceptance are carried out at manufacturing unit, materialtechnical and metrological facilities (necessary documents, hand books, work place, test tools, consumables and others) as well as allotment of maintenance personnel, security, transport and others are provided by the manufacturer.

2.1.13 Test, measurement and inspection tools that are applied and also measurement and inspection technique should be in compliance with requirements for metrological provisions.

While carrying out tests, correctness of application of specified tools and conducting measurements and inspection are ensured.

Use of test, measurement, inspection facilities, without having metrological attestation (checking) within stipulated time, is not permissible.

2.2 Demonstration tests

2.2.1 QCD conducts demonstration test in order to check machines for compliance to technical documents and their readiness for demonstration before customer's representative.

2.2.2 QCD carries out checking of machines by total inspection for under listed types of tests and inspection:

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1) demonstration tests;

2) inspection of preservation and packing.

Method as per point 4.2.

2.2.3 Each machine , demonstrated for QCD inspection are subjected to manufacturing inspection for compliance to requirements of technical document during manufacturing.2.2.4 Manufacturing shop produces for demonstration test or inspection, by providing notification and technological certificate.

Format of notification is worked out by manufacturer and approved by customer's representative.

2.2.5 Machine is considered having been passed by QCD and fit for demonstration before customer's representative, if results of tests (inspection) comply to requirements of documents and furnished with protocol.

2.2.6 Machine, which failed QCD tests are returned to manufacturing shop for elimination of causes behind appearance of defects, conducting measures for their rectification, repeat inspection and repeat demonstration.

2.2.7 Repeat demonstration tests are carried out to extent , specified for demonstration tests.

Depending up on nature of defects, detected during preliminary tests (inspection), in individual technically justified cases, repeat demonstration tests may be carried out in volume of those tests, for which discrepancies in machines with established requirements were found, which could have affected appearance of non conformity, for which tests were not carried out.

2.2.8 Machines finally rejected by results of demonstration tests or inspection are segregated from serviceable ones.

Decision about use of finally rejected machines is taken by manufacturer with approval of customer's representative in necessary cases.

2.3 Approval tests and acceptance by customer's representative.

2.3.1 Customer's representative carries out checking of each machine on under mentioned tests and inspection:

1) approval tests;

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2) inspection of preservation and packing.

Method as per point 4.3.

2.3.2 Customer's representative carries out tests and inspection for checking machines for compliance to requirements of specifications and determining possibility for acceptance.

2.3.3 Customer's representative carries out tests and acceptance with sources and tools of manufacturer in presence of QCD representative.

2.3.4 Demonstration of machines for inspection, tests and acceptance are carried out by QCD by notification.

Notification is accompanied with documents certifying conformity of machines to requirements of technical documents and technological certificate. Accompanying documents are provided for main components of machine (list is approved by customer's representative) with mention of: material grade, hardness, entry about inspection on steel scope and others.

For approval tests, additionally attached operating certificate for machine.

2.3.5 Customer's representative has right to check any number of components and assembly units at any stage of manufacturing for their compliance to requirements of drawings, technological processes and present specifications.

2.3.6 Machines having passed demonstration tests are produced for approval test.

2.3.7 Test and inspection results are furnished in form of protocol.

Protocols include technological certificate for machine.

If furnishing unified protocol, it has provision for separate column for recording QCD and customer's representative inspection results and report on them.

2.3.8 If during inspection, non compliance of machines to requirements of technical documents is found or even as ingle delay is found (due to machine), then the machine is considered having failed tests and acceptance.

2.3.9 Machine, having failed the tests is returned to the QCD by customer's representative for finding causes for non compliance to requirements of technical documents, for conducting measures for their rectification, repeat checking and demonstration.

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2.3.10 Repeat tests are carried out in full extent.

Depending up on nature of defects, detected during preliminary tests (inspection), in individual technically justified cases, repeat demonstration tests may be carried out by customer's representative in volume of those tests, for which discrepancies in machines with established requirements were found, which could have affected appearance of non conformity, for which tests were not carried out.

2.3.11 Machines, returned by customer's representative after rectification of defects (separating defective articles), repeat inspection by manufacturer, repeat demonstration tests and QCD acceptance, are repeatedly demonstrated to customer's representative with inscription << Secondary>>, in case of positive results.

Notification is attached with act of analysis and rectification of defects and their causes. Secondary notification is signed by chief of manufacturing unit (chief engineer) and QCD head.

Repeat tests are carried out in full extent of approval test.

2.3.12 In case if machine did not pass repeat tests, it is rejected and segregated from serviceable ones.

2.3.13 Tests and acceptance of machines are terminated:

1) if units of machines, demonstrated twice for acceptance, did not withstand tests;

2) if units of machines were demonstrated one after another for preliminary tests and finally rejected on results of each of two subsequent tests.

