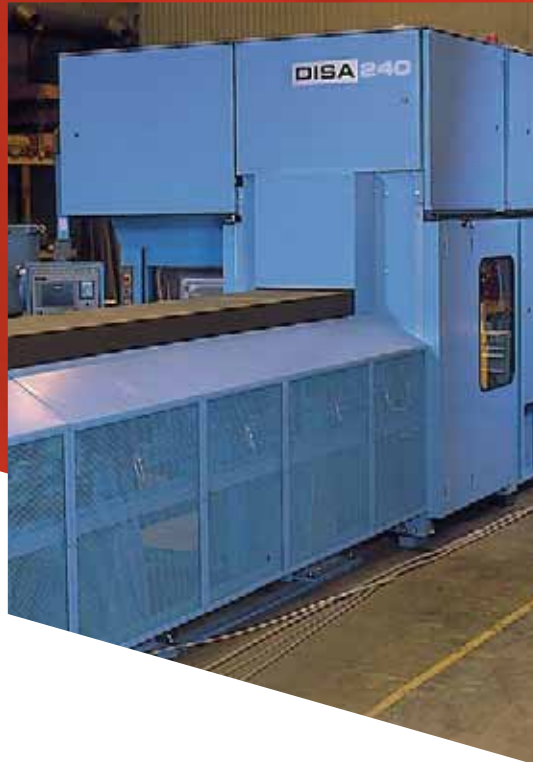


# DISA NEW GENERATION



DISA 240  
DISA 250  
DISA 270  
DISA 280

**DISA**



# DISA New Generation

*The DISA New Generation series of vertical greensand moulding machines sets new standards for speed, quality, reliability and cost effective production. More than 100 foundries all over the world have installed DISA New Generation moulding machines for a wide variety of casting types and sizes.*

## High speed, high quality, low cost

### High speed of up to 450 moulds per hour

An advanced PLC system optimizes all functions and movements of the enhanced mechanical and hydraulic systems in order to achieve highly flexible production options with speeds of up to 450 uncored moulds an hour.

### Excellent accuracy

New and optimized mechanical design ensures a machine-dependent mismatch very close to zero, reducing the need for machining to an absolute minimum – and often eliminating it entirely.

Machine subsystem rigidity has been increased by up to 100% compared to previous design, ensuring optimum mould quality and minimum mould tear off.

### Unbeatable uptime

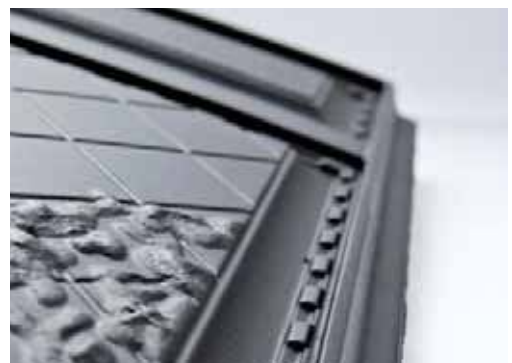
- User-friendly design with fewer moving parts and improved accessibility enables faster service, maintenance and higher uptime.
- Loads on bearings and moving parts have been significantly reduced to extend lifetime and maintenance intervals.

### Automatic Pattern Change (APC)

An APC unit increases flexibility and number of moulds produced by cutting pattern change times to just 60 seconds.

*// We replaced our DISAMATIC 2070 by a new DISA 270-A New Generation moulding machine and gained a 50% capacity increase. The DISA 270 is running at a steady speed of 410 moulds an hour. The high casting quality, low scrap and 20% lower finishing costs contribute significantly to the bottom line. //*

