CAN ENDS

Freshness Sealed!
THE BOARD OF DIRECTORS

HIMANSHU GUPTA
RAKESH NANGIA
RISHAB GUPTA
Can was more robust than the fragile glass container. King George III conferred the patent for the idea of preserving food in vessels of glass, pottery, tin and other metals to Mr. Peter Durand in 1810.

In 1812 Bryan Donkin & John Hall worked further on the idea of the metal can and set up the first commercial canning factory in England. The cans produced were used by the French and English troops to transport canned and nutritious fruits and vegetables over long distances by sea. The soldiers rejoiced and were healthier as canned foods preserved all the vitamins and nutrients in the preservation, storage & transportation with no noticeable impact of the weather hazards.

The industry has since come a long way ahead in the past two centuries. Metals can is considered as the most sustainable and reusable packaging medium with endless possibilities.

**Contents**

03 The Origins of Canning
06 About Us
09 Easy Open Ends
17 Beverage Ends
19 Peel Off Ends
20 Penny Lever Ends
22 Sanitary Ends
24 Paint Components
25 Twist off Caps
26 2PC DRD Cans
27 2PC Beverage Cans
28 3PC Welded Cans
30 Tinplate
32 Facilities
THE ORIGINS OF CANNING

In 1795, the French led by Emperor Napoleon Bonapart realized that their soldiers were being defeated & demoralized more by hunger and malnutrition rather than by war. Napoleon announced a reward for anyone who could invent a method to preserve food for longer duration.

Later in the year 1810 an Englishman named Peter Durand made further studies and experiments and introduced the first metal container using the Tin Plate. This can could also be sealed airtight to retain the freshness and prevent the penetration of water, light and oxygen. The metal can was more robust that the fragile glass container. King George III conferred the patent for the idea of preserving food in vessels of glass, pottery, tin and other metals to Mr Peter Durand in 1810.

In 1809 Nicolas Appert “The Father of Canning” published his work in a book called “The Book Of All Households”. After his trials and experimentation of 15 years he could successfully prove that food could be safely preserved through sterilization in sealed glass containers. In 1810 he received the cash award & recognition from the Emperor himself.

In 1812 Bryan Donkin & John Hall worked further on the idea of the metal can and set up the first commercial canning factory in England. The cans produced were used by the French and English troops to transport canned & nutritious fruits and vegetables over long distances by sea. The soldiers rejoiced and were healthier as canned foods preserved all the vitamins and nutrients in the preservation, storage & transportation with no noticeable impact of the weather hazards.

The industry has since come a long way ahead in the past two centuries. Metals can is considered as the most sustainable and reusable packaging medium with endless possibilities.....
ADVANTAGES OF METAL PACKAGING

Metal packaging is a smart solution for packers and brand owners. With a proven safety and sustainability record, Cans offer a multitude of design options and an unrivalled performance through the supply chain. The metal can has made nutritious, high quality, shelf-stable food available to people around the world for more than 200 years. Through continuous innovation, metal packaging has changed the way food is produced, preserved, and consumed worldwide. Today, more than 1,500 different varieties of food are packed in metal packaging, making seasonal foods available globally, all year round. Thanks to the superior performance attributes of metal food packaging with epoxy resin coatings, consumers can have the utmost confidence in the canned foods and beverages.

BRAND DIFFERENTIATION

Cans provide smart packaging that attract consumers and give brands a competitive edge. A multitude of sizes, shapes and printing designs can be manufactured to individual customer requirements, because innovation sells packaging and packaging sells products.

FOOD SAFETY

Canned fruits and vegetables are cleaned, packed, and thermally processed within hours of being harvested at their peak of flavor, freshness, and nutritional content. Metal packaging enables high-temperature food sterilization and long-term preservation in a durable, tamper-resistant package.
PACK PERFORMANCE

Proven and convenient, metal offers premium packaging solutions to meet a wide range of market needs. Unbreakable, impact-resistant and puncture-resistant; withstands extreme temperatures and pressure, provides a total barrier against light, gas and oxygen; preserves contents perfectly and delivers safe products; quick and easy to use modern opening solutions have relegated the can opener to history; the choice for on-the-go from a beverage can to a

SUSTAINABILITY

Food and beverage in metal packaging provide a way for consumers to maintain environmentally conscious behavior. Metal food and beverage cans are 100 percent recyclable. The recycling rate is more than two-and-a-half times higher than that of most other packaging options. Metal food and beverage containers can be recycled again and again without losing strength or quality. And every ton of recycled steel saves 2,500 pounds of iron ore, 1,000 pounds of coal, and 40 pounds of limestone. Every ton of aluminum recycled saves 10 tons of CO2 versus making virgin aluminum.

