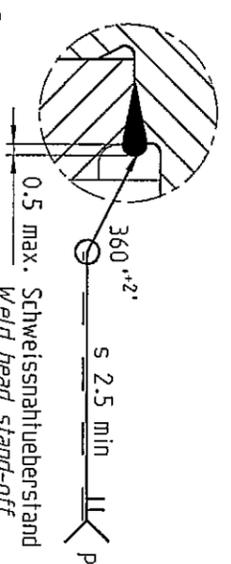
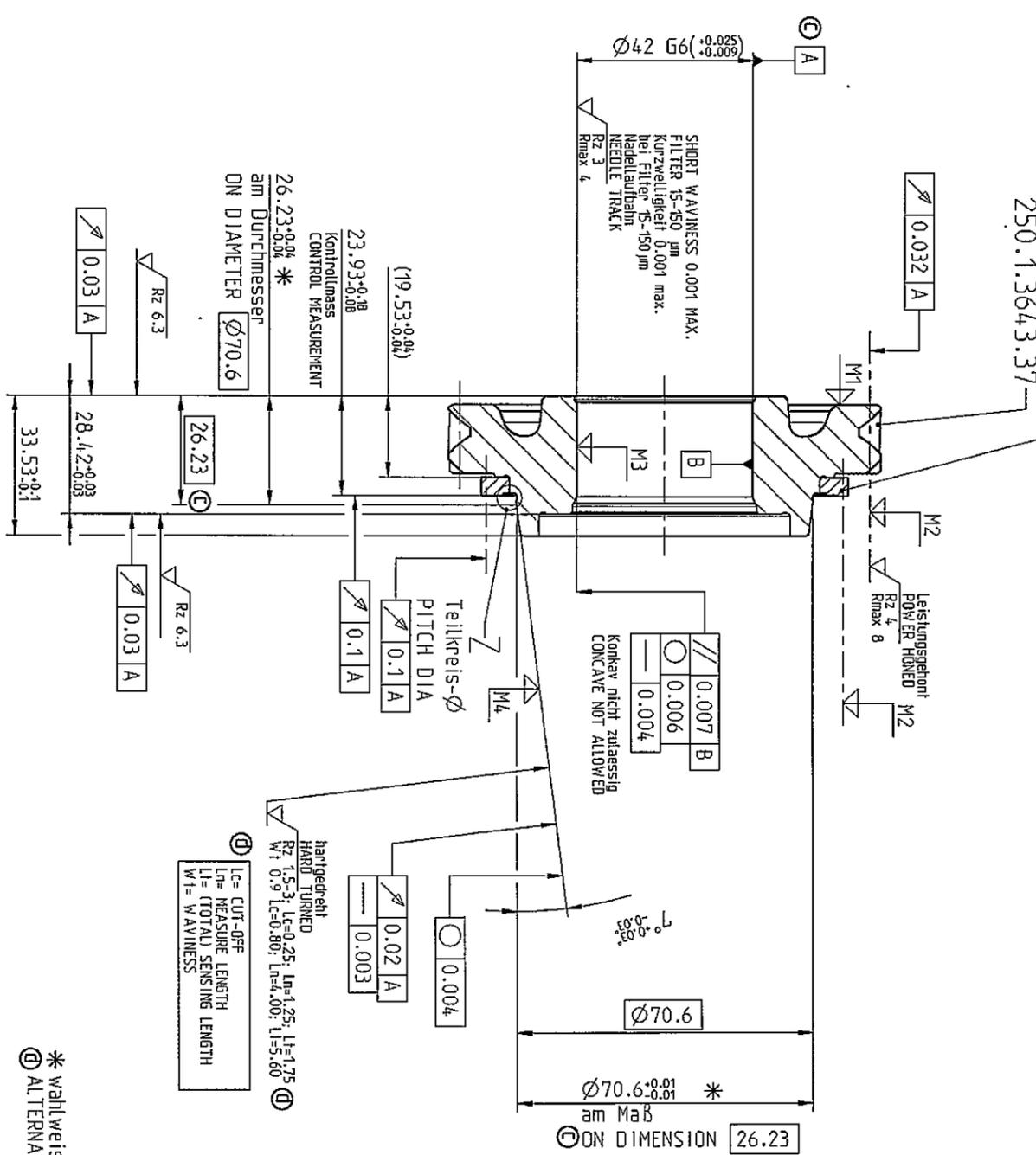
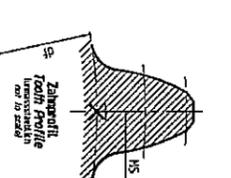


