

Tomorrow's Mettle

Bhoruka Extrusions Pvt Ltd.



Established in 1979

Wholly owned subsidiary of \$7 Billion YKK Group, Japan

Extrusion capacity of 1000 MT / Month (6"/ 8"/ 9" - extrusion press)

In-house Anodizing capacity of 250 MT / Month (Italtechno, Italy)

In-house Powder coating capacity of 350 MT / Month (Nordson , U.S.)

Approved PE-F/D-1036 and PE-SDF/D-2525 Applicator

Award winning SAP implementation (ECC 6.0)

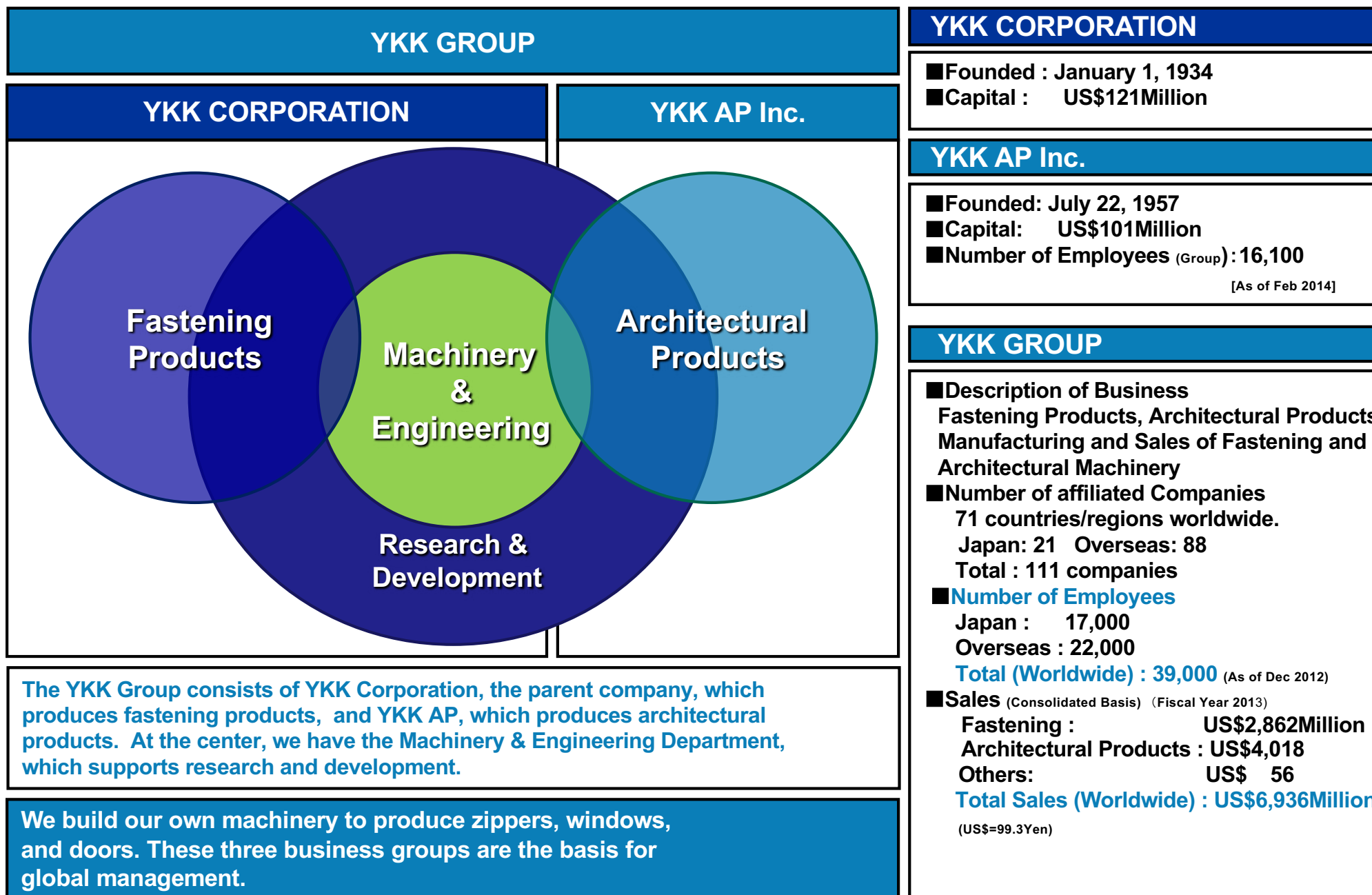
Approved extruder of systems – Alu-K, Airclos, Dorma, EFP, GOS, Reynaers, Schueco, YKK AP

Online self-updating E-catalogue (www.bhorukaecatalogue.com)

