



Jamos

CNC Machining Technology

Company data

Valid as at: March 2020





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Jamos – the material experts

Safety is our challenge

We are a preferred partner for the production of components made of high-alloy steels using CNC technology. Our strength lies in manufacturing complex geometries, in many cases without reclamping.

Everything we do is based on many years of experience with high-alloy materials, understanding of their properties and of specific processing techniques. We are sure that the use of such wear-resistant materials offers a longer service life for every product and opens up a wide variety of new applications.

We are in a position to achieve this aim through our validated working and testing procedures and by promoting high levels of specialisation among our employees. On this basis, we are proud to be able to offer our customers durable products for the highest safety requirements in very demanding areas of application.

Jamos

CNC Machining Technology



2. General information about the enterprise

Company name:	Jamos GmbH
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Foundation:	1980
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Address:	Schmalenhofer Straße 29, 42551 Velbert, Germany
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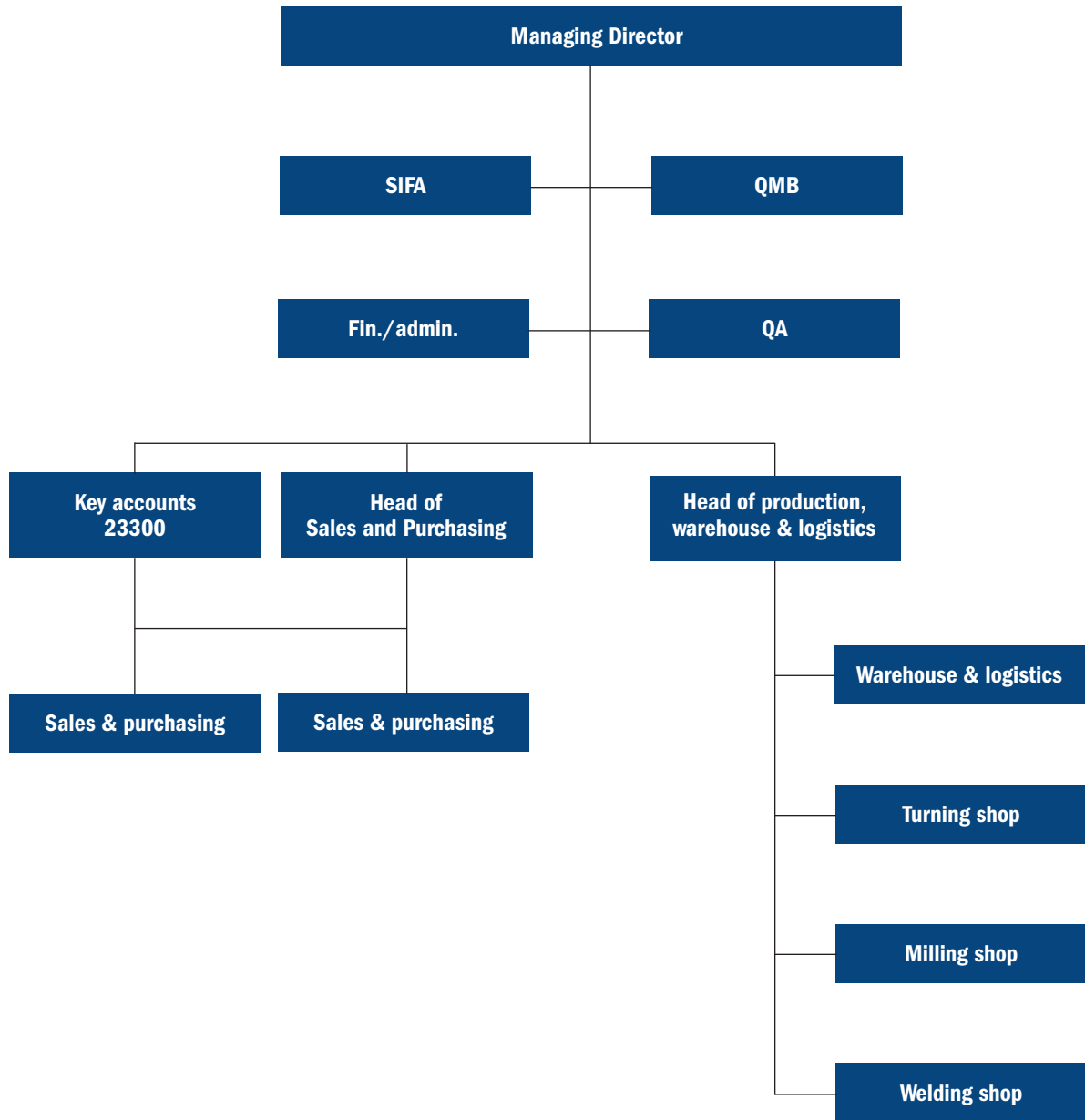
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<u>Managing Director:</u> Dipl.-Ing. Gerrit Woeste	+49 (0) 2051 80111 - 0
<u>Sales Management:</u> Günter von Glischinski	+49 (0) 2051 80111 - 24
<u>Sales/Purchasing/AV:</u> Margarita Mistrulli Sabrina Kokott	+49 (0) 2051 80111 - 21 +49 (0) 2051 80111 - 23
<u>Production Management:</u> Christian Barz	+49 (0) 2051 80111 - 29
<u>Quality Management:</u> Norbert Schaffer	+49 (0) 2051 80111 - 26