New E.L. (RUBEN) (RUBEN) (RUBEN)
 ON SLAG

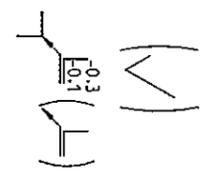


UNMASSTÄBLICH
 not to scale
 0.5 max. Schweißnahtüberstand
 Weld bead stand-off
 s 2.5 min
 Prozess ISO 4063 - 522

einsetztauglichkeit und angelassen
 M1 (Oberflächentauglichkeit): 80.5+2.5 HRA
 M2 (Zahnflanke): CHD (Eht) 550=0.5+0.4
 M3 (Bohrung): CHD (Eht) 550= 0.3 min.
 M4 (Konus): CHD (Eht) 550= 0.4+0.4
 M5 (Kernhaerte): min. 300 HV10



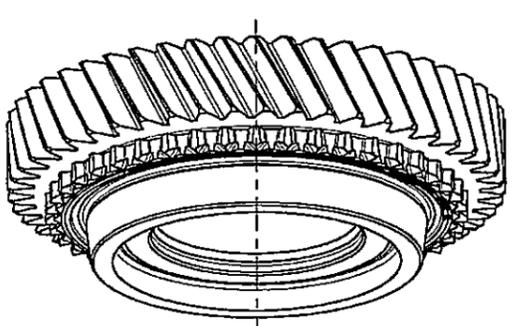
* wahlweise Messung
 ⊕ ALTERNATIVE MEASUREMENT



Es gelten die Anforderungen nach GN 4340-1
 CLEANLINESS REQUIREMENTS OF THE GN 4340-1 HAVE TO BE ABIDED
 Für Getrag internen Gebrauch / FOR GETRAG INTERNAL USE
 Bauteiloberflächene fuer Prüfung / SURFACE TO PROVE:
 364 cm²

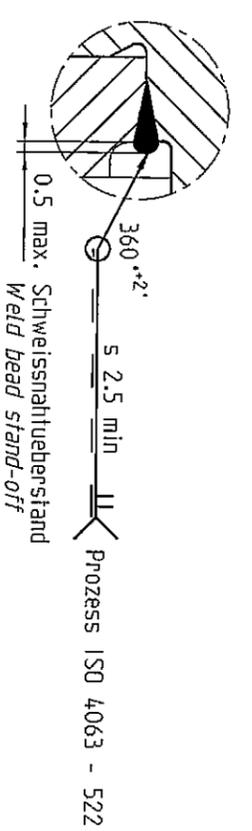
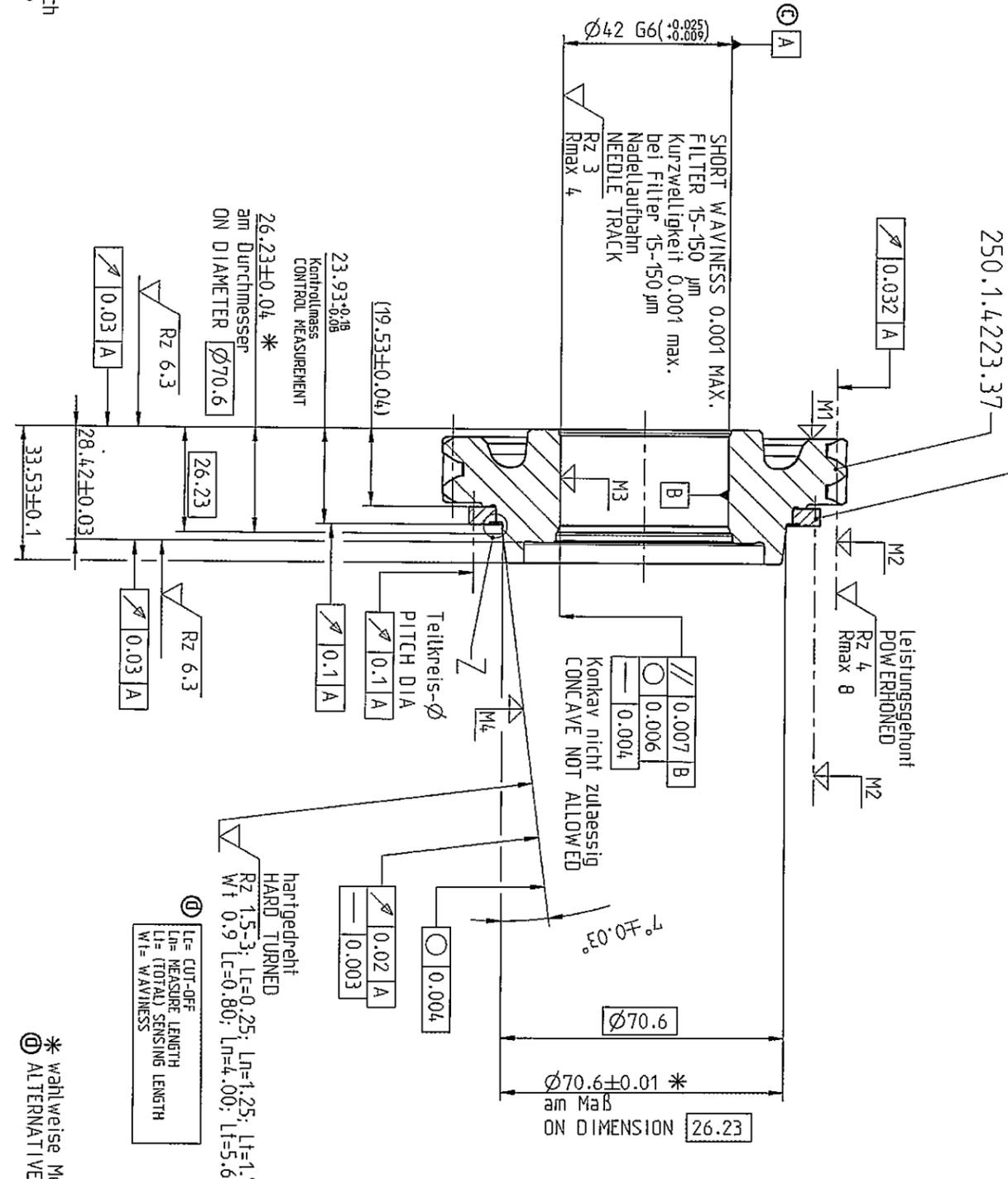
Technische Sauberkeit / TECHNICAL CLEANLINESS:

