ABETTER VIEW OF THE WORLD

Supplier Manual

Meopta - optika, s.r.o.





Obsah

		r Manual - optika, s.r.o.	
1	•	rroduction	
_		NTACT PERSONS	
2			
3	50	PPLIER QUALITY MANAGEMENT PROCESS	
	3.1	CAPACITY PLANNING	4
	3.2	QUALITY OF SUPPLY	4
	3.3	QULITY DATA MAINTENANCE	4
	3.4	PARTS MARKING – BACKWARDS TRACEABILITY	5
	3.5	ACCEPTANCE OF CHANGES	
	3.6	MEASURING AND TESTING EQUIPMENT CALIBRATION	5
	3.7	INTERNAL AUDITS	
	3.8	SUBSUPPLIER QUALIFICATION	6
4		NFIRMATION OF PURCHASE ORDER AND FORECAST	
5		SPONSIBILITY FOR NONCONFORMITIES	
6		OPERATION ON WARRANTY CLAIMS	
7	RE	QUESTED DOCUMENTS	7
	7.1	DOCUMENTS REQUIRED BY EACH DELIVERY	7
	7.2	DOKUMENTS REQUIRED WITH DELIVERY OF QUALIFICATION SAMPLES	
	7.3	ADDITIONAL DOCUMENTS	
8	CO	MPLIANCE	8
	8.1	ENVIRONMENTAL REQUIREMENTS	Q
	8.2	CONFLICT MINERALS	
	8.3	COUNTERFEIT PARTS	
9		CKAGING	
	9.1	BASIC PACKAGING REQUIREMENTS	
	9.2	DELIVERY NOTE	
		MPLES, IDENTIFICATION, QALIFICATION	10
10	10		
	10.1	SAMPLE IDENTIFICATION must contain	10
	10.2	MANDATORY DOCUMENTS for Sample qualification	10
	10.3	QUALIFICATION STATEMENT	10
11		PPLIER AUDIT	
12	AT	ACHMENTS AND ABBREVIATIONS	12
	12.1	Abbreviations	12
	12.2	Link to the General Terms and Conditions of Meopta which are part of this Supplier Manual:	
	12.3	List of attachments	



1 INTRODUCTION

The Instruction "Supplier manual Meopta - optika, s.r.o." provides basic requirements for supply for the suppliers of company Meopta Optika s.r.o. and defines processes required for quality assurance of supplied goods according to the ISO 9001:2015 a AS9100D. The requirements provided in this instruction are part of every Purchase order and Purchase contract of Meopta Optika s.r.o. (further "Meopta")

The responsibility for the quality of supplied goods and services is always born solely at the Supplier of Meopta. The supplier is responsible for application of appropriate quality management system which can be audited by Meopta by the agreed supplier audit.

The suppliers of Meopta guarantee that the requirements provided in this document are adequately deployed to their sub-suppliers.

In case of supplies for the defense sector the supplier will be required to follow the standards ČOS 051622 (AQAP 2110).

In case of supplies for the Aircraft Industry the supplier will be required to follow the standards AS9100D.

In case of supplies for the Aerospace Industry the supplier will be required to follow the standards

ESCC-E-ST-10-03, ECSS-Q-70-13A, ESCC 22900)

This Instruction is supplementary to the General delivery terms and conditions defined by document "GENERAL TERMS AND CONDITIONS OF PURCHSE GOODS AND SERVICES" which is attached to this document. (further referred as T&Cs)

2 CONTACT PERSONS

Definition of contact persons is required by Meopta during the phase of Requesting quotation. The supplier is required to inform Meopta in case of later changes.

- Account manager responsible for sales conditions, prices, guarantees fulfilment of agreed conditions related to the supply to Meopta.
- Sales department (logistics) responsible for managing the operational deliveries such as open orders, confirmations, invoicing, credit notes, rejection proces.
- Quality department responsible for quality management process and for the outcoming quality of the supplier.
- Supplier quality assurance responsible for supplier quality management and improvement process.



3 SUPPLIER QUALITY MANAGEMENT PROCESS

The supplier is obliged to manage his internal manufacturing and quality process to obtain the quality requirements of the supplied product or service to Meopta.

