

### MDX-40 optional scanning unit model ZSC-1 **Product Information**















### **Overview**

- ZSC-1 is an optional touch sensor scanning unit for the MDX-40 SRP mill.
- In scanning mode the ZSC-1 replaces the spindle unit.
- Scanning is supported in X,Y and Z axis.
- The sensor unit is based on Roland's proven active Piezo technology
- The software, Dr. PICZA3 and 3D Editor are included with the ZCS-1.



#### Contents



\* A 2.5-mm hexagonal wrench is included with the modeling machine.





# **Scanning process**

- **Position object on scanning bed. Irregular shaped** objects can be support with clay (included in kit)
- Launch Roland scanning software and begin scan, Roland active Piezo sensor probes the object and creates a scan point at each contact point

New

Open..

Save

with the object.









## **Scanning area**

- Scanning area is 12"x12"x2.36" (305x305x60mm)
- ZSC-1 does not support rotary scanning with the 4<sup>th</sup> axis.
- Scanning is supported in the X,Y Z axis only

Scanning area The figure shows the scanning area.







### **Scan samples**



Plane scan X pitch : .003" (.08mm) Y pitch : .003" (.08mm) Width (X) : 1.57" (40 mm) Height (Y) : 1.18" ( 30mm) Z0 bottom : 1.77" 45mm Scan time : 82487 sec. (22:54:47)



Plane scan X pitch : .018" (.48mm) Y pitch : .018" (.48mm) Width (X) : 4.72" (120.00 mm) Height (Y) : 3.54" (90.00 mm) Z0 bottom : 2.16 (55.00 mm) Scan time : 65614 sec. (18:13:34)



Plane scan X pitch : .039" (1 mm) Y pitch : .039" (1 mm) Width (X): 7" (180) mm Height (Y) : 3.54" (90 mm) Z0 bottom : 1.27" (32.40 mm) Scan time : 59676 sec. (16:34:36)





## Conclusion

- Scan unit designed to mount on the Roland MDX-40 SRP mill
- Based on Roland's industry proven active Piezo scanning technology
- Scan area 12" x 12" x 2.36"
- Min scan pitch .002"
- Includes mounting hardware and Dr. Picza 3 scanning software