Für GETRAG intern:
 Dieses Bauteil ist Bestandteil der Gruppennummer 250.1.6086.00
 Lieferant/Hersteller: Bari
 GETRAG INTERNAL ONLY:
 THIS COMPONENT IS PART OF GROUP NUMBER 250.1.6086.00
 SUPPLIER/MANUFACTURER: Bari
 Für die Lieferung und Kennzeichnung im Data Matrix Code
 (Bauteil und/oder Verpackung)
 muss die Gruppennummer 250.1.6086.00 verwendet werden.
 FOR SHIPMENT AND IDENTIFICATION WITHIN THE DATA MATRIX CODE
 (COMPONENT AND/OR PACKAGING)
 THE GROUP NUMBER 250.1.6086.00 HAS TO BE USED.
 PPAP nach / ACCORDING TO 250.1.3642.38



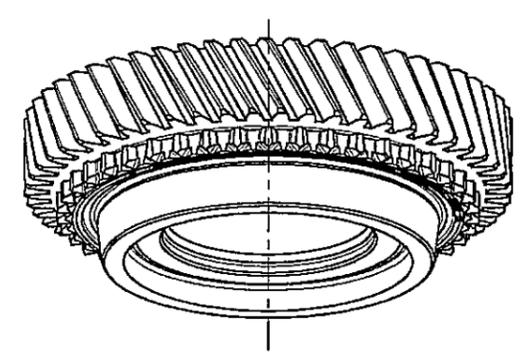
Gr./TS	0	<M>	<N>																	
803001	0	∇																		
GN 3010	0	<C>	<A>																	
Ergebnis																				
Passstab / STATE																				
M: 1:1 (---)																				

NSW E.R. (ALREADY SGA1 ON)



Checked according engineering specification S 357R-7M161-AA. DEVIATION FROM THIS SPECIFICATION: LONGITUDINAL MICRO CRACKS IN THE WELDING MATERIAL ARE PERMISSIBLE TO A TOTAL OF 2% AROUND THE CIRCUMFERENCE.

Fuer GETRAG Intern:
 Dieses Bauteil ist Bestandteil der Gruppen Nummer 250.1.6419.00
 Lieferant/Hersteller: Bari
 GETRAG INTERNAL ONLY:
 THIS COMPONENT IS PART OF GROUP NUMBER 250.1.6419.00
 SUPPLIER/MANUFACTURER: Bari
 Fuer die Lieferung und Kennzeichnung im Data Matrix Code
 (Bauteil und/oder Verpackung) 250.1.6419.00 verwendet werden.
 muss die Gruppen Nummer 250.1.6419.00 verwendet werden.
 FOR SHIPMENT AND IDENTIFICATION WITHIN THE DATA MATRIX CODE
 (COMPONENT AND/OR PACKAGING)
 THE GROUP NUMBER 250.1.6419.00 HAS TO BE USED.
 PPAF nach / ACCORDING TO 250.1.4222.38



