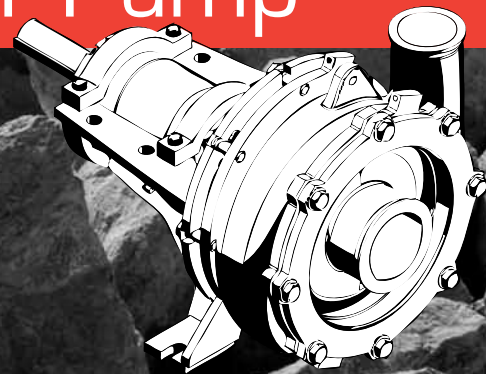


# Linatex CT Pump





The **Linatex CT Pump** brings together our global experience to deliver you a locally serviced, readily available metal slurry pump.

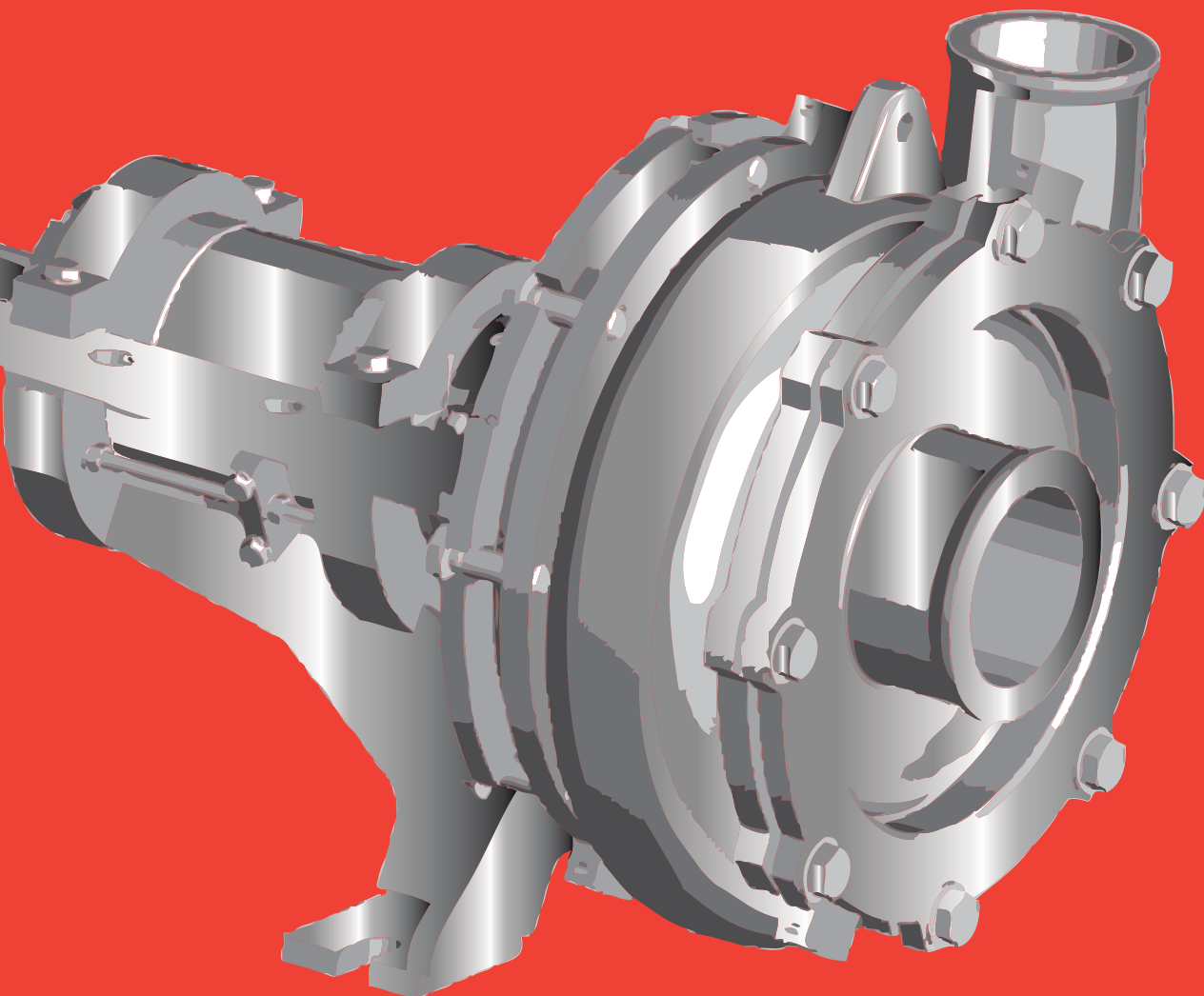
# Linatex CT Pump

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

Linatex pumps have traditionally generated value by combining the extreme wear properties of our proprietary Linatex red rubber with efficient hydraulic designs to provide pumping solutions that demonstrate the lowest total cost of ownership in operation. The **Linatex CT Pump** is a modern range of high efficiency hard metal pumps that builds on these values.

