

# INSIDER

# CASTOOL & CASTOOL 180 ARE FULLY CERTIFIED

by Intertek Systems Certification:







SAFETY

**NEW EMPLOYEES - CASTOOL:** 

Su Biliu Inside Sales Support

Richard Hudson *Inventory Control* 

Scott Kelly Systems Technician

Remzi Cevik Equipment Technician

#### **NEW EMPLOYEES - CASTOOL 180:**

Mr. Somnuk Kamsat (Tee)
Die Oven Assembler
(Mechanical Engineer)

## **ARTICLE ALERT:**

Watch for Castool's article in the April 2018 issue of







While 2017 has been a good year for the economy, it has been a challenging year of increasing costs.

The cost of global alloys, electrodes, manufacturing consumables and energy have been climbing significantly over the past year, with no end in sight. Our tool steels are designed alloy rich, giving our customers the strength, control and optimum properties for application use. Our aim is to work on offsetting some of these unavoidable costs in our purchasing patterns and lean manufacturing without compromising the material quality or service level.

H-13 (1.2344) is the principle material used for shot sleeves, liners, dummy blocks, stems etc. We purchase H-13 from:

SCHMOLZ + BICKENBACH International



# BÖHLER UDDEHOLM

#### H-13 19.6% increase in last 12 months

**Beryllium copper** and copper are used for plunger tips, plunger bodies and in some cases rings. We purchase Copper and BeCu from:

# **SCHMELZMETALL**

Copper 9.1% increase in last 12 months BeCu 13% increase in last 12 months

Many customers are using **Con-Duct** to replace Copper and BeCu for plunger heads and bodies with improved longevity and lower cost.

We will be introducing price increases to most of our products March 1, 2018. We will be reviewing pricing every 3 months, and will do our best to remain competitive.



# **DIE CAST UPDATES**

# Plunger Tips: AMP Allper Modular System

Combinations using the following materials: H-13, Dievar, Con-Duct and A45, A52, A25

# **AMP-A**

## SUCCESS with CON-DUCT:

### Customer: Metaldyne

• Previously 10 to 15k with DieVar AMP-R; increase to 55k with Con-Duct (CD)

#### Customer: Hyundai

 Previously getting 4 to 11k with DieVar AMP-R; now 25k with Con-Duct

#### **Customer: GM Bedford**

• Originally 1 to 2.2k with Semco; 14k with AMP-A Con-Duct/A-25

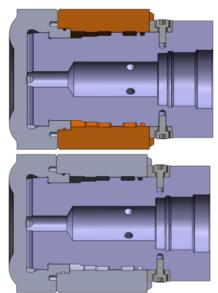
#### **Customer: Accurcast**

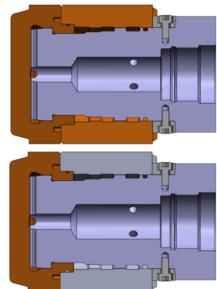
 ABP-A-CD A45 bushing went to 23k/shots; the old Semco tip was 4k/shots

#### **Customer: MPT**

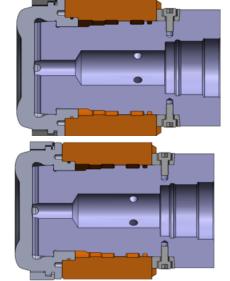
• AMP-R Dievar heads were 7k\shots; now using the AMP-R-CD, target is set to 30k/shots

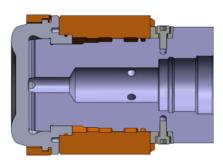
# Con-Duct offers superior value

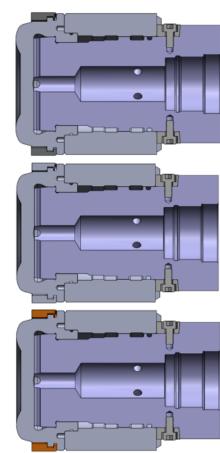




## AMP-R

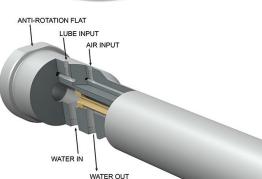








# **DIE CAST UPDATES**

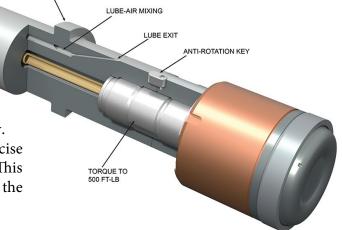


# Plunger Rod Lube

SPLASH GUARD

Lubricant should be applied only where it is needed. Any excess lubricant is an unnecessary cost, and a workplace pollutant. Lubrication should therefore be kept to an absolute minimum. Every effort must be made to eliminate the possibility of any non-metallic substance getting into the mold.

