

ATO NOBLE

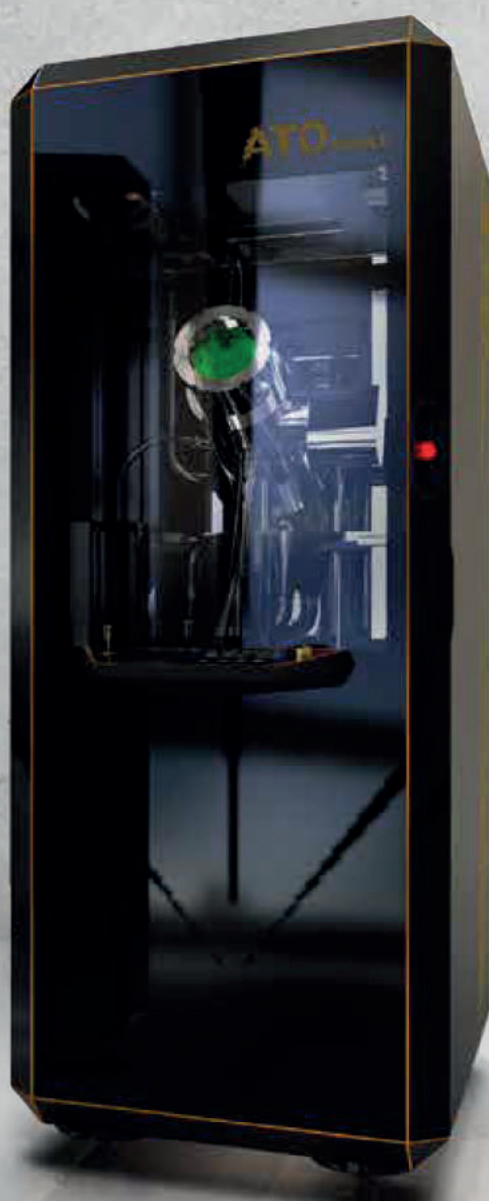


PRECIOUS METALS POWDER ATOMIZER

NECESSITY IS THE MOTHER
OF INVENTION



ATO NOBLE



ATO NOBLE - A NEW DIMENSION OF NOBLE METAL POWDER ATOMIZATION

Based on our extensive experience, we have created a breakthrough solution – ATO NOBLE for noble metal pulverization.

ATO NOBLE responds to customer needs concerning the economic atomization of expensive and rare metal alloys. As there are no limitations concerning the minimum charge and it is easy to change the system over to another material, the cost-efficiency and freedom of the atomization process are ensured.

Due to the application of a precisely calibrated ultrasonic system, we can process such materials as gold, silver, platinum, etc., not worrying about the high loss of the precious raw material.

ZERO LOSS TECHNOLOGY

We are aware that each gram of the material is at a premium. Therefore, when creating ATO NOBLE, we were aiming at obtaining as good powder flow ratio as possible. We have succeeded, and it has directly influenced the efficiency of the whole process. Therefore, we are able to process 100% of the powder to be atomized. In conjunction with a dedicated filtration system, we minimize the material loss of the most precious alloys and we facilitate their later recovery for reuse.

TARGET MARKETS:

- Jewellery
- Healthcare
- Electronic industry
- Aerospace
- Metal processing industry

S P E C I F I C A T I O N

GENERAL INFORMATION

process	metal powders production
technology	ultrasonic atomization
melting method	TIG
sonotrode type	nanoalloy sonotrode
cooling method	liquid
processable materials	Ag, Au, Pt, Pd and more
powder quality	high flowability, spherical particle shape
powder collecting system	cyclone
material form	wire / rod

PARAMETERS

ultrasonic frequency	35 kHz (+ upgrade to higher frequency)
ultrasonic powder	up to 800W
O ₂ level	< 0,1%
plasma current	up to 250A
system throughput	up to 0,3l/h
machine weight	600 kg.
size (WxDxH)	760x1100x2000

REQUIREMENTS

compressed air	4-8 bar
inert gas	Argon
power supply	400V, 20KVA / 3 phase
powder recycling system	sieving unit
water cooling	external chiller

KEY FEATURES OF ATO NOBLE:

- **Dedicated solution for processing noble metals, e.g. gold, silver, platinum, palladium**
- **Processing high density alloys and rare earth metals - density up to 21,500 kg/m³**
- **Increased process yield – 100% of the material processed**
- **Dedicated filtration system to minimize material loss and to facilitate its recovery for reprocessing – Zero Loss Technology**
- **Precise process control thanks to the application of dedicated oxygen sensors**
- **Compact dimensions of the device**
- **High quality powders – exceptional flowability, perfect sphericity, and narrow particle size**

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