

**Only available from EDER-Austria !!!**

## **USP-TWIN**

**First ever Ultrasonic Machine for ND  
+PCD Dies with **2 (!) workstations !****

**Compensating increasingly less available  
human expert skills in die tool processing,  
same time offering up to double potential.**

Nowadays the wire/cable industry is increasingly using multiwire drawing machines with lots of diamond/PCD drawing dies in use, which former or later get worn and – because of their considerable value – need to be reconditioned.

This often causes considerable bottlenecks in existing die-workshops, as there are either simply not enough human experts or only insufficient equipment potential available, sometimes even both.

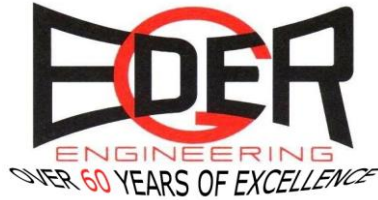
EDER-Austria have therefore designed this sophisticated but easy to operate high efficiency Ultrasonic machine to make the best use of increasingly less available human expert skills in die tool processing and due to its universal application, outstanding capacity and extended workrange, the **USP-TWIN** now is offering up to double efficiency with one only operator !

This advanced EDER-conception, presented at WIRE 010 in Duesseldorf, can be controlled by one single operator only and can handle both small and medium to large die bore sizes simultaneously.

It offers two independent semi-automatic ultrasonic workstations, one for handling the smaller die bore-sizes ( 0.05 - 3.0 mm Ø / .002”-.12” = **UF**) and another one for same time dealing with the medium to large size range (1.0 – 8.0 mm Ø / .040”-.315” = **F**), releasing the die-workshop personnel considerably. Other arrangements are possible too.

The EDER **USP-TWIN** is suitable for profiling, de-ringing, enlarging and polishing of round wire drawing dies made from suitable Natural diamond, Monodies or PCD material within the indicated die bore size ranges. Therefore model **USP-TWIN** is setting new standards for die processing and die repairing workshops now.

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precision die-tools  
diamond working materials

**EDER Engineering GmbH/Ltd.**

Supply of technology and  
equipments for the international  
wire-/cable industry

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### **SEMI-AUTOMATIC DUAL WORKSTATION ULTRASONIC MACHINE**

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#### Main features:

Both workstations have been equipped with an efficient **titanium piezo-ultrasonic head/probe** each, which are perfectly adjusted to  
**a) one UF-150 W** (left side) and **b) one F-300 W** (right side) semiconductor technology-Generator each, with all functions suitably built-in, to ensure optimum and largely automatic operations.  
*(automatic frequency/amplitude control, fail safe systems, advanced pressure setting system, additional power setting etc.)*

Furthermore, the **USP-TWIN** is equipped with two integrated needle reshaping systems, one swinging /swivelling die-turntable and intelligent working pressure setting devices, as well as with one timer for each workstation to limit workcycles as required. Take up devices for standard die-casing dimensions are available too.

#### Electrical supply:

230V +/- 10%, 50/60 Hz, single phase, 2 x 2.200 W (2 x 2,2 kW)  
*(others possible - charged at cost)*

#### Dimensions:

approx. 650 x 400 x 750 MM ( W x D x H )

#### Weight:

appr. 120 Kgs. net

#### Execution:

as per a.m. description. Completely ready for use.