A carefully measured amount of lubricant is applied between ring, sleeve and impact zone right under the pour hole. This ensures complete coverage without costly overspray. A controlled dosage injection pump provides the precise amount of lubricant required for each process cycle. This controlled dosage prevents the danger of contaminating the casting with excessive lubricant.



# Castool's Die Cast Model makes its debut at



DIE CAST TRADE SHOW BOOTH # 7A-412

January 16 - 18, 2018 Nuremberg, Germany







#### **SUCCESS with TUFF-TEMPER:**

# Customer: Hydro Monterrey Precision Tubing

• 1000/3000 series alloy and high pressure 118Ksi – 1 week with RRB; **2** *months* with Marathon Tuff-Temper

Customer: Hydro Chrzanow

 High pressure 125ksi – 1 week with HPR; 1 month plus with Marathon Tuff-Temper

# **EXTRUSION UPDATES**

# **Dummy Blocks**

MARATHON (TUFF-TEMPER): This extra strong 2-piece block emphasizes quality of product plus length of operating life. Tuff-Temper is a patented steel developed by Castool. It has 3 times more Molybdenum than H13, making it stronger and tougher for the dummy block.



## Marathon Tuff Temper is now delivered to:

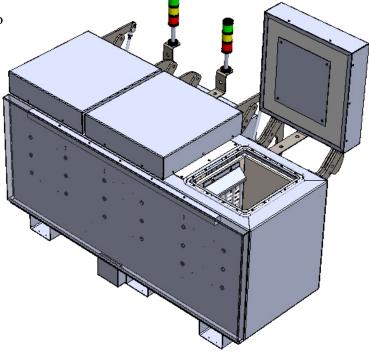
Daihan Climate Control Korea
Hydro Mexico
Constellium Nuit St George France
Purso Oy Finland
Alexandrai USA
Eurometal Poland
Profile Precision Extrusions USA
Hydro Kofem Hungary
Fabal Aluminium Turkey
Astas Turkey
Aliplast Lublin Poland

Hydro Rockledge USA
Universal Alloys USA
Profilatu SPA Italy
Profil Precision Extrusions USA
Hydro Chrzanow Poland
Adla Portugal
Impol Poland
ILT Korea
LMS Korea
Ilsim Korea

# **New Wiring for Die Ovens**

For ease of access, thermocouple and element wiring is now on the front of the die ovens, with an access panel to cover and protect.







# Die Oven installs around the world





Installation of 4 TRC60 with Master Controller at ELVIAL - Greece



Installation of 2 TRC60 with Master Controller at MIFA - The Netherlands



#### **SUCCESS** with **OR** Containers

#### **Customer: Kaiser**

- 6082 alloy QR Container install
- 9.5 ipm (*inches per minute*) now 21 ipm (5 shapes)
- \*120% increase in ram speed

#### **Customer: Canart**

- 6063 alloy QR Container install
- 14.5 ipm now 26 ipm (barrier puller speed)
- \*79% increase in ram speed

#### **Customer: MI Metals**

- 6063 alloy QR Container install
- 14 ipm now 23 ipm
- 15 ipm now 24 ipm
- \*42 to 64% increase in ram speed

#### **Customer: Alexandria**

- 6061 alloy QR Container install
- 8.5 ipm now 15 ipm
- 10 ipm now 13 ipm
- \*30 to 76% increase in ram speed

# **EXTRUSION UPDATES**



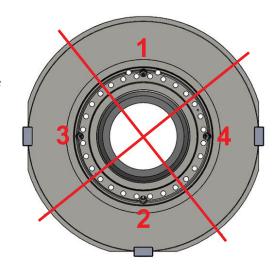


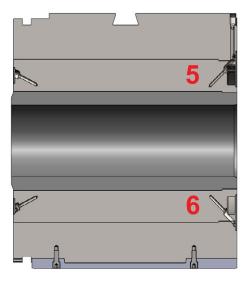
We have been making QR containers for 15 years. In some cases, the thermocouple terminal blocks on the mantle have been failing after many years. We are recommending that customers use a solid lead from the mantle instead of the ceramic terminal blocks.

