



Bu bildiri 6. Uluslararası Ankiros Döküm kongresinde sunulmuştur

This paper was presented on 6th Ankiros Foundry Congress

http://kongre.tudoksad.org.tr/

Eylül 2012 September 2012 Tüyap, İstanbul

Lower your cost per casting by precise moulding with the DISA MATCH machine

Ankiros Exhibition 2012



• Goal is to move casting production from flask lines to "flask less" production

 Help customers in lowering the actual cost per casting with high efficient moulding machines



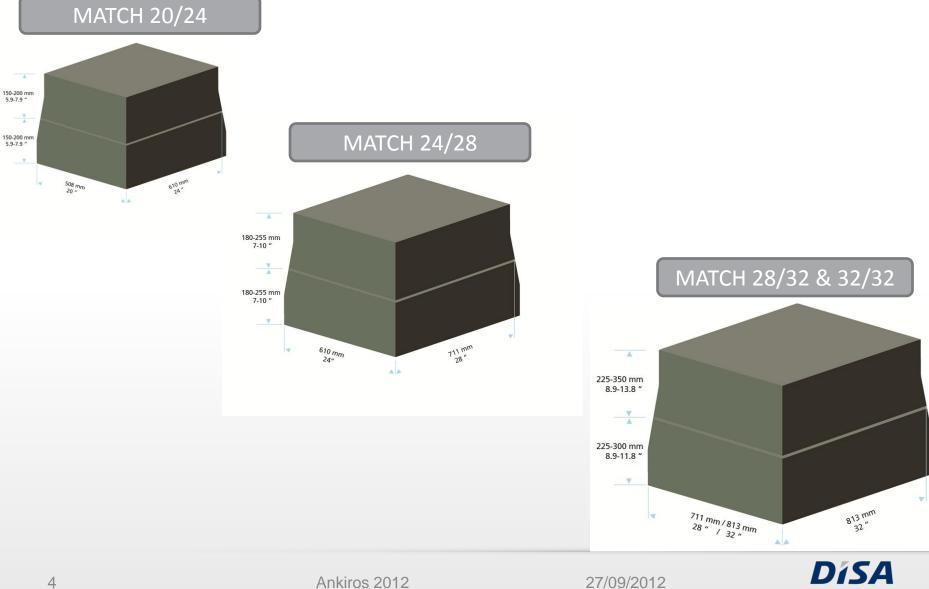




2012



Four mould sizes



shaping industry

Features on DISA MATCH





Benefits on DISA MATCH - DMM

Optimum efficiency

➢high speed of upto 160 uncored m/h due to unique DISA blow/squeeze mechanism (cored speed of up to 120 m/h)

Excellent castings

with machine-related mismatch of max 0.15 mm for minimal finishing costs

Unbeatable uptime

Extremely robust and simple design with state-of-the art PLC system





Benefits on DISA MATCH - CSE

Automatic core setter (CSE)

➢ for fast and precise core setting

Features

- The core setter ensures operator 36 sec.
 for setting cores in mask
- Manual core setting allows 6 sec.
- Fast and easy change of the core mask
- Fixed alignment with the chamber no additional alignment required
- Guiding pins eliminates need for tools





Precise and accurate moulding with DISA MATCH

Why precise and accurate?

- Based on 45years knowledge with DISAMATIC vertical moulding machines
- Unique tie rod assembly, with DISA oil lubricated bronze bushings
- Perfect and smooth operation, which ensure the right handling of the MATCH mould
- Hard and dense moulds, because of DISA unique sand blow system