Es gelten die Anforderungen nach GN 4340-1
 CLEANNESS REQUIREMENTS OF THE GN 4340-1 HAVE TO BE ABIDED
 Fuer Getrag internen Gebrauch / FOR GETRAG INTERNAL USE
 Bauteiloberflaeche fuer Pruefung / SURFACE TO PROVE:
 373 CM2

Technische Sauberkeit / TECHNICAL CLEANLINESS:



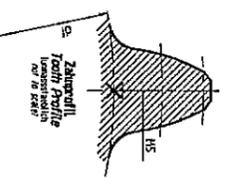
SSS PPAF DOC
 250.1.3642.38

- einsetzgehaertet und angelassen
- M1 (Oberflaechehaerte) : 80.5-2.5 HRA
- M2 (Zahnflanke) : CHD (Eh) 550=0.5+0.4
- M3 (Bohrung) : CHD (Eh) 550= 0.3 min.
- M4 (Konus) : CHD (Eh) 550= 0.4+0.4
- M5 (Kernhaerte) : min. 300 HV10

- CASE HARDENED AND TEMPERED
- M1 (CASE HARDNESS) : 80.5-2.5 HRA
- M2 (TOOTH FLANK) : CHD (Eh) 550-0.5-0.4
- M3 (BORE) : CHD (Eh) 550= 0.3 min.
- M4 (CONE) : CHD (Eh) 550= 0.4+0.4
- M5 (INSIDE BASE OF TOOTH) : min. 300 HV10

* wahlweise Messung
 ALTERNATIVE MEASUREMENT

hertgedreht
 HARD TURNED
 RZ 1.5-3; LC=0.25; Ln=1.25; Lt=1.75
 Wt 0.9; Lc=0.80; Lt=4.00; Lt=5.60



Material	Part No.	Technical Drawing	Change No.	Change Description	Change Date
GC6/TS 803001	0	>	36088	Technische Sauberkeit/TECHNICAL CLEANLINESS aktualisiert/UPDATED	20150904
GN 3010	0	<	35670	Oberflaechenbearbeitung/SURFACE FINISH geaendert/CHANGED: Text neu/TEXT REW: Wahlweise Messung/ALTERNATIVE MEASUREMENT	20140801
	0	<	35622-1	Hauptstirn-/MAIN SECTION Bezug/REFERENCE A neu/REW: Spezifizierte/Specified	20130122

Index	Change No.	Change Description	Change Date
1	35622-1	Hauptstirn-/MAIN SECTION Bezug/REFERENCE A neu/REW: Spezifizierte/Specified	20130122

Index	Change No.	Change Description	Change Date
1	35622-1	Hauptstirn-/MAIN SECTION Bezug/REFERENCE A neu/REW: Spezifizierte/Specified	20130122

312435



Part Submission Warrant

Part Name	Speed Gear 4	Customer Part Number	250.1.3642.38
Shown on Drawing No.	250.1.3642.38	Organization Part #	
Engineering Change Level	e 36088	Dated	04-set-15
Additional Engineering Changes		Dated	
Safety and/or Government Regulation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Purchase Order No.	
Checking Aid No.		Weight (kg)	1.0080
Checking Aid Engineering Change Level		Dated	

ORGANIZATION MANUFACTURING INFORMATION

CUSTOMER SUBMITTAL INFORMATION

GETRAG MODUGNO

Organization Name & Supplier/Vendor Code
VIA DEI CICLAMINI N°4

Street Address
MODUGNO BARI 70026 ITALY

City	Region	Postal Code	Country
MODUGNO	BARI	70026	ITALY

Customer Name/Division

Buyer/Buyer Code
DCT250

Application

MATERIALS REPORTING

Has customer-required Substances of Concern information been reported?
Submitted by IMDS or other customer format: Yes No n/a

Are polymeric parts identified with appropriate ISO marking codes? Yes No n/a

REASON FOR SUBMISSION (Check at least one)

<input type="checkbox"/> Initial Submission	<input type="checkbox"/> Change to Optional Construction or Material
<input checked="" type="checkbox"/> Engineering Change(s)	<input checked="" type="checkbox"/> Supplier or Material Source Change
<input type="checkbox"/> Tooling: Transfer, Replacement, Refurbishment, or additional	<input type="checkbox"/> Change in Part Processing
<input type="checkbox"/> Correction of Discrepancy	<input type="checkbox"/> Parts Produced at Additional Location
<input type="checkbox"/> Tooling Inactive > than 1 year	<input type="checkbox"/> Other - please specify below

REQUESTED SUBMISSION LEVEL (Check one)

Level 1 - Warrant only (and for designated appearance items, an Appearance Approval Report) submitted to customer.

Level 2 - Warrant with product samples and limited supporting data submitted to customer.

Level 3 - Warrant with product samples and complete supporting data submitted to customer.

Level 4 - Warrant and other requirements as defined by customer.