Number of employees:	
Total:	18 employees
Production:	13 employees (2 apprentices)
Quality assurance:	1 employee
Administration:	4 employees



3. Organisation chart





4. Certification



CERTIFICATE

Management system as per
DIN EN ISO 9001 : 2015

In accordance with TÜV NORD CERT procedures, it is hereby certified that

Jamos GmbH
Schmalenhofer Straße 29
42551 Velbert
Germany

applies a management system in line with the above standard for the following scope

CNC machined and welded products including assembly

Certificate Registration No. 04 100 040511	Valid from 2019-03-19
Audit Report No. 3523 6146	Valid until 2022-03-18
	Initial certification 2004



Certification Body
at TÜV NORD CERT GmbH

Essen, 2019-02-21

This certification was conducted in accordance with the TÜV NORD CERT auditing and certification procedures and is subject to regular surveillance audits.

TÜV NORD CERT GmbH Langemarckstraße 20 45141 Essen www.tuev-nord-cert.com






5. Restamping certificate

Zertifikat

System zur Übertragung der Kennzeichnung von Werkstoffen

Zertifikat Nr.:	01 202 811/U-09 0010
Name und Anschrift des Unternehmens:	Jamos GmbH CNC-Zerspanung Schmalenhofer Straße 29 42551 Velbert Deutschland
Prüfgrundlage:	Richtlinie 2014/68/EU, Anhang I, Kap. 3.1.5, EN 764-5, Abs. 6.2.3
Prüfbericht Nr.:	W641-VM 8-10-2017
Geltungsbereich:	Übertragung der Kennzeichnung (Umstempelung) von metallischen Werkstoffen mit Prüfbescheinigungen DIN EN 10204 - 2.1, 2.2 oder 3.1
Betriebsstätte:	Jamos GmbH CNC-Zerspanung Schmalenhofer Straße 29 42551 Velbert Deutschland
Gültigkeit:	08/2020 (Das Zertifikat wurde erstmalig am 18.08.2010 ausgestellt.)
Köln, 01.08.2017	 im Auftrag Dipl.-Ing. Oliver Theisen

Zertifizierungsstelle für Herstellerqualifizierung
TÜV Rheinland Industrie Service GmbH
Am Grauen Stein, D-51105 Köln

Regionalbereich: Rheinland Westfalen, Standort: Wuppertal, TÜV Rheinland Industrie Service GmbH
Friedrich-Engels-Allee 346, D-42283 Wuppertal, Tel. 0202 5275 263, info@de.tuv.com

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Jamos

CNC Machining Technology



6. Range of services

We are specialists for special-purpose components with complex geometries made of difficult-to-machine materials such as Stellite, Inconel and Hasteloy.

We manufacture a variety of different products according to our customers' specifications for pressure lines, pressure vessels and gas fittings, as well as components for agricultural machinery and special-purpose valves for the chemicals industry. High strength, pressure and temperature as well as wear and acid resistance and batch traceability play an important role.

Industries:

Pressure vessel industry, agricultural machinery, fittings industry, aerospace technology, oil and gas industry, power station construction, automotive industry, machine and plant engineering

Materials:

- Stainless and acid-resistant steels
- Cast and forged materials (steel, stainless steel, aluminium, copper)
- Superalloys (HRSA)
- General-purpose steels (quenched and tempered steel, tool steel)
- Non-ferrous metals (brass, aluminium, copper)

Production:

Turning capacities of our lathes: from \varnothing 70 mm to 400 mm

Dimension ranges of our machining centres: up to approx. x: 900 mm, y: 600 mm, z: 500 mm.

Quantity: in the case of prototypes and short production runs, max. 500 units.

Other services:

- Technical advice & support
- Welding, including materials that are difficult to machine, such as Stellite
- Welding procedures analogous to AD 2000 with welding procedure qualification records and acceptance by the German TÜV Safety Inspectorate
- Pressure or leakproof test up to 6 bar under water
- Magnetic particle inspection
- Restamping of metallic materials
- Component assembly

External partners:

- Grinding
- Honing
- Gear manufacture
- Electrochemical surface treatments (galvanising, anodising, chrome plating and many more)
- Laser-cutting
- Heat treatments (hardening, nitriding, tempering etc.).