Online order tracking through SAP (Bhoruka 360 portal) and Planning (E-Planner)

Branches: Bangalore, Chennai, Coimbatore, Delhi, Hyderabad, Mumbai, Mysore, Pune

Dedicated teams - enquiries@bhorukaextrusions.com and orderstatus@bhorukaextrusions.com



「 CYCLE OF GOODNESS 」



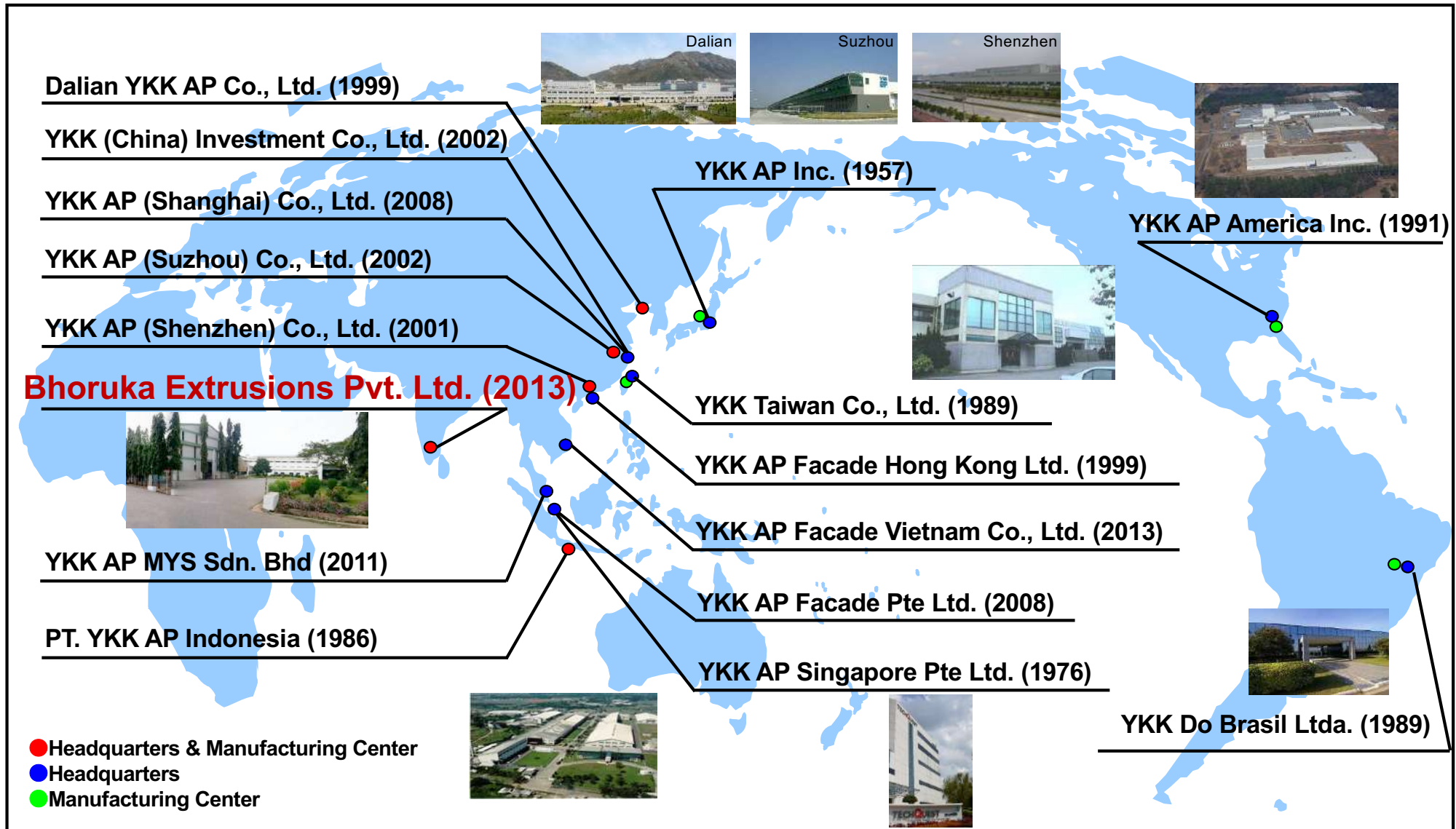
Typeface: Tenshiyo / Pen name: 「Rituzann」
(It is named after the Tateyama mountain range that I looked up to forever)



Founding president Tadao Yoshida

“No one prospers unless they render benefit to others”

“If we keep creating **new values by innovative ideas** and **inventions** through our business activity, we can expand our business. That brings **prosperity to our customers** and business partners, and as a result, we can **make a contribution to society**”



