Linatex Asia

LINATEX MALAYSIA
Commercial Division – ASIA
Linatex Rubber Products
6 Mile Jalan Ipoh, 68100 Batu Caves, Selangor, Selangor, Darul Ehsan, Malaysia
Phone: 0011 60 3 6251 2195
Fax: 0015 60 3 6255 2173

LINATEX CHINA
Room 3101 New Town Centre
No 83, Louthangguan Road
Shanghai 200336
People’s Republic of China
Phone: 0013 1 480 23 2391
Fax: 0015 1 480 733 2918
Mobile: 0011 600 418 9848

Linatex North America

TENNESSEE - HEAD OFFICE
1550 Airport Road, PO Box 899
Gallatin Tennessee 37066, USA
Phone: 0011 1 615 230 2100
Fax: 0015 1 615 230 2109

ARIZONA
1616 East Main Street, #207C,
Mesa, Arizona 85202, USA
Phone: 0011 1 480 733 2391
Fax: 0015 1 480 733 2918

Linatex South America

CHILE
Santa Catalina de Chena 850
Parque Industrial Estrella Del Sur
San Bernardo, Santiago, Chile
Phone: +56 2 447 9400
Fax: +56 2 447 9508

SOUTH AFRICA
Linatex Africa (Pty) Ltd
PO Box 122793, or Fuchs Street, Airode 1451,
Gauteng, South Africa
Phone: 0011 27 11 617 4800
Fax: 0015 27 11 908 1644
Head Office
Fax: 0015 27 11 908 1644
Process Equip.
Fax: 0015 27 11 908 5518
Rubber/Pumps

Linatex Australia

MELBOURNE - HEAD OFFICE
Suite 7, 61-63 Camberwell Road
Hawthorn East, VIC 3123
Phone: 03 9834 7400
Fax: 03 9834 7405

DANDE NANG
23 Quality Drive
Dandenong, VK 3175
Phone: 03 9706 6575
Fax: 03 9706 6575

DA RWIN
2/15 Griffin Crescent
Winnellie, NT 0820
Phone: 08 9984 4931
Fax: 08 9984 3032

TOWNSVILLE
Lot 3, 694 Ingham Road
Mt. St. John, QLD 4814
Phone: 07 4758 6100
Fax: 07 4758 6111

PERTH
36-36 Whitton Road
Canning Vale, WA 6155
Phone: 08 9256 8300
Fax: 08 9265 9300

KALGOORLIE
2/15 Graffin Crescent
Kalgoorlie, WA 6430
Phone: 08 9021 0266
Fax: 08 9021 0277

All product design, dimensional and general information contained in this catalogue is subject to change without notice. Linatex strongly recommend consultation with Linatex staff before purchase to ensure the correct equipment is chosen. All process equipment should be used for its intended designed purpose only. Failure to follow procedure for selection, installation, use, maintenance, storage and handling may result in premature failure and may result in damage to property and/or serious injury. Linatex standard terms and conditions of sale will apply.

There is no equivalent
www.linatex.com

Linapump IIIr
Centrifugal Slurry Pumps
**Introduction**

The Linapump IIIr is the latest generation of our successful abrasion/corrosion-resistant slurry handling pump and combines effective gland sealing with good hydraulic efficiency.

**Design Specifications and Options**

Linapump IIIr standard casing is designed for a maximum working pressure of 10 bar. Higher pressure casings are available for series pumping. Please contact Linatex for higher pressure applications.

Suction and discharge flanges are universal and available in metric BS4504 and ASA150 drilling patterns as standard. Other drilling patterns are available to order. Orientation of discharge to 4 positions according to installation requirements.

The Linapump IIIr range of pumps is designed and manufactured in accordance with appropriate International Quality Standards, such as ISO9000.