Meopta requires the supplier to implement the Quality Management standard ISO 9001. In case that the supplier is not ISO 9001 certified he is obliged to proof that all his internal processes are running according to his defined Quality Management system.

This section contains the overview of requirements that are requested to be implemented managed, documented, and validated by the supplier.

3.1 CAPACITY PLANNING

The supplier of Meopta is responsible to create sufficient capacities to fulfill the requirements provided by Purchase orders or forecasts provided by Meopta.

3.2 QUALITY OF SUPPLY

The supplier is obliged to deliver goods and services in quality and terms provided by the purchase agreement with Meopta. The requirements see attachment no. 6 (instruction is related to the definition of the precise dimensions of parts with regard to surface treatment) are discussed and explained with suppliers of mechanical parts without surface treatment (surface treatment is performed by Meopta), within the tender. The supplier is obliged to measure his own quality performance in terms of On time delivery and Technical quality and cooperate with Meopta on its evaluation.

The suppliers of Meopta are evaluated on Monthly basis on the On time delivery and Technical quality performance. Selected suppliers can be receiving the Supplier Scorecards containing their performance evaluation and request for improvements if needed. The suppliers are responsible to act upon the communicated requests.

3.3 QUALITY DATA MAINTENANCE

The supplier is responsible for maintenance, follow up and archiving of the quality system data. Unless otherwise specified in the purchase agreement or purchase order the standard archiving period is 5 years since the date of issuing of the document. If the supplier decides to discard the documentation after this time, he is obliged to offer it to Meopta for further archiving.

Based upon the request of Meopta, the supplier will enable review of the quality documents by Meopta. The supplier will enable access for the Meopta personnel to perform supplier audits inside his manufacturing premises where the Meopta products are being manufactured.



3.4 PARTS MARKING – BACKWARDS TRACEABILITY

Materials, Parts, semi-finished products and final products must be marked to ensure identification and prevent confusion. The marking must enable backwards traceability if requested by Meopta. In the case of a request for a number series (e.g. S/N), the supplier is obliged to request which numbers to mark on the pieces (e.g. a part of the number series is assigned to him).

3.5 ACCEPTANCE OF CHANGES

Meopta's supplier is obliged to deliver parts according to the documentation, material specifications, in approved manufacturing processes and plants approved by Meopta. In the case of approved samples, then also in accordance with these samples (see chapter 10).

Delivery deviating from the above-mentioned conditions needs to be formally approved by Meopta whereas the supplier is responsible to request such approval immediately after finding of any such deviation. Unless otherwise agreed the approval is always limited to certain quantity of delivered parts or certain delivery period unless otherwise agreed by Meopta.

The supplier is responsible to inform about any relevant changes in deliveries and especially in following cases:

- a. Change of material supplier
- b. Change of sub supplier of any manufacturing processes
- c. Change of manufacturing location
- d. Change of manufacturing process or manufacturing sequences.
- e. Change of testing HW or SW.
- f. Change of CNC programs
- g. Change of Machine/ assembly tooling/ fixtures
- h. Consolidation, split or re-organization of manufacturing steps.
- i. Interruption of the manufacturing process longer than period of 24 months.
- j. Correction of nonconformance's.

Meopta is entitled to request samples prior to the approval of above changes. Sample is considered to be the first serially manufactured product made out of materials, with technologies, in process, by tools and machines and according to documentation considered for serial production of the part.

3.6 MEASURING AND TESTING EQUIPMENT CALIBRATION

The supplier is required to use only calibrated and controlled measuring and testing equipment. All measuring gigs, including electric and pneumatic devices, fixed measuring devices must be regularly calibrated according to the implemented plan. Frequency of calibration must be



determined according to the type and application of the measuring jig or device. The calibration must be documented, and the measurement jig or device must be properly marked with next calibration date. Un-calibrated jigs and devices are prohibited for use!

3.7 INTERNAL AUDITS

The supplier is obliged to perform internal audits of his Quality management system.