WAREHOUSING

Due to their inherent strength, empty and filled cans can be stacked to make maximum use of storage.

SUPPLY CHAIN EFFICIENCY

Cans offer multiple advantages & convenience throughout the supply chain.

FILLING

Due to their strength and rigid nature, cans are filled at high speeds with virtually no product loss, increasing overall efficiency, including energy and CO2.

TRANSPORT

Cans are unbreakable, reducing the risk of leaking or tearing during transportation.

RETAIL

Cans offer excellent space optimisation due to their stackability and are easy to handle in stores, reducing spoilage and
The Group started in India in the 60's with paper business for the Graphic Printing Industry. With the advent of technological changes in the graphic industry the business focus was shifted towards paper and board based packaging which until today continues to grow in double digits both in India as well as in Asia.

The group represents the largest board producers in the country today and regularly serves about 300 Industrial & Consumer Packaging companies including MNC's for their FMCG products.

In 2007, the company realized the need to diversify into 'Value Rich' areas of consumer packaging which promised a better growth rate for a sustainable business model. And this started our foray in the Metal Cans & Components industry. The business was started in Hong Kong for exports in South-East Asia & India. The focus naturally became India with the involvement of the extended family. The food packaging industry was also growing in a very healthy manner and this kept our enthusiasm to expand in a diversified product range & in almost every segment of the business.

We hold a leading share in the Indian canned foods Market:

- Dairy Products
- Sweets & Deserts
- Cooked Foods & Curries
- Fruits & Vegetables
- Pulps, Juices & Still Beverages
- Beans & Lentils
- Fish & Meat Products
- Pickles & Preserves
- Dry Fruits & Nuts

The food business in the Gulf has outpaced the growth in all other markets mainly because of the high dependence on imports of agri & live food products from overseas. Besides, the changing lifestyle of the expatriate population showed a very encouraging demand for canned foods.

To serve the local canning industry, our company decided to open a sales and service network from within the markets to provide & service the needs of our customers with greater care and concern for deliveries & other related services with immaculate & timely precision.

Can Ends FZE was thus launched in the UAE for sales in the MENA region.

With increasing enquiries from European Consumers we expanded our localized services. Today we have associate representatives in Greece, Russia and Serbia.

Likewise in 2016, we also expanded in South & Central American markets with our presence in Colombia and Brazil.

In the near future we are planning our expansion in the area of production of metal components at a location closer to our consumers so that we continue to strengthen our relationships in a strategic and meaningful way.
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PRODUCTS
EASY-OPEN-ENDS

FULL APERTURE

200 (50mm)  202 (52mm)  209 (63 mm)  211 (65mm)
214 (70mm)  300 (73mm)  305 (80.50mm)  307 (83mm)

*Tinplate / TFS  • Litho Print  • Lacquers & Coatings
EASY-OPEN-ENDS

FULL APERTURE

315 (96mm)  401 (99mm)  403 (103mm)  404 (105mm)

502 (127mm)  603 (153mm)

*Tinplate / TFS • Litho Print • Lacquers & Coatings

www.canends.com
EASY-OPEN-ENDS

FULL APERTURE

C901 (147x80mm)  F304 (97x51mm)  F311 (104x60mm)

F313 (104x110mm)  F316 (105x76mm)

*Tinplate / TFS • Litho Print • Lacquers & Coatings
EASY-OPEN-ENDS

FULL APERTURE

M812 (120x85mm)  
T501-2 (145x71mm)

T601-2 (160x107mm)  
T604 (125x83mm)

*Tinplate / TFS • Litho Print • Lacquers & Coatings

www.canends.com
EASY-OPEN-ENDS

POUR APERTURE

211 (65mm)

300 (73mm)

401 (99mm)

*Tinplate / TFS • Litho Print • Lacquers & Coatings
ALUMINIUM-EASY-OPEN-ENDS
FULL APERTURE

113 (46mm)  202 (52mm)  209 (63mm)

211 (65mm)  300 (73mm)

*Embossing • Litho Print • Lacquers & Coatings
ALUMINIUM-EASY-OPEN-ENDS
FULL APERTURE

307 (83mm) 401 (99mm) 404 (105mm)

502 (127mm) 603 (153mm)