**Technical Data**

### Design Specifications and Options

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### Table of Dimensions

| PUMP SIZE (mm) | A | B | C | D | E | EI | F | G | H | K | L | M | Q | R | T | W | W |
|----------------|---|---|---|---|---|----|---|---|---|---|---|---|---|---|---|---|---|---|
| 35 x 35        | 142 | 87 | 137 | 224 | 49.5 | 310 | - | 46 | 76 | 725 | 125 | 20 | 285 | 250 | 216 | 40 | 165 | 220 |
| 50 x 50        | 156 | 92.5 | 152 | 224 | 49.5 | 310 | - | 46 | 76 | 725 | 125 | 20 | 285 | 250 | 216 | 40 | 165 | 220 |
| 60 x 60        | 326 | 120 | 180 | 200 | 85 | 355 | - | 50 | 120 | 915 | 168 | 30 | 360 | 300 | 295 | 45 | 250 | 310 |
| 100 x 100      | 440 | 132 | 169 | 200 | 85 | 355 | - | 50 | 127 | 998.5 | 184 | 30 | 400 | 336 | 324 | 40 | 272 | 372 |
| 150 x 125      | 658 | 215 | 234 | 245 | 100 | 479 | - | 100 | 189 | 1286 | 210 | 30 | 480 | 390 | 368 | 65 | 340 | 440 |
| 200 x 150      | 736 | 217.5 | 223 | 245 | 100 | 479 | - | 100 | 194 | 1416 | 210 | 30 | 480 | 390 | 368 | 65 | 340 | 440 |
| 250 x 200      | 1320 | 300 | 270 | 579 | 108 | 330 | 30 | 200 | 1600 | 324 | 40 | 460 | 550 | 406 | 90 | 438 | 565 |
| 300 x 250      | 1596 | 317.5 | 285 | 602.5 | 100 | 330 | 30 | 70 | 200 | 1697.5 | 368 | 40 | 570 | 600 | 483 | 100 | - | - |
| 350 x 300      | 1796 | 329 | 329 | 651 | 100 | 330 | 30 | 93 | 200 | 1752 | 441 | 40 | 770 | 650 | 560 | 110 | - | - |

**Notes:**
- MASS (kg)
- Dimensions in mm
- Impeller: Thick, hydrodynamically efficient Linatex rubber over steel reinforcement gives optimum performance.
- Outer Casing: Rigid casing design facilitates ease of field liner replacement.
- Suction Bush Liner: Simple, easy to replace high quality Linatex rubber bush on 150 x 125 upwards.
- Casing Liners: Field-proven Linatex abrasion and corrosion-resistant rubber liners moulded over steel reinforcement give maximum wear life. Alternative rubber compounds available for pumping oil, chemicals, food products and higher temperature slurries. Bolt-in design facilitates simple site replacement.
• Increased wear life with Linatex rubber  
• Thicker rubber at recognised areas of wear  
• Unique, reliable energy efficient gland sealing system  
• Simple mechanical design for easy maintenance  
• Low cost gland parts  
• Low energy consumption  

Results in lowest total whole life operating cost.

‘D’ - Dry Gland
Unlike conventional mechanical seals, the Linatex dry gland has a stationary hard wearing face flexibly held against the Linatex rubber rotating ring. Any particle getting between the faces is absorbed into the Linatex rubber. This seal absorbs little energy and requires no external lubrication. It is particularly recommended where the use of gland water is undesirable.

‘H’ - Hydrostatic Gland
With lowest maintenance and longest life, the unique Linatex rubber gland seal is designed to deflect inwards to provide an effective seal. A clean water supply of 0.2 bar above pump discharge pressure is required with a flow of between 0.04 and 0.15 litres per second, depending on pump size.

‘P’ - Packed Gland
Sealing is obtained by compressing the gland packing rings onto the shaft sleeve. The gland offers the capacity to seal the pump even at high pressures, for instance in series pumping. A clean water feed or grease is essential to lubricate the packing to sleeve interface to provide additional cooling.
Total Service

From design to installation and beyond, Linatex engineers are available to give advice on your slurry pumping needs and problems. We’ve been in the business of designing and manufacturing pumps for over 60 years and our collective experience in abrasive slurry handling is second to none.