Benefits on DISA MATCH - QMC

Easy access to molding area

user-friendly design for easy pattern plate change and operation

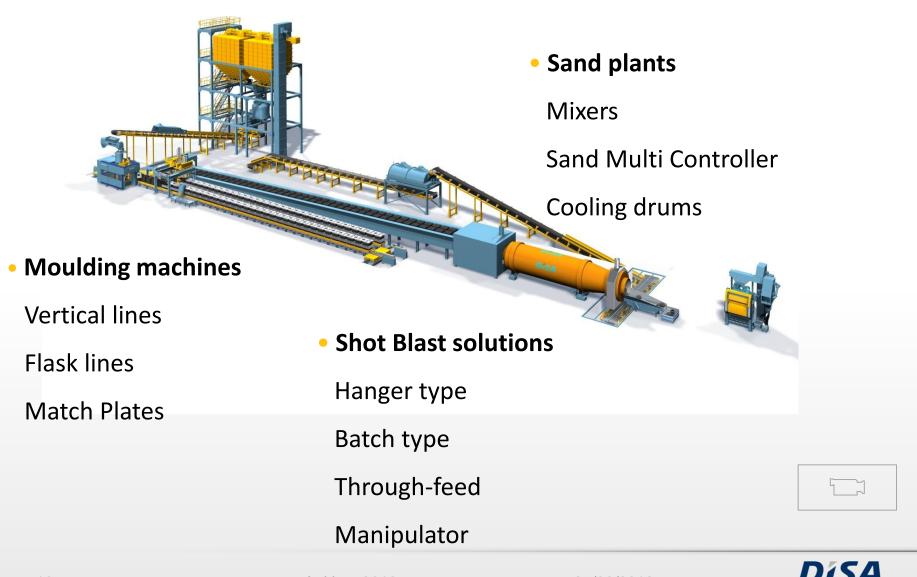
Features

- Quick Match plate Changer (QMC) operated in front of machine
- Increased space between chambers for better access to core setting and blow-off
- Wide access area with light curtain for best possible working conditions





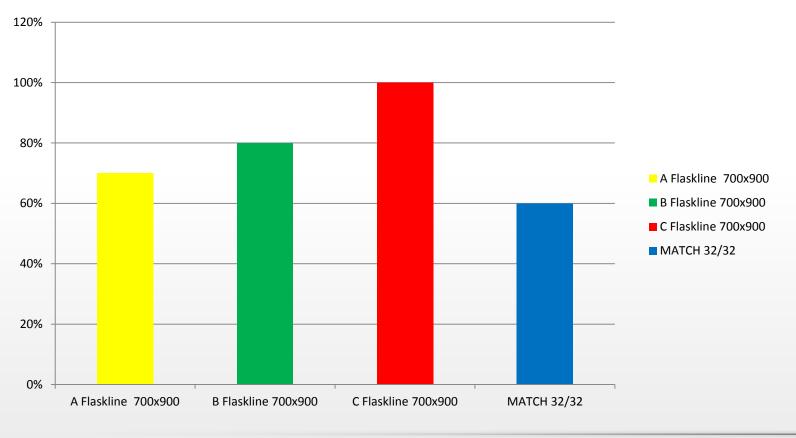
DISA complete foundry supplier



Ankiros 2012



Ex. mould size 813x813, complete line incl. Automatic Mould Handling (AMH), 60 min cooling time, Pallet cars, Alu. Jackets and Weight Irons.



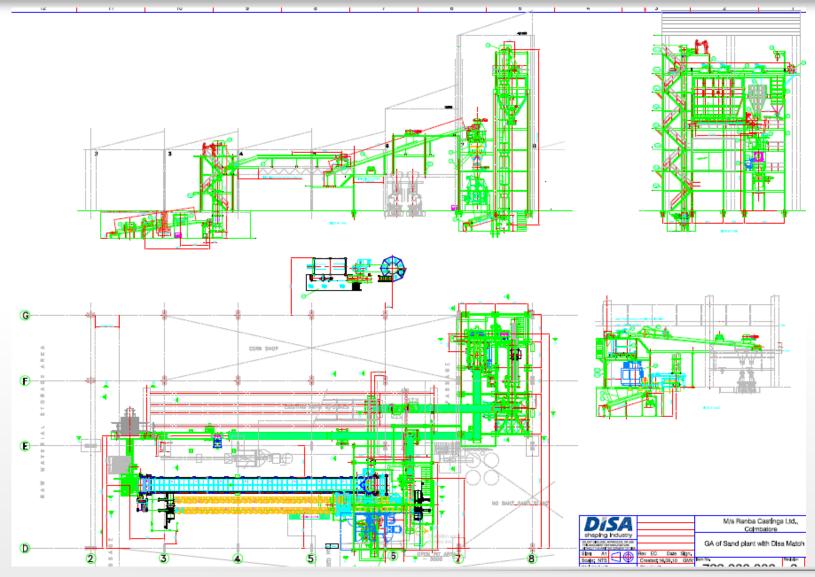
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Investment cost