Along with YKK AP Japan, We are doing business in 13 Countries,
Taking advantage of our Global Network

Japan

Mode Gakuen Spiral Towers
(Nagoya City, Japan)



Uses 7,145 triangular
panes of glass

Overseas

Reflections (Singapore)



Luxury condominium

Gardens by the Bay (Singapore)



Singapore state project (botanic gardens)

Using our design and engineering skills to take
on the world's most challenging projects



Managing Director
Mr. Fumihiko Umano



HR Manager
Mr. Pradeep Rajshekar



Technical Director
Mr. Akira Miyazaki



Quality Control
Mr. Veerendra



Sales & Marketing
Mr. Rajat Agarwal



Planning In Charge
Mr. Dinesh Babu



Factory Manager
Mr. Prasanna Venkatesh



Coating In charge
Mr. Prashanth C



Finace Head
Mr. Jenil Ramesh Joshi



Design In charge
Mr. Rajachar

Billet Casting

Die Manufacturing

Extrusion

Anodising

Powder Coating

Components

TECHNICAL FACT SHEET

Parameters	Press-1	Press-2	Press-3
MAKE	Wean United (USA)	Year Chang (Taiwan)	Cheng Hua (Taiwan)
Strength of extrusion press (TONS)	1800	960	2750
Diameter of billet	203 mm	152 mm	228mm & 203mm
Diameter of container	210 mm	158 mm	236mm & 210mm
Diameter of main Cylinder - Inches	37	25	44.48
Diameter of small Cylinder - Inches	9	7.087	9.09
Maximum pressure of Press (BAR)	3000psi	3000psi	3335psi
Mark of Billets (6063-6060)	6063, 6005, 6105, 6061		6063, 6060, 6101, 6005, 6351, 6061, 6082
Conveyor Length	36Mtrs.	36Mtrs.	50.90 Mts
Type of Billet Oven (gas, diesel, induction)	Hot log shear	Induction	Hot log shear
Type of Puller	Track type	Track type	Track type

TOOL ROOM

Die types	Solid, Hollow, Semi-hollow
Diameter CCD	Solid – 254mm; Hollow-230mm
# of sections	>10,000
Lead Time	Solid - 15 days; Hollow - 21 days

BHORUKA ANODISING

Make	Italtecno, Italy
Microns	Up to 25
Colors available	Champagne, Bronze (Light, Medium, Dark), Black, Pink (Dark, Medium, light) & Burgundy
Maximum Length	6600 mm
Finish	Matt, Polished, Mirron

BHORUKA POWDER COATING

Pre - Treatment	Italtecno, Italy
Powder Coating	Nordson , U.S.
Spray System	Automatic
Thickness Range	50 To 75 Microns
Colors	All RAL Shades
Type	Metallic / Non Metallic
Gloss	High Glossy, Semi Glossy, Matt
Finish	Plain, Texture, Structure
Maximum Length	7500 mm