Predominantly targeted at larger particle size and high head applications, the high chrome construction of the **Linatex CT Pump** impeller and casings offer excellent abrasion resistance in the most challenging environments. The operational performance of the **Linatex CT Pump** has been proven in many field trials and site installations.

The Linatex expanded global presence and distribution network means that we are able to deliver locally serviced product across all continents.



## LINATEX CT PUMP TECHNICAL DESCRIPTION

Minimum hardness of 600 BHN

### Application Considerations

- 16 bar (232 psi) standard casing
- Minimum 40,000hr bearing life ('L10 bearing life)
- Shaft deflection: 250um (10thou)
- Impeller tip speed: 50m/s (165ft/s)
- Total head of 130m (430ft) (single stage)
- Bearing case velocity: 13m/s (43ft/s)

### LINATEX CT PUMP DESIGN FEATURES

Allowing maximum customisation to each process challenge, the **Linatex CT Pump** range is a modular construction, designed to maximise the number of wet ends using the same bearings and drive arrangements, thereby minimising spares requirement.

#### Robust Construction

All wear items are of high chrome construction with a minimum hardness of 600 BHN, offering excellent wear and corrosion resistance. In addition, the thick section casings enable the **Linatex CT Pump** to operate up to a 16 bar working pressure.

A combination of the oversize shaft, heavy duty bearing configurations and minimum impeller overhang mean that the pump can operate with minimum shaft deflection at maximum load.

Bearing life is optimised through the use of double lip seals on the bearing cartridge, offering superior protection from slurry ingress.

#### Replaceable Suction Door

The incorporation of the replaceable suction door in the suction side casing design means that this higher wearing component can be replaced without incurring the cost of replacing the complete casing. This ensures that, even in the harshest of processing environments, the economies of the processing circuit can be maximised, giving increased durability, resulting in lower overall lifetime costs.

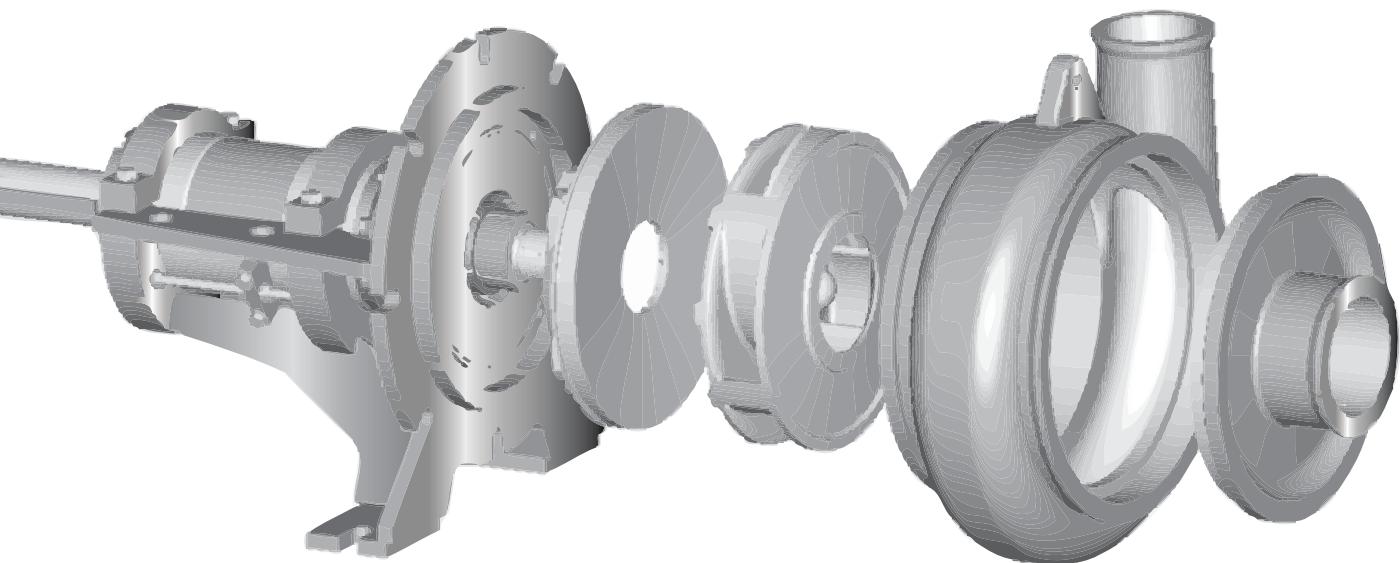
#### Impeller Options

The importance of selecting the most appropriate impeller in terms of size and type cannot be overstated.