Jostein Lunde,  
Production Manager, Jøtul Foundry, Norway





# Technical Data

## DISA VERTICAL MOULDING

Type	240			250	270			280
	A	B	C	C	A	B	C	B
<b>Mould dimensions</b>								
Height (mm)	600	600	600	650	700	800	800	850
Width (mm)	750	775	850	850	950	950	1000	1200
Thickness (mm)	150-500	150-500	150-500	150-500	200-650	200-650	200-650	250-675
Height (inches)	23.6	23.6	23.6	25.6	27.6	31.5	31.5	33.5
Width (inches)	29.5	30.5	33.5	33.5	37.4	37.4	39.4	47.2
Thickness (inches)	5.9-19.7	5.9-19.7	5.9-19.7	5.9-19.7	7.9-25.6	7.9-25.6	7.9-25.6	9.8-26.6
<b>Mismatch (mm)</b>	0.15	0.15	0.15	0.15	0.2	0.2	0.2	0.25
<b>Mismatch (inches)</b>	0.006	0.006	0.006	0.006	0.008	0.008	0.008	0.010
<b>Mould capacity</b>								
Uncored (moulds/hour)**	450	450	450	450	400	395	395	300*
Cored (moulds/hour)**	400	400	400	400	375	356	356	280*
<b>Conveyor length max (m)</b>	100	100	100	100	120	120	120	120
<b>Conveyor length max (ft)</b>	328.1	328.1	328.1	328.1	393.7	393.7	393.7	393.7
<b>Cooling time max (min)**</b>	66	66	66	66	90	91	91	96*
<b>Sand consumption</b>								
Max (metric tons/h)***	122	126	138	150	190	213	225	253
Max (US tons/h)***	135	139	152	165	209	235	248	279
<b>Power consumption (kW)</b>	75	75	75	90	110	110	110	165
<b>Free air consumption (m<sup>3</sup>/min)</b>	16	16	16	16	26	26	26	28
<b>Free air consumption (cu ft/min)</b>	565.0	565.0	565.0	565.0	918.2	918.2	918.2	988.8
<b>Water consumption</b>								
At 25°C inlet temp. (litres/min)	65	65	65	65	75	75	75	85
At 25°C inlet temp. (US gallons/min)	17.2	17.2	17.2	17.2	19.8	19.8	19.8	22.5

\* at 250 mm (9.8 inches) mould thickness

\*\* at 200 mm (7.9 inches) mould thickness

\*\*\* at max. mould thickness

The technical data is not binding and may be subject to change.

# Global services



## Global services

DISA is committed to leadership in technology and customer service in order to help our customers achieve success in the competitive markets of today.

### ■ Service and hotline

DISA offers a 24 hour service hotline 365 days a year and quick online troubleshooting with Remote Diagnostic Access. We also offer DISA TOPS service agreements designed to optimize productivity and casting quality based on the specific DISA equipment installed at the foundry.

### ■ Training

We offer tailor-made training programmes made by our highly experienced team, training your personnel in operation, maintenance and repair, enabling you to achieve optimum performance and maximum uptime from the very beginning.

### ■ Foundry technology service

DISA foundry technology service includes pattern conversion assistance as well as process and casting optimization to help your foundry optimize quality while reducing costs.

## Computer Integrated Manufacturing (CIM)

CIM modules, enabling automation and complete control of the entire moulding line ensures:

- Optimized speed
- Consistently high mould quality
- Lowest possible cost per casting
- Maximum uptime

// Our DISA 240-C machine still manages to impress with an average uptime of 99.5% since installation. A machine dependent mismatch of under 0.15 mm has significantly reduced our finishing costs compared to our other moulding processes and our scrap rate has been reduced to only 2%. //

Sung-Yong Hong,  
Project General Manager, Sungwoo Co. Ltd., Korea





# Leading quality and productivity

## 12 reasons for choosing DISA New Generation

- Fastest moulding machine on the market with up to 450 uncored moulds an hour
- Superior uptime with fewer moving parts, more rigid design and reduced maintenance and parts usage
- Minimal machine-related mismatch for less fettling, lower production costs, increased efficiency and higher earnings
- Faster and less frequent maintenance means lower maintenance costs and higher availability
- Low manpower requirements
- Automatic Pattern Change Unit for fast pattern change in 60 seconds
- Fast and easy installation
- Double-sided mould squeeze operation and adaptive mould thickness for consistent and dense moulds
- Safe, clean and quiet for a good work environment
- Low power consumption
- User-friendly operator panel with text and graphics for easy operation and quick troubleshooting
- Low sand consumption with consistent sand-metal ratio



## DISA Group

Founded in 1900, DISA is the world's leading supplier of foundry equipment and metal surface finishing systems.

With factories, sales and service offices in three continents and an extensive agent network, DISA serves international industrial manufacturers, foundries and metalworking industries with leading edge technology and service solutions tailored to their specific needs.

For more information please visit  
[www.disagroup.com](http://www.disagroup.com)

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For illustrative purposes the DISA equipment may be shown without any warning labels and with some of the protective guards removed. The warning labels and guards must always be in place when the equipment is in use.

The technical data are not binding. They are not warranted characteristics and are subject to change.

Please consult our General Conditions of Supply.



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