3.8 SUBSUPPLIER QUALIFICATION

Same standards applied by Meopta for cooperation with the Supplier must be applied by the Supplier within his sub supplier's management. The supplier is required to deploy the conditions stated in this document to his sub suppliers. In any case the supplier of Meopta is fully responsible for the final delivery and quality of the supplied product or service.

4 CONFIRMATION OF PURCHASE ORDER AND FORECAST

The supplier is required to confirm purchase order of Meopta within two working days from receipt. The supplier is also required to confirm within to working days from receipt any changes in delivery dates or quantities of already confirmed purchase orders.

On monthly basis, usually in the first week of the month, the selected suppliers are receiving the forecast of planned demand of Meopta towards the supplier. The supplier is requested to confirm in 5 calendar days his ability to supply the planned requirement in dates and quantities required by the forecast or to immediately open negotiation on the future deliveries.

Based upon mutual agreement the supplier may be receiving open order lists on weekly or biweekly basis and communicate purchase order confirmations based upon this document.

5 RESPONSIBILITY FOR NONCONFORMITIES

Supplier delivers goods under warranty conditions according to the T&Cs of Meopta unless otherwise agreed in other documents. The supplier holds full responsibility for defects on the final product caused by defect or nonconformity on his delivered product or service. In case of finding of nonconformance on the delivered product or service all demonstrable cost related to the elimination of such nonconformance will be charged to the supplier.

All delivered products or services must comply with all applicable regulations in the Czech republic or country o use.



THE SUPPLIER OF MEOPTA TAKES HIS FULL RESPONSIBILITY FOR QUALITY AND SAFETY OF DELIVERED GOODS OR SERVICES.

6 COOPERATION ON WARRANTY CLAIMS

Meopta will inform supplier without any delay in case of nonconformity finding. The supplier is responsible to replace goods, repair or take other measures according to the instruction of Meopta. The supplier is also responsible to take measures to avoid repeating of the identical nonconformity.

The supplier is requested do provide Failure analysis report regarding the root cause and preventive and corrective action plan for the nonconformance within 2 working days from the receipt of the claim or in the period agreed with the Operational purchasing officer.

The supplier may be requested to fill the 8D REPORT in case of serious nonconformance. Template of the 8D report is attached to this document. Supplier is obliged to fill all applicable fields. The supplier will fill the steps (D1-D3) within 2 working days, steps (D4 and D5) within next 14 days and finalize the report within 30 days after receipt of the request unless otherwise agreed.

When sending replacements or repairs from a complaint, the supplier is obliged to visibly mark these pieces with the non-conformity number both on the packaging and on the delivery note or invoice. Otherwise, Meopta may return unmarked parts to the supplier and require their identification and/or payment of additional costs incurred.

7 REQUESTED DOCUMENTS

7.1 DOCUMENTS REQUIRED BY EACH DELIVERY

The supplier is requested supply following documents with every delivery:

- a. Material Certificate
- b. Delivery note (Content of the delivery note is prescribed in section 9.2)
- c. Additional documents requested with delivery and noted on the particular purchase order (ATP Protocol, specific test result, special certificates)
- d. Additional documents related to the specifics of the supplied goods or services (Safety Data Sheet, Legislation compliance documents ROHS, REACH, SVHC, TSCA (for US market), content of packaging materials according to ČSN EN 13427)

Failure to deliver any of the required documents is considered as incomplete delivery and such delivery of goods can be returned to the supplier as nonconforming.



7.2 DOCUMENTS REQUIRED WITH DELIVERY OF QUALIFICATION SAMPLES

The supplier is requested supply following documents with delivery of qualification samples:

- e. PSW Part Submission Warrant filled in the Meopta template (enclosed to this document and distributed to supplier with every purchase order for qualification samples)
- f. Control plan in free format chosen by supplier (sample template enclosed to this document)
- g. Material Certificate
- h. Delivery note (Content of the delivery note is prescribed in section 9.2)
- i. Additional documents requested with delivery and noted on the particular purchase order (ATP Protocol, specific test result, special certificates)
- j. Additional documents related to the specifics of the supplied goods or services (Safety Data Sheet, Legislation compliance documents ROHS, REACH, SVHC, TSCA (for US market), content of packaging materials according to ČSN EN 13427)

Failure to deliver any of the required documents is considered as incomplete delivery and such delivery of goods can be returned to the supplier as nonconforming. Regarding first purchasing order or first order after drawing revision/iteration the actual drawing and ATP protocol is sent to the supplier by operational officer. The supplier must send ATP protocol to Meopta with each delivery.