Level 5 - Warrant with product samples and complete supporting data reviewed at organization's manufacturing location.

SUBMISSION RESULTS

The results for dimensional measurements material and functional tests appearance criteria statistical process package

These results meet all drawing and specification requirements: Yes NO (If "NO" - Explanation Required)

Mold / Cavity / Production Process _____

DECLARATION

I hereby affirm that the samples represented by this warrant are representative of our parts which were made by a process that meets all Production Part Approval Process Manual 4th Edition Requirements. I further affirm that these samples were produced at the production rate of _____ / _____ hours. I also certify that documented evidence of such compliance is on file and available for review. I have noted any deviations from this declaration below.

EXPLANATION / COMMENTS: **Technical cleanliness requirement updated on drawing (already in place)**
New E.R. introduction (already in place on SG1)

Is each Customer Tool properly tagged and numbered? Yes No n/a

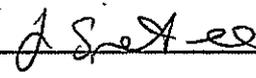
Organization Authorized Signature  Date **15/10/2015**

Print Name **Camarda Ettore** Phone No. **tel 390805858220** Fax No. _____

Title **Area 1 Manager** E-mail **ettore.camarda@magna.com**

FOR CUSTOMER USE ONLY (IF APPLICABLE)

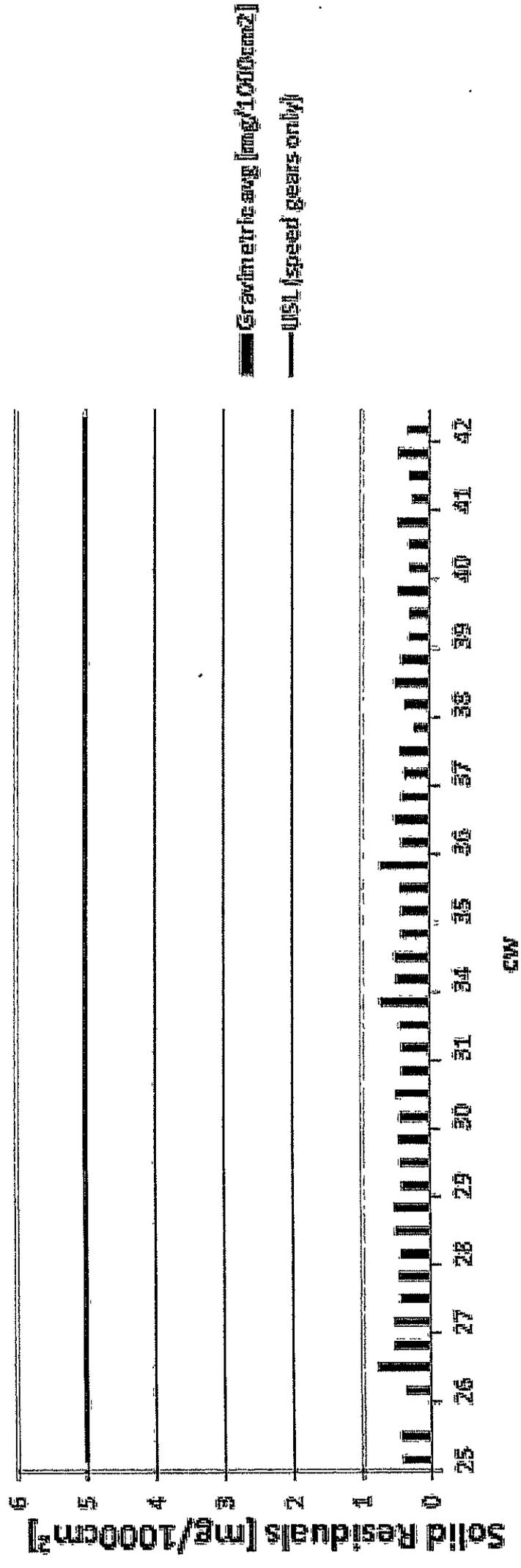
Part Warrant Disposition: Approved Rejected Other