2.3.14 Decision regarding resumption of tests and acceptance, decision about using finally rejected machines is taken by chief of manufacturing unit and customer's representative.

In this case, reasons behind termination of tests and acceptance and measures taken by manufacturer for rectification of defects are informed to the buyer and concerned ministry (department) in specified manner.

2.3.15 Machines are considered as accepted if the passed tests, completed and packed in compliance with requirements of present specifications, sealed by QCD and customer's representative and having furnished documents certifying their acceptance. Accepted machines are subject to delivery or submission for safe storage to the manufacturer.

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- 2.4 Periodical tests
- 2.4.1 Periodical tests are carried out for:
- 1) periodical inspection of quality of machines;

2) inspection of consistency of technological process between period of previous and next tests;

3) confirmation of possibility of continuation of manufacturing of machines as per effective design and technological documents and their acceptance.

2.4.2 Periodical tests are carried out together with periodical tests of gun mount AK-630M.

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3.TEST METHODS

3.1 Inspection of weight

3.1.1 Inspection of machine weight is carried out by weighing them on platform type weighing machines or other weighing machines with error not more than 0.02 kgf.

3.2 Inspection of handle load.

3.2.1 Inspection is conducted in following sequence:

1) Machine is mounted and fastened on fixture AO-18P.000;

2) tray AO-18P.050 is joined to fixture;

3) belt consisting 6 new links is hooked and loaded in machine so that sprocket wings of machine grips lugs of first link;

4) tray of machine is loaded with 5 gauge-dummy cartridge;

5) dynamometer is connected to the handle , by rotating it clock wise loading of cartridge belt and checking of load is done on dynamometer.

By rotating handle by dynamometer anti clock wise, un loading of cartridge belt and inspection of load on dynamometer reading are carried out.

3.3 Inspection of designated service life

3.3.1 Designated service life of machine is determined by loading and un loading cartridge belt with equal number of cartridges in extent, mentioned in point 3 of the table. Service life of component is considered been exhausted if noticing cracks, visible to naked eyes and breakage.

Insignificant ruptures or cracks in case of their appearance on separate components and assembly units are permissible, if they do not affect reliability of machines and do not bring about breaks.

3.4 Inspection of fail safe operation

3.4.1 Inspection of failure safety is carried out during loading and un loading of cartridge belts. Delay caused by defect of machine is not permissible.

Inspection method- visual.

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3.5 Inspection of materials and blanks.

3.5.1 Incoming inspection of materials and blanks is carried out in compliance with GOST 24297-87.

Incoming inspection is carried out by external inspection and by checking certificates of supplier, signed by QCD and customer's representative (in his presence).

3.5.2 All materials used for manufacturing components and assembly units of machine are tested before induction to production by manufacturer's laboratories in compliance with inspection norms, approved by chief engineer and agreed up on with customer's representative.

3.6 Inspection of hardness of components.

3.6.1 Components and assembly units having undergone heat treatment are checked for hardness as per GOST 9012-59 and GOST 9013-59.

3.6.2 Inspection is carried out on devices for checking hardness of metals and alloys as per Rockwell method GOST 23677-79.

Reading of device when determining hardness is counted from medium limit.

If device operates on upper limit, reading is decreased by one unit, if device operates on lower limit, reading is increased by unit.

QCD carries out inspection of hardness by total inspection, barring components that are subjected to selective inspection as per drawing requirement.

Customer's representative conducts inspection for hardness selectively on device especially issued to him.

In addition to these inspections quality of heat treatment is checked in manufacturer's laboratory.

Inspection is carried out as per inspection schedule, approved by customer's representative.

Components and assembly units, not meeting requirements of hardness are returned by customer's representative to QCD for revision.

Revision is done on all components and assembly units of this nomenclature. Act is furnished for results of revision.

Repeat inspection is carried out by customer's representative on his discretion.

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In case if heat treatment of components and assembly units is carried out in batches, then components and assembly units of this very batch are subjected to revision. Components and assembly units pertaining to other batches may be revised selectively.

3.7 Inspection of coating.

Sign and Date

Inspection of coating quality is carried out as per GOST 9.301-86, GOST 9.302-88, GOST 9.407-84.

3.8 Inspection of assembled machine

Inspection is carried out in following sequence:

1) Machine is mounted and fastened on fixture AO-18P;

2) tray AO-18P.050 is joined to fixture;

3) belt consisting 6 new links is hooked and loaded in machine so that sprocket wings of machine grips lugs of first link;

4) tray of machine is loaded with 5 gauge-dummy cartridge;

5) loading and un loading of cartridge belt is carried out by rotating handle clock wise and anti clock wise.