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Example of DISA MATCH moulding line in existing foundry





Benton Foundry, PA - USA

Alfred B. "Fritz" Hall President, Benton Foundry

2000: 1 * DISA MATCH 130 2005: 1 * DISA MATCH 130 2008: 1 * DISA MATCH 130

Founded: 1958 Metal: Grey & Ductile Iron

Products: Valves, electric motors, pumps

Net sales: \$35 million

Employees: 250





Before (on their older MATCH machine):

34 molds/hour Handpacking Soft moulds Difficult to draw off

Now on their DISA MATCH:

100 molds/hour No handpacking Improved casting surface 1 impression matchplate, 1 three piece core assembly, 15 chaplets are pre attached





DISA MATCH replace – Jolt Squeeze

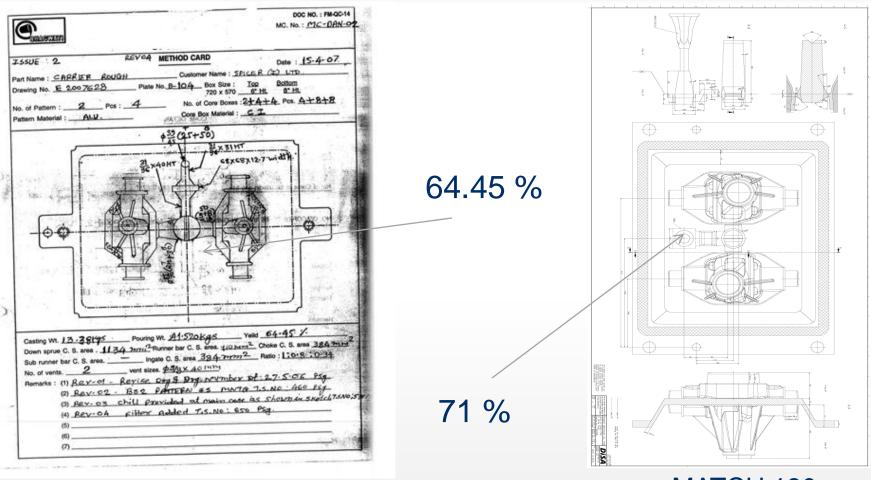
- DISA MATCH 130 replace Jolt Squeeze 700X600 X 200/200 2 Lines
- Higher Yield, Lower Scrap
- Manpower 16 2 /shift







Replacement of jolt squeeze flaskline with MATCH



Conventional Jolt Squeeze 600X700X250/250

MATCH 130 500X600X200/200



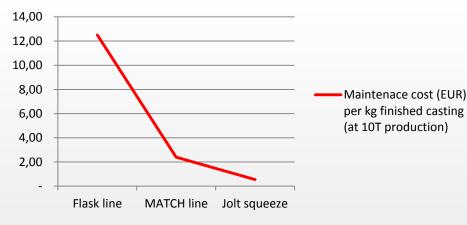
MATCH 20/24		
	Jolt Squeeze	MATCH 130
Moulds/hour	100	140
Man power/shift	16	2
Investment moulding - in EUR	270.000	700.000
Project inevestment in EUR	1.300.000	1.500.000
Out put TPA	9600	10800
Quality	Acceptable	Improved
Rejection		Relative low
Casting Fettling		Relative low

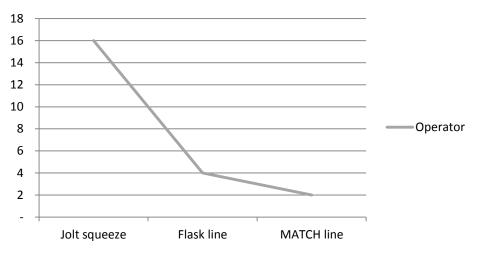


How to save money by making new investments



Maintenace cost (EUR) per kg finished casting (at 10T production)





Operator





2011 MATCH 24/28 – Lava Dökum 2012 MATCH 24/28 – Denezciler 2012 MATCH 20/24 – Yazkan





27/09/2012



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Thank you for your kind attention!

DISA – "Lower your cost per casting"

