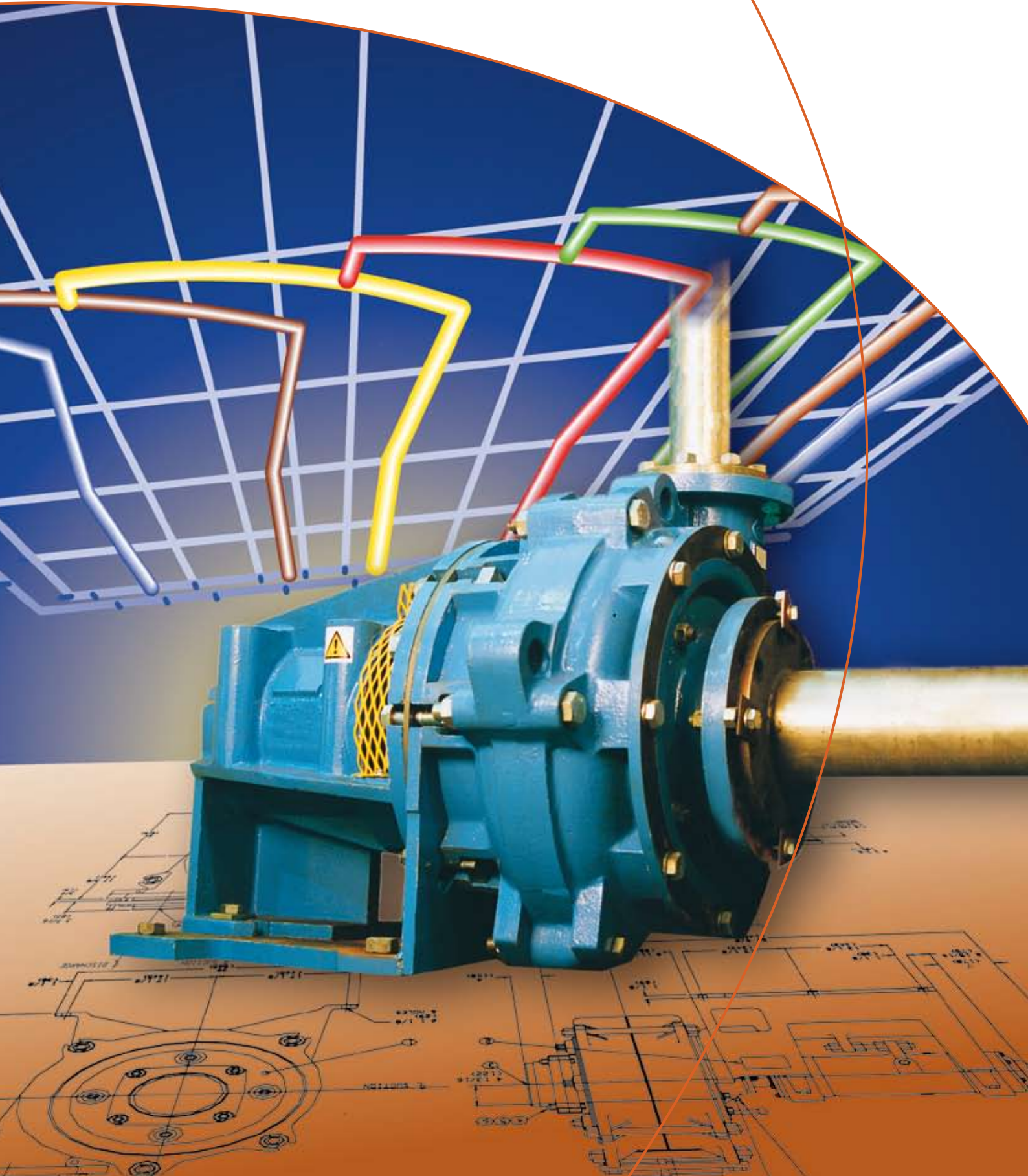


# The Slurry Pump Program



# Metso Slurry Pump Range

By acquiring Svedala Industri AB, Metso has added the well known pump manufacturers Sala, Denver, Orion, Thomas and Mobile Pulley to their manufacturing range. Many years ago Metso decided to streamline and update its entire range of slurry pumps.

A step was taken to better serve the market with state-of-the-art slurry pumps, and a totally new range of horizontal and vertical slurry pumps has since been launched.



XM 600 with MM25 in the middle

## The Thomas and Sala Series of

# Extra Heavy Duty Slurry Pumps

### XM, XR and VASA HD pumps with slide base

Foremost of the new range is a group of extra heavy duty, large, slurry pumps known as the X range. These are available in an XM hard metal version and an XR rubber lined version. Maintenance slide base options are available for inlet sizes up to 400 mm (16").

The X range offers a large, heavy duty solids handling pump with excellent performance and low maintenance costs. The heavy duty design and robust construction combined with the highest quality of abrasion resistant wear materials is a guarantee for long life and trouble free operation in the toughest heavy duty applications, such as SAG & AG re-circulation duties.

- Flowrates from 1 000 to 10 000 m<sup>3</sup>/h - 4 400 to 44 000 USGPM
- Heads up to 75 m - 250 ft

#### Slide base

The traditional range of extra heavy duty pumps, VASA HD, are available in a smaller size range, but still at high efficiencies and specifically designed with maintenance slide bases which reduces maintenance time more than 50%! Most of the VASA HD pumps are supplied with rubber lined wear parts.

