

## CT 220 - MANUFATURA ADITIVA

### ÂMBITO

Normalização na área da manufatura aditiva relativamente aos processos, termos e definições, cadeias de processos (Hard- e Software), procedimentos de teste/ensaio, parâmetros de qualidade, contratos de fornecimento e todo tipo de fundamentos.

### COORDENAÇÃO

#### CATIM - CENTRO DE APOIO TECNOLÓGICO À INDÚSTRIA METALOMECÂNICA

**Presidente** MARTINHO OLIVEIRA  
**Secretário** EURICO ASSUNÇÃO

### ACOMPANHAMENTO TC EUROPEUS E INTERNACIONAIS

CEN/TC 438 - Additive Manufacturing  
ISO/TC 261 - Additive manufacturing  
ISO/TC 261/AHG 005 - Content for ISO/TC 261 homepage  
ISO/TC 261/AHG 006 - Coordination of work between ISO/TC 261 and ISO/TC 184/SC 1 and ISO/TC 184/SC 4  
ISO/TC 261/CAG - Chairman's advisory group  
ISO/TC 261/JAG - ISO/TC 261 - ASTM F42 Steering group on JG activities  
ISO/TC 261/JG 051 - Joint ISO/TC 261-ASTM F 42 Group: Terminology  
ISO/TC 261/JG 052 - Joint ISO/TC 261-ASTM F 42 Group: Standard test artifacts  
ISO/TC 261/JG 054 - Joint ISO/TC 261-ASTM F 42 Group: Design guidelines  
ISO/TC 261/JG 055 - Joint ISO/TC 261-ASTM F 42 Group: Standard Specification for Extrusion Based Additive Manufacturing of Plastic Materials  
ISO/TC 261/JG 056 - Joint ISO/TC 261-ASTM F 42 Group: Standard Practice for Metal Powder Bed Fusion to Meet Rigid Quality Requirements  
ISO/TC 261/JG 057 - Joint ISO/TC 261-ASTM F 42 Group: Specific design guidelines on powder bed fusion  
ISO/TC 261/JG 058 - Joint ISO/TC 261-ASTM F 42 Group: Qualification, quality assurance and post processing of powder bed fusion metallic parts  
ISO/TC 261/JG 059 - Joint ISO/TC 261-ASTM F 42 Group: NDT for AM parts  
ISO/TC 261/JG 061 - Joint ISO/TC 261-ASTM F 42 Group: Guide for anisotropy effects in mechanical properties of AM part  
ISO/TC 261/JG 062 - Joint ISO/TC 261-ASTM F 42 Group: Guide for conducting round robin studies for additive manufacturing  
ISO/TC 261/JG 063 - Joint ISO/TC 261-ASTM F 42 Group: Test methods for characterization of powder flow properties for AM applications  
ISO/TC 261/JG 064 - Joint ISO/TC 261-ASTM F 42 Group: Solid modelling support  
ISO/TC 261/JG 066 - Joint ISO/TC 261-ASTM F 42 Group: Technical specification on metal powders  
ISO/TC 261/JG 067 - Technical report for the design of functionally graded additive manufactured parts  
ISO/TC 261/JG 068 - Joint ISO/TC 261-ASTM F 42 Group: EH&S for 3D printers  
ISO/TC 261/JG 069 - Joint ISO/TC 261-ASTM F 42 Group: EH&S for use of metallic materials  
ISO/TC 261/JG 070 - Joint ISO/TC 261-ASTM F 42 Group: Optimized medical image data  
ISO/TC 261/JG 071 - Joint ISO/TC 261-ASTM F 42 Group: Powder quality assurance  
ISO/TC 261/JG 072 - Joint ISO/TC 261-ASTM F 42 Group: Machine - Production process qualification

