

ATO NOBLE



P R E C I O U S
M E T A L S
P O W D E R
A T O M I Z E R

NECESSITY IS THE MOTHER
OF INVENTION



ATO NOBLE



ATO NOBLE - A NEW DIMENSION OF PRECIOUS 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 needs concerning the economic atomization of expensive and rare metal alloys. As there is no limit to minimum load and it is easy to prepare the system for 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 materials such as gold, silver, platinum, etc., not worrying about the high loss of the valuable raw material.


M A X I M U M M A T E R I A L R E C O V E R Y



We are aware that every gram of the material is at a premium. Therefore, when creating ATO Noble, we intended to obtain the best possible powder flow ratio. We have succeeded, and it has directly influenced the efficiency of the whole process. The use of a dedicated filtration system allowed us to minimize material losses of precious alloys below 1% and facilitate their subsequent recovery for reuse.

T A R G E T M A R K E T S:



- Jewellery
 - Healthcare
 - Electronic industry
 - Aerospace
 - Metal processing industry
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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, narrow particle size distribution
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 (delta)	< 150 ppm
plasma current	up to 220A
system throughput	up to 0,25 l/h
machine weight	700 kg.
size[HxWxD]	1997 x 813 x 1533 [mm]

REQUIREMENTS

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



K E Y F E A T U R E S O F A T O N O B L E :

- **Dedicated solution for processing noble metals, e.g. gold, silver, platinum**
 - **Processing high density alloys and rare earth metals**
 - **Reduced losses below 1% of the processed material**
 - **Maximum Material Recovery – dedicated filtration system to minimize material loss and facilitate its recovery for reuse**
 - **Precise process control thanks to the application of dedicated oxygen sensors**
 - **Compact dimensions of the device**
 - **High quality powders – exceptional flowability, perfect sphericity, and a narrow particle size distribution**
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