Customer Signature  Date **15.10.15**

Print Name _____ Customer Tracking Number (optional) _____

Foglio QPS		Reparto /area	WLQ2	Laboratorio	Data creazione	28/11/13	Layout / Spiegazione / Aiuti visivi				
Slab.	BARI	Macchina	N. A.	Processo (QP-N°)	Analisi di Contaminazione Particolari	QPS-N°	130006				
Tempo ciclo	00:00 min:sec	Nome pezzo	Tutti	Tempo [mm:ss]		Pagina	1	di	3		
Tact time	N. A.	Tipo modello		Manuale							
Fase N°	TITOLO: Descrizione processo			Auto		Esperienze/ Punti chiave Sicurezza - Qualità - Ambiente (Fare riferimento a QPS / WES per fasi complesse)					
1	<p>Preparazione attrezzatura per irrorazione: detergere con cura il piano della cappa. Disporre sotto cappa l'attrezzatura per l'irrorazione dei pezzi (caraffa graduata in vetro da 3 l, becher in vetro da 1 l, pompa a diaframma, tubo di aspirazione, ugello con manichetta). Aggianciare il tubo di ingresso aria compressa della pompa al rubinetto della cappa. Serrare con una fascetta metallica. Detergere con cura l'attrezzatura con carta e detergente. Pulire particolarmente la manichetta di uscita del solvente (ugello di irrorazione) ed il tubo di aspirazione dello stesso.</p>										
2	<p>Pulizia interna della pompa e dei tubi: Inserire 400 ml di solvente Houghton Fenella VD 2209 N nel becher, attivare la pompa aprendo il rubinetto dell'aria compressa e far defluire il solvente. Ripetere una seconda volta il processo.</p>										
3	<p>Irrorazione del particolare: sistemare i particolari, all'interno del contenitore utilizzato per il campionamento, sul piano cappa. Utilizzare la caraffa graduata da 3 l per versare nel contenitore 500 ml di solvente Fenella se si analizzano ruote oppure 800 ml se si analizzano alberi. Inserire il tubo di aspirazione del liquido nella bacinella, impostare il timer su 3 minuti, attivare il conto alla rovescia ed aprire completamente il rubinetto dell'aria compressa. Tutta la superficie del pezzo dev'essere irrorata. La distanza dell'ugello rispetto al pezzo dev'essere di circa 10 cm.</p>										
4	<p>Risciaquo del particolare: afferrare con cura il pezzo al termine dell'irrorazione ed estrarlo dal contenitore. Risciaquarlo aiutandosi con una spruzzetta da 250 ml riempita con solvente.</p>										
5	<p>Risciaquo dell'attrezzatura: risciaquare l'attrezzatura come al punto 2, con l'avvertenza di versare il solvente utilizzato nello stesso contenitore in cui è stato irrorato il particolare.</p>										
DPI necessari		Tempo tot.	00:00	00:00	00:00	=	00:00	min		creato/modificato da	F. Guerra / WLQ2
		Loghi								Revisione-N°	01
		Sturezza								Data revisione	28.11.13
		Controllo qualità								Archiviazione:	28/03 / S +12
		Condizioni critiche	<input checked="" type="checkbox"/>							Classe sicurezza:	Proprietary
		Ambiente									GO_F11_0001_07

Part Cleanliness after Final Washing / Gravimetric Analysis - 2015





Part Submission Warrant

Part Name Kupplungsscheibe, Engagement Ring Cust.Part Number 0558723300
 Shown on Drawing Number 0558723300 Org.Part Number 2156
 Engineering Change Level a Dated 21. Nov. 11
 Additional Engineering Changes - / Dated _____
 Safety and/or Government Regulation Yes No Purchase Order No. _____ Weight (kg) 0,0449
 Checking Aid Number standard Checking Aid Engineering Change Level _____ Dated _____

ORGANISATION MANUFACTURING INFORMATION **CUSTOMER SUBMITTAL INFORMATION**

Finova Feinschneidtechnik GmbH Getrag
 Organisation Name & Supplier/Vendor Code Customer Name/Division
Am Weidenbroich 24 _____
 Street Address Buyer/Buyer Code
Remscheid NRW 42897 Germany _____
 City Region Postal Code Country Application

MATERIAL REPORTING

Has Customer-required Substances of Concern Information been reported? Yes No n/a
 Submitted by IMDS or other customer format. look at IMDS ID: 170541036 / 0.01

Are polymeric parts identified with appropriate ISO marking codes? Yes No n/a

REASON FOR SUBMISSION

Initial submission Change to Optional Construction or Material
 Engineering Change(s) Sub-Supplier or Material Source Change
 Tooling: Transfer, Replacement, Refurbishment, or additional Change in Part Processing
 Correction of Discrepancy Parts produced at Additional Location
 Tooling inactive > than 1 year Other - please specify below

REQUESTED SUBMISSION LEVEL (Check one)

Level 1 - Warrant only (and for designated appearance items, an Appearance Approval Report) submitted to customer.
 Level 2 - Warrant with product samples and limited supporting data submitted to customer.
 Level 3 - Warrant with product samples and complete supporting data submitted to customer.
 Level 4 - Warrant and other requirements as defined by customer.
 Level 5 - Warrant with product samples and complete supporting data reviewed at organization's manufacturing location.