ISO/TC 261/JG 073 - Joint ISO/TC 261-ASTM F 42 Group: Digital product definition and data management  
ISO/TC 261/JG 074 - Joint ISO/TC 261-ASTM F 42 Group: Personnel qualifications  
ISO/TC 261/JG 075 - Joint ISO/TC 261-ASTM F 42 Group: Industrial conformity assessment at additive manufacturing centres  
ISO/TC 261/JG 076 - Joint ISO/TC 261-ASTM F 42 Group : Revision of ISO 17296-3 & ASTM F3122-14  
ISO/TC 261/JG 077 - Joint ISO/TC 261-ASTM F 42 Group :Test method of sand mold for metalcasting  
ISO/TC 261/JG 078 - Joint ISO/TC 261-ASTM F 42 Group: Safety regarding AM-machines (relating to harmonized European Standards, Type C-Standard)  
ISO/TC 261/JG 079 - Joint ISO/TC 261- ASTM F 42 Group: Qualification for AM processes in automotive applications  
ISO/TC 261/JG 080 - Joint ISO/TC 261-ASTM F 42 Group: Quality requirements for additive manufacturing in building & construction (structural and infrastructure elements)  
ISO/TC 261/JG 081 - Joint ISO/TC 261-ASTM F 42 Group: Metallic materials for additive manufacturing  
ISO/TC 261/JG 082 - Joint ISO/TC 261-ASTM F 42 Group: Characterization of ceramic feedstock materials  
ISO/TC 261/JWG 010 - Joint ISO/TC 261 - ISO/TC 44/SC 14 WG: Additive manufacturing in aerospace applications  
ISO/TC 261/JWG 011 - Joint ISO/TC 261 - ISO/TC 61/SC 9 WG: Additive manufacturing for plastics  
ISO/TC 261/JWG 012 - Joint ISO/TC 261 - ISO/TC 130: Colour and translucency measurements  
ISO/TC 261/WG 001 - Terminology  
ISO/TC 261/WG 002 - Processes, systems and materials  
ISO/TC 261/WG 003 - Test methods and quality specifications  
ISO/TC 261/WG 004 - Data and Design  
ISO/TC 261/WG 006 - Environment, health and safety

## ESTRUTURA DA CT

## MEMBROS

**Total de  
Membros** 45

## ENTIDADES REPRESENTADAS

3DWAYS  
ADIRA Addcreative  
ALMADESIGN, LDA  
AMCUBED, LDA  
CATIM - CENTRO DE APOIO TECNOLÓGICO À INDÚSTRIA METALOMECÂNICA  
CENTIMFE - CENTRO TECNOLÓGICO DA INDÚSTRIA DE MOLDES, FERRAMENTAS ESPECIAIS E PLÁSTICOS  
CMM - ASSOCIAÇÃO PORTUGUESA DE CONSTRUÇÃO METÁLICA E MISTA  
DGRDF - DIREÇÃO GERAL DE RECURSOS DA DEFESA NACIONAL  
ECLAB  
EWF - EUROPEAN WELDING FEDERATION  
FAMOLDE - GLN  
GENAN  
GRUPO SOCEM  
INEGI - INSTITUTO DE CIÊNCIA E INOVAÇÃO EM ENGENHARIA MECÂNICA E ENGENHARIA INDUSTRIAL

INSTITUTO POLITÉCNICO DE LEIRIA  
INSTITUTO POLITÉCNICO DE VIANA DO CASTELO  
IPQ - INSTITUTO PORTUGUÊS DA QUALIDADE  
ISQ - INSTITUTO DE SOLDADURA E QUALIDADE  
JOHNSON & JOHNSON LDA  
PERIPLAST - EQUIPAMENTOS INDUSTRIAIS, LDA  
PORCELANAS DA COSTA VERDE, SA  
UNIVERSIDADE DE AVEIRO  
UNIVERSIDADE DE COIMBRA - FACULDADE DE CIÊNCIAS E TECNOLOGIA - DEPARTAMENTO CIÊNCIAS DA TERRA  
UNIVERSIDADE DO MINHO  
UNIVERSIDADE NOVA DE LISBOA - FACULDADE DE CIÊNCIAS E TECNOLOGIA  
WEADD, LDA

## REPRESENTATIVIDADE

A	A1	B	C	C1	D	E	F	G	G1
35,56%	0,00%	8,89%	0,00%	0,00%	0,00%	55,56%	0,00%	0,00%	0,00%

(A - Indústria e Comércio / A1 – PME / B – Administração / C – Consumidores / C1 - Grupos sociais de consumidores / D – Trabalho / E - Universidades e centros tecnológicos / F - Aplicação de normas / G - Organizações Não Governamentais (ONG) / G1 - Organizações ambientais)

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