one stop shopping

for die casters and foundries

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www.dykast.com • sales@dykast.com
Established in 1961, DY-KAST Supply is a major distributor and manufacturer of non-ferrous die casting, foundry, and forging supplies.

With the widest variety of products in the industry, and with our new online ordering capabilities, we are your "ONE STOP SHOPPING" source for all your supplies and equipment.

We have the ability and resources to provide our customers with custom products made to suit your individual needs and requirements. Provide us with a drawing and dimensions and we'll provide you with a proposal and a quality made product. Contact us for additional information.

We are continually adding to our Product Line so if there is a something you are looking for but don't see it here, contact us and we may be able to help. We have a library of resources enabling us to purchase for you or refer you to for just about anything the industry requires. Our experienced and knowledgeable staff is here to assist you.

Our new home! In 2000, DY-KAST moved into it's new headquarters with larger warehouse space in Avon, Ohio. Our new facilities affords us to provide unmatched delivery and service for all your supply and equipment needs.
1 Ladles
   Spincraft Hand Ladles
   Half Ball Hand Ladles
   Dipping Ladles
   Transfer Ladles
   Auto Ladles

5 Skimmers
   Stub Handle Skimmers
   Deep Dish Skimmers
   Bolt on Handle Skimmers
   Square Skimmers

7 Die Clamps
   T-Slot Bolts, Hex Nuts, Washers
   Open Toe-Adjustable Die Clamps

9 Tongs

10 Cleaning Tools

11 Disc Molds

12 Testing Equipment
   Sampling Cups

13 Plunger and Stoppers

14 Thermocouple Assemblies

15 Protection Tubes

16 Crane Ladles

17 Thermometers

19 Pyrometers

20 Torches

21 Die Heaters

23 Sow Molds

25 Kettles and Pots

26 Funnels

29 Ingot Molds

30 Mold Bench

31 Pumps

33 Mixers

35 Protection Pads

36 Melting Equipment

37 Furnaces

39 Insulating Powder

40 Release Coat

41 Hardcoat

43 Metal Quik®

44 Never•Seez

45 Slapstick Lubricant

46 Beeswax

47 Nozzle Gaskets

48 Plunger and Pin Lube

49 Safety Products
**Spin Craft Hand Ladles**

Spun Stainless Steel or Mild Steel Ladles

In stock for IMMEDIATE shipment!

**Also Available Cup Only**
All Ladles Have 20 3/4” x 3/4” Wide Flat Handles

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Cap Aluminum</th>
<th>Diameter of Ladle</th>
</tr>
</thead>
<tbody>
<tr>
<td>S 1/4</td>
<td>1/4 lb.</td>
<td>2 7/8”</td>
</tr>
<tr>
<td>S 1/2</td>
<td>1/2 lb.</td>
<td>3 3/16”</td>
</tr>
<tr>
<td>S 3/4</td>
<td>3/4 lb.</td>
<td>3 9/16”</td>
</tr>
<tr>
<td>S 1</td>
<td>1 lb.</td>
<td>3 3/4”</td>
</tr>
<tr>
<td>S 1 1/4</td>
<td>1 1/4 lb.</td>
<td>4 1/16”</td>
</tr>
<tr>
<td>S 1 1/2</td>
<td>1 1/2 lb.</td>
<td>4 1/4”</td>
</tr>
<tr>
<td>S 1 3/4</td>
<td>1 3/4 lb.</td>
<td>4 5/8”</td>
</tr>
<tr>
<td>S 2</td>
<td>2 lb.</td>
<td>4 13/16”</td>
</tr>
<tr>
<td>S 2 1/2</td>
<td>2 1/2 lb.</td>
<td>5 1/16”</td>
</tr>
<tr>
<td>S 3</td>
<td>3 lb.</td>
<td>5 3/8”</td>
</tr>
<tr>
<td>S 3 1/2</td>
<td>3 1/2 lb.</td>
<td>5 1/2”</td>
</tr>
<tr>
<td>S 4</td>
<td>4 lb.</td>
<td>5 3/4”</td>
</tr>
</tbody>
</table>

For Mild Steel Replace “S” with “M” in Part Number

<table>
<thead>
<tr>
<th>Part No.</th>
<th>LB. Cap Aluminum</th>
<th>Diameter of Ladle</th>
</tr>
</thead>
<tbody>
<tr>
<td>S 5</td>
<td>5 lb.</td>
<td>6 1/4”</td>
</tr>
<tr>
<td>S 6</td>
<td>6 lb.</td>
<td>6 1/2”</td>
</tr>
<tr>
<td>S 7</td>
<td>7 lb.</td>
<td>6 15/16”</td>
</tr>
<tr>
<td>S 8</td>
<td>8 lb.</td>
<td>7 1/16”</td>
</tr>
<tr>
<td>S 9*</td>
<td>9* lb.</td>
<td>7 1/4”</td>
</tr>
<tr>
<td>S 10*</td>
<td>10* lb.</td>
<td>7 3/8”</td>
</tr>
<tr>
<td>S 12*</td>
<td>12* lb.</td>
<td>7 15/16”</td>
</tr>
<tr>
<td>S 15*</td>
<td>15* lb.</td>
<td>8 3/8”</td>
</tr>
<tr>
<td>S 20**</td>
<td>20** lb.</td>
<td>9 1/4”</td>
</tr>
<tr>
<td>S 25**</td>
<td>25** lb.</td>
<td>9 15/16”</td>
</tr>
<tr>
<td>S 30**</td>
<td>30** lb.</td>
<td>10 3/8”</td>
</tr>
</tbody>
</table>

* Stub Handle to fit 1/2” Pipe
** Stub Handle to fit 3/4” Pipe

9% Discount for 10 or more in any one size
**Half Ball Hand Ladles**

In stock for IMMEDIATE shipment!

**Drawn From 10 Gage 304 Stainless Steel**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Cap Aluminum</th>
<th>Diameter</th>
<th>Depth of Ladle</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSH-2</td>
<td>1/4 lb.</td>
<td>2&quot;</td>
<td>1 1/4&quot;</td>
</tr>
<tr>
<td>DSH-2 1/2</td>
<td>1/2 lb.</td>
<td>2 1/2&quot;</td>
<td>1 1/2&quot;</td>
</tr>
<tr>
<td>DSH-3</td>
<td>3/4 lb.</td>
<td>3&quot;</td>
<td>1 3/4&quot;</td>
</tr>
<tr>
<td>DSH-3 1/2</td>
<td>1 lb.</td>
<td>3 1/2&quot;</td>
<td>2 1/8&quot;</td>
</tr>
<tr>
<td>DSH-4</td>
<td>1 3/4 lb.</td>
<td>4&quot;</td>
<td>2 3/8&quot;</td>
</tr>
<tr>
<td>DSH-4 1/2</td>
<td>2 1/4 lb.</td>
<td>4 1/2&quot;</td>
<td>2 5/8&quot;</td>
</tr>
<tr>
<td>DSH-5</td>
<td>3 3/4 lb.</td>
<td>5&quot;</td>
<td>2 7/8&quot;</td>
</tr>
<tr>
<td>DSH-6</td>
<td>6 1/4 lb.</td>
<td>6&quot;</td>
<td>3 1/4&quot;</td>
</tr>
</tbody>
</table>

**Drawn From 10 Gage Hot Rolled Steel**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Cap Aluminum</th>
<th>Diameter</th>
<th>Depth of Ladle</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMH-2</td>
<td>1/4 lb.</td>
<td>2&quot;</td>
<td>1 1/4&quot;</td>
</tr>
<tr>
<td>DMH-2 1/2</td>
<td>1/2 lb.</td>
<td>2 1/2&quot;</td>
<td>1 1/2&quot;</td>
</tr>
<tr>
<td>DMH-3</td>
<td>3/4 lb.</td>
<td>3&quot;</td>
<td>1 3/4&quot;</td>
</tr>
<tr>
<td>DMH-3 1/2</td>
<td>1 lb.</td>
<td>3 1/2&quot;</td>
<td>2 1/8&quot;</td>
</tr>
<tr>
<td>DMH-4</td>
<td>1 3/4 lb.</td>
<td>4&quot;</td>
<td>2 3/8&quot;</td>
</tr>
<tr>
<td>DMH-4 1/2</td>
<td>2 1/4 lb.</td>
<td>4 1/2&quot;</td>
<td>2 5/8&quot;</td>
</tr>
<tr>
<td>DMH-5</td>
<td>3 3/4 lb.</td>
<td>5&quot;</td>
<td>2 7/8&quot;</td>
</tr>
<tr>
<td>DMH-6</td>
<td>6 1/4 lb.</td>
<td>6&quot;</td>
<td>3 1/4&quot;</td>
</tr>
</tbody>
</table>
heavy duty dipping ladles
Available With or Without Handles

In stock for IMMEDIATE shipment!

