



DISAMATIC® D1

Compact performance

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DISA
A Norican Technology

Small but mighty



Hit your growth targets

For all foundries, growth comes from producing more, producing more efficiently or creating higher-value products. Smaller foundries, or those producing smaller castings, can achieve all three of these growth targets by investing in high-performance vertical moulding technology in its most compact form: the DISAMATIC D1.

First launched as the DISAMATIC 2110, the DISAMATIC D1 has evolved continuously over the past 30 years, drawing on learnings from a global installed base of currently more than 150 machines. Today, it is part of our flagship "D" line-up of high-end vertical moulding equipment, helping foundries around the world liberate optimum casting performance and quality.

The DISAMATIC D1 in brief

The DISAMATIC D1 is a greensand vertical moulding solution with a compact footprint. Available in two versions, a high-output and a standard version, the DISAMATIC D1 is ideal for high-speed, high-quality production of smaller ferrous, aluminium and copper castings.

The DISAMATIC D1 offers flexible production options well suited for jobbing foundries running shorter series of castings.

A state-of-the-art control system and operator interface ensure highest levels of automation and minimal operator requirements. The DISAMATIC D1 delivers high-precision moulds, achieving a machine-related mismatch of less than 0.2 mm.

Both machine versions offer a mould size of 400 mm by 500 mm, with a mould thickness of 100-315 mm. The standard version can produce up to 205 uncored and 185 cored moulds per hour, while the high-output version achieves a speed of up to 315 uncored and 285 cored moulds per hour.

"With the performance enhancing features of our new DISAMATIC D1 we are adding further to the capacity, speed and quality which will maintain our position as a superior competitor in the market"

*Philippe Boisson,
President of Fonderie Boisson, France*

Features that makes the difference



Automatic Core Setter (CSE)



Quick Pattern Changer (QPC)



Examples of copper castings

Increased speed and capacity

The DISAMATIC D1's high moulding speed and efficiency features ensure foundries can maximise their output per shift, unlocking additional capacity or delivering jobs faster.

The latest version comes with an even faster and more reliable optional core setter (CSE). The CSE unit automatically insert cores into the mould for high-productivity, high-precision casting.

The optional Quick Pattern Change unit (QPC) facilitates and speeds up pattern changing to reduce pattern changing time and minimising the risk of errors.

Enhanced working environment

The DISAMATIC D1 is an integrated, compact moulding solution designed to minimise repetitive manual tasks and create a clean, modern working environment.

Accessories like the new QPC unit support this, reducing operator fatigue and delivering more precise, consistent results.

The DISAMATIC D1 is manufactured using environmentally responsible materials and safety processes according to ISO 14001 and CE certification.

Outstanding reliability

With its robust design perfected over time, the DISAMATIC D1 features relatively few moving parts for outstanding reliability. Its world-class PLC system optimises all the functions and movements of the enhanced mechanical and hydraulic system. This means maximum uptime and a moulding line that never skips a beat.

The fully synchronised Automatic Mould Conveyor (AMC) and Synchronised Belt Conveyors (SBC) ensure high precision mould transport throughout the entire cooling line.

The Mould Side Support (MSS) accessory provides additional support to the sand mouldings in the AMC's pouring zone, with a constant and adjustable pressure force.

Intuitive and automated operation

Updates to controls and operator interface enable super-fast troubleshooting and intuitive operation. The latest know-how has been applied to allow the machine to (almost) look after itself. This includes auto-diagnosis of electrical hardware for troubleshooting and automatic adjustment of machine setting based on pre-entered pattern data.

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