Organ Gun
ca. 1620
1 Main Barrel combined with 21 Organ Barrels

in the Stile of the 1 plus 39 Barrels
Organ Gun made by Bendicht, Halbysen located in the Arsenal
Museum of Solothurn

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Original Organ Gun, Solothurn, ca. 1620
Original Organ Gun, Solothurn, ca. 1620
Original Drawing
Original Drawing with Dimensions
Reconstruction of an Organ Gun

in half the Size of the Original in Solothurn
Target of Reconstruction:
Functioning Organ Gun

Proposed Data:

- Total Length: 1750 mm
- Total Width: 775 mm
- Total Height: 830 mm
- Length of Main Barrel: 1100 mm
- Caliber of Main Barrel: 20 mm
- Number of Organ Barrels: 3 x 7
- Length of Organ Barrels: 318 mm
- Caliber of Organ Barrels: 12 mm
Wheels with Axle
Wooden-spoked Wheels
Organ Gun Replica
Wooden-spoked Wheel, 65cm

Scale 1:5
Organ Gun Replica
Axle
Scale 1:5
Organ Gun Replica
Axle Construction
Scale 1:5
Organ Gun Replica
Axle Pipe
Scale 1 : 2
Tapering according to the Bearing of the Wooden-spoked Wheels; Clearance max. 0.5 mm

Hole to be drilled after the installation of the Wheels

Organ Gun Replica
Axle Spigot

Scale 1 : 2
Gun Carriage
Organ Gun Replica
Gun Carriage Assembly

Scale 1 : 10
Organ Gun Replica
Gun Carriage Front Side Boards

Scale 1 : 5
Organ Gun Replica
Gun Carriage Rear Side Boards

Scale 1 : 5
Front Transverse Board
- Spruce Wood
- 1 Piece

Tool Box Transverse Board
- Spruce Wood
- 2 Pieces

Rear Transverse Beam
- Spruce Wood
- 1 Piece

Tool Box Cover
- Breech Wood
- 1 Piece

Tool Box Bottom
- Breech Wood
- 1 Piece

Tool Box Ledges
- 2 Pieces

Organ Gun Replica
Gun Carriage Transverse Boards
- Scale 1 : 5
Organ Gun Replica
Support for Ramrod
Scale 1 : 1
Organ Gun Replica
Location of Metall Fittings
Scale 1 : 10
Front Fittings

Rear Fastening Ring

Base for rear Fastening Ring

Screw Base

Organ Gun Replica
Metall Fittings

Scale 1 : 2
2 Center Fittings

Lock Yoke

Lock Cone

Ramrod Retainer

1 Ramrod Cup

Organ Gun Replica
Center Metall Fittings

Scale 1 : 2
Organ Gun Replica
Cradle Retainer Fitting

Scale 1 : 2
Organ Gun Replica
Wheel Shaft Retainer Fitting
Scale 1:1
Organ Cradle
Organ Gun Replica
Organ Cradle Axle
Scale 1:2
Organ Gun Replica
Locations of Cradle Fittings
Scale 1:5
Headboard Fittings, Front

Headboard Fittings, Side

Organ Gun Replica
Cradle Metall Fittings
Scale 1 : 2
Fitting for Central Barrel

Cone Yoke

Chain Lug

Organ Gun Replica
Cradle Metall Fittings

Scale 1 : 2
Locating Pin

Locating Spring

Locating Handle

Locating Base

Organ Gun Replica
Locating Mechanism Components

Scale 1 : 1
Central Barrel
Target:
The cradle must be turnable into an upright position to allow an easy loading of the barrels with blackpowder and lead balls.
Precision Teel Pipe

52.0/S355J2H, D 42.0 x 20.0, s11,
Organ
Target:

The organ housing must be turnable with the cradle

Organ Gun Replica
Study Turnable Organ Housing

Scale 1 : 2
Blocking hole of cradle and organ housing must be drilled in combination.
Organ Gun Replica
Study Organ Barrel in Organ Housing
Scale 1 : 2
Precision Steel Pipe
25.0 x 12.0, S6.5 En 10305-1

Organ Gun Replica
Organ Barrel
Scale 1 : 2

Barrel End Screw
Organ Gun Replica
Organ with 21 Barrels
Scale 1 : 5
Diameter in front plate must be corresponding to diameter of main barrel

Barrel holes in front plate must be drilled together with holes rear plate

Organ Gun Replica
Organ Front Plate

Scale 1 : 2.5
Barrel holes in rear plate must be drilled together with holes front plate.

Hole in rear plate must be drilled together with hole in cradle.

Diameter in rear plate must be corresponding to diameter of main barrel.

Organ Gun Replica
Organ Rear Plate

Scale 1:2.5
Organ Housing Outside Board

Organ Housing Corner Board

Organ Gun Replica

Organ outside and corner boards

Scale 1 : 2.5
Burnished Steel

Organ Gun Replica
Organ Flash Channel

Scale 1 : 5
Short Ignition Piston

Spacer Nut

Long Ignition Piston

Spacer Bushing

Organ Gun Replica
Organ Ignition Pistons

Scale 1 : 1
Organ Gun Replica
Organ Locations of Fittings

Scale 1 : 5
1 Front Fitting
Burnished Steel, 3 Pieces

2 Rear Fitting
Burnished Steel, 3 Pieces

3 Center Fittings of Rear Plate
Burnished Steel, 3 Pieces

4 Corner Fittings of Rear Plate
Eisen, brüniert, 3 Stk

5 Washer for Main Barrel
Burnished Steel, 21 Pieces

Organ Gun Replica
Fittings for Organ Housing
Scale 1 : 2
Organ Gun Replica
Side View of Organ Gun
Scale 1 : 10

Organ
Mai Barrel
Cradle
Carriage
Wheels
Organ Gun Replica
Elevation Studies

Scale 1 : 10

1 Horizontal Elevation
2 Maximum Elevation
3 Minimum Elevation
Organ Gun Replica
Elevation Studies

Scale 1 : 5

- Horizontal Elevation
- Maximum Elevation
- Minimum Elevation
Support Board
Bruce Wood
1 Piece

Side Plate
Steel
2 Pieces

Organ Gun Replica
Support for Elevation Wedge
Scale 1 : 2
Organ Gun Replica
Elevation Wedge

Scale 1 : 2
Rear Half of Ramrod

Front Part
- Iron burnished
- 9, 63, 15, 18

Middle Part
- 25, 35, 15, 20

Middle Part
- Iron burnished

Front Half of Ramrod

Rear Part
- Iron burnished
- 18, 20, 15

Middle Part
- 25, 35, 15, 20

Middle Part
- Iron burnished

Organ Gun Replica
Ramrod

Scale 1 : 2
Main Barrel Support A
Oak, 2 Pieces

Main Barrel Support B
Oak, 2 Pieces

Main Barrel Support C
Oak, 2 Pieces

Blocking Wedge
Oak, 1 Piece

Support vor Organ Housing
Bruce Wood, 1 Piece

Use of Organ Accessories
1 Main Supports A underneath front an rear barrel
2 Main Supports B underneath front an rear barrel
3 Main Supports C underneath front an rear barrel
4 Supports for Housing underneath Organ Housing
5 Remove Main Barrel
6 Remove Organ Housing

Organ Gun Replica
Accessories for Organ Removal

Scale 1 : 2
Organ Gun Data:

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Organ Gun Replica

Assembly Drawing of Organ Gun

Scale 1 : 10
Completed Replica Organ Gun
Replica Organ
Replica Organ Gun, Front View
Replica Organ Gun, left Side
Replica Organ Gun, right Side
Replica Organ Gun, rear Side
End