Chemical Composition as Per EN 573-3:2007

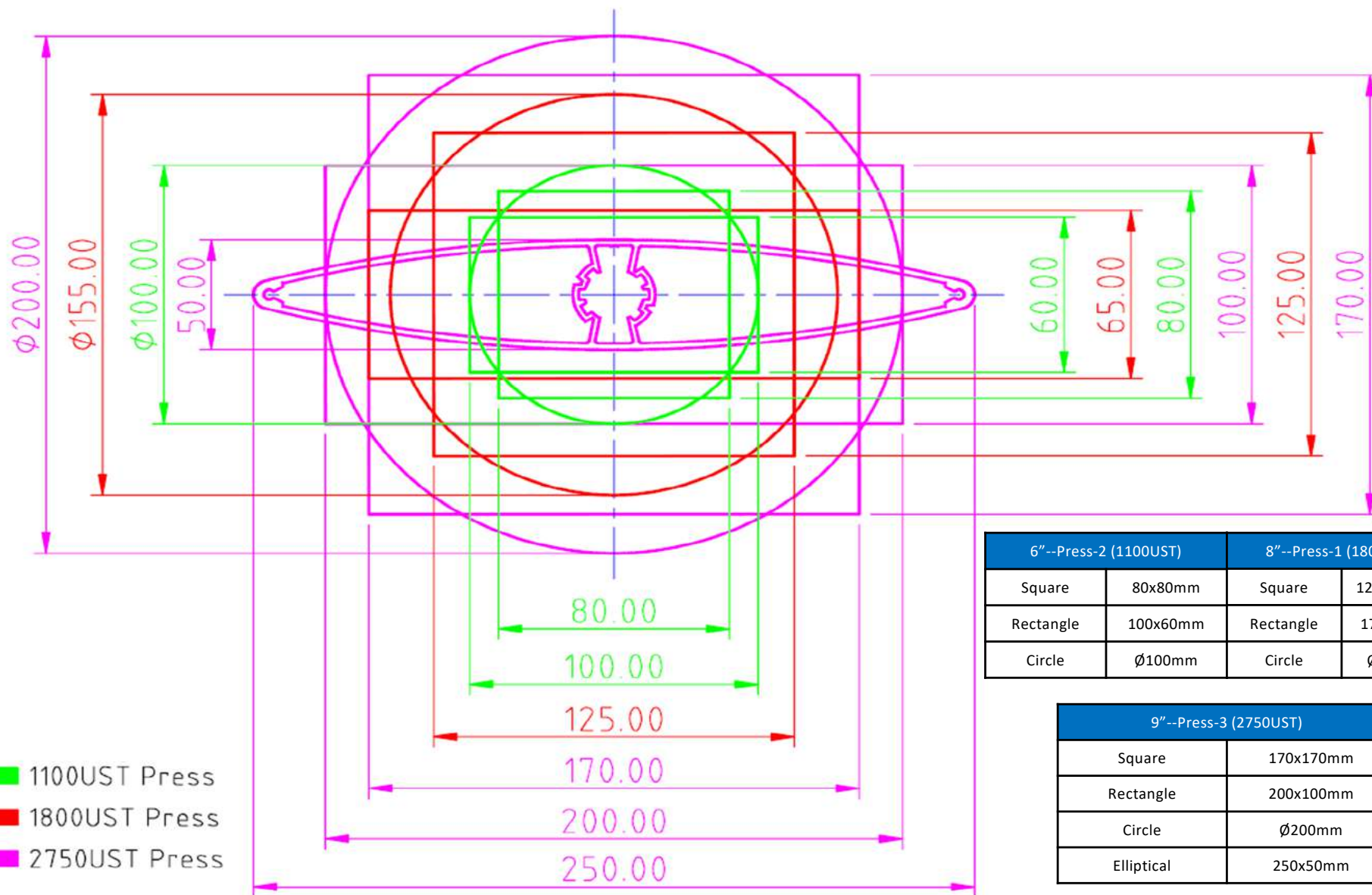
Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Aluminium Min
6063	0.20-0.60	0.35	0.1	0.1	0.45-0.90	0.1	0.1	0.1	Reminder
6060	0.30-0.60	0.10-0.30	0.1	0.1	0.35-0.60	0.05	0.15	0.1	Reminder
6005	0.6-0.90	0.35	0.1	0.1	0.40-0.70	0.3	0.2	0.1	Reminder
6082	0.7-1.3	0.5	0.1	0.4-1.0	0.6-1.2	0.25	0.2	0.1	Reminder
6101	0.30-0.7	0.5	0.1	0.03	0.35-0.8	0.03	0.1	0	Reminder
6351	0.7-1.3	0.5	0.1	0.40-0.8	0.40-0.8	0	0.2	0.2	Reminder

Mechanical properties as per DIN 755-2/IS-1285

Alloy/T6	Tensile Strength, <i>min</i> MPa	Proof Stress <i>min</i> MPa	Elongation A50mm <i>min</i> in %
6060	190	150	8
6101	200	170	8
6063	215	170	6
6005	250	200	6
6061	260	240	8
6351	300	255	8
6082	310	260	8

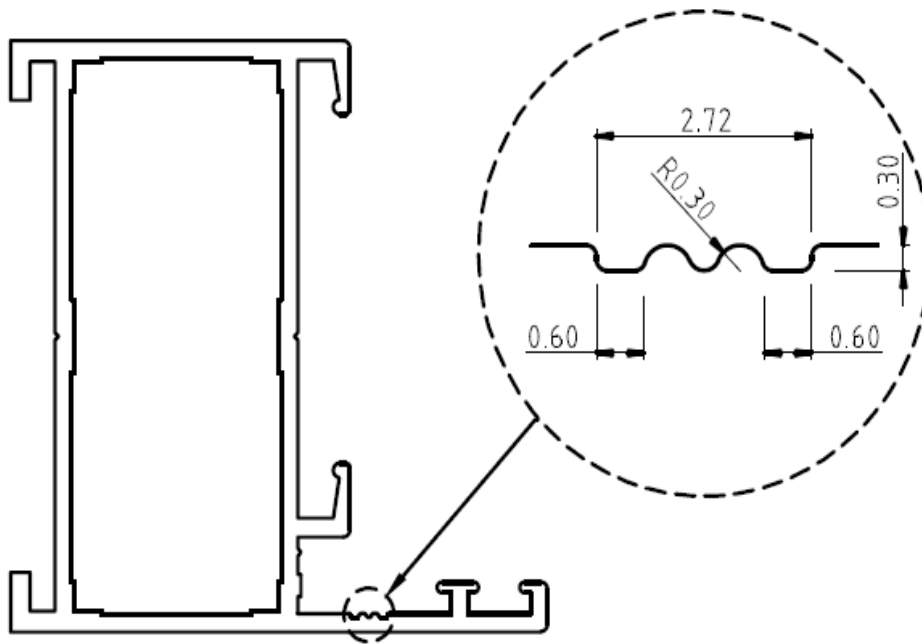
Different Tempers:

- T4-Solution heat treated & naturally aged.
- T5-Cooled from hot working and artificially aged (at elevated temperature).
- T6-Solution heat-treated & naturally aged.
- T66- solution heat-treated and then artificially aged - mechanical property level higher than T6 achieved through special control of the process



6"---Press-2 (1100UST)		8"---Press-1 (1800UST)	
Square	80x80mm	Square	125x125mm
Rectangle	100x60mm	Rectangle	170x65mm
Circle	$\phi 100$ mm	Circle	$\phi 155$ mm

9"---Press-3 (2750UST)	
Square	170x170mm
Rectangle	200x100mm
Circle	$\phi 200$ mm
Elliptical	250x50mm



- Bhoruka is having a unique Identification mark in all new profile developments (since 2015)
- This Identification mark will be prominent throughout the profile length (utilizing only 0.3mm thickness)
- It will be located at only non-functional and unexposed/hidden area of the profile.
- The purpose of this ID mark is for easy identification that a particular profile is Extruded and Supplied by Bhoruka (will be non-functional/un-exposed area)



- Extrusion**



- Billet Casting**



- Die Tooling**



- Anodizing**



- Powder Coating**
- Components**





Percentage on complaints at all-time low! Well below industry norms

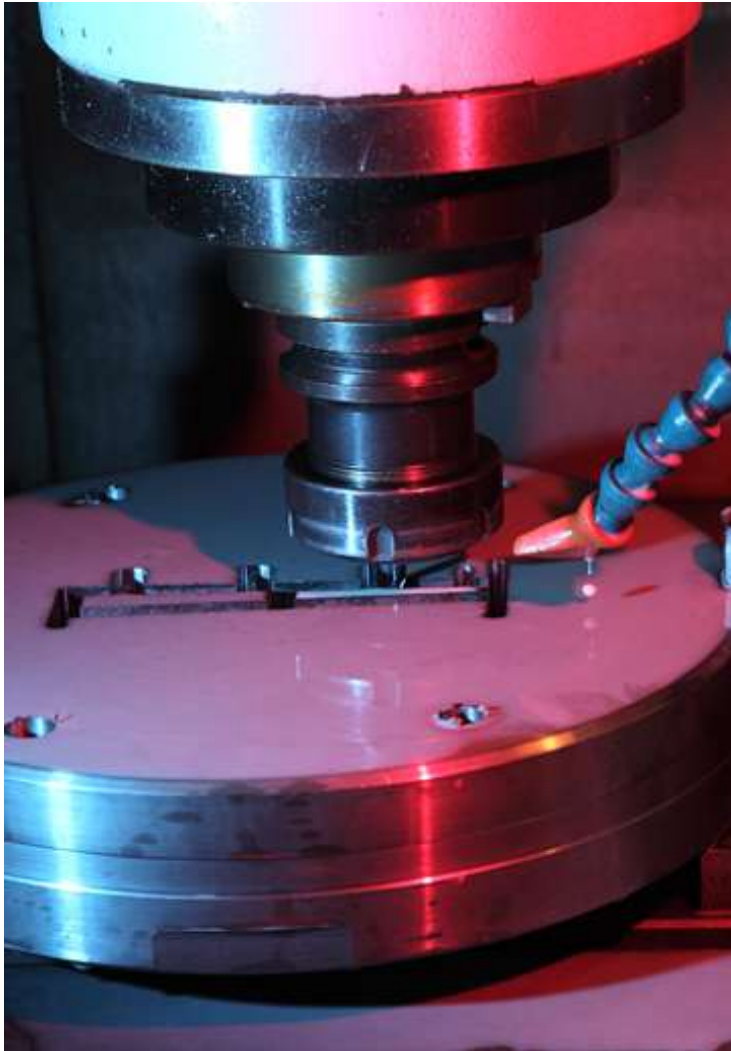
Rework percentage very low

Achieved the lowest rejection rate of 0.66 % last year

“ No QC teams are needed, every process has QC inbuilt ”

*Ramanaik
Asst. Foreman*





- Fluid hydrodynamics at 1000 degrees is easy when you have designed over 9000 dies
- R&D is intrinsic to our process
- We design exactly to your need

“Die design and extruding is an art. The years of experience allows us to deliver consistent results”