Ladle With 36" Handle & Grip

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Size</th>
<th>Cap. Aluminum</th>
</tr>
</thead>
<tbody>
<tr>
<td>DL-4SH</td>
<td>8&quot; x 4 3/8&quot;</td>
<td>15 lb.</td>
</tr>
<tr>
<td>DL-4MH</td>
<td>8&quot; x 4 3/8&quot;</td>
<td>15 lb.</td>
</tr>
<tr>
<td>DL-6MH</td>
<td>8&quot; x 6&quot;</td>
<td>20 lb.</td>
</tr>
<tr>
<td>DL-8MH</td>
<td>8&quot; x 8&quot;</td>
<td>30 lb.</td>
</tr>
<tr>
<td>DL-10MH</td>
<td>8&quot; x 10&quot;</td>
<td>40 lb.</td>
</tr>
</tbody>
</table>

Bowl Only

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Size</th>
<th>Cap. Aluminum</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>DL-4SB</td>
<td>8&quot; x 4 3/8&quot;</td>
<td>15 lb.</td>
<td>4 3/4 lb.</td>
</tr>
<tr>
<td>DL-4MB</td>
<td>8&quot; x 4 3/8&quot;</td>
<td>15 lb.</td>
<td>4 3/4 lb.</td>
</tr>
<tr>
<td>DL-6MB</td>
<td>8&quot; x 6&quot;</td>
<td>20 lb.</td>
<td>5 1/5 lb.</td>
</tr>
<tr>
<td>DL-8MB</td>
<td>8&quot; x 8&quot;</td>
<td>30 lb.</td>
<td>6 1/4 lb.</td>
</tr>
<tr>
<td>DL-10MB</td>
<td>8&quot; x 10&quot;</td>
<td>40 lb.</td>
<td>7 lb.</td>
</tr>
</tbody>
</table>
**Light Weight Transfer Ladles**

30 Lb. Aluminum Capacity

In stock for IMMEDIATE shipment!

**Auto Ladles**

Made to your specifications. Various Sizes Available

Stainless Steel for Extra Long Life

Rimrock Type Ladle

Snair Type Ladle

Fabricated from 304 Stainless Steel For Extra Long Life
**Stainless Steel Skimmers**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Heavy Duty Stainless</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>DKS 6</td>
<td>.090 Thickness</td>
<td>6”</td>
</tr>
<tr>
<td>DKS 8</td>
<td>.090 Thickness</td>
<td>8”</td>
</tr>
<tr>
<td>DKS 10</td>
<td>.090 Thickness</td>
<td>10”</td>
</tr>
<tr>
<td>DKS 12</td>
<td>.090 Thickness</td>
<td>12”</td>
</tr>
</tbody>
</table>

**Mild Steel Skimmers**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Heavy Duty Mild Steel</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>DKS 6</td>
<td>11 Gauge H.R.</td>
<td>6”</td>
</tr>
<tr>
<td>DKS 8</td>
<td>11 Gauge H.R.</td>
<td>8”</td>
</tr>
<tr>
<td>DKS 10</td>
<td>11 Gauge H.R.</td>
<td>10”</td>
</tr>
<tr>
<td>DKS 12</td>
<td>11 Gauge H.R.</td>
<td>12”</td>
</tr>
</tbody>
</table>

**Deep Dish Mild Steel Skimmers with Long Handles**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Bowl-Diameter</th>
<th>Depth</th>
<th>Thickness</th>
<th>Holes Diameter</th>
<th>Handle Sizes</th>
<th>Net Weight lbs. (approximately)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DD 3</td>
<td>3”</td>
<td>1/2”</td>
<td>13 ga.</td>
<td>1/4”</td>
<td>3/8” x 18”</td>
<td>1 lb.</td>
</tr>
<tr>
<td>DD 4</td>
<td>4”</td>
<td>7/8”</td>
<td>13 ga.</td>
<td>1/4”</td>
<td>3/8” x 18”</td>
<td>1 1/8 lbs.</td>
</tr>
<tr>
<td>DD 5</td>
<td>5”</td>
<td>1”</td>
<td>11 ga.</td>
<td>1/4”</td>
<td>7/16” x 28”</td>
<td>2 3/4 lbs.</td>
</tr>
<tr>
<td>DD 6</td>
<td>6”</td>
<td>1 1/4”</td>
<td>11 ga.</td>
<td>1/4”</td>
<td>7/16” x 28”</td>
<td>3 1/4 lbs.</td>
</tr>
<tr>
<td>DD 8</td>
<td>8”</td>
<td>1 5/8”</td>
<td>11 ga.</td>
<td>1/4”</td>
<td>1/2” x 33”</td>
<td>4 3/4 lbs.</td>
</tr>
<tr>
<td>DD 10</td>
<td>10”</td>
<td>1 3/4”</td>
<td>9 ga.</td>
<td>1/4”</td>
<td>9/16” x 42”</td>
<td>7 3/4 lbs.</td>
</tr>
<tr>
<td>DD 12</td>
<td>12”</td>
<td>2 3/8”</td>
<td>9 ga.</td>
<td>1/4”</td>
<td>9/16” x 42”</td>
<td>9 1/2 lbs.</td>
</tr>
</tbody>
</table>

In stock for IMMEDIATE shipment!
skimmers for bolt on handles

Bolt on Handles sold separately.

Handles made from 1/2” round stock, 36” long with grips.

Stainless Steel Skimmers

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Heavy Duty Stainless</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>DKSL-6</td>
<td>.090 Thickness</td>
<td>6”</td>
</tr>
<tr>
<td>DKSL-8</td>
<td>.090 Thickness</td>
<td>8”</td>
</tr>
<tr>
<td>DKSL-10</td>
<td>.090 Thickness</td>
<td>10”</td>
</tr>
<tr>
<td>DKSL-12</td>
<td>.090 Thickness</td>
<td>12”</td>
</tr>
</tbody>
</table>

Mild Steel Skimmers

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Heavy Duty Mild Steel</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>DKML-6</td>
<td>11 Gauge H.R.</td>
<td>6”</td>
</tr>
<tr>
<td>DKML-8</td>
<td>11 Gauge H.R.</td>
<td>8”</td>
</tr>
<tr>
<td>DKML-10</td>
<td>11 Gauge H.R.</td>
<td>10”</td>
</tr>
<tr>
<td>DKML-12</td>
<td>11 Gauge H.R.</td>
<td>12”</td>
</tr>
</tbody>
</table>

square skimmers

Available in Stainless or Mild Steel

Various Sizes Available

www.dykast.com
sales@dykast.com
die clamps
Made of Tough Ductile Iron

DKG-6

Heel

DKG-4

Heel

<table>
<thead>
<tr>
<th>Stock Sizes</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>DKO-6</td>
<td>6&quot; x 1&quot; x 2 1/2&quot;</td>
</tr>
<tr>
<td>DKG-6</td>
<td>6&quot; x 1 1/2&quot; x 2 1/2&quot;</td>
</tr>
<tr>
<td>DKO-4</td>
<td>4&quot; x 1&quot; x 2 1/2&quot;</td>
</tr>
<tr>
<td>DKG-4</td>
<td>4&quot; x 1 1/2&quot; x 2 1/2&quot;</td>
</tr>
</tbody>
</table>