Various impeller designs are available to suit particular applications from closed solid handling impellers to semi-open or induced flow impellers for larger particle solids handling applications.

The most popular designs are;

- Standard closed impellers
- High head impellers





# Linatex CT Pump

## Case Orientation

The case orientation of the **Linatex CT Pump** range can be set at the discharge angle required to suit the installation configuration.

## Gland Sealing Arrangement/Design

Depending on the application requirements, options available include:

- Expeller seal (no external gland water required).
- Low flow, full flow and minimum flow packed glands.
- Single and double mechanical seals.

## Pull-Out Design

Designed for both ease and cost efficient maintenance, the pump includes:

- Back pull-out design allowing removal of the rotating element without disconnecting suction and discharge pipework.
- Front pull-out design allowing replacement of the impeller and suction door without disconnecting the discharge pipework.

## Impeller Adjustment for Sustained High Efficiencies

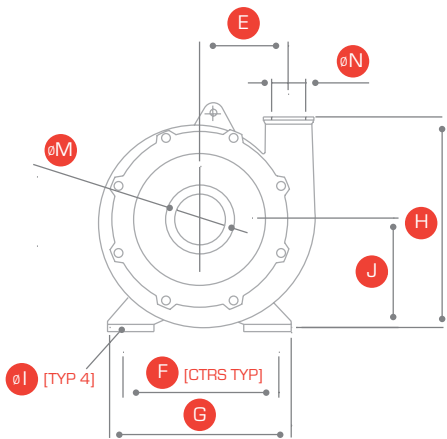
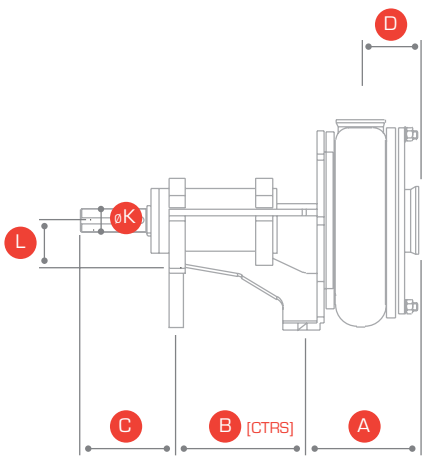
Impeller clearance can be externally adjusted to achieve optimum front clearance between the impeller and the suction door for the full working life of the wear components. This maintains the efficiency of the pump.

## Matched Hydraulic for Even Wear

The thickness and profile of the various wear components has been engineered to ensure that, within reason, all mating components reach the end of their useful life at the same time, enabling maintenance overhauls to be undertaken to a predictable and cost effective schedule.



# Linatex CT Pump



## LINATEX CT PUMP SELECTION

The **Linatex CT Pump** range has been designed to offer a wide choice of pump sizes to suit most solids handling applications, offering significant efficiency improvements over other pumps. The range includes these sizes, all with the choice of the two impeller designs:

- Linatex CT Pump G4 50/32
- Linatex CT Pump G4 100/75
- Linatex CT Pump G4 150/100
- Linatex CT Pump G4 200/150
- Linatex CT Pump G4 250/200

The **Linatex CT Pump** performance over a range of flow rates and total heads is achieved through selection of the appropriate design and size. Every selection is checked, including radial and axial loadings, wet-end and dry-end bearing life, and shaft deflection.

Sophisticated selection software is used to ensure that the most complex installation, as well as the more straightforward pumping application, receives individual consideration. This includes advice and recommendations on all ancillary components within the pumping system.

The principal factors that 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. This is all factored into the selection process to allow the following:

- Selection of a pump and drive components.
- Analysis of the effects of changing the slurry density.
- Calculation of the pump de-rating for slurry mixture.
- Calculation of velocities for the settling of various slurries and selection of pipe sizes.
- Calculation of pipeline frictional losses in various pipe materials and pipe fittings.

The importance of selecting the correct size and type of **Linatex CT Pump** is critical. 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 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.

