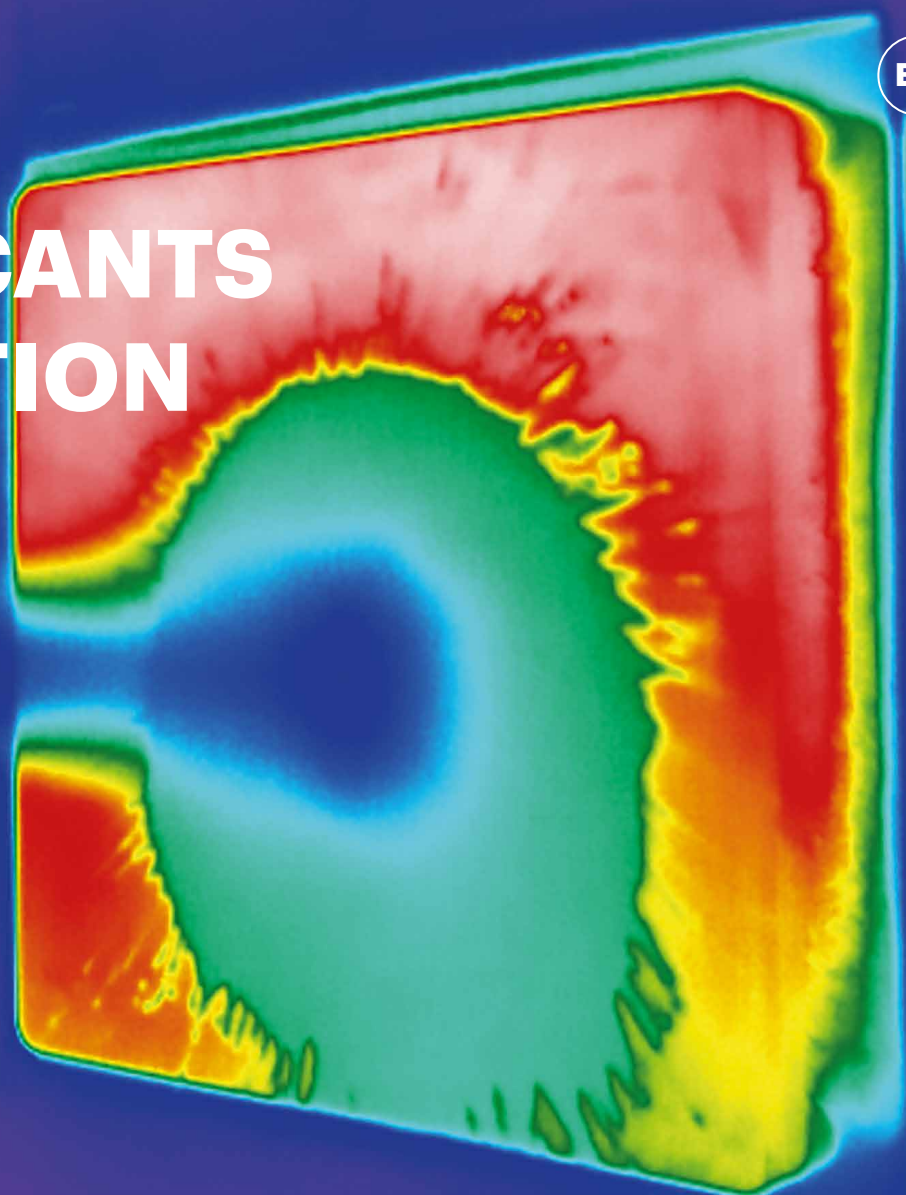


HPDC DIE LUBRICANTS OPTIMIZATION

EN



MOTUL **TECH**

Baraldi

TOTAL THERMAL VISION

MARPOSS

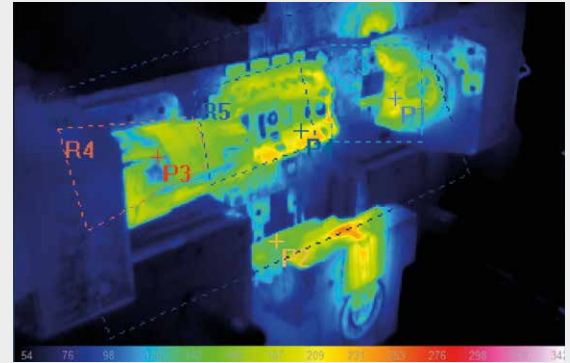
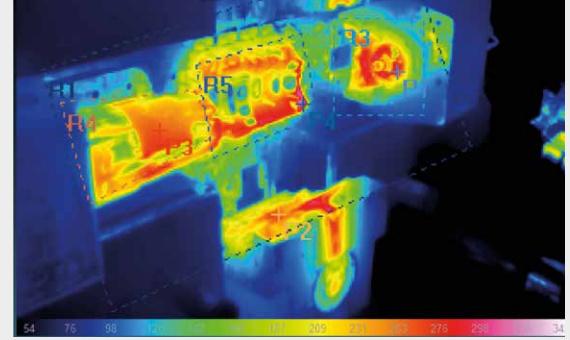
DIE SURFACE TEMPERATURE MONITORING

Motultech-Baraldi, inventors of the innovative TTV technology and Marposs, worldwide leader in high precision equipment for measurement and control in production lines for mechanical industry, signed a partnership agreement to offer adequate solutions to the most demanding targets worldwide, assuring everywhere and at the same time a complete pre- and after-sales service, combining the exact measurement of the surface temperature with the best application of release agents on die casting dies.

