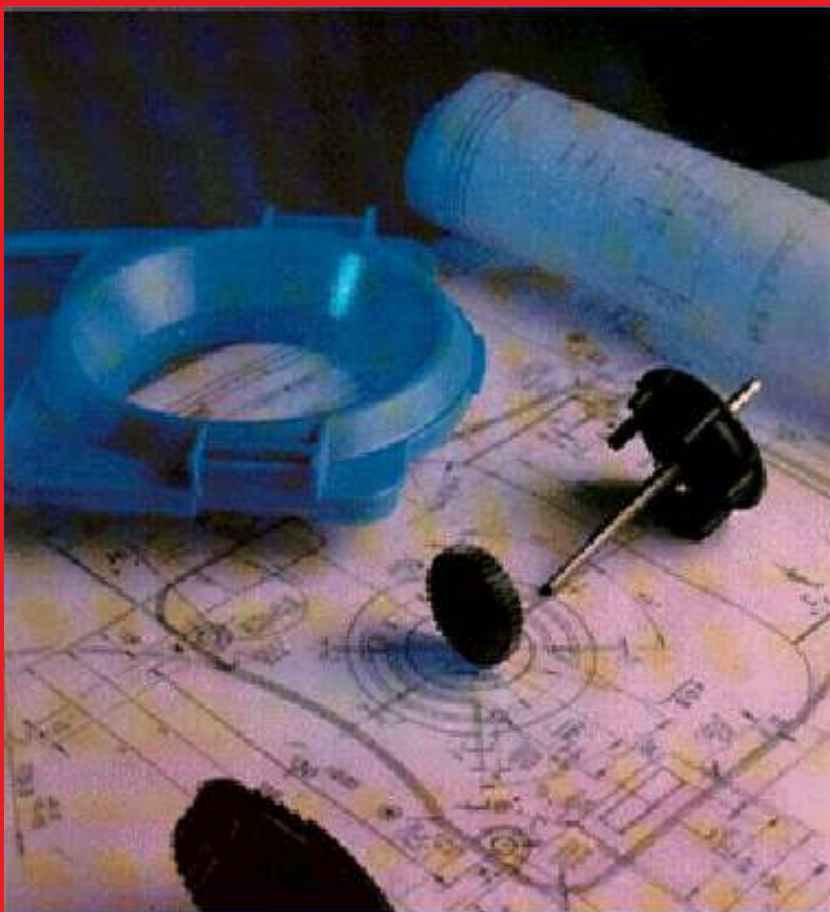


OUR STRENGTH - INNOVATION AND R & D



Sumat®
Trusted Brand Since 1963



OUR STRENGTH - INNOVATION AND R & D

NEW! SUMEET ASIA GRINDER-BUILT TOUGH TO
TACKLE THE TOUGHEST COOKING JOBS



Sumeet[®]

Trusted Brand Since 1963



OUR STRENGTH - INNOVATION AND R & D

"When Smt. Madhuri Mathur confronted her engineer husband to design a gadget suited to grind the tough spices and masalas required in the preparation of Indian Curries and other recipes, an innovation of a century took birth. Her husband, Shri. S. P. Mathur developed a mixer with a motor so powerful that for decades it has become the bench mark of food mixer-grinders worldwide".

SUMEET - A woman Entrepreneur Enterprise –
It all began with a Need in early sixties.

Research and Development in Sumeet has been
NEED BASED from day one.

Sumeet[®]
Trusted Brand Since 1963



OUR STRENGTH - INNOVATION AND R & D



About R & D Activities in SUMEET

Sumeet has always been deeply committed to research and development.

The R&D facility is a valuable tool in Sumeet's never ending voyage towards zero defect capabilities, enhanced product functionality and expanded customer service and support.

Our commitment to R&D over the years has been helpful not only in providing Sumeet customers with the latest in product developments but also in providing innovative ideas with the state of the art technology.

Sumeet is in the market since 1963.