Remove Heel for DKO-6 and DKO-4

"T" SLOT BOLTS, HEX NUTS, WASHERS, "T" SLOT NUTS

Various Sizes Available

IN STOCK FOR IMMEDIATE SHIPMENT
open toe-adjustable
Made of Forged Steel

5" LONG - 3/4" - 10 Thread

7" LONG - 3/4" - 10 Thread
tongs

Custom Tongs Also Available - Call For Information

Style No. PM-1

Style No. PM-2

Style No. PM-3

Style No. PM-4

Style No. IT-30

30# Ingat Tong

(6 lbs)
They include a 6" extension allowing you to place a 1-1/2" I.D. Schedule 40 pipe (not included) to be welded and cut to your desired length.
spectrograph

disc molds

For Sampling Molten Metal

IN STOCK

Special Features
• Made in various sizes
• Offered in two styles
  - cast iron vertical pour and
  - steel horizontal pour

IN STOCK FOR IMMEDIATE SHIPMENT

Specifications
Mold Type: Disc mold vertical pour with center recess.
Shape: Disc  Dimensions: Thickness - 7/32”
          Diameter - 2 1/2”
Usage: Zinc, Aluminum, Lead and Magnesium base alloys.
ASTM E-2 Reference:
  E-101-53 T
  SM 6-6, 6-15
  SM 6-18, 6-19
  SM 7-10, 7-13
Hydrogen gas is a major problem in aluminum foundries. With this system you are assured of a highly accurate method of monitoring the gas level in your foundry melt on a continuous basis. This has proven to be an invaluable tool in today’s quality conscious aluminum foundry.

Features
• Adjustable gauge with calibration port for manometer hook-up
• Heavy-duty coupon crucible with greater draft for improved sample removal
• Twin diaphragm vacuum pump*
• Quick vacuum release
• Pre-calibrated gauge checked at 26” x 28” of HG
* Can obtain 28.5” of HG

Dimension: 11” x 23” x 13” Weight: 50 lbs. (110kg)

Sampling cups
1/4 # Aluminum capacity stainless steel cup with stub handle.

For use in Reduced Pressure Testing Equipment. Will fit most brands.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC-1/4</td>
<td>Crucible 1/4 lb. with Welded Handle</td>
</tr>
</tbody>
</table>
**Plunger and Stoppers**

*In Stock*

*For Melting and Holding*

**Degasser Plunger**

Plunger to be used in connection with De-Gasser Pellets

5” also in stock

**Stopper #9001**

Other sizes available

To control flow of metal from furnace.
CERITE

thermocouple assemblies

For Molten Aluminum and Zinc
Made of 85% Alumina and 4% Silica

Cerite-III: Series #15 - 25
This unitized construction, combines a Cerite protection tube with an integral thermocouple element to form a complete thermocouple assembly. A .324" thick wall of non-wetting Cerite is cast around a 1/4" NPT steel pipe, which contains an integral 14 gauge ceramic insulated thermocouple element, and the fiberglass-insulated leads. The 1.187" overall diameter provides good temperature response times. This combination assembly is a very cost-effective means of measuring molten aluminum process temperatures. Available in lengths up to 36" long.

Cerite® Benefits
- **Mechanical Strength:** A thick wall of Cerite is cast around a steel pipe to provide both support for the castable material and to provide mechanical strength to resist breakage in process applications.
- **Thermal Shock:** Superior performance against other ceramic, silicon carbide, and refractory protection tubes. Does require some preheating and slow immersion into the molten metal as does other protection tubes.
- **Temperature Response:** Comparison testing against cast iron, silicon carbide, and other cast protection tubes resulted in comparable rates of temperature rise and response times.
- **Non-Wetting Capabilities:** Castable Cerite material was developed for molten aluminum applications and it has excellent non-wetting properties: it is erosion-resistant, and slag build-ups can be easily removed.
- **Contamination:** The high alumina content (85%) and a low content of silica (4%) make these Cerite protection tubes very low contaminating devices.
- **Maximum Service Temperature:** The castable Cerite material has a high temperature rating of 2800°F (1538°C), but its use as a thermocouple protection tube is generally limited to the temperature of molten aluminum or a maximum temperature of 1500°F (815°C).
- **Useful Service Life:** Side-by-side comparison testing of Cerite against all other protection tubes has resulted in equal or better service life. Actual service life will depend on the care, handling, and the alloy the tubes are being used in, and no defined life expectancy can be stated.
- **Mounting:** All unitized Cerite III thermocouple assemblies are provided with 1/2" NPT male pipe connecting threads for ease of mounting without the need for expensive and cumbersome fittings as are required on silicon carbide and other assemblies. Installation and down-time is greatly reduced.
- **Cost Effectiveness:** The use of unitized Cerite-III thermocouple assemblies provides a cost-effective solution to measuring molten aluminum process temperatures. They have a lower, or comparable, initial cost than other tubes and assemblies. Their useful service life, mechanical strength, non-wetting properties, resistance to thermal shock, and ease of mounting with reduced down-time, all combine to make the Cerite series of protection tubes a very cost effective tool in the molten aluminum process industry.

For Molten Aluminum and Zinc
Made of 85% Alumina and 4% Silica
The basic material is alloyed iron, coated with a specially developed ceramic coating to give longer life to the iron tube and to free the molten metal from iron contamination. The ceramic coating consists of alumina, feldspar, borax, and cobalt, and has properties not available in any of these components alone. The metal adds to the thermal conductivity and shock resistance. The ceramic coating adds resistance to deformation, oxidation and solution attack. These tubes are highly resistant to attach of molten aluminum, zinc, and lead.

These particular thermocouple protection tubes are recommended for continuous immersion in the fore-said solutions. They are of rugged construction; the ceramic coating is designed to resist thermal shock and abrasion from loading and unloading the furnaces.


We also handle a complete line of thermocouple elements, straight or angle type, 9-or 10-gauge.
Crane Ladles are available in many sizes and designs.

Custom made to your specifications.

Please contact us for additional information.

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>9323-215-2540</td>
<td>300</td>
<td></td>
<td>21.50</td>
<td>19.50</td>
<td>21.50</td>
<td>42.50</td>
<td>8.00</td>
<td>17.00</td>
<td>29.25</td>
<td>2.00</td>
<td>1.50</td>
<td>.25</td>
<td>.19</td>
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<tr>
<td>9323-270-3050</td>
<td>700</td>
<td></td>
<td>27.00</td>
<td>25.00</td>
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<td>.19</td>
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<tr>
<td>9323-405-4060</td>
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<td>36.50</td>
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<td>3.00</td>
<td>3.50</td>
<td>.31</td>
<td>.25</td>
</tr>
</tbody>
</table>

*Height “D” is reduced by “LH” with Low Headroom Bail option. V-Bails are available.

Note: Capacities are in pounds. Dimensions are in inches and are subject to change.
Introducing the new low cost, hand held infrared thermometer PockeTherm fits comfortably in your hand and in your pocket.

The new range of compact PockeTherm infrared radiation thermometers are simple and easy to operate, with advance features which provide accurate spot temperature measurement without contact applications in fields such as refrigeration show cases, transportation, storage, electronic/mechanical parts, food processing, construction, power facilities.

