

For more information on this product and on our complete package of solutions please contact our local service center :

VESUVIUS GROUP, S.A.

Rue de Douvrain, 17
7011 Ghlin, Belgium
Tel: +32 65 400 810
Fax +32 65 311 474
e-mail: gh@vesuvius.com

VESUVIUS USA CORP.

1404 Newton Drive
Champaign, IL 61822
USA
Tel: +1 217 351 5000
Fax: +1 217 351 5031

VESUVIUS ADVANCED CERAMICS (SUZHOU) CO., LTD

221 Xing Ming Street
China-Singapore Suzhou Industrial Park
Suzhou 215021, JiangSu Province
P.R. of China
Tel.: +86 512 6741 2088
Fax: +86 512 6741 1700

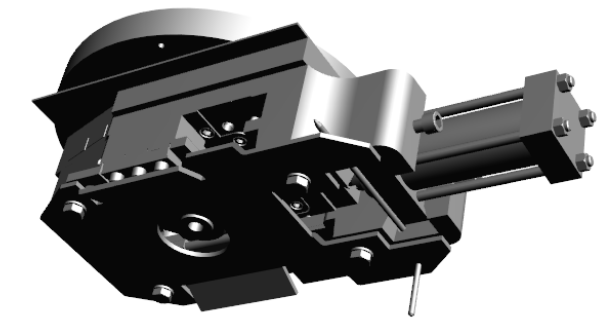
VESUVIUS REFRATARIOS, LTDA

Av. Brazil 49.550
Distrito Industrial de Palmares
CEP '23065-480-Campo Grande
Rio de Janeiro , Brazil
Tel: +55 21 2414 0606
Fax: +55 21 2414 0648

VESUVIUS INDIA LTD

P 104, Taratolla Road
700088 Calcutta, India
Tel: +91 33 240 10 234
Fax: +91 33 240 11 235

VESUVIUS reserves the right to modify and/or improve the equipment as described and specified in this leaflet, at any time according to the state-of-art. SYS120 – patent applied for in various countries.
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Nozzle Changer

The SYSTEM 120 is a user friendly and safe nozzle changing device available for billet, bloom and beam blank casters



SYSTEM 120 features:

- Reduced tundish costs (refractory, manpower, energy)
- Increased casting yield
- Increased caster utilization
- Improved operational safety

Productivity

- Extended sequence length per tundish
- Less tundish changes
- Higher average casting speed

Flexibility

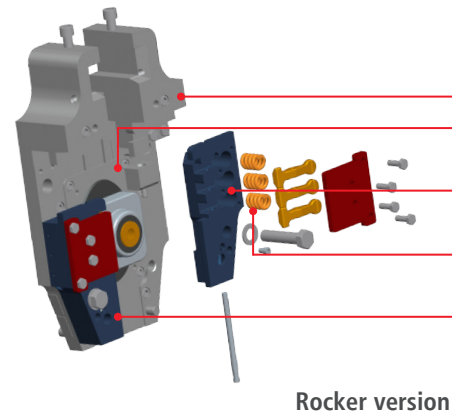
- Change of nozzle diameter and/or casting speed whenever required
- Cast interrupt/restart of individual strands on demand

Reliability

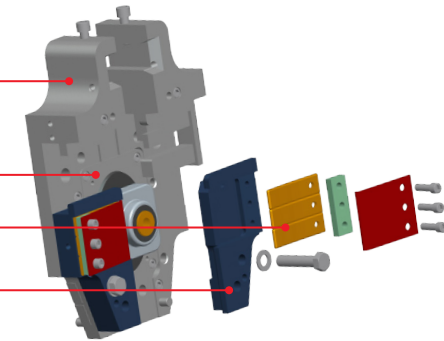
- Easy and safe operation
- Safe Nozzle exchange in < 0.2 sec.
- Safe emergency shut off by stand-by blank plate

Design

- Sturdy main frame remains attached to the tundish
- Clamp ring for Top Plate / Well Nozzle
- 3x2 individual spring loaded rockers provide constant clamping force between nozzle plates
- High temperature resistant springs
- 3x2 individual spring fingers provide constant clamping force between nozzle plates
- Easy removable spring housing assembly (remove for installation of Top Plate / Well Nozzle)