OUR STRENGTH - INNOVATION AND R & D

THE MOST POWERFUL AND BEST
MIXER-GRINDERS SINCE 1963



Sunmeet®
Trusted Brand Since 1963



OUR STRENGTH - INNOVATION AND R & D

About R & D Activities in SUMEET.....

We are the pioneers in this field food mixer, kitchen appliances and home appliances. Our strength is our R&D under the leadership of Mr. Ajay Mathur the elder son of late Mr. S. P. Mathur, our Founder .

Our products are purely need based. They are all designed to meet the requirements of Asian kitchen. We have been taking the feed- backs from every one – the end users, the dealers - in the market



and are implementing them in all our products. In the construction of our each and every product we try to use the world's best and latest materials.

Mr. Ajay Mathur
Chairman Sumeet

Sumeet®

Trusted Brand Since 1963



OUR STRENGTH - INNOVATION AND R & D

About R & D Activities in SUMEET.....

Our Sumeet Mixers are being exported to almost all the countries in the world today. Today our customers in those markets are just not only the Indians but also locals as well. They are all very happy to use our mixers for their day to day fresh food grinding.

We are the pioneers in this mixer/grinder industry. We are even proud to say that our products are looked at as Bench marks in this industry. But with all that we do not want to be complacent. We continue to look for improvements and we shall do our best in that direction.

Sumeet[®]

Trusted Brand Since 1963



Asia Award 1980

Sumeet®

Trusted Brand Since 1963



QUALITY POLICY

- SUMEET SHALL CONTINUE TO BE A SYNONYM FOR QUALITY, RELIABILITY AND SAFETY AND ENJOY CUSTOMER CONFIDENCE WORLDWIDE.
- SUMEET SHALL RETAIN ITS POSITION AS MARKET LEADERS BY INNOVATIVE TECHNOLOGIES IN ORDER TO GIVE PRODUCTS TOTALLY SATISFYING CUSTOMER REQUIREMENTS IN LINE WITH THE PHILOSOPHY OF THE HOUSE- "TO DO WHAT IS MORE IN THE INTEREST OF THE CONSUMER".
- SUMEET SHALL CONTINUE GIVING ITS CUSTOMERS PRODUCT EDUCATION AND QUALITY AFTER SALES SERVICE TO GET THE MOST OUT OF ITS PRODUCTS.
- SUMEET SHALL CONTINUE ITS EFFORTS TO MAINTAIN EXCELLENT HUMAN RELATION IN OUR DEALINGS WITHIN AND AROUND US.
- SUMEET SHALL FOLLOW THIS POLICY WITH THE COMBINED EFFORTS OF ONE AND ALL THROUGH EFFECTIVE IMPLEMENTATION OF QUALITY SYSTEM STANDARDS.

S.P. MATHUR / AJAY MATHUR



About R & D Activities in SUMEET.....

In line with the Quality Policy of The Sumeet Company

OUR STRENGTH - INNOVATION AND R & D



About R & D Activities in SUMEET.....

In line with the Philosophy of The House of Sumeet



1930-2009

**"THE MOST IMPOPRTANT, IF NOT THE ONLY
PHILOSOPHY OF THE HOUSE IS TO DO WHAT IS
MORE IN THE INTEREST OF THE CONSUMER"**

A handwritten signature in black ink, which appears to read "S. P. Mathur".

**S. P. MATHUR
CHAIRMAN / FOUNDER
THE SUMEET GROUP**

OUR STRENGTH - INNOVATION AND R & D

About R & D Activities in SUMEET.....

In line with the Philosophy of The House of Sumeet

"Incorporating consumers needs at various stages of their life cycles into product design and then providing demonstrations and classes are important aspects in the product – purchase – satisfaction – in use equation".



Ajay Mathur
launched India's
first Sumeet's
tumble wash,
fully automatic
washing machine
in 1988.