SUBMISSION RESULTS

The results for dimensional measurements material and functional tests appearance criteria statistical process package
 These results meet all drawing and specification requirements: Yes No (If 'NO' - Explanation Required)
 Mold / Cavity / Production Process / cavity: 2() / Moulding

DECLARATION
 I affirm that the samples represented by this warrant are representative of our parts, which were made by a process that meets all Production Part Approval Process Manual 4th Edition Requirements. I further affirm that these part-construction out of the documented injection moulding were produced at the production rate of 1280 parts / 8 hours. I also certify that documented evidence of such compliance is on file and available for review. I have noted any deviations from this declaration below.

EXPLANATION/COMMENTS: see deviation report

Is each Customer Tool property tagged and numbered? Yes No n/a

Organisation Authorized Signature S. Dumnick Date 03.04.2012
 Print Name S. Dumnick Phone No. 02191 / 5631 167 Fax No. 02191 / 5631 - 961
 Title QS E-Mail: s.dumnick@finova-ombh.de

FOR CUSTOMER USE ONLY (IF APPLICABLE)

PPAP Warrant Disposition: Approved Rejected Other approved with condition
 Customer Signature DEQ T. Krüggel Date 03.04.2012
 Print Name T. Krüggel Customer Tracking Number (optional) DEQ-KR-12-009

Drawing update from 3642.37 to 3642.38 index "e"

Short description:

E	1x	36088	Technische Sauberkeit/TECHNICAL CLEANLINESS aktualisiert/UPDATED	20150904
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+ New ER introduction

PPAP Requirements		Required	Note
1	Design Records	Yes	
2	Authorized Engineering change documents	Yes	see dwg
3	Customer Engineering approval	n.a.	
4	DFMEA	NO	
5	Process flow diagram(s)	NO	
6	PFMEA	Yes	Cleanliness spec. already in place
7	Control plan	Yes	Cleanliness spec. already in place
8	Measurement system analysis studies	NO	
9	Dimensional results	NO	
10	Records of Material / Performance test results	NO	
11	Initial process studies	NO	
12	Qualified laboratory documentation	NO	
13	Appearance Approval Report (A.A.R.)	n.a.	
14	Sample Production Parts	Yes	
15	Master sample	Yes	
16	Checking aids	n.a.	
17	Customer-Specific Requirements	NO	
18	Part Submission Warrant (PSW)	Yes	

PPAP Docs updated
YES
YES
YES
YES
YES
YES
YES

Other requirements		Required	Note
1	PSW Raw part	NO	
2	PSW E.P. part	NO	
3	PSW Engagement Rings	Yes	

YES



Part Submission Warrant

Part Name	Speed Gear 4	Customer Part Number	250.1.3875.36
Shown on Drawing No.	250.1.3875.36	Organization Part #	
Engineering Change Level	c 36088	Dated	04-set-15
Additional Engineering Changes		Dated	
Safety and/or Government Regulation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Purchase Order No.	
Weight (kg)			0.9330
Checking Aid No.		Checking Aid Engineering Change Level	
		Dated	

ORGANIZATION MANUFACTURING INFORMATION

CUSTOMER SUBMITTAL INFORMATION

GETRAG MODUGNO

Organization Name & Supplier/Vendor Code

VIA DEI CICLAMINI N°4

Street Address

MODUGNO BARI	70026	ITALY
City	Region	Postal Code
		Country

Customer Name/Division

Buyer/Buyer Code

DCT250

Application

MATERIALS REPORTING

Has customer-required Substances of Concern information been reported?
Submitted by IMDS or other customer format:

Yes No n/a

Are polymeric parts identified with appropriate ISO marking codes?

Yes No n/a

REASON FOR SUBMISSION (Check at least one)

<input type="checkbox"/> Initial Submission	<input type="checkbox"/> Change to Optional Construction or Material
<input checked="" type="checkbox"/> Engineering Change(s)	<input checked="" type="checkbox"/> Supplier or Material Source Change
<input type="checkbox"/> Tooling: Transfer, Replacement, Refurbishment, or additional	<input type="checkbox"/> Change in Part Processing
<input type="checkbox"/> Correction of Discrepancy	<input type="checkbox"/> Parts Produced at Additional Location
<input type="checkbox"/> Tooling Inactive > than 1 year	<input type="checkbox"/> Other - please specify below

REQUESTED SUBMISSION LEVEL (Check one)

Level 1 - Warrant only (and for designated appearance items, an Appearance Approval Report) submitted to customer.

Level 2 - Warrant with product samples and limited supporting data submitted to customer.

Level 3 - Warrant with product samples and complete supporting data submitted to customer.

Level 4 - Warrant and other requirements as defined by customer.

Level 5 - Warrant with product samples and complete supporting data reviewed at organization's manufacturing location.

