

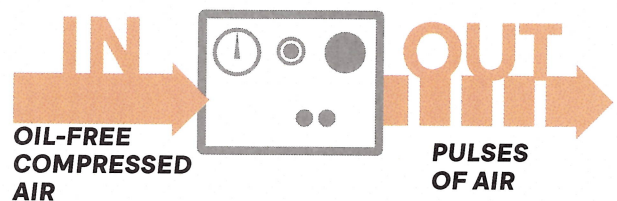
AIR SYSTEMS

WHAT ARE GRS® AIR SYSTEMS?

Air Systems are the control boxes that take in oil-free compressed air and output pulses of air to a handpiece creating a tailored handpiece experience.

THE CONTROL BOX IS THE HEART OF THE GRS SYSTEM, SENDING OUT PULSES OF AIR.

The pulses of air travel to the handpiece where they drive a piston and anvil, enabling the handpiece to hammer and cut.

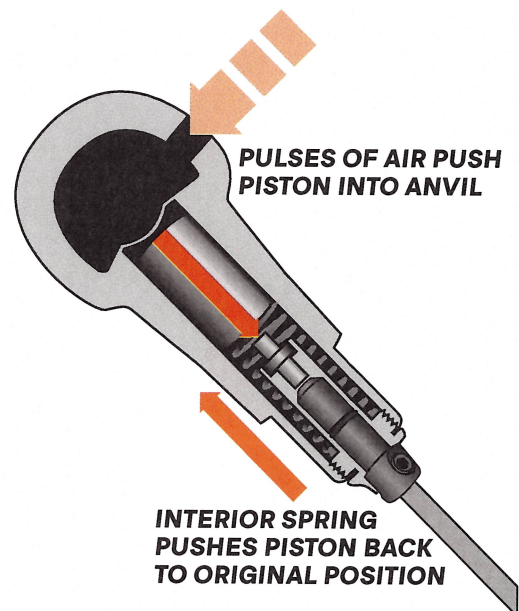


CAN I JUST BUY THE HANDPIECE AND START WORKING?

GRS® handpieces need the pulses of air from the control box to operate. Each individual pulse of air pushes the piston down the inside of the handpiece, and that energy is transferred from the piston to the anvil, QC Holder, and graver.

HANDPIECES ARE LIKE MINIATURE JACKHAMMERS, TRANSFORMING PULSES OF AIR FROM THE CONTROL BOX INTO STRIKES OF THE GRAVER.

Because the pulses of air are so short, the graver can impact metal at a rate of thousands of strokes per minute. It's the impacts of the graver that allow it to cut through metal easily.

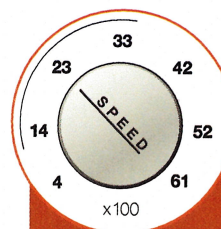


WHAT DOES "SEPARATION OF SPEED AND POWER" MEAN?

An important and unique aspect of GRS® Air Systems is the separation of speed and power. What this means is that when you set the strokes per minute (speed) on the control box, you still have the full range of power at the handpiece either through the foot pedal or Airtact® hand control.

SET THE SPEED ON THE MACHINE. THE AMOUNT OF POWER DELIVERED TO THE GRAVER DEPENDS ON HOW HARD YOU PRESS THE FOOT PEDAL OR AIRTACT® HANDPIECE.

Whether you are digging deep to remove metal or fine shading, the proper amount of power is always available.