Sumeet®

Trusted Brand Since 1963



OUR STRENGTH - INNOVATION AND R & D



In line with the Quality Policy of Sumeet Group and In line with the Philosophy of The House of Sumeet

R & D Activities in SUMEET are centered around.....

1. New Concepts Development
2. New Products Development
3. Upgrading the products
4. Technological Improvements in Manufacturing



OUR STRENGTH - INNOVATION AND R & D

About R & D Activities in SUMEET.....

New Concepts Development leading to new products

When Sumeet was conceived it was designed to meet the toughest challenges.

The most difficult grinding job was in south Indian kitchens where brittle grains like rice had to be ground into a smooth paste. The grinding stone, despite the efforts put in, rarely yielded a butter-smooth paste. And the grinding was done very frequently – almost on a daily basis.

That was the NEED from the market.

The Answer to that was the new concept – IDLI PAATHRA.

The concept of high speed grinding in a metal jar had its very important beginnings in “Idli Paathra” which could do very good grinding of rice and urad dal.

Year - 1971





OUR STRENGTH - INNOVATION AND R & D

About R & D Activities in SUMEET.....

New Concepts Development leading to new products

While Idli Paathra was doing excellent wet grinding, it had the disadvantages...

Loading was high, shape was not user friendly, limitations in grinding with a fixed blade. The R&D team worked on these short-comings and the result was a new

METAL JAR – with two interchangeable Blades for Dry and Wet Grinding.

Sumeet sets a new trend in the Mixer Industry by introducing Aluminium Jar Accessory for dry and wet grinding with different replaceable Blades.

The Blade has to be pushed on to the shaft in position.

Year - 1972





OUR STRENGTH - INNOVATION AND R & D

About R & D Activities in SUMEET.....

New Concepts Development leading to new products

The Mixer Pack with a Glass Jar for liquidizing and whipping and the Aluminum Metal Jar with two interchangeable Blades for Wet and Dry Grinding proved to be very expensive for the end user. The pack also had complaints of Glass Jars prone to breaking with expensive replacements. Also there was a need for Mincing / Grating functions in the kitchen.

This resulted in a new concept of Stainless Steel Jar with see-through dome combining all the requirements of wet grinding/blending, dry grinding, whipping and mincing/ grating with four interchangeable Blades in one Jar.

Sumeet Domestic
Mixer
Year - 1976



OUR STRENGTH - INNOVATION AND R & D

About R & D Activities in SUMEET.....

New Concepts Development leading to new products



The shift from a glass jar to an aluminum one and then to steel jar is one instance of action taken on feed back. Collecting feed back from consumers, processing, analyzing and most important, acting upon the feed back was what helped Sumeet stay ahead.

OUR STRENGTH - INNOVATION AND R & D

About R & D Activities in SUMEET.....

New Concepts Development leading to new products



Year - 1976 - 1986



This unique concept of one single jar with four interchangeable blades designed with proper understanding of different cooking needs was a revolution in the mixer industry. This made Sumeet to be looked at as a bench-mark in the industry.

This concept reduced the cost to the consumer by approx. Rs.200/- giving more functionality. This was an immediate marketing success and the turning point for the mixer industry in India. This concept created an upsurge in the demand for mixer- grinders.

The concept was patented.

OUR STRENGTH - INNOVATION AND R & D

About R & D Activities in SUMEET.....

New Concepts Development leading to new products



Year - 1965



Year - 1968



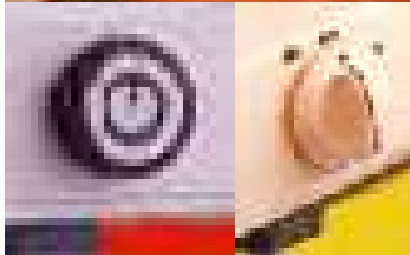
Year - 1972



Year - 1976



Whipping function has been identified as an important requirement in the kitchen from day one in Sumeet. From time to time, different types of Whipper Blades have been designed to do effective whipping.