# QRX 6-Zone Container

We are making our first QRX type containers for a customer in Taiwan for 12, 13 and 14" billet.

The QRX is similar to the QR container with the exception of having 4 control zones on the container exit, to better manage metal flow for large shapes.







**Extrusion Sales Director** 

Die Cast Sales Director

Product Specialist Europe

Product Specialist Asia

Commercial Manager

Customer Service

Customer Service

Customer Service

Customer Service

Marketing Director

Commercial Supervisor

Product Director



# THE INTERNATIONA

Dan Dunn **Jad Samra** 

Ken Chien Natalya Pieri Keattikhun Chaichana

Jean Dembowski Tanmanun Tiantip Christine Kaschuba Sue Lotton Sue Su Dan Phudis

CANADA / USA

Ploy Robbins

Krystean Rose Castool Matt Binns Castool Andre Lulianetti Castool **IW Industries LLC** Jon Veenstra Sebastien Deroy Sea Bass Outdoors

R-Bet Sales Inc Ron Steinenger Sam Durbin R-Bet Sales Inc Troxclair and Associates

Tom Troxclair

**LATIN AMERICA** Valentin Meneses

Carlos Lima Osvaldo Lomas

Alberto Forcato

Kautec America KTC Brasil Casmet

Forcato Technologia

**EUROPE** 

Emmanuel Bach Comexale Olivier Druhen Comexale Comexale Bertrand Schnell Emmanuel Mandrelli Comexale Comexale Pascal Schroung Lars-Goran Nilsson TEL Nordic APS Luciano Pedrini Techno Moulds

Jakub Jasiewicz KDO Komponenty Dla Odlewnictwa

**Edgar Seufert** Schmelzmetall Jurgen Barz Schmelzmetall

**UAE** 

Emannuel Mandrelli Comexale

**ISRAEL** 

Tuvia Kornfield NTK Plants Management

**TURKEY** 

Cenk Sommez BCM Makina Kimya **SOUTH AFRICA** 

Olivier Druhen

Comexale

**JAPAN** 

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Rio Tinto Japan Ltd. KBS Kubo Manufacturing Co KBS Kubo Manufacturing Co

**KOREA** 

JH Song ANK Ltd SW Song ANK Ltd

GS Tech Solutions Taek Jean Hwang

**TAIWAN** 

**Iack Lee** Shiny Lee

**CHINA** 

Daniel Cheng Lungshun Cheng Steven Shiying

OEA Bridge Link OEA Bridge Link

**THAILAND** 

Manu Mekdhanasarn Patcharee Parkong

Siam Anglo Alloy Company Ltd Siam Anglo Alloy Company Ltd

**VIETNAM** 

Manu Mekdhanasarn Patcharee Parkong Tran Thi Thanh Thuy

Siam Anglo Alloy Company Ltd Siam Anglo Alloy Company Ltd Thang Long Mechanics Equipment Co

**INDONESIA** 

Yovinus Krisnanto PT Wilisindomas Indahmakmur

**MALAYSIA** 

Manu Mekdhanasarn Patcharee Parkong Chek Tay

Siam Anglo Alloy Company Ltd Siam Anglo Alloy Company Ltd Lustre Specialty Materials

**SINGAPORE** 

Manu Mekdhanasarn Patcharee Parkong

Siam Anglo Alloy Company Ltd Siam Anglo Alloy Company Ltd

**INDIA** 

Sachin Kumar

**AUSTRALIA/NEW ZEALAND** 

Doug Loader Extrusion Machine Co New Zealand



Our global presence is key to our success



EXTRUSION CONFERENCE SPONSOR

March 15 - 17, 2018 California, USA



EXTRUSION
PRESS MAINTENANCE
WORKSHOP

April 16 - 17, 2018 Atlanta, USA



EXTRUSION TABLE TOP EXHIBIT

September 11 -13, 2018 Chicago, USA



EXTRUSION TRADE SHOW

October 9 - 11, 2018 Dusseldorf, Germany



DIE CAST TRADE SHOW BOOTH # 514

October 15 - 17, 2018 Indianapolis, USA



DIE CAST TRADE SHOW

October 24 -26, 2018 Guadalajara, Mexico



DIE CAST TRADE SHOW

November 8 - 10, 2018 Yokohama, Japan



EXTRUSION & DIE CAST TRADE SHOW

November 21 - 24, 2017 Bangkok, Thailand



DIE CAST TRADE SHOW

December 6 - 8 2018 New Delhi, India