For information:

www.marposs.com

ttv-assistance@marposs.com



TOTAL THERMAL VISION provides the missing information about the thermal behaviour of the die. Pursuing the objective of optimal temperature distribution, it is possible to improve the lubrication cycle as well, achieving several advantages.



Lube Analyzer

DIE LUBRICATION CYCLE ANALYSIS

Thanks to an in-depth analysis of the different areas of the die and to a dynamic view of the evolution of temperatures, it allows to:

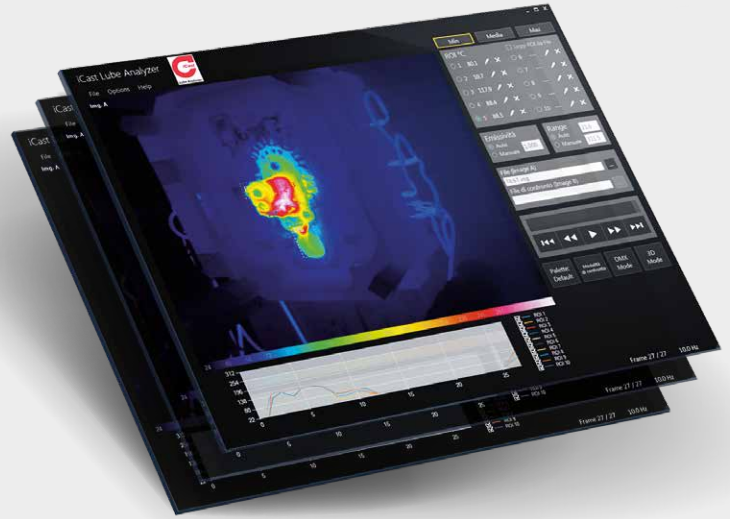
- analyze the “DELTA T” of the spraylube
- set up the best lubrication cycle
- view a sequence of thermal images as a movie and find out the recorded issues

For information:

<https://icast.baraldi.com>

www.baraldi.com

icastlube@baraldi.com



TIME

Speeds up the optimization work of your process



QUALITY

Leads to a reduction of quality problems



CONSUMPTION

Less consumption of release agents, water and energy



COST SAVING

Lower costs for waste water treatment and die maintenance



RANGE OF OPTIMIZER DIE LUBRICANTS

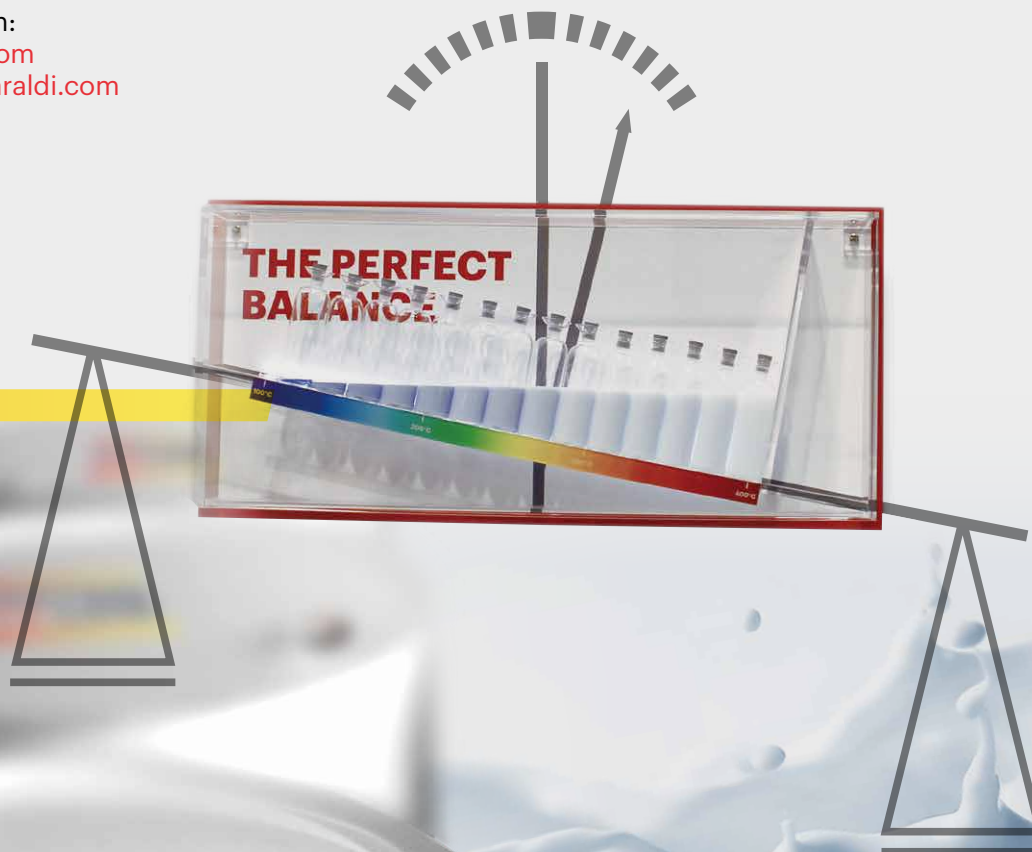
The process optimization can be achieved thanks to a correct selection of the release agent. The «CASTING TTV LINE» includes a wide range of release agents developed for the different production issues, including «water free», «silicone free» and «wax free» products. The optimization of the product application follows the principles of a «Perfect Balance» between applied quantity, concentration level and application method.

For information:

www.baraldi.com

assistance@baraldi.com

**CASTING
TTV LINE**



**CASTING
TTV LINE**

HPDC DIE LUBRICANTS OPTIMIZATION

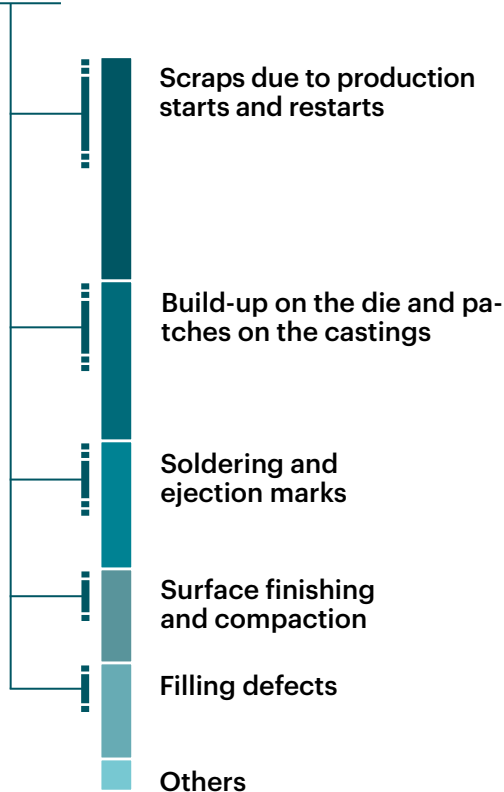
- Lowest possible cycle time
- Less consumption of release agent
- Minimum quantity of waste water
- Better quality of the casting
- Lower thermal stress of the die
- Process control
- Increased know-how

HOW TO GET THE MOST FROM YOUR TOTAL THERMAL VISION SYSTEM

EFFICACY

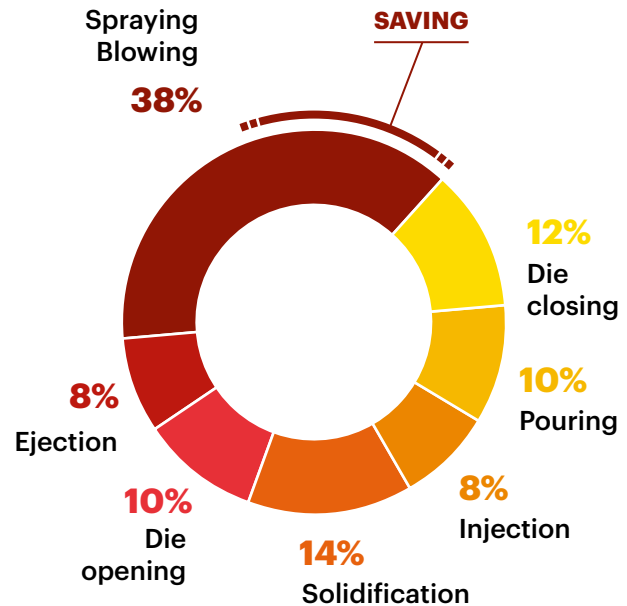
The lubrication process affects and is affected by the die temperature. Both of them affect the quality of the castings.

SAVING



EFFICIENCY

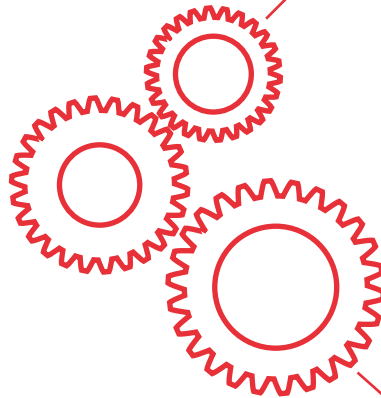
The lubrication phase represents a significant part of the total cycle time and it is our target to gain efficiency.





DIE LUBRICATION

DIE TEMPERATURE



CASTING DEFECTS

OPTIMIZATION

- Display of the thermal image at each cycle
- Analysis of the existing conditions
- Selection of a «CASTING TTV LINE» release agent or development of a new product
- Targeted application
- Efficiency optimization by different «fine tuning» operations through an integrated approach TTV → iCAST → CASTING TTV LINE



Baraldi S.r.l. - Via Lombardia, 2/I, 2/L
40024 Osteria Grande, Castel S.Pietro
Bologna - ITALY
Tel. +39 051 946994 Fax +39 051 946988
tech-service@baraldi.com
www.baraldi.com