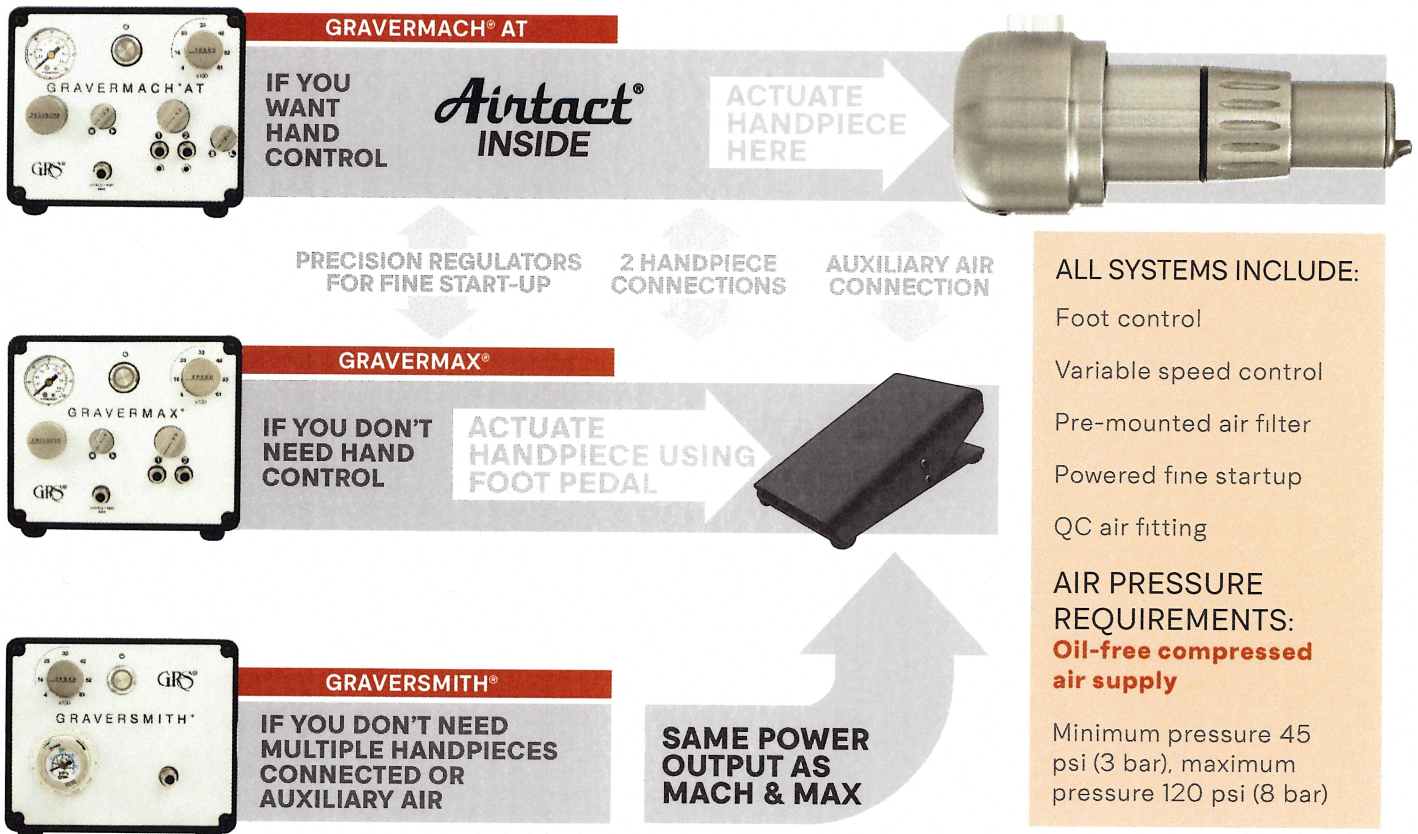


SET YOUR DESIRED SPEED
THEN COMPLETE A
WIDE RANGE OF WORK
WITH NO FURTHER
ADJUSTMENT

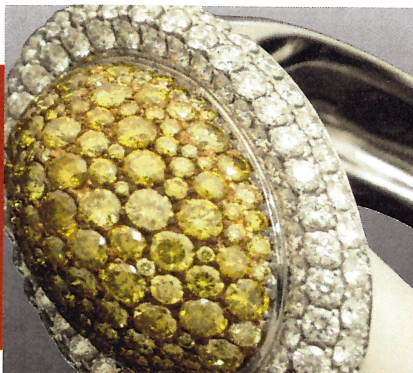


WHICH SYSTEM IS RIGHT FOR ME?

We offer three primary air systems, each with different options and price points. Though there are differences between them, each air system has the same power output and separation of speed and power. See the guide below to explore the differences and find the right system for you.



Work shown below can be done using the same strokes per minute



Alexandre Sidorov



Jake Newell



Jim Finch



A GUIDE TO GRAVER SHAPES

Gravers come in a variety of shapes and sizes. Blanks can be sharpened into any of these shapes.

GENERAL ENGRAVING



Lines & Shading



Borders



Engraving on Inlay



Bulino

◆ V-Point
■ Narrow Bevel
◆ Round Top V-Point
▼ Onglette

Flat
■ Parallel
■ Tapered

Round
● Stepped
■ Tapered

SCULPTING



BACKGROUND REMOVAL



WESTERN ENGRAVING



Bright Cuts



Wriggle Cuts

FLARE CUT ENGRAVING



LETTERING



Script



Block

STONE SETTING



Setting Embellishment



Bead Raising