**Four models are available: PockeTherm 30, PockeTherm 30A, PockeTherm 31, and PockeTherm 32.**  

The new low cost PockeTherm 30 portable thermometer has a measurement range of -40 to 400°C / -40 to 752°F. It uses the latest laser technology to accurately pinpoint and define the measurement area. Simply aim the thermometer, press the trigger and read the temperature on the bright back-lit LCD display, which illuminates automatically in low light conditions. The **new PockeTherm 30A** has all the features of the PockeTherm 30 and also offers the choice of continuous, peak and monitor modes, it also has an audible alarm. The new **PockeTherm 31 and 32** have all the features of the PockeTherm 30 and 30A but have an extended measurement range of -50 to 500°C/-50 to 932°F. The **new PockeTherm 32** provides a measurement area of only 2.5mm/0.1in diameter at 27mm/1.06in - with 2 LED Beams.

The new PockeTherm series of thermometers offer:

- Accurate, fast response
- Palm sized, easy to hold to use
- Only requires 2 AA batteries
- Clearly defined target measurement area

They are ideal in a wide range of industries including:

- Food - ‘Dangerous Zone’ measuring, coolers, ovens
- Electrical - power supplies, component testing, hot spots
- Automotive - cylinders and manifolds, wheel bearings, brakes
- Maintenance/Condition monitoring in any industry
Why Circular Laser Targeting??
To be certain of what you are measuring!!!

The circular laser targeting system, utilized by the PockeTherm thermometers, provides a clear definition of the target area being measured.

A center spot laser does not define the target area.

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Land PockeTherm 30</th>
<th>Land PockeTherm 30A</th>
<th>Land PockeTherm 31</th>
<th>Land PockeTherm 32</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target Applications</td>
<td>Food Industry</td>
<td>Maintenance/</td>
<td>Electrical/</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Predictive and Preventive Maintenance</td>
<td>Condition Monitoring</td>
<td>Electronic Industry</td>
<td></td>
</tr>
<tr>
<td>Temperature Range</td>
<td>-40 to 400°C/-40 to 752°F</td>
<td>-50 to 500°C/-50 to 932°F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Uncertainty</td>
<td>± 1%</td>
<td>± 2°C/3.6°F</td>
<td>± 5°C/9°F</td>
<td></td>
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<tr>
<td>Above 200°C/392°F</td>
<td>(emissivity 1.00, 10 to 18°C ambient temp.)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Below 0°C/32°F</td>
<td>± 5°C/9°F</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Repeatability</td>
<td>within 1°C/1.8°F</td>
<td>± 0.5°C/0.9°F</td>
<td></td>
<td></td>
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<tr>
<td>Above 200°C/392°F</td>
<td>(emissivity 1.00, 10 to 18°C ambient temp.)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spectral Response</td>
<td>8 to 14μm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Measuring Area</td>
<td>70mm/2.76in dia at 1000mm/39.37in</td>
<td></td>
<td>2.5mm/0.1in dia at 27mm/1.06in</td>
<td></td>
</tr>
<tr>
<td>Display Mode</td>
<td>Measure (cont.)</td>
<td>Cont., Peak, Valley</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Display</td>
<td>External LCD, Backlit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Response Time</td>
<td>2s (to 90%)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Targeting System</td>
<td>Circle (Laser Diode), 1.0mW max, 550nm</td>
<td>2 Beams (Laser Diode), 1.0 mW max, 550nm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lens</td>
<td>Si</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emissivity Adjustment</td>
<td>0.95, 0.90, 0.85 Selectable</td>
<td>0.1 to 1.00 in 0.01 increments</td>
<td></td>
<td></td>
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<tr>
<td>Alarms</td>
<td>-</td>
<td>Audible Alarm (Upper/Lower)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sealing</td>
<td>IP54</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Supply</td>
<td>2 AA-Size Batteries, 3V, 65mA, Auto Power Save</td>
<td>Approx 20 hours (laser operating, continuous use)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Battery Life</td>
<td>Approx 20 hours (laser operating, continuous use)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>27.5x44.0x152.0mm/1.08 x 1.73 x 5.98in</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>0.14kg/0.30lb</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# Hand Held Pyrometers

![Hand Held Pyrometers](image)

<table>
<thead>
<tr>
<th>Features</th>
<th>Single Range Model 28-02700</th>
<th>Multi Range Model 28-02800</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermocouple Input Type(s)</td>
<td>J, K, or T</td>
<td>J, K, T, &amp; E</td>
</tr>
<tr>
<td>Number of Inputs</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>LCD Display</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Mini T/C Plug Connection(s)</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Selectable F° or C°</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Temperature Hold</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Low Battery</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Field Calibration</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Calibration Lockout</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Differential Temperature</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Minimum Temperature</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Maximum Temperature</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Memory Store</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Recall</td>
<td>•</td>
<td>•</td>
</tr>
</tbody>
</table>
Introducing the new oxy/propane or natural gas, AB3B LiquiFire Air Blast Torch and AB Air Blast Tips for use in die casting and similar industries. The multi-orifice heating tip quickly melts low temp casting materials (such as aluminum and zinc) and the air blast removes the material from the die.

**Features and Benefits:**
- Combination heating and air blast torch quickly clears dies
- Torch and tips are fueled by either low cost propane or natural gas and oxygen
- Reduced Flame temperature compared to oxy/acetylene torches reduces damage to expensive tool steel dies
- Replaceable LiquiFire Air Blast tips available in a range of sizes
Benefit From These Operating Advantages

**Reduced Die Maintenance, Increased Die Life**
By pre-heating the dies, you reduce the differential between operating and room temperature. The less temperature difference, the less thermal shock and strain on the tooling which leads to die checking. Hence, the lower the thermal shock, the lower the die maintenance and the greater the service life. **Die life may be extended as much as 300%.**

**Even Die Temperatures**
Some methods of die pre-heating result in extreme unevenness in die temperature. On an average die these extremes could range from relatively cool spots to burned core pins and annealed sections. Using an Aitken infrared die heater, the die temperature will vary approximately 10°F per inch of distance from the unit. Hence, a die cavity four inches deep would be only 40°F lower in temperature than the die surface.

**Faster Die Warm-Up**
Many die sections can be pre-heated in a machine to temperatures of 325°F within one hour. For example, we are currently heating a 24"x 48"x 10" two cavity die on a 1000 ton Lester machine. At the end of one hour, we are attaining 315°F using two 13.5 kilowatt heaters, one for each die cavity.

**No Burned Core Pins or Hoses**
The electric heating element has a maximum surface temperature of 1550°F. Should the element come in contact with a core pin, there would not be enough BTUs at the point of contact to cause any harm.

**Clean Heat**
With the Aitken electric heater, there are no by-products of combustion such as carbon which must be removed from the die surface before operation.
Get a Pre-Heated Die at Shift Start

The die heater can be installed after shut-down and programmed to start heating at the start of the first shift. This allows production to begin at the start of the shift without costly waiting for die warm-up.

Eliminate Scrap at Start-Up

Many of our customers are producing good castings immediately after starting operations. This is accomplished only by using the Aitken Die Heater.

Maintain Die Heat During Production Breaks

Eliminates the need for turning water lines off and on. Just insert heater in the machine with dies wide open and you’ll have enough heat to maintain die temperature.

Can be used in Die Casting, Permanent Mold or Forging

Standard Sizes Shipped Within 24 Hours!

