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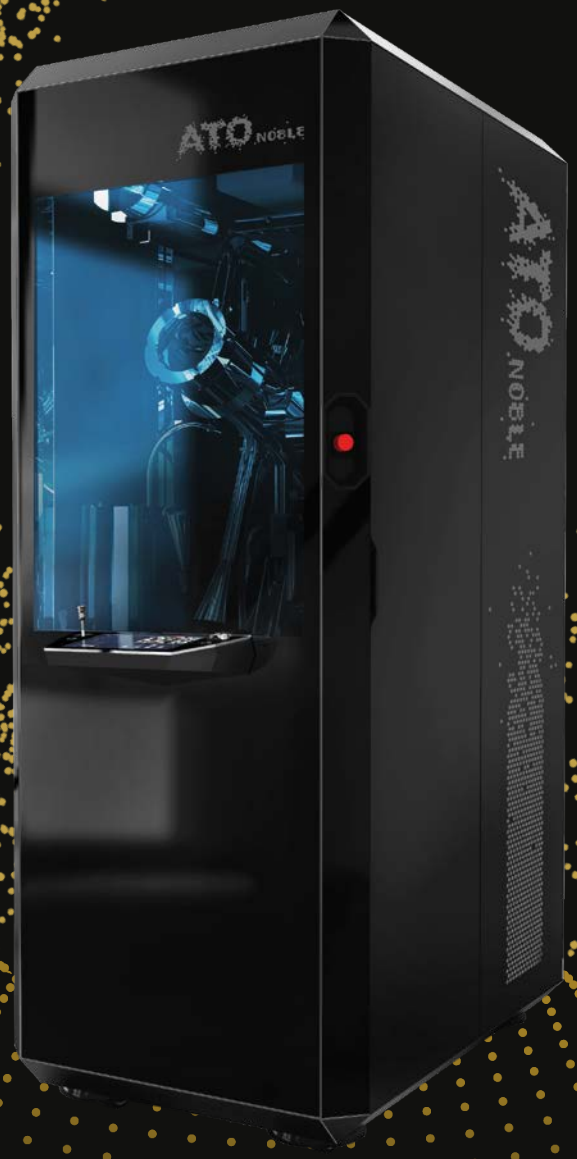
ATO

BY 3DLAB



ATO NOBLE

PRECIOUS METALS POWDER ATOMIZER

MAKE NOBLE POWDER YOURSELF

ATO NOBLE- A NEW DIMENSION OF NOBLE METAL POWDER ATOMIZATION

Based on our extensive experience, we have created a breakthrough solution – ATO Noble for powdering precious metals.

ATO Noble responds to customer's demands for the atomization of expensive and rare metal alloys. The system ensures achieving the highest quality metal powders without limitation of minimum load.

Due to the special design, and precisely calibrated ultrasonic system, ATO Noble is dedicated to atomization of precious materials like gold, silver, platinum, with high yield and maximum material recovery.

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MAXIMUM MATERIAL RECOVERY

We understand the significance of every gram of material. With ATO Noble, our goal was to achieve the highest possible powder flow ratio. We accomplished this by designing the machine for easy access, significantly boosting overall process efficiency.

Utilizing a specialized filtration system enabled us to greatly reduce the loss of precious alloys and streamline their recovery process for future reuse.