7. Machine list

CNC lathes

Gildemeister CTX Gamma 1250TC turning & milling centre	Two main spindles with 315 mm collets, 5-axis milling spindle with 120 tool slots, 1 turret with 12 slots for powered tools, 80 bar high-pressure coolant feed Max. turning diameter 700 mm, max. turning length 1250 mm, Renishaw in-process tool gauging in the machine
Gildemeister N.E.F. CT 60	12-position turret, tailstock, 3-jaw chuck max. turning diameter 520 mm, max. turning length 940 mm
Monforts RNC 5	12-position disc turret, powered tools in 12 stations, tailstock Max. turning diameter 315 mm, max. turning length 600 mm
Monforts RNC 4	Tailstock, 2 and 3 jaw collets Max. turning diameter 250 mm, max. turning length 600 mm
Emco Turn 65	12 tool slots, powered tools, C-axis, tailstock, with internal coolant supply Max. turning diameter 310 mm, max. turning length 520 mm
Mazak 250 SQT	Powered tools in 12 stations, C-axis, with internal coolant supply Max. turning diameter 210 mm, max. turning length 600 mm, electronic in-process tool gauging system
Mazak 250 QTN	Powered tools in 12 stations, C-axis, with internal coolant supply Max. turning diameter 210 mm, max. turning length 500 mm, electronic in-process tool gauging system
Mazak Quick Turn Nexus 450 II M	Powered tools in 12 stations, C-axis, tailstock, steady, with internal coolant supply Max. turning diameter 580 mm, max. turning length 2000 mm, electronic in-process tool gauging system

Milling centres

Gildemeister CTX Gamma 1250TC turning & milling centre	Two main spindles with 315 mm collets, 5-axis milling spindle with 120 tool slots, 1 turret with 12 slots for powered tools, 80 bar high-pressure coolant feed Max. turning diameter 700 mm, max. turning length 1250 mm, Renishaw in-process tool gauging in the machine
Heller MC 16	Horizontal, pallet changer, 80 magazine storage slots (chain magazine), with internal coolant supply, 80 bar Working range: x: 630 mm, y: 630 mm, z: 630 mm
Hurco VMX 42	Vertical, 42 tools, with internal coolant supply, Working range: x: 1.060 mm, y: 610 mm, z: 610 mm
Hermle C 40 U	Vertical, tool magazine with 83 tool storage slots, 5-axis processing, with internal coolant supply Working range: x: 850 mm, y: 700 mm, z: 500 mm, clamping area: Ø 600 mm
Hermle C 30 U	Vertical, tool magazine with 32 tool storage slots, 5-axis processing, with internal coolant supply, 80 bar Working range: x: 650 mm, y: 600 mm, z: 500 mm, A-axis +30/-115°, C-axis 360°, clamping area: Ø 550 mm



7. Machine list

Welding machines

Pulsed MIG/MAG welding AMT HYBRID 6000M	Fully electronic welding machine Technical specifications: Wire feed speed = 0.5-20 m/min, solid wire diameter = 0.8-1.6 mm, fluxed core diameter = 1.0-2.4 mm, motor voltage = 42 V, motor rating = 90 W
WIG-Schweißautomat Cloos GL 400 T	mit Reitstockdrehvorrichtung Dalex D-RDV 500 2/2
MAG-Schweißautomat Dalex CGW 306	mit Drehwerk Dalex D-RDVJ 500 1/1
WIG-Schweißanlage Rehm Invertig Pro 240	Schutzgas-Schweißanlage 240 AC/DC Technische Daten: Einstellbereich 3-240 A, max. Leistungsaufnahme 9,3 kVA

Quality assurance

Zeiss Numerex Eclipse 550 3D	3D measuring machine, working range: x: 500 mm, y: 550 mm, z: 580 mm
Dr. Schneider P 300	Profile protractor, max. workpiece weight 20 kg, working range: x: 200 mm, y: 100 mm, z: 100 mm
Karl Deutsch	Magnetic particle inspection
Mahr Perthometer	Roughness testing device
Mahr Digimar 817 CLM	height measuring instrument, measuring range 0 - 600 mm
Keyence XM -1200	image 3D-coordinate measuring machine, series XM Measuring range 600 mm x 300 mm x 200 mm
Keyence IM - 7000	image 3D-coordinate measuringimage dimension measurement system, standard measuring mode: 200 mm x 200 mm (4 x R50), precision measuring mode: 125 x 125 mm machine, series XM Measuring range 600 mm x 300 mm x 200 mm
Mahr MarSurf MarWin	Contour measuring station, MarSurf CD 120

All our inspection, measuring, and test equipment is subjected to regular maintenance (MMME).



7. Machine list

Software	
CAM Programming	Esprit/TNG
ERP System	Fauser JobDispo
Production control	Fauser Core
2D Calculation	Osiris-Calc
3D Calculation	Classmate Cloud
CAQ System	iqs Software
Inspection, measuring, and test equipment (IMTE) management	qmsoft

Miscellaneous	
Röntgen Marking equipment	Electric engraving, lettering also possible for longer items, max. length of marking 150 mm, max. height 300 mm
Amada saw	Max. rod diameter: 280 mm, max. rod length: 7,000 mm
Cleaning equipment	Cleaning equipment for smaller parts, washing medium is Avantin (corrosion protection for up to 6 weeks)

We also have a number of special purpose machinery, bandsaws, hydraulic pressure testing machines, an automated basket washing machine and assembly workstations.



Jamos GmbH

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