6) Inspection (visual) for fail safe operation of machine is done.

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4. TEST METHODS

4.1 General conditions during tests.

4.1.1 All types of tests of machine at manufacturing unit are carried out under natural climatic conditions.

4.1.2 Machine is operated during tests as per section 6 of present specifications.

4.2 Method for demonstration tests and QCD acceptance.

4.2.1 Demonstration tests include:

1) inspection of kit and accompanying documents. Follow point 1.12 of present specifications during inspection.

2) visual inspection of machine . During inspection follow points 1.9, 1.10, 1.13 of present specifications;

3) measurement inspection of assembly units as per requirements of drawing.

4) inspection of coating quality. During inspection follow point 3.7 of present specifications;

5) inspection of load on handle during loading and un loading. During inspection follow point 1.1.1 of table of present specifications;

6) inspection of failure safe operation of machine. During inspection follow point 1.11 of present specifications.

After loading (un loading), brightness, knocks on operating surfaces of machine as per test specimen, not affecting reliability of operation is permissible.

List of equipment used during tests are given in annexure B.

4.2.2 Inspection of preservation and packing include checking of requirements as per point 1.14 of present specifications.

4.3 Method of approval tests and acceptance by manufacturer's representative.

4.3.1 Approval tests include:

1) inspection of kit and accompanying documents as per 1.12 of present specifications.

2) visual inspection of machines. During inspection follow points 1.9, 1.10, 1.13 of present specifications.

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3) inspection of load on handle during loading and unloading. During inspection follow point 1.11 of present specifications.

After loading (un loading), brightness, knocks on operating surfaces of machine as per test specimen, not affecting reliability of operation is permissible.

List of equipment used during tests are given in annexure B.

4.3.2 Inspection of preservation and packing include checking of requirements of point

1.14 of present specifications.

Inspection is carried out together with QCD.

4.4 Method of periodical tests.

4.4.1 Periodical tests include loading to extent 18000 and un loading to extent 2000 cartridges.

While evaluating the results of tests follow points 3.3, 3.4 of present specifications.

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5.TRANSPORTATION AND STORAGE

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5.1 Machines, packed in boxes may be transported by any mode of transport, provided the boxes are firmly fastened against free movement and protected from atmospheric moistures and splashes.

5.2 Transport used for loading should be dry and clean.

5.3 Falling of boxes during loading is not permissible.

If packing box falls during loading, then visual inspection of look of packing box is done. If required, inspection of condition of machines is carried out.

5.4 Packed machines accepted by customer's representative are delivered to the consignee or sent to store for ready stock for safe custody until time of delivery.

5.5 Machines are stored on racks, on supports or in rows in manufacturer's packing in heated or non heated premises.

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6. OPERATING INSTRUCTIONS

6.1 Before beginning operation with machine for loading belts, it is necessary to study <<Technical description and operating instruction>> so to follow operating rules.

6.2 During operation of belt loading machine, it is necessary to follow for its cleanliness and cleaning and lubrication of its pinions, shaft and link guides , cartridges in due time. Use lubricant MS-70 GOST 9762-76 for lubrication.

For washing components and assembly units use:

1) fuel T-1, T-2, TS-1 GOST 10227-86;

2) diesel oil GOST 305-82.

6.3 Carry out periodical inspection, cleaning and lubrication not less than once in a week.6.4 During periodical inspections, removal of nicks, burrs and deposits of metal are polished with flat file and emery paper.

6.5 Once the service life is exhausted, it is permissible to continue operation of machines, used for technological purpose by manufacturer after its flaw detection and repair.

Value of additional service life is set after inspection, flaw detection and repair of machines in manufacturer's shop, by team comprising representative of manufacturing shop, QCD and customer's representative by inviting representative from design office, if necessary.

This data is entered in certificate of machine.

Entry is attested by members of the team.

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Annexure A

LIST

of components , which are allowed to straighten after heat treatment.

Designation	Nomenclature	Remarks
AO-18N.001	Base plate	
AO-18N.006	Shaft	
AO-18N.008	Locator	

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Annexure B

LIST

of equipment, used during acceptance of machine

No.	Nomenclature	Designation of drawing or standard	Remarks
1	Fixture	AO-18P.000	
2	Dynamometer DPU-0.2-1-UkhL2	GOST 13837-79	
3	Weighing machine	-	Any type with error not more than 20 gm.