*Embossing • Litho Print • Lacquers & Coatings
ALUMINIUM-EASY-OPEN-ENDS

POUR APERTURE

211 (65mm) 401 (99mm)

DECORATIVE TABS

*Embossing • Litho Print • Lacquers & Coatings
COMPONENTS

BEVERAGE ENDS

RING PULL TAB

113 (46mm)

200 (50mm)

202 W (52mm)

206 N (56mm)

209 EVAP (63mm)

211 (65mm)

300 EVAP (73mm)

307 (83mm)

*Embossing  ●  Litho Print  ●  Lacquers & Coatings

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BEVERAGE ENDS

STAY ON TAB (SOT)

113 (46mm)  200 (50mm)  202 W (52mm)

206 (56mm)  206 W (56mm)  307 (83mm)

*Embossing • Litho Print • Lacquers & Coatings
PEEL OFF ENDS

211 (65mm)  
300 (73mm)  
307 (83mm)  
401 RP (99mm)

401 (99mm)  
502 (127mm)  
603 (153mm)  
709 (189mm)

*D/O Aperture ● Flat/Ring Tab ● Dimpled Ring ● Embossing

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COMPONENTS

PENNY-LEVER-ENDS
WITH/WITHOUT TAGGER FOIL

202 (52mm)  
211 (65mm)  
300 (73mm)  
307 (83mm)  
401 (99mm)  
404 (105mm)

*Tinplate • Litho Print • Lacquers & Coatings
PENNY-LEVER-ENDS
WITH/WITHOUT TAGGER FOIL

* Tinplate • Litho Print • Lacquers & Coatings

502 (127mm)
509 (138mm)
603 (153mm)
700 (173mm)
709 (189mm)

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SANITARY ENDS

*Tinplate / TFS • Litho Print • Lacquers & Coatings

200 (50mm) 202 (52mm) 209 (63mm) 211 (65mm)
214 (70mm) 300 (73mm) 305 (80.50mm) 307 (83mm)
603 (153mm) 700 (173mm) 709 (189mm)

214 (70mm) 300 (73mm) 305 (80.50mm) 307 (83mm)
SANITARY ENDS

401 (99mm)  404 (105mm)  502 (127mm)  509 (138mm)

603 (153mm)  700 (173mm)  709 (189mm)

*Tinplate / TFS • Litho Print • Lacquers & Coatings
## TWIST OFF CAPS

<table>
<thead>
<tr>
<th>Size</th>
<th>30 mm</th>
<th>38 mm</th>
<th>43 mm</th>
<th>48 mm</th>
<th>53 mm</th>
<th>58 mm</th>
<th>63 mm</th>
<th>66 mm</th>
<th>70 mm</th>
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<th>82 mm</th>
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<tbody>
<tr>
<td>O.D</td>
<td>33.55 ± 0.15</td>
<td>42.05 ± 0.15</td>
<td>44.75 ± 0.15</td>
<td>49.85 ± 0.15</td>
<td>56.25 ± 0.15</td>
<td>60.15 ± 0.15</td>
<td>66.35 ± 0.15</td>
<td>69.25 ± 0.15</td>
<td>73.25 ± 0.15</td>
<td>80.03 ± 0.15</td>
<td>85.05 ± 0.15</td>
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<tr>
<td>C.D</td>
<td>29.10</td>
<td>37.60</td>
<td>40.90</td>
<td>46.00</td>
<td>52.40</td>
<td>56.30</td>
<td>62.55</td>
<td>65.45</td>
<td>69.45</td>
<td>76.23</td>
<td>81.25</td>
</tr>
<tr>
<td>L.D</td>
<td>26.75 ± 0.20</td>
<td>35.20 ± 0.20</td>
<td>38.60 ± 0.20</td>
<td>43.70 ± 0.20</td>
<td>49.35 ± 0.20</td>
<td>53.25 ± 0.20</td>
<td>59.50 ± 0.20</td>
<td>62.40 ± 0.20</td>
<td>66.40 ± 0.20</td>
<td>73.10 ± 0.20</td>
<td>78.20 ± 0.20</td>
</tr>
<tr>
<td>H</td>
<td>12.65 ± 0.30</td>
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<td>8.60 ± 0.30</td>
<td>9.70 ± 0.30</td>
<td>9.70 ± 0.30</td>
<td>9.70 ± 0.30</td>
<td>9.70 ± 0.30</td>
<td>9.70 ± 0.30</td>
<td>9.70 ± 0.30</td>
<td>9.70 ± 0.30</td>
<td>9.70 ± 0.30</td>
</tr>
<tr>
<td>S</td>
<td>11.50 ± 0.25</td>
<td>8.60 ± 0.25</td>
<td>7.45 ± 0.25</td>
<td>8.50 ± 0.25</td>
<td>8.50 ± 0.25</td>
<td>8.50 ± 0.25</td>
<td>8.50 ± 0.25</td>
<td>8.50 ± 0.25</td>
<td>8.50 ± 0.25</td>
<td>8.50 ± 0.25</td>
<td>8.50 ± 0.25</td>
</tr>
</tbody>
</table>
ALUMINIUM 2 PC BEVERAGE CANS