<table>
<thead>
<tr>
<th>Model</th>
<th>Element #</th>
<th>No. of Elements</th>
<th>Total KW of Heater</th>
<th>Heaters Volts</th>
<th>Watts</th>
<th>Phase</th>
<th>Heater Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>DH923</td>
<td>HE15024</td>
<td>6</td>
<td>9</td>
<td>240</td>
<td>1500</td>
<td>3</td>
<td>12&quot;x 22&quot;x 4&quot;</td>
<td>19 lbs.</td>
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<tr>
<td>DH928</td>
<td>HE15020</td>
<td>6</td>
<td>9</td>
<td>208</td>
<td>1500</td>
<td>3</td>
<td>12&quot;x 22&quot;x 4&quot;</td>
<td>19 lbs.</td>
</tr>
<tr>
<td>DH943</td>
<td>HE15048</td>
<td>6</td>
<td>9</td>
<td>480</td>
<td>1500</td>
<td>3</td>
<td>12&quot;x 22&quot;x 4&quot;</td>
<td>19 lbs.</td>
</tr>
<tr>
<td>DH955</td>
<td>*HE15027</td>
<td>6</td>
<td>9</td>
<td>550</td>
<td>1500</td>
<td>3</td>
<td>12&quot;x 22&quot;x 4&quot;</td>
<td>19 lbs.</td>
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<tr>
<td>DH13523</td>
<td>HE15024</td>
<td>9</td>
<td>13.5</td>
<td>240</td>
<td>1500</td>
<td>3</td>
<td>20&quot;x 22&quot;x 4&quot;</td>
<td>25 lbs.</td>
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<tr>
<td>DH13543</td>
<td>HE15048</td>
<td>9</td>
<td>13.5</td>
<td>480</td>
<td>1500</td>
<td>3</td>
<td>20&quot;x 22&quot;x 4&quot;</td>
<td>25 lbs.</td>
</tr>
<tr>
<td>DH13523</td>
<td>HE15024</td>
<td>9</td>
<td>13.5</td>
<td>240</td>
<td>1500</td>
<td>3</td>
<td>17-1/2&quot;x 22&quot;x 4&quot;</td>
<td>25 lbs.</td>
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<tr>
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<td>SP HE15048</td>
<td>9</td>
<td>13.5</td>
<td>480</td>
<td>1500</td>
<td>3</td>
<td>17-1/2&quot;x 22&quot;x 4&quot;</td>
<td>25 lbs.</td>
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<tr>
<td>DH15553</td>
<td>*HE15027</td>
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<td>15</td>
<td>550</td>
<td>1500</td>
<td>3</td>
<td>20&quot;x 22&quot;x 4&quot;</td>
<td>25 lbs.</td>
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<tr>
<td>DH3023</td>
<td>HE25024</td>
<td>12</td>
<td>30</td>
<td>240</td>
<td>2500</td>
<td>3</td>
<td>24&quot;x 34&quot;x 5&quot;</td>
<td>48 lbs.</td>
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<tr>
<td>DH3043</td>
<td>*HE25024</td>
<td>12</td>
<td>30</td>
<td>480</td>
<td>2500</td>
<td>3</td>
<td>24&quot;x 34&quot;x 5&quot;</td>
<td>48 lbs.</td>
</tr>
<tr>
<td>DH3055</td>
<td>*HE25027</td>
<td>12</td>
<td>30</td>
<td>550</td>
<td>2500</td>
<td>3</td>
<td>24&quot;x 34&quot;x 5&quot;</td>
<td>48 lbs.</td>
</tr>
<tr>
<td>DH4043</td>
<td>*HE22524</td>
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<td>2250</td>
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<td>DH4055</td>
<td>*HE22527</td>
<td>18</td>
<td>40</td>
<td>550</td>
<td>2250</td>
<td>3</td>
<td>30&quot;x 34&quot;x 5&quot;</td>
<td>77 lbs.</td>
</tr>
</tbody>
</table>

*Elements wired in series
aluminum sow molds with legs

CALL FOR QUOTATION
Made of Cast Steel
CALL FOR QUOTATION

2000 lb. Aluminum Capacity

- Also Available in Cast Iron and Ductile Iron
- Other Sizes Available
  - 1000 lbs.
  - 1200 lbs.
  - 1500 lbs.

low profile sow mold

CALL FOR STYLES, SHAPES AND SIZES

www.dykast.com
sales@dykast.com
aluminum sow molds

To Fit Most Die Casting Machines

- Also Available in Cast Iron and Ductile Iron
- Other Sizes Available 1000 lbs., 1200 lbs., 1500 lbs., and 2000 lbs.

Call for quotation

Made of Cast Steel

1200 lb. Aluminum Capacity                                              1500 lb. Aluminum Capacity

CALL FOR ADDITIONAL STYLES, SHAPES AND SIZES
melting kettles & machine holding pots

To Fit Most Die Casting Machines

Call for quotation

sales@dykast.com
castable funnels
For Molten Aluminum and Zinc

sales@dykast.com
www.dykast.com
Castable funnels

- Funnel increases life of shot sleeve by interrupting free-fall drop of molten aluminum, minimizing washout below pour hole.
- Eliminates costly spillage - assuring full amount of aluminum to fill the cavity, thereby reducing scrap percentage.
- Excellent welding capabilities - steel casting - not cast iron.
- Excellent for auto-ladle equipment.
- Can be positioned directly over the pour spout. Maximum clearance required to clear platen position 3/8" - clamp directly over the pour hole.
- 3" diameter outside throat dimension allows for further machining to suit size of pour hole.
- Funnel can be assembled on shot sleeve without requiring removal of shot sleeve. Assembly time - approximately 5 to 10-minute maximum.

- Reduce operator fatigue
- Excellent adaptability - auto ladle equipment
- Not subject to chipping or breakage
funnel adapters

- Reduces operator fatigue
- Eliminates costly spillage
- Excellent adaptability for automatic ladle equipment
- A steel casting - not subject to chipping/breakage
- Funnels increase shot sleeve life by interrupting free fall height of molten aluminum, thereby minimizing wash out below the pour hole.

- Excellent for automatic ladle equipment
- Not subject to cracking or chipping
- Funnels increase shot sleeve life by interrupting free fall height of molten aluminum, thereby minimizing wash out below the pour hole.
- Eliminates costly spillage
aluminum ingot molds
Alloyed Iron Aluminum Molds

Approximate Weight of Mold
Weight of Aluminum Ingot

**No. A-15**
Length at Top: 27”
Width at Top: 4-1/2”
Depth: 2”

Approximate Weight of Mold: 70 lbs.
Weight of Aluminum Ingot: 15 lbs.

**Ingot Size**

**No. A-30**
Length at Top: 28”
Width at Top: 4-1/2”
Depth: 3”

Approximate Weight of Mold: 98 lbs.
Weight of Aluminum Ingot: 30 lbs.

**Ingot Size**

**No. ALC**
Length at Top: 28-1/4”
Width at Top: 5”
Width at Bottom: 2-1/2”
Depth: 4-1/4”

Approximate Weight of Mold: 101 lbs.
Weight of Aluminum Ingot: 30 lbs.

**Ingot Size**

**OTHER INGOT MOLDS ALSO AVAILABLE**
**CALL FOR INFORMATION**
**ALC aluminum mold bench**

*For 30 lb. Air-Cooled Aluminum Ingot Molds*

For use with ALC Ingot Mold
Bench includes 5 ALC Ingot Molds
Comes with or without casters

Can be made to hold less or more ALC Ingot Molds

[Diagram of the mold bench with dimensions: 36.58" x 53.5" x 36.5"]

[Website: www.dykast.com]

[Email: sales@dykast.com]
PUMPS

adjustable portable pumps
For Zinc Die Cast & Lead Applications

Specifications
Capacity: Approximately 750 lbs. of die cast per minute; 1500 lb. in lead.

Series: 400 T (Tripod pumps-custom built to kettle dimensions).

Electric Motor: enclosed asbestos wound, 1 1/2 horsepower, 220/440 volts, 60 cycle, three phase, 300-1300 RPM. Vari-drive, industrial type, ball bearing construction, equipped with 10' rubber covered heavy duty cord, with plug grounded. Control from trickle to full capacity.

Air Motor: Vane air motors offer a unique form of drive and incorporate advantages not found in other prime motors. A variety of operating conditions can be achieved by utilization of pressure regulators and flow control valves.