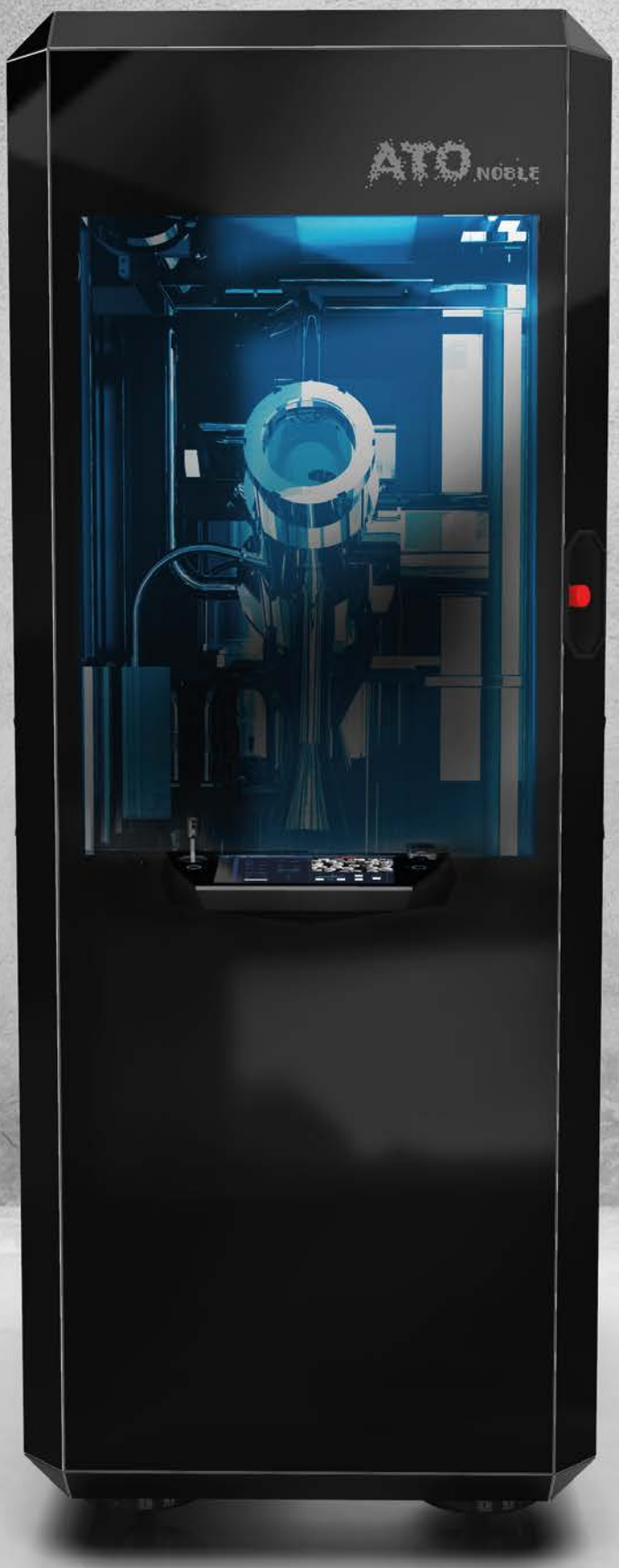
TARGET MARKETS:

- Jewellery
- Healthcare
- Electronic industry
- Aerospace
- Metal processing industry
- Watchmaking
- Additive Manufacturing

KEY FEATURES OF ATO NOBLE:

- Dedicated solution for processing noble metals, e.g. gold, silver, platinum
- Atomization of high density alloys and rare earth metals
- Maximum Material Recovery – machine design allowing for easy access and maximum material recovery
- Dedicated filtration system to minimize material loss and to facilitate its recovery for reprocessing – Zero Loss Technology
- Ultrasonic atomization under atmosphere of argon
- Precise process control thanks to the application of dedicated oxygen sensors
- Compact size
- High quality powders – exceptional flowability, perfect sphericity, and narrow Particle Size Distribution

ATO NOBLE



SPECIFICATION

GENERAL INFORMATION

process	metal powders production
technology	ultrasonic atomization
melting method	TIG / Induction (as module)
sonotrode type	nanoalloy sonotrode
cooling method	liquide
processable materials	Ag, Au, Pt, Pd, Ir and more
powder quality	high flowability, narrow particle size distribution
powder collecting system	cyclone
material form	wire (upgradable)

PARAMETERS

ultrasonic frequency	20 / 35 / 52 kHz (upgradable)
02 level	↓ 10 ppm
system throughput	up to 0,25l/h
machine weight	700 kg
size (HxWxD)	1997 x 813 x 2000 [mm]

REQUIREMENTS

inert gas	argon
cooling	liquide & compressed air
power supply	400V, 10KVA / 3 phase
cleaning unit	ultrasonic cleaner (ATO Clean)
powder recycling system	sieving unit (ATO Sieve)

Manufactured by 3D Lab, distributed in the UK and Ireland by **analytik**.