7.3 ADDITIONAL DOCUMENTS

The supplier may be requested to provide additional documents such as ISO Certificates and others.

8 COMPLIANCE

8.1 ENVIRONMENTAL REQUIREMENTS

The suppliers are responsible to follow the regulation Act n. 348/2004 Sb (as amended) ad supply all products safe for human use.

The suppliers, forwarders or visitors entering the premises of Meopta are required to follow all legal as well as internal environmental rules and regulations and are responsible for any environmental damage caused by their misacting against these rules.

8.2 CONFLICT MINERALS

The suppliers will be requested to report according to the Conflict Minerals regulation.



8.3 COUNTERFEIT PARTS

Supplier shall only purchase products/components to be delivered to Meopta directly from the Original Component Manufacturer (OCM)/Original Equipment Manufacturer (OEM), or through an OCM/OEM authorized distributor chain. Parts shall not be acquired from independent distributors or brokers unless approved in advance in writing by Meopta. If Supplier becomes aware or suspects that it has furnished Counterfeit Parts or suspected Counterfeit Parts, Supplier shall immediately replace the Counterfeit Parts or suspected Counterfeit Parts with parts acceptable to Meopta.

9 PACKAGING

Unless otherwise specified, the supplier is required to use the requirements for packing mechanical or optical items described in Directive 3.6-8 Packaging Requirements for Mechanical Items and Directive 3.6-9 Packaging Requirements for Optical Items.

9.1 BASIC PACKAGING REQUIREMENTS

Every Part must be marked with Meopta part number (further Meopta PN) to enable immediate Identification of the Part.

Packages with more than one Item must be marked with Meopta PN and Meopta Purchase order number (further Meopta PO). In case of split packages, every partial packaging or separated Item must be marked with the Meopta PN.

Meopta prefers to pack parts separately by particular Meopta PO and to avoid consolidation of more Meopta POs into one packing.

Items prone to damage are preferred to be packed separately if possible.

ESD Items must be marked with pictogram on the packing and packed in separate transport packing for further manipulation after receipt.

In case that the delivered Item consists out of more components such information must be marked on the packing and noted in the Delivery Note.

9.2 DELIVERY NOTE

The delivery note must be placed inside the packaging or passed along with the package. The Delivery note must contain following minimum information: date of issue, Purchase order number, Part number (Meopta P/N), Part Description, delivered qty, number of packings.

In case of different Items suppled in different packings, please provide the Identification information on the delivery note.



10 SAMPLES, IDENTIFICATION, QALIFICATION

The supplier is requested to mark the delivered samples. The marking must be sustainably connected with the delivered sample to avoid loss or damage. Samples produced on tooling manufacturing simultaneously more items in one sequence must be marked including sequence No. In case that sample consists out of more components all components must be marked.

10.1 SAMPLE IDENTIFICATION must contain.

- a) Supplier name
- b) Meopta Item Number and description
- c) Marking "Sample"
- d) Quantity
- e) Other information (color, finishing, purpose of Samples, etc.)
- f) In case that samples are delivered in lager qty batch, mark the complete batch.

10.2 MANDATORY DOCUMENTS for Sample qualification

- a. PSW filled header by Supplier
- b. Measurement protocol. It is important to perform complete measurement according to the technical documentation and provide full protocol Identifying the measured samples (ex. ATP protocol).
- c. Material Certificate (content, specifications)
- d. Drawing marked with measured dimensions in the measurement protocol.
- e. Functional tests as specified in the technical documentation for the part.
- f. Control plan (can be according to suppliers template) with minimum content: measured dimension or parameter, type of measurement guage, scope and frequency of measurement.

The supplier is required to send all required documents for the Sample qualification otherwise the qualification will not be performed.