- Relatively inexpensive variable speed control when compared with electrics
- Intrinsically safe in hazardous environments
- Can be stalled indefinitely under load without harm
- Instantly reversible
- Positive “start”
- Rugged design

<table>
<thead>
<tr>
<th>400 S</th>
<th>400 L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc/Die Cast</td>
<td>Lead Unit</td>
</tr>
<tr>
<td>Impeller: Stainless</td>
<td>Cast Iron</td>
</tr>
<tr>
<td>Housing: Stainless</td>
<td>Cast Iron</td>
</tr>
<tr>
<td>Carrier: Stainless</td>
<td>Cast Iron</td>
</tr>
<tr>
<td>Shaft: Stainless</td>
<td>Mild Steel</td>
</tr>
<tr>
<td>Frame: Stainless Angles</td>
<td>Mild Steel</td>
</tr>
<tr>
<td>Discharge Pipe: Stainless</td>
<td>Mild Steel</td>
</tr>
<tr>
<td>Banjo: Stainless or Cast Iron with Stainless Spout</td>
<td>Mild Steel</td>
</tr>
</tbody>
</table>

Series 400 Pump Stand: Welded steel pipes and angles, triangular design. Ball bearing casters. Vertical adjusts from 41” to 58”

Banjo is detachable for use with holding pot and adjustable for pouring at floor or table heights.

www.dykast.com
sales@dykast.com
portable metal mixers

MIXERS

CLAMP MOUNT, GEAR DRIVE XJ SERIES
HEAVY-DUTY HIGH FLOW MIXERS

<table>
<thead>
<tr>
<th>Model</th>
<th>HP</th>
<th>Max.Wt.Lbs.</th>
<th>S.E.</th>
<th>B</th>
<th>F</th>
<th>G</th>
<th>M</th>
<th>P</th>
<th>Q</th>
<th>S</th>
<th>T</th>
<th>W</th>
<th>X</th>
<th>Y</th>
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<tr>
<td>XJ87</td>
<td>.87</td>
<td>94</td>
<td>4.88</td>
<td>23.13</td>
<td>5.5</td>
<td>3.75</td>
<td>4.19</td>
<td>10</td>
<td>8.5</td>
<td>3.63</td>
<td>2</td>
<td>3.5</td>
<td>2.88</td>
<td>5.75</td>
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<tr>
<td>XJ117</td>
<td>1.17</td>
<td>100</td>
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<td>28</td>
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<td>4.5</td>
<td>10</td>
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<td>4</td>
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<td>XJ230</td>
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<td></td>
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<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

All dimensions in inches
**Metal Mixers and Stands**

Portable, Adjustable Stands for Metal Mixers

Illustration shows stand for Cup Plate mounting

Steel Stand adjusts from 41-1/2" to 55-1/2" high on telescoping pipes. Furnished with ball bearing casters.

**Portable Metal Mixers**

Can be supplied for use in die cast or lead materials

Rigid Shaft Coupling—especially useful for adding stability to extra long shafts.

Clamp Mount/Gear Drive—especially useful for heavy fluids and slurries up to 25,000 cp.

Clamp Mount/Air Drive for infinitely variable speed.
Protecta Pad™ high temperature hand protection pads are designed to provide thermal protection and abrasion resistance within the metal casting industry.

Aluminum Smelters, Die Casters, and Foundries can greatly decrease glove cost by using the combination of a glove and a Protecta Pad™ hand pad during processes such as:

- Handling and removing hot castings
- Use with hot furnace tools
- Stacking aluminum ingot
- Continuous hand ladling

Protecta Pad™ hand pads are composed of an outer layer of high temperature fabric, which is a non-asbestos, heat resistant woven cloth, constructed of an Aramid fiber blend over a fiberglass core. This high temperature fabric withstands temperatures up to 650°F. The remaining layer consists of a durable, yet flexible, section of split chrome leather which includes a wrist strap. The wrist strap allows for easy release of the hand pad, by permitting the pad to hang freely from the wrist upon the users need to regain mobility of a free hand.

**Protecta Pad™ 100**
The Protecta Pad™ 100 is constructed of an inner section of split chrome leather, with each side covered by a layer of high temperature fabric. These layers are joined by heavy duty Kevlar thread that is very strong and abrasion resistant. Measurement: 7” wide x 8” long w/1” wrist strap

**Protecta Pad™ 200**
The Protecta Pad™ 200 is constructed of a double layer of high temperature fabric, backed by a section of split chrome leather. These layers are joined by heavy duty Kevlar thread. Measurement: 7-1/2” wide x 10” long w/1” wrist strap
non-ferrous melting equipment

Gas Furnaces
Electric Furnaces
Launder Systems
New and Used

CALL FOR A QUOTATION
SOFT METAL MELTING FURNACES - rugged, dependable, efficient...

These popular Johnson Furnaces are designed for melting lead, babbitt, tin, zinc, type metal, scrap and all other low or medium fusion metal alloys. Furnaces come equipped with powerful, patented Johnson Auto-Blast Bunsen burners (each with separate valve and pilot). Heavy insulation assures fast melting and recovery rate. Furnace design directs hot exhaust gases away from the operator.

These rugged furnaces are designed to meet the high production demands of industry. They are made of heavy gauge welded steel with rugged cast iron legs and top rims.

All models are supplied with cast iron pots for ladling. Removable lid and automatic temperature controls are available on Model Nos. 379, 313 and 616 at extra cost.
SOFT METAL MELTING FURNACES - New Advanced Melting Furnaces -
Temperature range: 400°F - 1400°F. Features push button lighting.
This line of furnaces provides new, advanced techniques in fast, efficient melting of lead, babbitt, tin, zinc, as well as all other low and medium fusion metals and alloys. Furnaces with blowers are used to melt aluminum if metal impurities caused by a cast iron pot are not objectionable.

Each furnace features Johnson’s automatic spark ignition system and safety controls. Quality insulation assures furnace efficiency. Separate exhaust vents direct hot gases away from the operator.
Furnaces without asterisks below are equipped with powerful Johnson atmospheric burners for fast heat up and recovery rate. Bodies are constructed of reinforced steel to give maximum life under conditions of continuous operation.

Heavy-wall cast iron pots are supplied with all models.
Automatic temperature controls are also available at extra cost. For high production jobs, Johnson Models 527, 719, 721, 725 and 726 have blast type burners powered by a blower. These models have same quality construction features mentioned above. The Johnson Automatic Spark Ignition System and Safety Equipment are also included.

<table>
<thead>
<tr>
<th>Furnace Number</th>
<th>Lead Capacity in Lbs.</th>
<th>Pot Dimensions (inches) Inside Dia./Inside Depth</th>
<th>Overall Dimension (inches) Height/Diameter</th>
<th>Number Burners</th>
<th>Gas Connection (inches) Pipe Size</th>
<th>Gas Input Btu per hour</th>
<th>Approx. Shipping Weight in Lbs.</th>
<th>Additional sizes built to requirements. Gas Pressure: 4 1/2” to 14” W.C. Natural Gas: 11” W.C. LP Gas: Furnished w/ No. 1207 Blower - 115v.</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>18</td>
<td>5-1/2</td>
<td>3</td>
<td>1</td>
<td>1/4</td>
<td>13,000</td>
<td>19</td>
<td></td>
</tr>
<tr>
<td>200</td>
<td>50</td>
<td>7</td>
<td>5</td>
<td>21</td>
<td>12</td>
<td>26,000</td>
<td>84</td>
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<tr>
<td>313</td>
<td>300</td>
<td>13</td>
<td>6-3/4</td>
<td>28</td>
<td>21-1/2</td>
<td>78,000</td>
<td>280</td>
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<tr>
<td>379</td>
<td>150</td>
<td>9-3/4</td>
<td>7</td>
<td>28-1/2</td>
<td>17</td>
<td>39,000</td>
<td>180</td>
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<tr>
<td>526</td>
<td>2000</td>
<td>19-1/2W-23-1/2L-13-3/4D</td>
<td>33H - 40W - 36L</td>
<td>1</td>
<td></td>
<td>210,000</td>
<td>1200</td>
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<tr>
<td>616</td>
<td>600</td>
<td>16-1/2</td>
<td>10</td>
<td>30-1/2</td>
<td>27-3/4</td>
<td>156,000</td>
<td>398</td>
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</tr>
<tr>
<td>720</td>
<td>1000</td>
<td>20</td>
<td>12-1/2</td>
<td>30H - 33W - 42L</td>
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<td>182,000</td>
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<tr>
<td>726*</td>
<td>3130</td>
<td>28-1/2</td>
<td>18-1/2</td>
<td>34H - 42W - 49L</td>
<td>1</td>
<td>600,000</td>
<td>1650</td>
<td></td>
</tr>
</tbody>
</table>
R-20 insulating powder

prolong the life of your ladles

R20 can prolong the life of all materials exposed to molten aluminum and non-ferrous metal: troughs, distribution pans, spouts, floats, sand and permanent molds, shell molds and cores. Because of the variety of metals poured and the wide range of temperatures and conditions encountered, each user should check out the procedure that suits his situation best. A coating procedure must be adopted and policed to prolong the life of your ladles. These are suggestions based on our customer’s experiences:

Suggested Mix #1
1 gallon water, 2 to 5 lbs. R20 Insulating Powder, 1/4 to 1/2 pint Sodium Silicate. Store at room temperature, heat ladle to 200 to 400 degrees F, dip in stirred slurry, allow to dry, coat again and dry.

Suggested Mix #2
Equal volume of water and powder, stir vigorously! Before dipping ladle, clean it, then dry it completely after coating.

TYPE OF ALLOY POURED
- Aluminum/Stainless Ladle
- Aluminum/Stainless Ladle
- Aluminum/Mild Steel Ladle
- Aluminum/Mild Steel Ladle

BRASS & MANGANESE BRONZE
- Stainless Ladles
- Mild Steel Ladles
- Lead-Stainless Ladles
- Lead-Mild Steel Ladles

SILICON & ALUMINUM BRONZE
- Stainless Ladles
- Mild Steel Ladles
- Zinc-Stainless Ladles
- Zinc-Mild Steel Ladles
- Magnesium-Stainless Ladles

COATING FREQUENCY
- Coat each 4 to 8 hours use, at 1100 to 1200 degrees
- Coat each 2 to 4 hours use, at 1250 to 1650 degrees.
- Coat each 2 to 4 hours use, at 1100 to 1200 degrees.
- Coat each 2 hours of use, at 1250 to 1650 degrees.

Alloy forms its own coating (optional)
Usage - not recommended
No Coating needed
No Coating needed

Coat each 2 to 4 hours of use
Usage - not recommended
No coating needed at 790 to 820 degrees
Coat each 8 hours of use
Coating not generally needed (optional)
1. Apply your regular brand of thermal coating
2. Apply top coating of RELEASECOAT for maximum release and surface finish.
3. Easy touch-up as needed without stopping production.

BORON NITRIDE RELEASECOAT

Teflon®-like release for easy casting removal and COSMETIC surface finish.
1. Use one of many available fine quality thermal insulating mold coatings directly on the mold - just as you do now. This is necessary to provide the required thermal insulation for permanent mold casting. DON’T STOP HERE!

If you need improved casting release in low draft regions or if you need the absolute very best surface finish - READ ON.

2. Selectively apply a thin, economical top coating of RELEASECOAT over the thermal insulating coat of Step 1. For best economy, just apply RELEASECOAT in those mold areas needing the Teflon®-like release and/or improved surface finish. RELEASECOAT is easily air-sprayed onto hot or cold molds using any spray equipment. RELEASECOAT is safe, water based, non-toxic and emits only water vapor heating. Operators are not exposed to any toxic or irritating gases!

3. Periodically touch-up the molds by spraying RELEASECOAT onto the hot molds WITHOUT STOPPING PRODUCTION. Dries on contact with hot molds.

WHY TWO COATS?

A. The thermal insulating coating works, but not very well for low-draft high-drag regions, and usually provides poor surface finish.
B. Release agents added to a thermal insulating coating only slightly improve release and surface finish.
C. A top coating of RELEASECOAT provides the absolute maximum release agent in contact with the molten metal for the very best release and surface finish. The two-coat system cannot be beat!
D. Wouldn’t you like to make a simple change that would improve cycle time, uptime, scrap rate, quality and through-put after you have a job?

PRODUCT SPECIFICATIONS
Active Ingredient - Boron Nitride
Use Atmosphere - All
Use Temperature -1100°C...Air...2000°F
1400°C...Vac...2550°F
1800°C...Inert...3300°F
Dried Composition - > 92% BN
Liquid Carrier - Water

Viscosity (cps) - 380-400 2/60
Specific Gravity - (g/cm³) - 1
Color - White
Shelf Life - > 1 year
Coverage (ft²/gal) - 300-600
Coating pH - 7
Outgassing Vapors - Water
boron nitride hardcoat

TEFLON®-LIKE RELEASE COATING...

Saves Time
Coating last 7 times longer
Recoat ladles only once every 1 to 2 weeks rather than 1 to 2 days.

Saves Money
Use only a fraction (1/20th) of the usual quantity of coating
Less expensive to use! Use only 1 gallon of HARDCOAT rather than 20 gallons of a "so-called low-cost" coating and get Teflon®-Like release with no buildup!

User Friendly
Apply one coat by brush - just like ordinary housepaint. Dry and place into use. Safe, non-toxic, and waterbased.
b o r o n n i t r i d e  h a r d c o a t

ABSOLUTE BEST WITH

• Aluminum
• Magnesium
• Zinc

Totally Non-Stick Coating for Ladles and Skimmers

Unique Abrasion-Resistant Formula Attributes

• Totally Protects and makes all surfaces non-wetted by Molten Aluminum, Magnesium, and Their Drosses
• Truly Abrasion-Resistant
• Easily applied like housepaint to Metals, Ceramics, and Graphite
• Water-based, Ready-to-Use, No VOC’s

BORON NITRIDE HARDCOAT is the only truly abrasion-resistant boron nitride coating available. HARDCOAT, which is applied exactly like housepaint, provides a surface that acts like Teflon® in that molten aluminum, magnesium, and their drosses will not react nor adhere. Ideal for high-wear uses where all other boron nitride coatings fail.

<table>
<thead>
<tr>
<th>ADDITIONAL USES</th>
<th>USE INSTRUCTIONS</th>
<th>SPECIFICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ladles</td>
<td>1. DO NOT DILUTE</td>
<td>Active Ingredient</td>
</tr>
<tr>
<td>Skimmers</td>
<td>2. Resuspend the paint.</td>
<td>Boron Nitride</td>
</tr>
<tr>
<td>Immersion Tubes</td>
<td>3. Clean surface of oils, dirt,</td>
<td>Use Temperature in Air</td>
</tr>
<tr>
<td>Caster Tips</td>
<td>scale, etc.</td>
<td>1800ºF (1000ºC)</td>
</tr>
<tr>
<td>Troughs, Molds</td>
<td>4. Apply 1 to 2 thin layers by</td>
<td>Liquid Carrier</td>
</tr>
<tr>
<td>Dross Buggies</td>
<td>brush or spray.</td>
<td>Water</td>
</tr>
<tr>
<td>Shot Screens</td>
<td>5. Allow to thoroughly dry between coats and before use.</td>
<td></td>
</tr>
<tr>
<td>Stalk Tubes</td>
<td></td>
<td>Viscosity (cps)</td>
</tr>
<tr>
<td>Funnels</td>
<td></td>
<td>300-400 2/60</td>
</tr>
<tr>
<td>Transition Plates</td>
<td></td>
<td>Specific Gravity (g/cm³)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.15</td>
</tr>
</tbody>
</table>

www.dykast.com sales@dykast.com
**metal qwik®**

**fast answer to metal repairs**

METAL QWIK is a ready-to-use metal loaded putty engineered to effectively make metal repairs right from the can.

