

On demand services: cutting, specific traceability, stress relieving

Swiss Made

"Tailor-made watch products" solutions

- Stress relieving heat treatment on bars for very precise parts (Bezel...).
- Bars cut to length (350mm to 1,300mm) with copy of marking on the section.
- End finishes adapted to the machining process.
- Optimized packaging for machine storage and loading.

"Specific bar loader" solutions

- Bars for LNS Quick Load from 350 to 1,300mm.
- Bars for Tornos MultiSwiss 6x14 of 1,500mm.
- Bars deburred, chamfered and/or pointed.

"Custom lengths" solutions

- Billets or bars sawing Ø 3 to 70mm
 within a length range from 6 to 4,000mm.
- Chamfered 30° or 45°.

Services provided by Ugitech Suisse SA:

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Swiss Steel Group

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Tailor made services ex-mill Ugitech SA

- Sawing, cutting to length
- Heat treatment
- Marking (laser, hard stamping, ink) on section or on line marking
- Packaging
- Traceability
- Customer-dedicated stock items
- End finishes



The information and data presented here in are typical or average values and are not a guarantee of maximum or minimum values. Only the information reported on our material certificates is to be considered as relevant

Applications specifically suggested for material described herein are made for the purpose of illustration only to enable the reader to make its own evaluation and are not intended as warranties, either express or implied, of fitness for any purposes.

Villi® - www.imprimerie-villiere.com Thuria - Horlogerie_EN - 04-2023 D16032EN Stainless steel experience at time disposal

AUTOMATIC CHRONOMETER







Watch case

Size range 20 to 80mm

Ugitech designation (EN)	Other designation	Remelted	Main Specs	Machinability	Corrosion resistance	Sealing & cleanliness	Polishability	Scratch resistance Hardness
Austenitics								
UGIMA® 4404	316L							
UGI® 4435 ICH	316LMo							
UGI® 4435 IRH	316LMo							
UGI® 4441 HUP	316LVM	ESR	ISO 5832-1					

Watch strap

Size range 1.0 to 18mm available in drawn wires, bars and shaped wire

Ugitech designation (EN)	Other designation	Remelted	Main Specs	Corrosion resistance	Cleanliness	Polishability	Scratch resistance Hardness	Yield Strength
Austenitics					THE RESERVE			
UGIMA® 4404	316L		16.74					
UGI 4435 ICH	316LMo							
UGI® 4435 IRH	316LMo							
UGI® 4441 HUP	316LVM	ESR	ISO 5832-1					
UGI® 4472 HUP (diam < 14mm)		ESR	ISO 5832-9					
UGI® 4455 HUP	XM 19	ESR						
Cobalt-based alloys								
UGIALLOY® PHYNOX®		VAR	ISO 5832-7					
UGIALLOY® KC35N		VAR or ESR	ISO 5832-6					

PHYNOX® is a registered trademark of Aperam

Watch movement

Size range 1.0 to 15mm

Ugitech designation (EN)	Other designation	Remelted	Main Specs	Machinability	Abrasion resistance Hardness	Seizure resistance	Non-magnetic
Austenitics	THE PARTY		The same			I work	
UGIMA® 4305	303						
UGIMA® 4570	303Cu					_	
UGIMA® 4404	316L						
UGIMA® 4598	316LCu					_	
UGI® 4435 ICH	316LMo						
UGI® 4435 IRH	316LMo						
UGI® 4441 HUP	316LVM	ESR	ISO 5832-1				
UGI® 4472 HUP		ESR	ISO 5832-9	_			
UGI® 4455 HUP	XM 19	ESR	45767				
Martensitics	The second second						
UGI® 4116N			EN 10088-3				
UGI® 4197	420F MOD		ASTM F899				
Maraging Steel							
UGIALLOY® DURIMPHY®		VAR		-			
Cobalt-based alloys		To the same				-13.8	
UGIALLOY® PHYNOX®		VAR	ISO 5832-7	•			
UGIALLOY® KC35N		VAR or ESR	ISO 5832-6				

PHYNOX® and DURIMPHY® are a registered trademark of Aperar

Sizes ranges, certified packagings and controls

Bai

	Size range	Surface finish	Tolerances	Packaging
Round bars ex-mill	$1 \le \emptyset < 20$	Ground, drawn	h7, h8, h9	
	20 ≤ Ø ≤ 80	Turned, polished and ground	h9, h10	Wooden boxes for all ground products (on request for other surface finishes) Chapting around the plants the responses
Round bars ex- stock	1.8 ≤ Ø < 20	Ground, drawn	h7, h8, h9	Strapping around alveolar polypropylene fabric (Akilux) Customer-specific packaging on request
	20 ≤ Ø ≤ 80	Turned, polished and ground	h9, h10	

Drawn wire

	Size range	Surface finish	Tolerances	Packaging
Round wire	1 – 15mm	Matt	Up to ISO 6 according to application	Coils, carriers, bars up to 15mm
Shaped wire	2 to 70mm²	Bright finished	To within 0.01mm, standard deviation 0.002mm	Coils

Certified inspection possibilities as per ISO 17025

Nature of test	Measured characteristics	Method reference	
Physical-chemical analysis	Chemical Analysis	X-ray fluorescence, spectrometry, combustion and infrared absorption	
Grain size determination	Grain size index	NF EN ISO 643 ASTM E112	
Determination of non-metallic inclusion content	Inclusion content	ISO 4967*, ASTM E45	
Detection of metallurgical defects by chemical attack	Micrographic observation	ASTM A604 / 604M	
Determination of delta ferrite	Delta ferrite content	AMS 2315	
Mechanical properties: Tensile test	Rp02, Rm, A %, Z %	ISO6992-1, ASTM E8 / E8M	
Mechanical properties: Hardness test	HRC, HB, HV	ISO 6506-1, ISO 6507-1, ISO 6508-1	

^{*} Cleanliness contains control according to DIN 50602 applicable to specific watchmaking requirements (on demand)

2 | A variety of grades to meet individual needs

Sizes ranges, certified packagings and controls | 4