10.3 QUALIFICATION STATEMENT

Meopta will issue final PSW with the conclusion on the APPROVAL/DISSAPROVAL of the qualification Samples. Approval of the qualification samples does not relieve the supplier from the responsibility to deliver future deliveries in the required quality.

11 SUPPLIER AUDIT

In order to qualify the supplier process readiness, the qualified Auditors of Meopta may perform supplier audit at the supplier premises.

During the supplier audit the supplier is obliged to provide following support:



- Provide information regarding the supplier organization, management, quality management and assurance, safety and Environmental care.
- Answer all questions related to the quality management and assurance asked during the Audit.
- Enable access of Meopta auditors to his premises to verify the quality measures in place.

The supplier Audit timing must be always announced by Meopta in sufficient advance. The Audit result is communicated in final Audit report with the supplier. The supplier is committing to prepare improvement plans for findings made during the Audit.



12 ATACHMENTS AND ABBREVIATIONS

12.1 Abbreviations

- **C.O.C.** (Confirmation of compliance) written statement of the Supplier that the goods are compliant to requirements of Meopta.
- **ATP protocol** form containing required measurements by Meopta and the real measurement results by the supplier.
- FAI (First Article Inspection) process for qualification of samples.
- PSW (Part Submission Warrant) form warranting the qualification of delivered parts.
- **ČOS 051622 (AQAP 2110)** NATO requirement to verify quality during development, design and manufacturing.

12.2 Link to the General Terms and Conditions of Meopta which are part of this Supplier Manual:

- Czech version http://www.meopta.com/cz/ke-stazeni/ Základní dokumenty
- English version http://www.meopta.com/en/download/ General

12.3 List of attachments

- Attachment 1 PSW (form warranting the qualification of delivered parts. can be provided in MS Excel based upon request)
- Attachment 2 PSW for Optical parts (form warranting the qualification of delivered parts. can be provided in MS Excel based upon request)
- Attachment 3 8D report
- Attachment 4 Control plan Czech version
- Attachment 5 Control plan English version
- Attachment 6 Deliveries of mechanical items without surface treatment



Attachment 1 – PSW (form warranting the qualification of delivered parts)

Příloha č. S.3.5-9 k.S.3.5/Supplement no. S.3.5-9 to S.3.5 Násev/Title: Kryd list ke kvalifikaci nakupovaných dílů Verze/Version: 1

Meopta – optika, s.r.o.

KRY	CÍ LIST KE KVALIFIK	ACI NAKUPOVANÝCH DÍLŮ					
	(PART SUBMI	SSION WARRANT)					
Název dílu/Part name:		Důvod kvalifikace/Qualification reason					
Číslo dílu/Part number:		☐ Prvotní vzorováni/Initial submission					
Revize/Revision:		☐ Změna specifikaci/Engineering change(s)					
Iterace/Iteration:		☐ Změna výrobních podmínek/Change of manufacturing conditions					
Dodavatel / Supplier:		☐ Nové (změněně) misto výroby/New (changed) manufacturing location					
Kontakt/Contact:		☐ Dlouhá doba bez výroby (> 2roky)/Tooling inactive (>2 years)					
PŘEDLOŽENÉ VÝSLEDKY,	/SUBMISSION RESULTS	☐ Náprava nesrovnalosti/Correction of Discrepancy ☐ Jiné/Other					
Výsledky k/The results for	☐ rozměrové měření/dimensk ☐ materiál a funkční testy/mat ☐ kritéria vzhledu/appearance ☐ soubor statistických dat/sta	naterial and functional tests ce criteria					
Tyto výsledky splňují všec	hny požadavky konstrukční do	kumentace/These result meets all design record requirements:					
☐ Ano/Yes		□ Ne/No					
		ny za sériových podmínek a na sériových nástrojích./Supplier confi anufactured under serial equipment and serial terms.	rms,				
Name:	Date:	Signature:					
		JZENÍ SQA /ALUATION)					
	JUA C						
PPAP dokumentace/P	DAD decumentation	□ Schváleno/Approved	_				
FFAF dokumentace/F	PAP documentation	☐ Dočasně schváleno/Conditionally approved	_				
Poznámky/Notes		□ Zamitnuto/Rejected	-				
, seriamily risecs							
Name:	Date:	Signature:					
		JZENÍ OTK	T				
	(INCOMING INSP	ECTION EVALUATION)					
0.00		☐ Schváleno/Approved					
FA	A	☐ Dočasně schváleno/Conditionally approved					
		□ Zamitnuto/Rejected					
Poznámky/Notes			-				
Name:	Date:	Signature:					