Slim 2 PC Aluminium Beverage Cans (SOT - 200)

Standard 2 PC Aluminium Beverage Cans (SOT- 202 & 206)
3 PC WELDED CANS
3 PC WELDED CANS
## Tin Coating

<table>
<thead>
<tr>
<th>Tin Coating</th>
<th>Tin Coating</th>
<th>Tin Coating</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1/1.1</td>
<td>2.8/1.1</td>
<td>6.4/5.6</td>
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<tr>
<td>1.4/1.4</td>
<td>1.1/2.8</td>
<td>5.6/8.4</td>
</tr>
<tr>
<td>2.0/2.0</td>
<td>1.4/2.8</td>
<td>6.4/11.2</td>
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<tr>
<td>2.8/2.8</td>
<td>2.8/1.1</td>
<td>8.4/2.8</td>
</tr>
<tr>
<td>3.6/3.6</td>
<td>5.6/1.1</td>
<td>11.2/2.8</td>
</tr>
<tr>
<td>6.0/5.0</td>
<td>5.6/2.8</td>
<td>11.2/4.8</td>
</tr>
<tr>
<td>6.4/5.6</td>
<td>6.4/11.2</td>
<td>6.4/11.2</td>
</tr>
<tr>
<td>11.2/12</td>
<td>2.8/8.4</td>
<td>11.2/15.1</td>
</tr>
</tbody>
</table>

## Product Specification

### Specs

<table>
<thead>
<tr>
<th>Specs</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness</td>
<td>0.14~0.045</td>
</tr>
<tr>
<td>Temper</td>
<td>T1, T2, T3, T4, T5, DR7M, Dr8, Dr9, DR9M</td>
</tr>
<tr>
<td>Length</td>
<td>Skid</td>
</tr>
<tr>
<td>Width</td>
<td>500-1200mm</td>
</tr>
<tr>
<td>Coil Weight</td>
<td>4-11mt/coil</td>
</tr>
<tr>
<td>Coil Outer Dia.</td>
<td>Max 1400mm</td>
</tr>
<tr>
<td>Coi Inner Dia.</td>
<td>420/508mm</td>
</tr>
</tbody>
</table>

### Passivation

<table>
<thead>
<tr>
<th>Passivation</th>
<th>Code</th>
<th>(mg/m2) Chromium Amount (mg/m2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrolysis Passivation</td>
<td>311</td>
<td>Lacquering and Painting Steel</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Normal Steel</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3.5~9</td>
</tr>
<tr>
<td>Chemical Passivation</td>
<td>300</td>
<td>0.7~1.5</td>
</tr>
</tbody>
</table>

### Tin-free Steel Specification

<table>
<thead>
<tr>
<th>Form of Chromium</th>
<th>mg/m2 Average Coating on Single side mg/m2</th>
<th>mg/m2 Observed Point, mg/m2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chrome</td>
<td>Minimum</td>
<td>Minimum</td>
</tr>
<tr>
<td>Chrome</td>
<td>70</td>
<td>140</td>
</tr>
<tr>
<td>Oxidized Chrome</td>
<td>7</td>
<td>35</td>
</tr>
</tbody>
</table>