Mr. Lanney Thomas
Tool Room-BAL

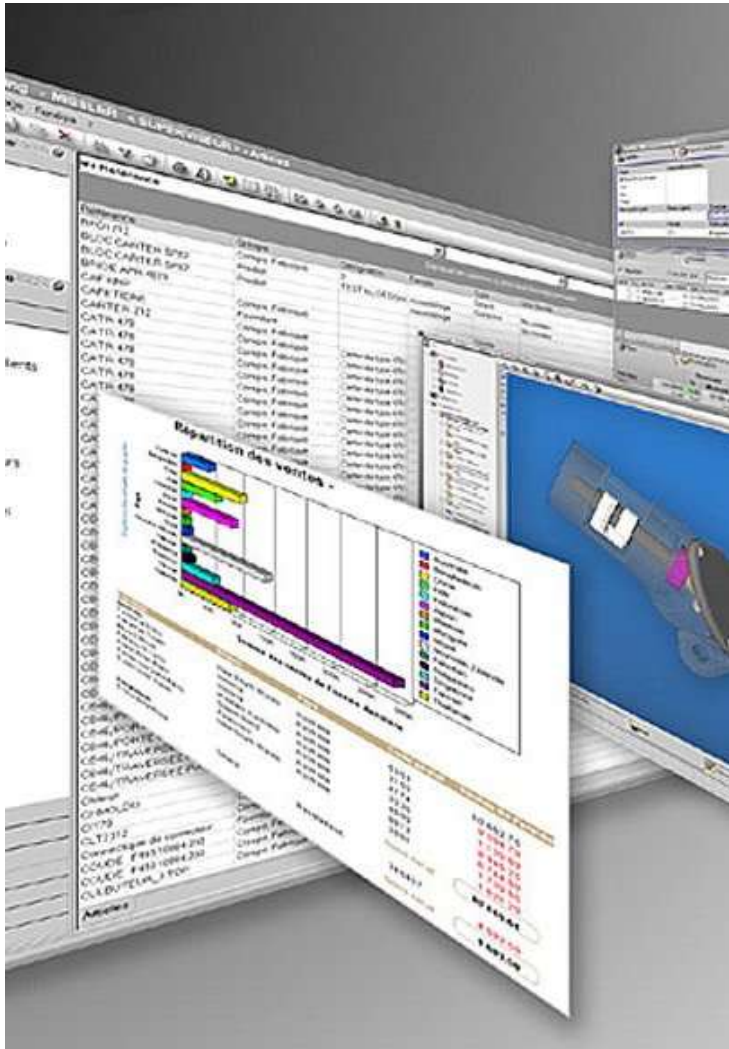




“Bhoruka is a shining example of how SAP should be implemented. We are proud to award them the 2008 ACE award”

Nagaraj Bhargava, SAP





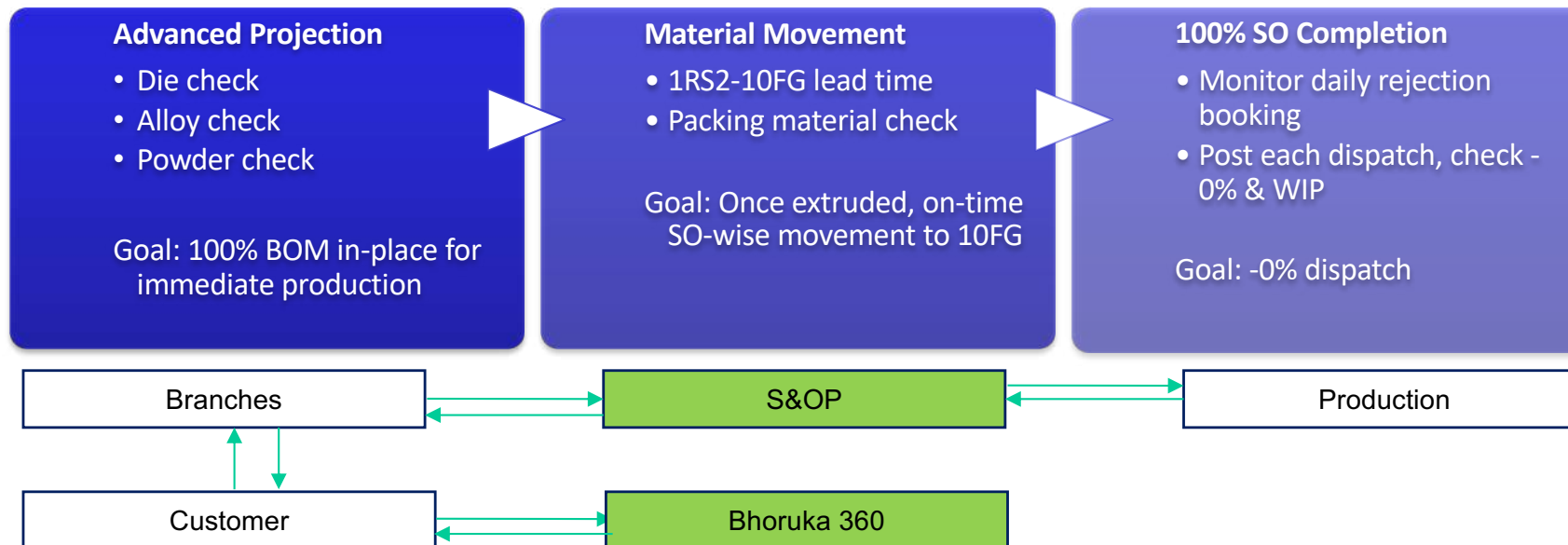
- Production planning automated (E-planner)
- Customer issue resolution in 24 hrs
- Complete traceability of the materials in ERP system
- Order Tracking and CRM is already 100% online via Bhoruka 360