- Flowrates from 100 to 1 000 m<sup>3</sup>/h - 440 to 4 400 USGPM
- Heads up to 50 m - 160 ft



### The Thomas Series of

# Heavy Duty Dredge Pumps

The Thomas dredge pump is designed specifically for dredging. Its design features allow maximum particle size passage while maintaining high efficiency. The Pumps are available in both abrasion resistant and high impact materials for wear parts.

Years of operation and many design improvements have resulted in a pump with the lowest operating cost of any pump in the industry when dredging abrasive material. The improvements include the Armor-lok® Seal, oversized bearings/shaft and extra heavy metal sections for longer wear. The design and knock out ring features reduces time and maintenance costs.

- Flow rates from 100 to 6 000 m<sup>3</sup>/h - 440 to 26 400 USGPM
- Heads up to 75 m - 250 ft.



### The Orion Series of

# Heavy and Mining Duty Slurry Pumps

## HR and HM

The heavy duty, H-range, slurry pumps are available in rubber lined HR and in hard metal HM versions. They are designed for the most arduous industrial slurry pumping applications. The excellent hydraulic design guarantees maximum efficiency throughout the life of the generously proportioned wear parts.

The wear materials used are the very best available providing both outstanding wear properties and corrosion resistance for abrasive plant duty applications. The optional back pull-out feature provides easy access for inspection and maintenance of the wet end.

- Flowrates to 2 800 m<sup>3</sup>/h - 10 000 USGPM
- Heads up to 100 m - 330 ft

Maintenance slidebase available as optional.



## MR and MM

Metso's mining duty slurry pumps is the M range. They are designed for medium abrasive solids, lower solids concentrations and medium heads. They are available in both hard metal MM and an elastomer version MR.

The modular design and the optional back pull-out feature provides easy access for inspection and maintenance. The excellent hydraulic design ensures maximum efficiency and thereby reducing both the rate of wear and the power consumed. The M range pumps are the preferred choice for abrasive duties such as general in-plant transfer pumps.

- Flowrates to 5 000 m<sup>3</sup>/h - 20 000 USGPM
- Heads up to 60 m - 200 ft



## The Sala Series of Vertical Pumps

### VS

The VS Sump Pumps are strong, tough and the most reliable pumps on the market. For this reason this range is preferred throughout the world by most heavy industries.

The VS pumps is used in floor cleaning and process applications. A number of different impeller and agitation options are available. Choose from closed, semi-open and induced flow impellers. Agitation can be accomplished with casing spray holes or extended shaft with slurry agitator. The fully interchangeable wear parts are available in abrasion resistant rubber or hard metal. The robust cantilever design without any submerged bearings or shaft seals, has already made this range well known and established in the slurry pump market.

- Flowrates to 1 500m<sup>3</sup>/h - 6 600 USGPM
- Heads up to 45 m - 150 ft

### VSH and VSM

Metso has recently expanded its VS pump range with the introduction of the VSH and VSM models: a perfect marriage of the rugged Sala VS frame with our heavy-duty high efficiency Orion series horizontal pump hydraulics. The VSH and VSM provide larger diameter impellers designed for slower speeds (lower wear rates), and higher head capability.

Additionally, the customer now has the benefit of commonality of wet end parts for both its horizontal and vertical slurry pumps, reducing spare parts inventories while simplifying maintenance.

### VT

The VT Vertical Tank Pumps are designed for abrasive slurry service and feature simple maintenance and robust construction. The ingenious design of the pump with no shaft seal makes it exceptionally service friendly and easy to install.

Standard pumps are supplied with wet end parts in wear resistant rubber or hard metal. Parts in different materials are fully interchangeable and can be combined for optimum life.

- Flowrates to 1 000 m<sup>3</sup>/h - 4 400 usgpm
- Heads up to 30 m - 100 ft



The Sala Series of

# Vertical Pumps

**VF**

The VF Froth Pump has been designed to increase the pumpability of frothy slurries. The principle of operation is partly similar to that of hydrocyclone separation. Air is separated from the slurry in a vortex created by the impeller rotation and the tangential inlet to the pump's conical tank. This results in a more efficient pumping and a smooth operation, free from pulsation caused by air blocking.

Standard wear materials are in natural rubber or hard metal. Other wear materials include synthetic rubbers and polyurethane.

- Flowrates to 600 m<sup>3</sup>/h - 2 600 USGPM
- Heads to 20 m - 65 ft



## Metso's Pump Advantage

To complement the new pump ranges, Metso also offers a complete range of services including pump sizing and selection using the new PumpDim™ software program, literature, test facilities and after sales service.

For all customers and potential customers who are familiar with the previous pump brands, Metso assures that they will obtain the same excellent pumps in a significantly expanded and more complete pump program. Added to that are the benefits of a high level of service and support that Metso can provide locally, and globally.

Horizontal Pump Ranges									Vertical Pump Ranges			
Inlet Size mm (inches)	XM	HM	XR	VASA HD	HR	MM	MR	Dredge Pumps	Outlet Size mm (inches)	VS VSH, VSM	VT	VF
50 (2)		•			•				25 (1)	•		
75 (3)		•			•				40 (1½)		•	
100 (4)		•			•	•	•		50 (2)	•	•	•
150 (6)		•		•	•	•	•	•	80 (3)	•	•	•
200 (8)		•		•	•	•	•	•	100 (4)	•	•	•
250 (10)		•		•	•	•	•	•	150 (6)	•	•	•
300 (12)		•	•			•	•	•	200 (8)	•	•	•
350 (14)	•		•			•	•	•	250 (10)	•	•	•
400 (16)	•		•	•		•		•	300 (12)	•		
450 (18)								•	350 (14)			•
500 (20)	•					•	•	•				
550 (22)								•				
600 (24)	•							•				
700 (28)	•											



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