---

**TINPLATE/TFS**

**RAW MATERIALS**

<table>
<thead>
<tr>
<th>TOP METAL PROTECTOR</th>
<th>WATER PROOF VINYLE</th>
<th>STEEL BAND</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOP PAPER PROTECTOR</td>
<td>CORNER PAPER PROTECTOR</td>
<td></td>
</tr>
<tr>
<td>OUT METAL CORNER PROTECTOR</td>
<td>OUT METAL CORNER PROTECTOR</td>
<td></td>
</tr>
<tr>
<td>LABEL</td>
<td></td>
<td>METAL SEAL PAD</td>
</tr>
<tr>
<td>METALLIC ANGLE</td>
<td>METALLIC FLAT BANDS</td>
<td>METALLIC COVER</td>
</tr>
<tr>
<td>LABEL</td>
<td>METAL SEAL PAD</td>
<td>WOODEN SKID</td>
</tr>
<tr>
<td>LABEL</td>
<td>PROTECTOR SHEET</td>
<td>CORRUGATED CARDBOARD</td>
</tr>
<tr>
<td>LABEL</td>
<td>WATER PROOF VINYLE</td>
<td>RUST PROOF PAPER</td>
</tr>
<tr>
<td>LABEL</td>
<td>PROTECTOR SHEET</td>
<td>RUST PROOF PAPER</td>
</tr>
<tr>
<td>LABEL</td>
<td>WOODEN SKID</td>
<td>METALLIC ANGLE</td>
</tr>
<tr>
<td>LABEL</td>
<td>METALLIC COVER</td>
<td>METALLIC FLAT BANDS</td>
</tr>
<tr>
<td>LABEL</td>
<td>METAL SEAL PAD</td>
<td>METAL SEAL PAD</td>
</tr>
<tr>
<td>LABEL</td>
<td>MACINTOSH SECTOR</td>
<td>METAL SEAL PAD</td>
</tr>
<tr>
<td>LABEL</td>
<td>WATER PROOF VINYLE</td>
<td>METAL SEAL PAD</td>
</tr>
</tbody>
</table>
### RAW MATERIALS

- TOP METAL PROTECTOR
- WATER PROOF VINYLE
- TOP PAPER PROTECTOR
- CORNER PAPER PROTECTOR
- LABEL
- STEEL BAND
- METAL PROTECTOR
- PROTECTOR SHEET
- CORRUGATED CARDBOARD
- RUST PROOF PAPER
- RUST PROOF PAPER
- METAL SEAL PAD
- METALLIC FLAT BANDS
- METALLIC COVER
- METALLIC ANGLE
- OUTER METAL CORNER PROTECTOR
- PRODUCT
- RUST PROOF PAPER
- WATER PROOF VINYLE
- PAPER PROTECTOR
- METAL SEAL PAD
- PAPER SEAL PAD
- OUTER METAL CORNER PROTECTOR
- WOODEN SKID
- TOP PAPER PROTECTOR
- WOODEN SKID
- OUTER METAL CORNER PROTECTOR

### Electrolysis Passivation

<table>
<thead>
<tr>
<th>Chromium Amount (mg/m²)</th>
<th>Chemical Passivation</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.5~9</td>
<td>0.7~1.5</td>
</tr>
<tr>
<td>5~12</td>
<td></td>
</tr>
</tbody>
</table>

### Normal Steel

- Lacquering and Painting
- Passivation

### Tin-coated Steel

#### Form of Chromium

<table>
<thead>
<tr>
<th>Chromium Oxi</th>
<th>Chromium Oxyd</th>
<th>Chromium Oxyd</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.6/15.1</td>
<td>2.8/8.4</td>
<td>11.2/11.2</td>
</tr>
<tr>
<td>2.8/11.2</td>
<td>11.2/5.6</td>
<td>11.2/8.4</td>
</tr>
<tr>
<td>8.4/11.2</td>
<td>11.2/5.6</td>
<td>11.2/8.4</td>
</tr>
<tr>
<td>5.6/8.4</td>
<td>11.2/5.6</td>
<td>11.2/8.4</td>
</tr>
</tbody>
</table>

### Tin-plated Steel

#### Form of Chromium

<table>
<thead>
<tr>
<th>Chromium Oxid</th>
<th>Chromium Oxid</th>
<th>Chromium Oxid</th>
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<tbody>
<tr>
<td>1.4/2.8</td>
<td>5.6/1.1</td>
<td>1.1/2.8</td>
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<tr>
<td>5.6/2.8</td>
<td>2.6/5.8</td>
<td>1.1/2.8</td>
</tr>
<tr>
<td>8.4/2.8</td>
<td>2.8/1.1</td>
<td>1.1/2.8</td>
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</table>

### Tin Coating

<table>
<thead>
<tr>
<th>Chromium Oxid</th>
<th>Chromium Oxid</th>
<th>Chromium Oxid</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0/2.0</td>
<td>2.8/2.8</td>
<td>3.6/3.6</td>
</tr>
<tr>
<td>2.8/2.8</td>
<td>5.0/5.0</td>
<td>5.6/5.6</td>
</tr>
<tr>
<td>5.6/5.6</td>
<td>8.4/8.4</td>
<td>15.1/5.6</td>
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