SUBMISSION RESULTS

The results for dimensional measurements material and functional tests appearance criteria statistical process package

These results meet all drawing and specification requirements: Yes NO (If "NO" - Explanation Required)

Mold / Cavity / Production Process _____

DECLARATION

I hereby affirm that the samples represented by this warrant are representative of our parts which were made by a process that meets all Production Part Approval Process Manual 4th Edition Requirements. I further affirm that these samples were produced at the production rate of _____ / _____ hours. I also certify that documented evidence of such compliance is on file and available for review. I have noted any deviations from this declaration below.

EXPLANATION / COMMENTS: **Technical cleanliness requirement updated on drawing (already in place)**

New E.R. introduction (already in place on SG1)

Is each Customer Tool properly tagged and numbered? Yes No n/a

Organization Authorized Signature _____ Date **15/10/2015**

Print Name **Camarda Ettore** Phone No. **tel 390805858220** Fax No. _____

Title **Area 1 Manager** E-mail **ettore.camarda@magna.com**

FOR CUSTOMER USE ONLY (IF APPLICABLE)

Part Warrant Disposition: Approved Rejected Other

Customer Signature _____ Date **15.10.15**

Print Name _____ Customer Tracking Number (optional) _____

Part Name Speed Gear 4		Customer Part Number 250.1.4222.38	
Shown on Drawing No. 250.1.4222.38		Organization Part # _____	
Engineering Change Level e 36088		Dated 04-set-15	
Additional Engineering Changes _____		Dated _____	
Safety and/or Government Regulation <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Purchase Order No. _____	Weight (kg) 0.9610	
Checking Aid No. _____	Checking Aid Engineering Change Level _____	Dated _____	

ORGANIZATION MANUFACTURING INFORMATION

CUSTOMER SUBMITTAL INFORMATION

GETRAG MODUGNO

Organization Name & Supplier/Vendor Code
VIA DEI CICLAMINI N°4

Street Address
MODUGNO BARI 70026 ITALY

City	Region	Postal Code	Country

Customer Name/Division

Buyer/Buyer Code
DCT250

Application

MATERIALS REPORTING

Has customer-required Substances of Concern information been reported?
 Submitted by IMDS or other customer format: Yes No n/a

Are polymeric parts identified with appropriate ISO marking codes? Yes No n/a

REASON FOR SUBMISSION (Check at least one)

<input type="checkbox"/> Initial Submission	<input type="checkbox"/> Change to Optional Construction or Material
<input checked="" type="checkbox"/> Engineering Change(s)	<input checked="" type="checkbox"/> Supplier or Material Source Change
<input type="checkbox"/> Tooling: Transfer, Replacement, Refurbishment, or additional	<input type="checkbox"/> Change in Part Processing
<input type="checkbox"/> Correction of Discrepancy	<input type="checkbox"/> Parts Produced at Additional Location
<input type="checkbox"/> Tooling Inactive > than 1 year	<input type="checkbox"/> Other - please specify below

REQUESTED SUBMISSION LEVEL (Check one)

Level 1 - Warrant only (and for designated appearance items, an Appearance Approval Report) submitted to customer.

Level 2 - Warrant with product samples and limited supporting data submitted to customer.

Level 3 - Warrant with product samples and complete supporting data submitted to customer.

Level 4 - Warrant and other requirements as defined by customer.

Level 5 - Warrant with product samples and complete supporting data reviewed at organization's manufacturing location.

SUBMISSION RESULTS

The results for dimensional measurements material and functional tests appearance criteria statistical process package

These results meet all drawing and specification requirements: Yes NO (If "NO" - Explanation Required)

Mold / Cavity / Production Process _____

DECLARATION

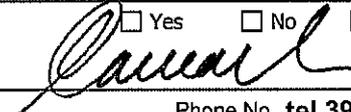
I hereby affirm that the samples represented by this warrant are representative of our parts which were made by a process that meets all Production Part Approval Process Manual 4th Edition Requirements. I further affirm that these samples were produced at the production rate of _____ / _____ hours.

I also certify that documented evidence of such compliance is on file and available for review. I have noted any deviations from this declaration below.

EXPLANATION / COMMENTS: **Technical cleanliness requirement updated on drawing (already in place)**

New E.R. introduction (already in place on SG1)

Is each Customer Tool properly tagged and numbered? Yes No n/a

Organization Authorized Signature  Date **15/10/2015**

Print Name **Camarda Ettore** Phone No. **tel 390805858220** Fax No. _____

Title **Area 1 Manager** E-mail **ettore.camarda@magna.com**

FOR CUSTOMER USE ONLY (IF APPLICABLE)

Part Warrant Disposition: Approved Rejected Other

Customer Signature  Date **15.10.15**

Print Name _____ Customer Tracking Number (optional) _____