METAL QWIK is easy to apply to clean, dry substrates including: all common metal, wood, most plastic, glass, ceramic, concrete, etc! Easily applied with a putty knife, rubber squeegee, caulking gun or (when thinned to paint consistency) by brush or spray.

Under normal conditions, dependent on air flow and ambient temperatures, a 1/16" layer will harden in 1 to 2 hours. Fully cured METAL QWIK can be sawed, drilled, tapped, milled, sanded, filed or ground by ordinary hand or machine tools.

Withstands temperatures as high as 350°F. For Temperatures ranging to 1000°F, use HI TEMP METAL QWIK.

When cured, METAL QWIK is impervious to mild acids, gasoline, oil, petroleum solvents, and LP gas. Because it is aluminum filled, METAL QWIK will not rust, rot, corrode, or be affected by mildew.

After buffing, it is a bright aluminum color.
Product Description
Never-Seez Regular Grade is a superior, anti-seize and extreme pressure lubricant formulated to protect metal parts against rust, corrosion and seizure. Fine metallic and graphite particles in a special grease protect parts even in high heat, high pressure and corrosive environments.

Product Benefits
- Keeps parts working longer with less wear.
- Minimizes parts replacement costs.
- Enables faster disassembly when repairs are needed - even after exposure to high temperatures.
- Protects against carbon fusion.
- Resist alkaline solutions, most chemical and acid vapors, road salt, steam, salt water, iodized water.
- Prevents galling on steel to stainless steel, titanium, magnesium, and other hard metals.

Product Applications
- Nuts, bolts, screws
- Pipe fittings
- Boom guides
- Valve assemblies
- Pump mountings
- Chain drives
- Shafts
- Gaskets
- Press fit assemblies
- Taps and drills
- Packing glands
- Metal fittings
- Machinery

Call for additional Anti-Seize Compounds and Lubricants

www.dykast.com
sales@dykast.com
Slap Stick Lubricant

Slap Stick, a high temperature lubricant, can be applied directly to solder buildup and galling in permanent and die casting molds. It is designed to melt against the exact spot where lubrication is needed, for example:

- Solder buildup in gate areas and cavities on cores and slides.
- Hot, galled metal-to-metal moving mold parts such as ejector pins or slides.

When applied to any hot area within the casting cavity, Slap Stick quickly melts, then dries to a lubricating film that will not stain, build up, or otherwise harm the next casting. When applied to hot ejector pins or other moveable parts, Slap Stick liquifies and penetrates close tolerances as a lubricating film. Any dripping or running into cavity areas will cause no casting problem.

Shaped like a large felt pen, Slap Stick is easily held while wearing heavy mill gloves. Slap Sticks are economical. Another great feature is that Slap Stick is clean enough to be carried in a shirt pocket when cool. Conveniently packaged in boxes of 180 pieces.
beeswax

We also carry white beeswax!

100% Pure
All Natural
Environmentally Safe
4 Sizes to Choose
No Order too Small

16oz. Bars
8oz. Cakes
2oz. Sticks
Pastilles
nozzle gaskets
for zinc die casting machines

- Resistant to corrosion of molten zinc
- Self Adhesive
- Non-bonding to nozzle, die or gooseneck
- Gasket design to insure proper fit
- Fast-Easy-Safe Installation

HTC-32
Slotted with Adhesive Back
1/32" Thick

KC-44
Wire Reinforced with Adhesive Back
1/32" Thick

IN STOCK FOR IMMEDIATE SHIPMENT

OTHER SIZES AVAILABLE
Regent Plunger and Pin Lube is a heavy oil especially designed for the lubrication of plungers, ejector pins, slides and cores. It is a combination of highly refined oils and additives. The oils are selected so that when they come in contact with molten metal they turn from a liquid to a carbonaceous residue without forming gas. The two most important additives to this oil are a pore filler and wetting agent, which allows the oil to flow and completely encompass the shot tip and coat the inside of the shot sleeve, therefore giving better metal flow and longer plunger and sleeve life.

AVAILABLE FROM STOCK IN 5 AND 55 GALLON DRUMS
Aluminized Zetex approach hood with built-in hard cap

Aluminized Zetex welding hood

Aluminized Zetex 18" Sleeves and waist apron

Aluminized Zetex full length coat

Aluminized Zetex 150 Series boots
**S A F E T Y  P R O D U C T S**

**GUIDE**

<table>
<thead>
<tr>
<th>Type</th>
<th>Ladies Size*</th>
<th>Standard Size*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zetex Glove with Kevlar, Blended Kevlar or PBI/Kevlar Palm</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Zetex Glove with Leather Palm</td>
<td>□</td>
<td>□</td>
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<tr>
<td>ZetexPlus Glove with ZP Kevlar Palm</td>
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<td>□</td>
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<tr>
<td>ZetexPlus Glove with ZP/PBI Kevlar Palm</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Zetex Mitt with Kevlar, Blended Kevlar or PBI/Kevlar Palm</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Zetex Mitt with Leather Palm</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>ZetexPlus Mitt with ZP Kevlar Palm</td>
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<td>□</td>
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<tr>
<td>ZetexPlus Mitt with ZP/PBI Kevlar Palm</td>
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<td>□</td>
</tr>
<tr>
<td>Blended Kevlar Glove</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Blended Kevlar Mitt</td>
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<td>□</td>
</tr>
</tbody>
</table>

*Metric length equivalents: 14" = 355mm; 23" = 584mm

Blended Kevlar glove available in 2 sizes and 2 lengths

Zetex standard size gloves are available in 3 lengths. Also in smaller ladies sizes

Zetex double palm gloves in 14" length. Also available in ZetexPlus fabric

**GUIDE**

<table>
<thead>
<tr>
<th>Type</th>
<th>Lengths*</th>
</tr>
</thead>
<tbody>
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<td>Standard Size Glove</td>
<td>9&quot; 11&quot; 14&quot; 23&quot;</td>
</tr>
<tr>
<td>Ladies Size Glove</td>
<td>9&quot; 11&quot; 14&quot; 23&quot;</td>
</tr>
<tr>
<td>Standard Size Mitt</td>
<td>9&quot; 11&quot; 14&quot; 23&quot;</td>
</tr>
<tr>
<td>Double Palm</td>
<td>□</td>
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<tr>
<td>Reversible Double Palm</td>
<td>□</td>
</tr>
<tr>
<td>Standard Size Overmitt</td>
<td>□</td>
</tr>
</tbody>
</table>

*Metric length equivalents: 9"=229mm; 11"=279mm; 14"=355mm; 23"=584mm

Hand pads come with Zetex fabric or Zetex fabric with leather palm

Zetex All Aluminized 14" mitt

Aluminized Zetex 14" glove with aluminized back

**GUIDE**

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<tr>
<th>Type</th>
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<th>Standard Size*</th>
</tr>
</thead>
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<tr>
<td>Zetex All Aluminized Glove</td>
<td>11&quot; 14&quot; 23&quot;</td>
<td>11&quot; 14&quot; 23&quot;</td>
</tr>
<tr>
<td>Zetex All Aluminized Mitt</td>
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<td>□</td>
</tr>
<tr>
<td>Aluminized Zetex Glove with Zetex Palm</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Aluminized Zetex Glove with ZetexPlus Palm</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Aluminized Zetex Mitt with Zetex Palm</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Aluminized Zetex Mitt with ZetexPlus Palm</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>FAA Approved Glove: Aluminized Kevlar with leather palm, vapor barrier, gauntlet style or kni-wrist style</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Aluminized Zetex glove with leather palm. Also available with Aluminized PBI/Kevlar, Nomex, Kevlar, and Rayon</td>
<td>□</td>
<td>□</td>
</tr>
</tbody>
</table>

*Metric length equivalents: 11" = 279mm; 14" = 355mm; 23" = 584mm
order history
Serving Die Casters and Foundries Since 1961

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supply & equipment company

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sales@dykast.com www.dykast.com

we accept:

qqyat

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