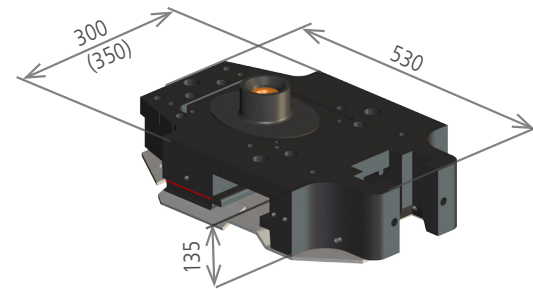
Rocker version



Spring Finger version

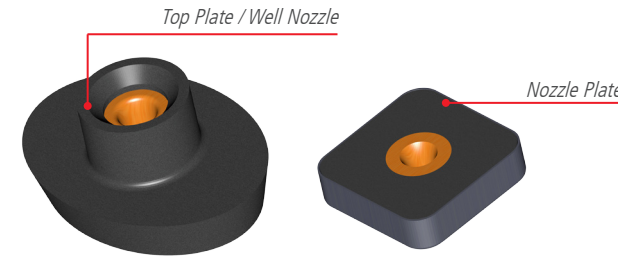
VESUVIUS SYSTEM 120 Nozzle Changer

TYPE	TYPICAL BORE (mm)	STROKE (mm)	DIMENSIONS (mm)	MECHANISM WEIGHT (Kg)
Rocker version	12 to 25	120	530 x 300 x 135	62
Spring Finger version	12 to 25	120	530 x 350 x 135	68

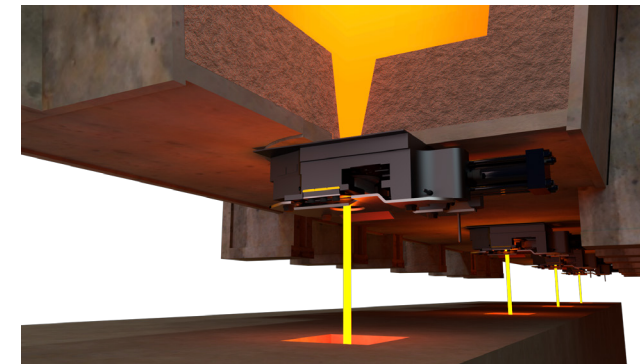


Refractory components

- Top Plate / Well Nozzle plate designed for long sequence casting beyond 50 hours
- Top Plate / Well Nozzle is installed / removed by means of the tundish tilter



The SYSTEM 120 is available with left or right side nozzle plate loading

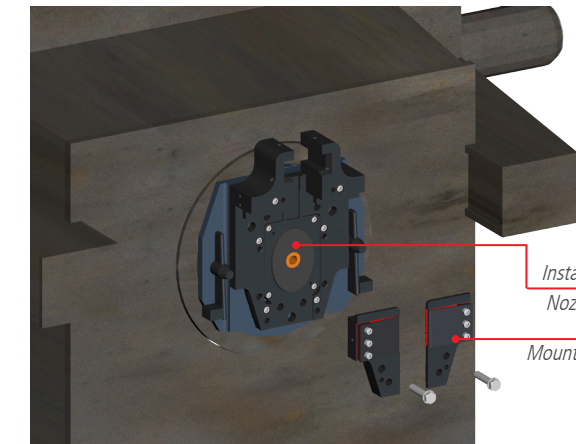


SYSTEM 120 Tundish Installation

User friendly tundish preparation

Fast refractory setup, easy mounting and removal from the tundish.
Fast check of springs by off-line spring tester.
No need of base frame removal during tundish preparation.

- Tundish rotator facilitates the installation / removal of the refractory
- Light weight spring housings do not require additional handling equipment
- Only 1 (one) fixation bolt each spring housing
- Top Plate / Well Nozzle removed with steel skull
- Self-alignment of refractory components
- Well zone in tundish lining completed by ramming material & fixture



Install Top Plate/Well Nozzle by clamp ring
Mount spring housings