Attachment 2 – PSW for Optical parts (form warranting the qualification of delivered parts)

Příloho č. S 3.5-10 k S 3.5/Supplement no. S 3.5-10 to S 3.5 Název/Title: Knyd list ke kvalifikaci nakupovaných dílů Verna Marrion: 1

Meopta – optika, s.r.o.

verzej versione z								
KRY	CÍ LIST KE KVALIFII (PART SUBM							
Název dílu/Part name:			lifikace/Qualification reason					
Číslo dílu/Part number:		☐ Prvotní vzorováni/Initial submission						
Revize/Revision:		□ Změna s	pecifikaci/Engineering change(s)					
Iterace/Iteration:		□ Změna v	☐ Změna výrobních podmínek/Change of manufacturing conditions					
Dodavatel / Supplier:		∏ Nové (zn	☐ Nové (změněné) místo výroby/New (changed) manufacturing location					
Kontakt/Contact:		∏ Dlouhá d	doba bez výroby (> 2roky)/Tooling inactive (>2 years)					
PŘEDLOŽENÉ VÝSLEDKY	//SUBMISSION RESULTS	∏ Náprava ∏ Jiné/Oth	nesrovnalesti/Correction of Discrepancy ser					
Výsledky k/The results for	□ rozměrové měření/dímens □ materiál a funkční testy/ma □ kritéria vzhledu/appearanc □ soubor statistických dat/st	aterial and function te criteria tatistical process pa	terial and functional tests criteria					
Tyto výsledky splňují vše	chny požadavky konstrukční do	okumentace/The	ese result meets all design record requirements:					
☐ Ano/Yes		□ Ne/No						
		and serial terms.	k a na sériových nástrojích,/Supplier confirms, that the figured Pro optické díly požadujeme 100% proměření 10 vzorků. For ocol for 10 samples.					
Name:	Date:		Signature:					
		UZENÍ SQ VALUATIO						
		100 SHEWS	no/Approved					
PPAP dokumentace/	PPAP documentation	☐ Dočasni	☐ Dočasně schváleno/Conditionally approved					
		☐ Zamitn	uto/Rejected					
Poznámky/Notes								
Name:	Date:		Signature:					
	POSO	UZENÍ OT	K					
	(INCOMING INS							
		☐ Schvále	no/Approved					
F	AI	☐ Dočasni	☐ Dočasně schváleno/Conditionally approved					
		☐ Zamitnuto/Rejected						
Poznámky/Notes		10.						
Name:	Date:		Signature:					
			I					



Attachment 3 - 8D report

8D Report



Název 8D reportu /	Title of 8D repo	ort:		D	atum zahájeni / Start date
Informace o výrobki	u / Product Info	rmation			
Dodavatel/ Supplie	T:				1
Č položky/ Part numbe		Revize/ Revision:		Jméno položi	ry/ Part name:
Zdroj neshody / NC's i Reklamační protokol č				Kusů/pcs:	
D1 – Členové tým	u / Team Memb	pers			
Jméno/ Name	Kontakt(telefon) / telephone num.	Kontakt(email)/ e-mail	Pozice v ty in team	ýmu/ position	Společnost / company
		50 47 51			
D2 – Stanovení a	popis problému	/ Problem Identification	and Descr	iption	1
D3 – Okamžitá op	atření / Interim	Containment Action			Datum zavedení / Implementation Date
D4 – Hlavní přičin	aa / Root Cause	<u> </u>			Podíl na problému (%) /% Contribution
D5 – Návrh náprav	vného opatření	/ Corrective Actions Dev	elopment		
D6 – Zavedená ná	pravná opatření	/ Implemented Correction	ve Actions		Datum zavedení a číslo NO / Implementation Date and CA number
D7 – Preventivní o	opatření / Action	ns to Prevent Recurrence			Datum zavedení a číslo PO / Implementation Date and PA number
D8 – uzavření 8D	/8D closing				200
Odpovědný kvality Responsible quality	manažer/	Datum uzavření/ Date o	of closing:	Vyplnil/ W	ritten by:

F 1.6-2-1 Strana / Page: 1 / 1



Attachment 4 - Control plan – Czech version

	e opta			KON	TROLNÍ	PLÁN						
o dílu:		Re vize:		lterace:	Kontakt/Schválil:				Datum (První vydár	i)	Datum (Poslední akt	ualizace)
tázev dítulpopis:					Složení týmu:				Schválení konstrukce zákazní kaldatum (pokud se vyžaduje)			
									7 2 30			
avatel/z	avod:	Kód dodavate	le:		Datum sch välleni do	odavatele:			zákazníka/datum (pokud se vyžaduje)			
Dil	Näzev	Stroje, zańzeni.		Zria ky	Třidy						Plân reakce	
islo erace	Popis činnosti	přípravky, nástroj pro výrobu	Č.	Výrobe k	Proces	zvláštních znaků	Výrobek/ Proces/	Měřicí technika	Vzorek Kontrolni metoda			
1/1							Specifikace	tecrytika	Rozsah	Četnost	metoua	
- 2			-0-7							S.		
			8 8						8			
- 5			8 2		2	-	2		8	8	9	
- 33			0. 3		3		3		0.	6		
- 0		2	0.0				0		6)			
-			-			-			6.		1	
93			8 2						5).			
		6	200			-			E.			



Attachment 5 - Control plan – English version

me opta con					NTROL P	LAN							
art Number		Revision:	ľ	teration:	Key Contact/Appro	ved by:		Date (First			Date (Revision)		
art Name/D	escripton:		0.000		Core Team: Organization/Plant Appro val Date:				Customer Eng. Approval/Date (if required) Customer Quality Approval/Date (if required)				
Supplier/Plar	nt .	Organization o	ode:										
		Characteristics		istics				Methods		ï			
Part/Proc ess	Process Name/Operation	Machine, Device, Jig Tools for Mfg.				Special Char. Class	Product/Process/	Evaluation/Mea	Massacrae	mple	Control	Reaction Plan	
Number	Description	Table to mig.	No.	Product	Process		Specification/Tole rance	surement Technique	Size	Frequence	methods		
	8.2-11 eze/Version 2									n		tránka/Page 1/1	



Attachment 6 - Deliveries of mechanical items without surface treatment

Deliveries of mechanical items without surface treatment

This work instruction is meant for external suppliers of mechanical parts. Its purpose is to define the accurate dimensions of the parts which have to be manufactured with regard to the surface treatment (ST) performed later by Meopta.

There can be two cases during surface treatment.

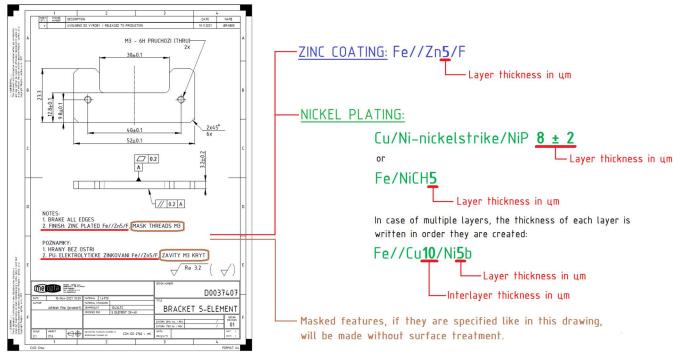
- 1. In technological processes during which a film is exposed on the surface of the part and the part dimensions change. This must be taken into account because the dimension in the drawing documentation is after the ST. (So for the part before ST the dimensions have to be corrected by ST thickness).
- 2. In technologies where oxide layers are formed, there is no change in size. The thicknesses of such layers are either "negligible" or, due to the pretreatment, there is a removal of the base material which is identical to the thickness of the desired surface treatment. So the dimensions on the drawing are correct also for part before ST.
- Surface treatments for which the dimension must be taken into account

The numerical thickness of the layer for these STs is clearly defined in the drawing documentation. The supplier must take this information into account during production. The technologies include:

➤ Zinc coating, Nickel plating, Chemical nickel plating - registered in the relevant international standard e.g. ISO xxxx etc. with data determining the layer thickness (seeChyba! Nenalezen zdroj odkazů.).



