

TECHNICAL SPECIFICATIONS

Radial Forging Machine GFM SX-32

The main equipment includes:

- Manipulator A
- Manipulator B
- GFM 32 forging machine
- N° 2 loading and unloading clamps
- Transport roller track

Technical data:

- No. of forging hammers: 4
- Forging pressure of each hammer: 500 Mp = 5,000 bar
- N° of strokes for each hammer: 310 strokes/min
- Rated power each forging motor: 2 x 250 kW
- Hydraulic pump motor power: 100 kW
- Loading - unloading pincers motor power: N° 2 x 37 kW
- Hammer length: 480 mm
- Maximum raw piece diameter: 320 mm
- Max hammer adjustment area: 210 mm
- Largest forging diameter:
 - Non-alloyed and low-alloy construction steel: 320 mm/Ø 290 mm/Ø
 - Biggest clamping diameter in clamping head: 320 mm
 - High and special-alloyed steels: smaller dimensions
- Max workpiece length: 3000 mm
- Rapid traverse speed of clamping heads: 500mm/sec
- Manipulator gripping stroke: A 3,800 mm
- Manipulator gripping stroke: B 4.400 mm

- Cooling water consumption: 70 m³/h
- Cooling water pressure: 3 – 5 bar
- Max compressed air pressure: 5 bar
- Compressed air consumption: 2 Nm³/min
- Forging axis pass line from zero plane: 600 mm

Overall dimensions:

- Machine height from zero floor: 2,700 mm
- Forge height over floor: 600 mm
- Total foundation length: 27,500 mm
- Total foundation width: 16,800 mm
- Weight: 272.200 Kg

Manipulator A:

- Manipulator weight ~ 17.000 Kg
- Max stroke: 3,800 mm
- Current stroke: 1,900 mm
- Actuator cylinder diameter: 250 mm
- Length: 5,090 mm
- Manipulator support structure weight: ~ 9.500 Kg
- Manipulator support dimensions: 6,500 x 1,350 x H 735 mm
- Manipulator dimensions with arm: 4.200 x 1.350 x H 1.500 mm

Manipulator B:

- Manipulator weight: ~ 17.000 Kg
- Max stroke: 4.400 mm
- Currently stroke: 2,200 mm
- Actuator cylinder diameter: 250 mm
- Length: 5,690 mm
- Manipulator support structure weight: ~ 10.000 Kg

- Manipulator support dimensions: 7.100 x 1.350 x H 735 mm
- Manipulator dimensions with arm: 4.200 x 1.350 x H 1.500 mm

Hammer holder structure:

- Weight: ~ 47.000 Kg
- Dimensions: 4,000 x 3,600 x H 1,305 mm

Reducer structure:

- Dimensions: 3,980 x 3,580 x H 580 mm