The Linapump IIIr range has been designed to offer a wide choice of pump sizes to suit most slurry pumping applications. The selection chart below demonstrates the coverage of Linapump IIIr performance over a range of flow rates and total heads. A standard questionnaire is available to ensure that the most complex installation, as well as the more straightforward pumping application, receives individual consideration.

Linatex can also advise on the ancillary components within the pumping system. The provision of abrasion resistant low head loss valves, sumps, priming devices and flexible bends incorporating Linatex linings for trouble-free life, are an important aspect of ensuring a totally successful pump installation.

Linapump IIIr Selection

The importance of selecting the correct size and type of Linatex slurry pump cannot be overstated. Selection is based on analysing a number of factors which, when considered in total, determine the pump’s performance for a given installation and duty.
The principal factors which affect the pumpability of solids in suspension are:

- The amount of dry solids and their density.
- The density of the carrying liquid.
- The maximum particle size and representative size distribution.
- The shape of the particle.
- The discharge pressure.

In addition, other parameters such as pipe layout, suction conditions and friction losses relating to pipework and fittings must also be considered in the calculation. Linatex can advise on these aspects of your slurry system.

**Pumptec: Computer Aided Support**

To complement and facilitate optimum selection of your slurry system, Linatex has developed "Pumptec." This unique computer programme, available for use on a personal computer, allows the operator to:

- Calculate the pump duty and select a pump and drive.
- Analyse the effects of changing slurry density.
- Calculate the pump de-rating for slurry mixture.
- Calculate setting velocities of various slurries and select pipe sizes.
- Calculate pipeline frictional losses in various pipe materials and pipe fittings.
Equally suitable for handling abrasive slurries or combinations of abrasives and corrosive solutions, Linatex pumps will solve pumping problems outside the scope of metal and other types of pumps.

The following list gives but a few of the many duties for which Linatex pumps have been used.

- **Sand plants**
  Feeding sand and water to all types of classification and dewatering plants; effluent water transfer duties.

- **Coal preparation plants**
  For dense medium circuits; feeding hydrocyclones; filtrate pumping; handling the underflow from thickeners; disposal of washer effluent, etc.

- **Chemical works**
  Linatex pumps, by virtue of their rubber linings, are suitable for pumping many chemical solutions, acid or alkaline, at moderate temperatures and for the disposal of effluent.

- **Cement manufacture**
  Slurry feed to tube mill circuits; thickener feed and underflow; flotation plant circuits.

- **Metalliferous mining**
  Mill circuits; feeding hydrocyclones; cyanide plant filter residues; concentrates; tailings disposal and other pulp and slurry handling duties.

- **Irrigation schemes and Dredging**
  Silt removal in dams and canal sand traps.

- **Paper mills**
  China clay slurries; paper stock; effluent disposal.

- **Steel works**
  Pickling acid distribution circuits in plate and wire de-scaling plants.

- **Power stations**
  Boiler house ash disposal; de-scaling plants.

- **China clay works**
  Feeding slurry to hydrocyclones and for general use in the preparation of china clay.

- **Glass works**
  Feeding polishing media; sand plants; handling effluent.

- **Water Treatment**
  Feeding sand and water to all types of classification and dewatering plant.

- **Vegetable washing**
  Feeding sand and dirty water to all types of classification and dewatering plants, effluent water transfer.
Technical Data

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Introduction

The Linapump IIIr is the latest generation of our successful abrasion/corrosion resistant slurry handling pump and combines effective gland sealing with good hydraulic efficiency.

Casing Liners

Field proven Linatex abrasion and corrosion resistant rubber liners moulded over steel reinforcement gives maximum wear life. Alternative rubber compounds available for pumping oil, chemicals, food products and higher temperature slurries.

Bolt in design facilitates simple site replacement.

End elevation

Side elevation

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Suction Bush Liner

Simple, easy to replace high quality Linatex rubber bush on 150 x 125 upwards.

Impeller

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