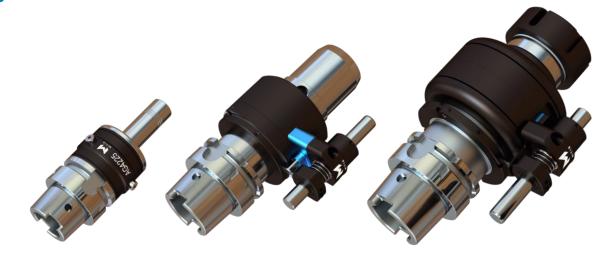


# MITIS PG LINE FOR AUTOMATION

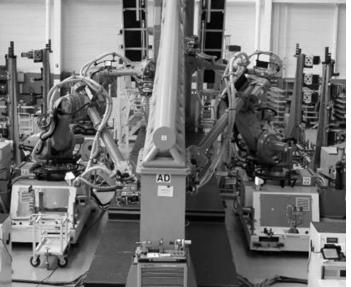


#### **MITIS Vibration tool holders**

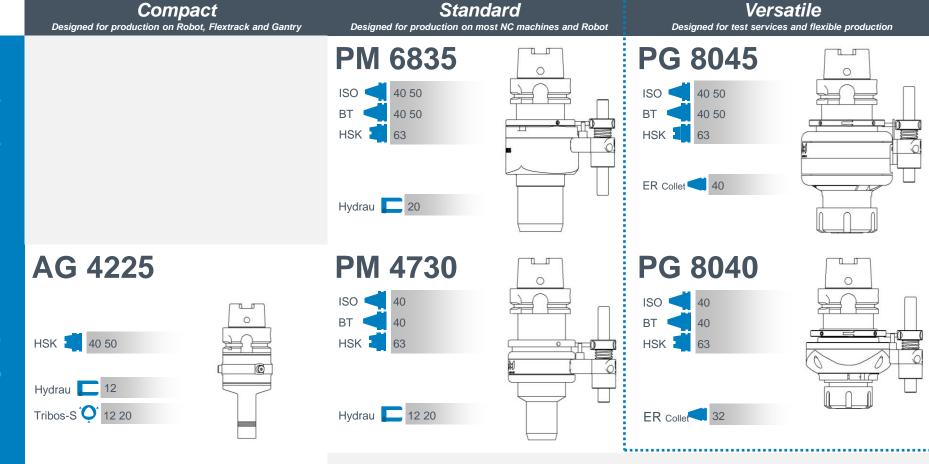
# 3 Product lines AG / PM / PG



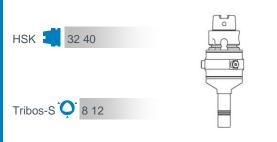






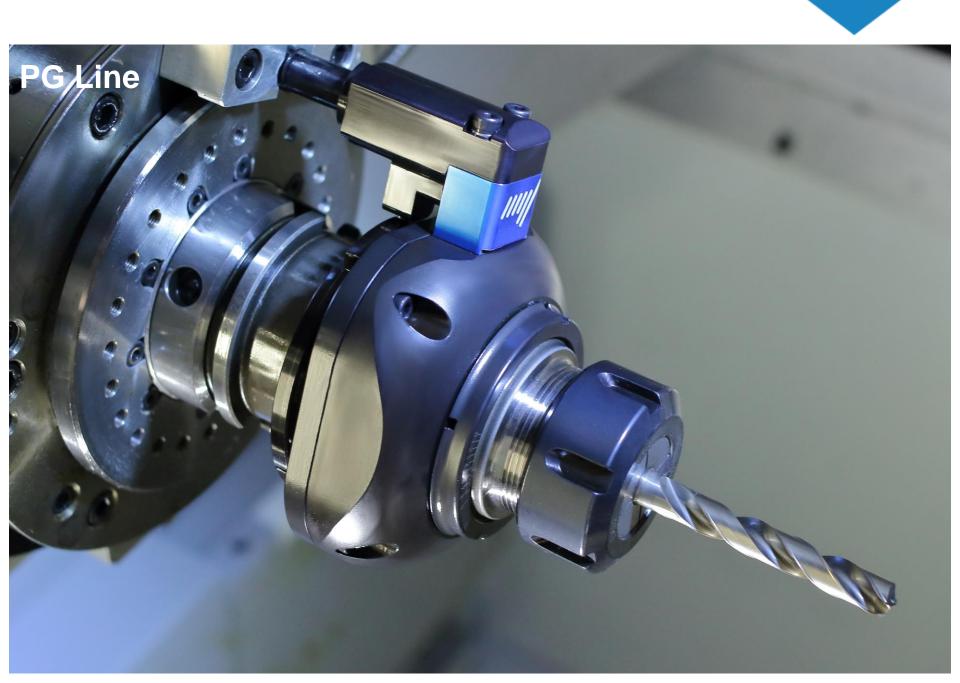


**AG 3017** 



Designed to meet most automation requirements while offering outstanding performances for Aerospace stack drilling

Other tool shanks ant spindle attachments available on demand





#### PG Line Made to Develop

The adjustable and flexible to meet the needs of test and innovation services - R&D/T department; university; toolmaker



#### **Machine**

HSK-63 / ISO 40-50 / BT 40-50



Aerospace Drilling and Countersinking

















#### **Vibration Technology**

Equipped with our mature and adjustable mechanical VAD technology to ensure outstanding performance on aerospace stack drilling applications.







PG Line Made to Develop

#### Benefits proposed

- Cycle time by removing peck drilling cycle and limiting multi-shot processes;
- Reliability by securing chip fragmentation / chip control and drilling temperature;
- Quality by securing hole diameter (Cp > 1,3) and composite integrity while mastering internal / external height burrs to avoid post additional work;
- **Green** by limiting the quantity of lubrication MQL, Air, Dry;
- Sustainable to meet a "One-way assembly process" challenge.



PG8040



PG8045

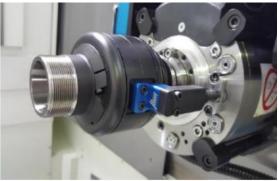


On shelf	HSK-A 63 ISO or BT 40 ER Collet 32	HSK-A 63 ISO or BT 40/50 ER Collet 40
Vibration Technology		Frequency Factory setting* 3 / 5 oscillations Amplitude Adjustable setting* From 0 (No Vibration) to 0,50mm  roposes you the necessary expertise completed flowing to deliver a winning setting solution

Lubrication	Internal lubrication Dry / Air Blast / MQL	
RPM	Max. 8000 if 3 oscillations Max. 5900 if 5 oscillations	Max. 3000
One shot Drilling Ø	Max. Ø12,7mm in Titanium Max. Ø14,1mm in Aluminium	Max. Ø25,4mm

### PG Line Implementation





Plug in as a regular tool holder

Vibration assistance

No additional energy On with RPM turning Off when RPM is stopped



#### **YouTube**

https://www.youtube.com/watch?v=Puwv5oALbvo

Stopper block connection is only required

Simple rotating stop, no additional features

Compatible with automatic tool change

YouTube Mitis tutorial step-by-step process to achieve it safely

# PG Line Implementation



Mitis Question	Customer needs
2 Tapped holes ?	Yes
Depth and M size ?	M8 Depth 10mm
Distance Spindle axis – Tapped hole	82mm

mitis.fr

# Customer experience

#### MITIS provides



## MITIS SAS



Nantes, France

**World Leader in Vibration Drilling Systems** 

7 international patents; R&D 25% of turnover

10 years of Industrialization on Assembly lines











**28000 systems** sold since 2011 - World market





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