“ Multi-dimensional operational metrics gives me a 360° view ”

*Mr. Veerendra -Incharge
Customer complaints /
Quality*



Factor	Bhoruka	Competitor	BEPL-Advantage
SO Release	Pieces	Kgs	Matches with FAB Cutting-list software
Weight Measurement	Drawing Mean Weight	Actual Weight	Matches with Tender weight, PO-Invoice consistency, ~3.5% savings on powder weight
Dispatch Tolerance	1-1000 pcs (-0%+5%)/ >1000 pcs (-0%+2%)	+/- 10% in Kgs	Reduced inventory and less total cost
Matching Section	@Aging and Invoice blocked	No check	Reduced inventory at customers
Order Status	Online	NA	Customer can track PO-Invoice online
Est Dt Dispatch	E-Planner (March 2019)	MS Excel	Customers can plan operations based on estimated date of dispatch



Building and Construction

We are one of the **largest direct-sales suppliers** to the **building and construction sector** in India and offer various products ranging from Doors, Windows, Railings, Formwork, Shutters, Curtain Wall systems and more in a wide variety of shapes, sizes and finishes! Our value offerings can be broadly categorised as follows -

Catalogue

Our catalogue contains more than 9000 sections that Bhoruka has developed by virtue of being in the industry for more than 35 years. It offer a wide variety of readily available designs from various industries and sectors for you to choose from

Made-to-order

Drawing from our vast experience, our Design and Engineering department excels at meeting specific customer requests as per the needs and demands of various projects and helps in turning your vision into reality

Systems

We have the unique distinction of being the only extruder in India associated with many globally reputed systems such as Airclos, AluK, Dorma, EFP, Schueco to name a few. We will be delighted to offer their range of products through authorised channels

E-Catalogue :Online self-updating catalogue with unique set of features
(www.bhorukaecatalogue.com)

- Get instant access to thousands of profiles listed by different categories/sub-categories
- View product images & description along with other details
- Download drawings in PDF format right on your desktop
- Send us an enquiry with complete details directly from the software
- Search by 'section number'
- More than 50 designs automatically added every month right on your desktop
- Choose from our on-line as well as off-line module for on-the-go work

OEM

Since our inception, Bhoruka has been catering to the growing demand and utilization of aluminum in various sectors ranging from – Electronics, Transportation, Textiles, Renewable Energy, Defense, Aerospace etc. We also specialize in the development of custom-made profiles under our made-to-order offering. We have extensive experience in working with various industrial alloys such as 1060, 6063, 6005, 6082, 6061. Some of the key sectors served by us are –

Electrical & Electronics

One of the earliest uses of aluminum sections was in the Electrical & Electronics sector. Bhoruka has been supplying aluminium in this sector for over 20 years. Most of our sections are used for applications which require very good conduction, heat control, heat transfer etc. We manufacture a wide variety of sections using different alloys depending on the end-use of our customers

Transportation

We have got a wide range of sections which are used in the Transportation Sector. Some of our product range includes sections for Bus Body & Truck Body. Bhoruka also manufactures sections for carriers, foot steps & other light SUV requirements

Textile industry

We supply various sections for for the textile industry, which is an important part of the Indian economy. The quality & precision of these sections are of high importance & Bhoruka is committed in providing both the right quality & service to this sector

Renewable Energy

Bhoruka has been always committed to a safer and better environment. Keeping this in mind we have dedicated offerings for our solar panel and wind mill customers. These sections are often supplied in natural anodizing which are all done at our own in-house facility.