Figure 1 - examples of ST marking and required thickness



There are also cases where the layer thickness is defined directly by the standard - see**Chyba! Nenalezen zdroj odkazů.**.



4

NORM: MIL-C-26074E, CLASS 4, GRADE A M3 - 6H PRUCHOZI (THRU) 2x 30±0.1 PREVIEW: Electroless depostion of Nickel-Phosphorous Alloy coatings on metal and composit surfaces 23.3 9.8±0.1 Class 1 As plated, no subsequent heat treatment 2x45° Class 2 Heat treated to obtain required hardness 40±0.1 52±0.1 Aluminum alloys nonheat-treatable, processed to improve adhesion of deposit Class 3 ∠ 0.2 A Aluminum alloys, heat-treatable, processed to improve adhesion of deposit Class 4 // 0.2 A NOTES: 1. BRAKE ALL EDGES 2. FINISH: ELECTROLESS NICKEL PLATE, PERMIL-C-26074E, CLASS 4, GRADE A Thickness Grade A .0010 inch minimum POZNAMKY: 1. HRANY BEZ OSTRI 2. PU: NIKLOVANI DLE MIL-C-26074E, TRIDA 4, STUPEN A Grade B .0005 inch minimum Grade C .0015 inch minimum. √ Ra 3.2 (
√) me opta D0037407

Figure 2 - example of notes about ST with reference to the standard that defines the layer thickness

BRACKET 5-ELEMENT

REVIGION 01



• Surface treatments for which the dimension does not have to be taken into account

It is not necessary to take into account dimensional changes for these STs. The supplier can produce the parts to the final dimensions given by the drawing. The technologies include:

➤ Anodizing / anodic oxidation of aluminum registered by the relevant international standard e.g. ISO xxxx,

MIL-A-8625 type II, (class) 2 etc. Performed by Meopta itself or the supplier on the basis of a process qualified by Meopta.

- Passivation of stainless steels according to ASTM-A-967, AMS 2700C.
- Alkaline oxidation / blackening of steel and other metals

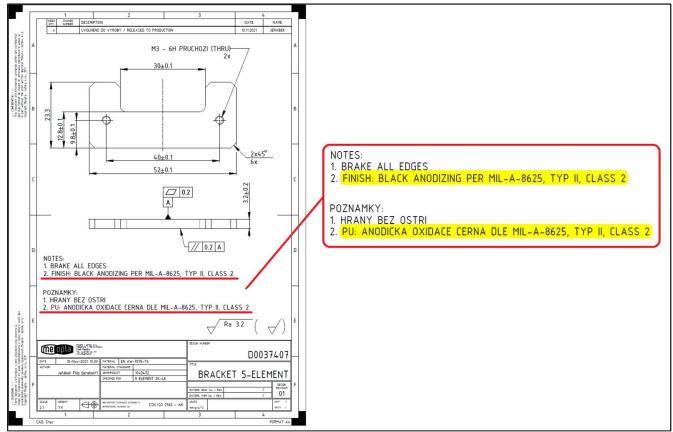


Figure 3 - Example of anodic oxidation in the drawing notes



Revision	Revision date	Reviewed by	Approved by	Description of the change		
1.	7.11.2011	Martin Zborek	Aleš Mandák	First release, 7.11.2011		
2.	17.6.2016	Martin Zborek	Martin Zborek	AS9100		
3.	9.8.2021 Miroslav		Miroslav	Full revision and update		
		Chmelík	Chmelík	according to recent business		
				requirements		
4.	26.1.2022	Miroslav	Miroslav	Reference for surface		
		Chmelík	Chmelík	treatment of mechanical parts		
				was added		
5.	2.6.2023	David Kundera	Jindřich Hýža	Replacements/repairs labeling		
				was added see article no. 6,		
				articles no. 3 and 9 were		
				revised		