MODEL	A	B	C	D	E	F	G	H	I	J	K	L	M	N	WEIGHT	
HS50	mm	259	287	158	120	139.5	300	350	433	18	228	48	100	50	30	225 kg
	in	10.2	11.3	6.2	4.7	5.5	11.8	13.8	17.0	0.7	9.0	3.9	2	1.2	495 lbs	
HS75		267	287	158	123	152	300	350	438	18	228	48	100	75	50	230
		10.5	11.3	6.2	4.8	6.0	11.8	13.8	17.2	0.7	9.0	3.9	3	2	506	
HS/N100		318	325	231	161	184	360	418	507	22	254	60	110	100	75	300
		12.5	12.8	9.1	6.3	7.25	14.2	16.5	20.0	0.86	10.0	4.3	4	3	660	
MS150		333	325	231	166	200	360	418	529	22	254	60	110	150	100	320
		13.1	12.8	9.1	6.5	7.9	14.2	16.5	20.8	0.86	10.0	4.3	6	4	704	
HS/N150		368/360	381	274/260	175/168	265	470	545	633	27	330	75	145	150	100	400
		14.5/14.2	15	10.75/10.25	6.88/6.6	10.4	18.5	21.5	24.9	1.1	13.0	5.7	6	4	880	
MS200		379	381	274	184	265	470	545	633	27	330	75	145	200	150	460
		14.9	15	10.8	7.25	10.4	18.5	21.5	24.9	1.1	13.0	5.7	8	6	1012	
HHS/N200		530/502	514	322/339	246/228	365	740	800	1019	30	550	100	210	200	150	1660
		20.8/19.75	20.25	12.7/13.3	9.7/9.0	14.4	29.1	31.5	40.1	1.2	21.7	8.3	8	6	3652	

N = NARROW IMPELLER. M = MEDIUM DUTY. H = HEAVY DUTY. HH = EXTRA HEAVY DUTY.

ALL DIMENSIONS ARE NOMINAL. WE RESERVE THE RIGHT TO MODIFY WITHOUT NOTICE.

INLET AND DISCHARGE FLANGES CAN BE SUPPLIED TO DIFFERENT STANDARDS. CONTACT LINATEX AT TIME OF SPECIFICATION.

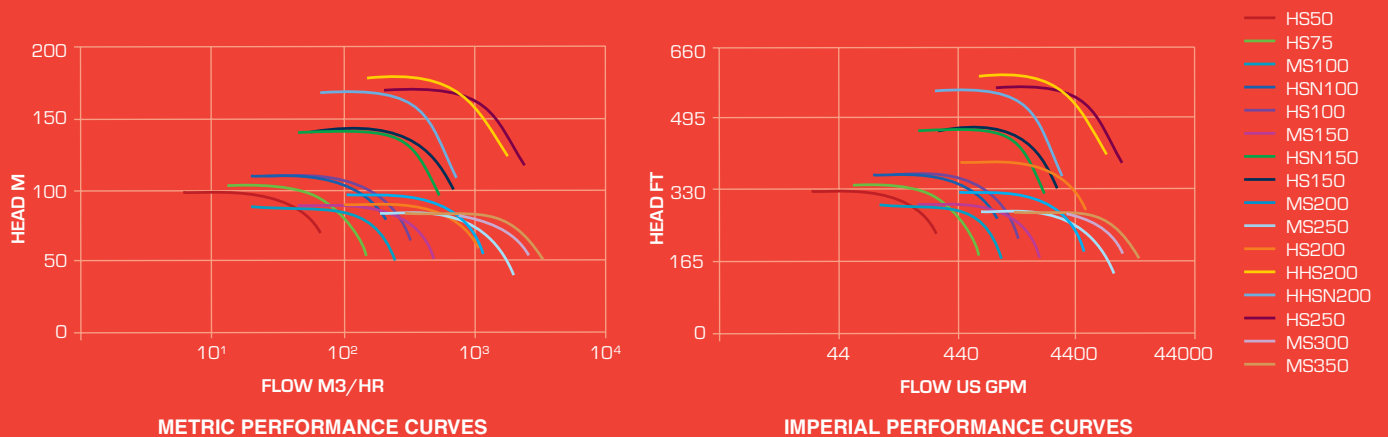




## SERVICE AND MAINTENANCE

The **Linatex CT Pump** range is fully supported by a 12-month defective parts and design construction warranty. Wear parts replacement will be determined by the abrasive nature of the application. The **Linatex CT Pump** range has service exchange units to allow continuous yield, even when the most comprehensive service is required.

Linatex is present on all continents giving us the ability to reach into our international network for expertise if needed. This ensures that the local design and support team brings together world class expertise with extensive knowledge of the local environment and applications.



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