TRANSPORT

- Metro coaches
- Gangway parts

Automotive

- Foot Step
- Roof Rails

Textile

- Roving Tubes
- Bobbin Rail

Projects

- Radiant Baffle
- Cycle frames

Machining – Inhouse machines from Emmegi, and Hurco

Project Management - Developing the entire value chain and taking responsibility upto end delivery

Designing – Working with customer to simplify their designs for efficiency and cost reduction

Tools and Fixture Developments – To improve storage and packaging specific to projects

Special Purpose Machine (SPM) - Developed bending , and turning machines inhouse

Sub Assembly – Steel, plastic, wooden and electronic sub assembly

#427E, Hebbal Industrial Area
Mysore – 570016
Karnataka, **India**
Phone- +91 - 821 - 2510351 / 2513876

E-mail: marketing@bhorukafabcons.com
Web: www.bhourkafabcons.com



ISO 9001-2008



Interpon D1000

Approved applicator for Interpon series (powder)



Interpon D2000



Interpon D3000





- Outstanding Export Performance Award
- National Safety Award
- International Quality Crown Award - London
- Engineering Export Promotion Council Award
- Best SAP Implementation Award in the metal's Sector



BUREAU VERITAS
Certification

BHORUKA EXTRUSIONS PVT. LTD.

NO.1, KRS ROAD, METAGALLI, MYSORE – 570 016, KARNATAKA, INDIA.

Bureau Veritas Certification Holding SAS – UK Branch certifies that the Management System of the above organization has been audited and found to be in accordance with the requirements of the Management System standard detailed below.

Standard

ISO 9001:2015

Scope of certification

MANUFACTURE OF MILL FINISH, ANODIZED AND POWDER COATED ALUMINIUM EXTRUSIONS IN STANDARD AND FUNCTIONAL SHAPES FOR STRUCTURAL / ARCHITECTURAL COMPONENTS, TRANSPORT, TEXTILE AND ELECTRICAL INDUSTRIES

Original cycle start date: 12 March 1995
 Expiry date of previous cycle: 13 December 2018
 Recertification Audit date: 11 October 2018
 Recertification cycle start date: 07 December 2018

Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: 13 December 2021

Certificate No. IND18.5785 U/Q Version : 1 Revision date: 07 December 2018



Signed on behalf of BVCH SAS – UK Branch
 Ramesh KOREGAVE
 Director, CERTIFICATION
 South Asia Region



UKAS
0008

Certification body address: 5th Floor, 95 Prescot Street, London, E1 8TD, United Kingdom

Local office: Bureau Veritas (India) Private Limited (Certification Business)
 72 Business Park, Marol Industrial Area, MIDC Cross Road "C", Andheri (East), Mumbai – 400 063, India

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organization. To check this certificate validity please call +91 22 8274 2000.



GRIHA Council

This is to certify that the product of

“Bhoruka Extrusions Pvt. Ltd.”

**ALUMINIUM EXTRUDED PROFILES
(WITH ANODIZING AND POWDER COATING)**

has been included in the GRIHA Product Catalogue under the following categories:

GRIHA V.3 criterion: 17

GRIHA V.2015 criterion: 21

&

SVAGRIHA criterion: 12

The product can be used in GRIHA & SVAGRIHA registered projects to meet the GRIHA & SVAGRIHA norms, respectively. This is valid only for the product which has been mentioned above.

The certificate for the above mentioned product is valid from
26th February 2020 – 25th February 2022



Sanjay Seth
Chief Executive Officer

Note: This evaluation has been done based on the documentation - in the form of 3rd party test results and/or declarations - submitted by the manufacturer to GRIHA Council.

GRIHA Council is a joint initiative of Ministry of New and Renewable Energy, Government of India and The Energy and Resources Institute (TERI) to implement GRIHA (Green Rating for Integrated Habitat Assessment), India's National Rating System for Sustainable Habitats.
www.grihaIndia.org





Confederation of Indian Industry
125 Years: 1895-2020

Membership Certificate

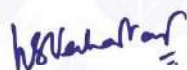
This is to certify that

Bhoruka Extrusions Pvt Ltd


is an Annual Member of Indian Green Building Council (IGBC)

*Bearing Membership No **IGBCM170151***

This certificate shall be valid up to December 2020



K S Venkatagiri
Executive Director
CII - IGBC



V Suresh
Chairman
Indian Green Building Council



Gurmit Singh Arora
Vice Chairman
Indian Green Building Council

Indian Green Building Council

CII - Sohrabji Godrej Green Business Centre, Survey No. 64, Near Hitech City, R R Dist, Hyderabad - 500 084
T: +91 40 4418 5132 / 33 F: +91 40 4418 5189 E: igbc@cii.in W: igbc.in









When you think extrusion, think **Bhoruka**,
Your partner of choice

Thank You