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CERTIFICATE

AO-18N.000-01 PS

BELT LOADING MACHINE AO-18N.000

for article-----

CERTIFICATE

AO-18N.000-01 PS

CONTENT			
	Page		
1. General instructions	3		
2. General information	3		
3. Basic technical details	4		
4.Supply kit	5		
5. Acceptance certificate	6		
6.Service life and shelf life	7		
7. Preservation certificate	8		
8. Information regarding preservation (packing) and de preservation.	9		
9. Operation of belt loading machine	11		
10. Repair work and adjustments carried out	14		

1. GENERAL INSTRUCTIONS

1.1 All entries in certificate are made only with inks distinctively and accurately. Erasing, blotting and incomplete corrections are not permissible.

2. GENERAL INFORMATION

Belt loading machine AO-18N.000.

Date of manufacturing-----

Factory No. -----

3. BASIC TECHNICAL DETAILS

Nomenclature of parameter	Characteristics
1. Weight	6.5 kg
2. Productivity	2000 nos./hour
3. Load on handle during loading and unloading	20 kgf

4. SUPPLY KIT

S/No.	Designation	Nomenclature	Qty.	Remarks
1	AO-18P2.010	Special breech block	1	
2	AO-18P2.049	Ring	1	
3	AO-18P2.010 PS	Certificate	1	
4	Sb.13	Bag	1	

4. SUPPLY KIT

Designation Nomenclature Qty		Qty.	Factory	Remarks
			No.	
AO-18N.000	Belt loading machine	1		
	Spare pa	rts	1	
AO-18N.007	Кеу	2	-	
	Tool and acce	essories	5	
	Screwdriver 7810-09283A1	1	-	
	Chem.phos.Oil.			
	GOST 17199-88			
	Drift bolt 4 x 100	1	-	
	Wood screw 1.5 x 40	6	-	Used for fastening
	GOST 1145-80			machine on table
	Packing	g	l	
Ya-AO-18N.000	Box	1		

5. ACCEPTANCE CERTIFICATE Belt loading machine AO-18N.000 Factory No.----- is in compliance with technical documents and accepted as serviceable for operation. Stamp -----(Signature) -----(Date)

6. INFORMATION ON SERVICE LIFE AND SHELF LIFE

6.1 Total designated service life of machine is 20000 cycles; out of which:

for loading- 18000 cycles;

for un loading- 2000 cycles.

6.2 Shelf life of machine in manufacturer's packing is 7 years.

6.3 Above mentioned service life and shelf life for machine is applicable if the customer

follows requirements, mentioned in operating instructions.

7. PRESERVATION CERTIFICATE

Belt loading machine AO-18N.000 Factory No.----- was

subjected to ------ preservation as per requirements, provided in operating

instructions.

Date of preservation------

Period of preservation-----

Preservation carried out by------ (Signature)

Stamp

Article accepted after packing by-----(signature)

8.INFORMATION ABOUT PRESERVATION (PACKING) AND DE PRESERVATION Date Nomenclature of operation (job) Effective period Name and sign of operator

Belt loading machine is wrapped in anti corrosion paper MBGI-8- 40 GOST 16295-82, packed: 1) in wax paper BP-3.35 GOST 9569-79	1 year	
2) in wax paper BP-3-35 GOST 9569-79 and casing made of polyethylene sheet Ms GOST 10354-82	7 years	
Machine is preserved with lubricant MS-70 GOST 9762-76, packed in wax paper BP-3-35 GOST 9569-79 and casing made of polyethylene sheet as per GOST 10354-82. packets with silica gel KSMG GOST 3956-76 are put in casing .	7 years	

Continu	ed		
Date	Nomenclature of operation (job)	Effective period	Name and sign of operator
	Belt loading machine is wrapped in anti corrosion paper MBGI-8- 40 GOST 16295-82, packed: 1) in wax paper BP-3.35 GOST 9569-79	1 year	
	2) in wax paper BP-3-35 GOST 9569-79 and casing made of polyethylene sheet Ms GOST 10354-82	7 years	
	Machine is preserved with lubricant MS-70 GOST 9762-76, packed in wax paper BP-3-35 GOST 9569-79 and casing made of polyethylene sheet as per GOST 10354-82. packets with silica gel KSMG GOST 3956-76 are put in casing .	7 years	

9. OPERATING BELT LOADING MACHINE					
Date Place of operation		No.		Name and sign of	
		of loading since operation	of un loading since operation		authorized person

Contin	Continued				
Date	Place of operation		No. Remarks		Name and sign of
		of loading since operation	of un loading since operation		authorized person

Contin	Continued				
Date	Place of operation		No. Remarks		Name and sign of
		of loading since operation	of un loading since operation		authorized person

Date	Nomenclature of operation	Reason for carrying out operation	Unit that carried out operation	Name and sign of person having carried out repair work.