In addition to the blade design, whipping speed was also identified as a critical one to get satisfactory whipping levels. While in Glass jar (1), it was done at Speed1 of the motor, in Aluminum Jar and in Steel Jar, a low whipping speed was achieved through Solid State Control. Also for whipping Speed, a separate Incher Switch was provided in the earlier models and in subsequent models, the whipping speed position was incorporated in the Rotary Switch itself.

OUR STRENGTH - INNOVATION AND R & D



About R & D Activities in SUMEET.....

New Concepts Development leading to new products



Sumeet Meat Mincer/ Vegetable Grater

Unique Meat Mincer/ Vegetable Grater—first of its kind

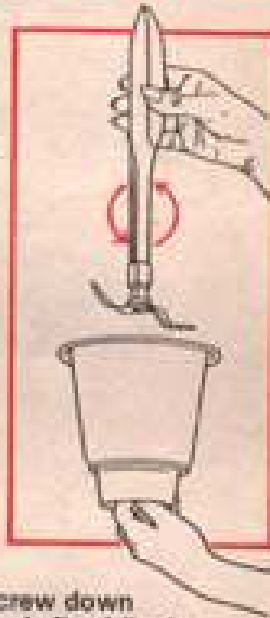
Specially developed for high speed and versatility...to make your Sumeet's amazing range of performance even wider

- Minces meat in just 1 minute. And, unlike ordinary hand-mincers, keeps in all the precious natural juices.
- Grates carrots, onions, coconut, nutmeg, cashew nuts, walnuts, almonds...in seconds.
- Crushes ice quick-as-a-wink for tempting flavoured ices. Shaves ice for cocktails top.

The unique Meat Mincer/Vegetable Grater is a simple yet ingenious blade that works with the Stainless Steel Jar.

Fix it as follows:

1. Position the blade correctly on the shaft in the jar.
2. Using the spatula provided, gently screw down (in anti-clockwise direction) till blade is fixed firmly—but do not overtighten.



Important

1. When mincing meat, remove all bones and trim off fat before use.
2. Cut all meat/vegetable into 1" cubes.
3. Do not over-fill jar. Maximum quantity should be half a jar at a time.

Caution

1. Hold down the dome lightly while in operation.
2. Do not run machine with empty jar.

How to clean

Leave Meat Mincer/Vegetable Grater fixed to Stainless Steel Jar. Pour a little water into the jar and run your Sumeet for some time. This will remove all particles, ensuring thorough cleansing. Then detach Meat Mincer/Vegetable Grater and leave it and the jar to dry. Always clean after use.

Use your Meat Mincer/Vegetable Grater to make Hamburgers, Kofta Curry, Coconut Barfi, Carrot Halwa, Flavoured Ices and other popular dishes!

The need to do mincing of meat, grating of vegetables/coconut/nuts and crushing of ice was understood by Sumeet R & D and the answer to that was this unique Mincer Blade. This was a patented design and became the Industry Standard as well.

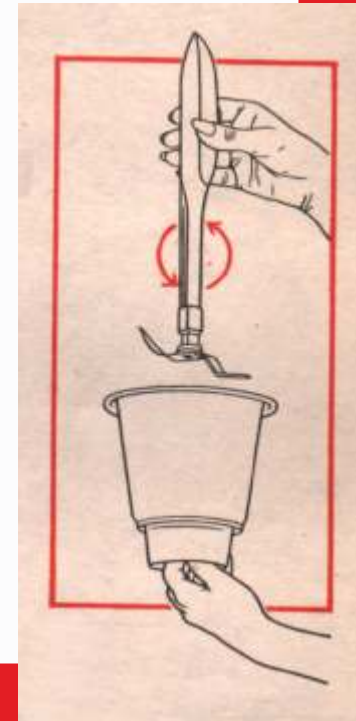
OUR STRENGTH - INNOVATION AND R & D

About R & D Activities in SUMEET.....

New Concepts Development leading to new products



Since the Blades are interchangeable and each blade has to be fixed on to the shaft for rotation, the screwing and unscrewing of the nut in the blade has to be done with ease by the end user. This necessity was taken care by designing a hexagonal spanner at one end of spatula. So a dual purpose Spatula-cum-spanner was given in the mixer pack from the year 1976.



OUR STRENGTH - INNOVATION AND R & D



About R & D Activities in SUMEET.....

New Concepts Development leading to new products



Dry Grinding of small quantities was always a matter of concern after the withdrawal of Glass Dome that was given in the earlier models of Sumeet.

In 1978-79, the Small Quantity Grinder Cup was designed and introduced. This when clamped on to the inside of the 1 Ltr. jar, effectively reduced the volume of grinding portion and gave very good consistent dry grinding of cereals, pulses, etc.

The design of the Wet grinding Blade was also modified so that the end users can use either of the two blades – wet blade or dry blade along with the Measuring Cup.

This cup served the purpose as a Measuring Cup also.



Wet Blade - Earlier version - with a combination of Bottom, Middle and Top Blades.

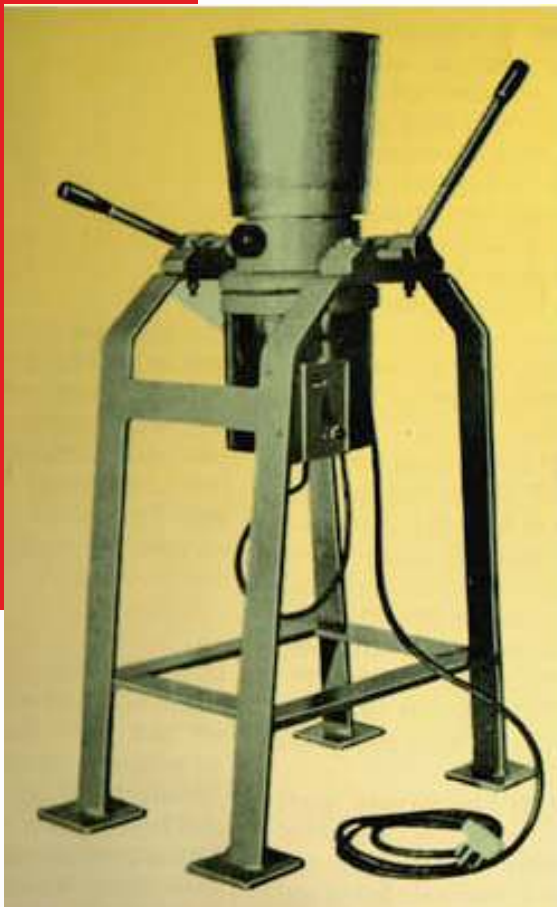


Wet Blade - new version - with Bottom and middle modified.

OUR STRENGTH - INNOVATION AND R & D

About R & D Activities in SUMEET.....

New Concepts Development leading to new products



The success of High Speed Grinding in a Metal Jar prompted Sumeet to introduce a larger version of Mixer Grinder for wet and dry grinding in Smaller Restaurants and Catering establishments.

A replaceable Bottom portion was additionally given for use while dry grinding to achieve flat bottom.

The jar could be tilted and fixed in any position for pouring out the ground ingredients.

OUR STRENGTH - INNOVATION AND R & D



About R & D Activities in SUMEET.....

New Concepts Development leading to new products



Kneading of Dough for Chapatis, Papads, etc. is a tough job in the kitchen. The Solution to that was given by Sumeet Kneader. The first version designed in 1972 was in Aluminium vessel with a reduction gear box to get reduced speed suitable for kneading. It had a Kneader Blade and a Cake Mixing Hook.

Much better technology was incorporated in the Food Processor that was introduced in 1981 having a sturdier Gear Box, See-through Polycarbonate Bowl wherein one can do kneading, chopping/grating, slicing, shredding, finger-chip, juicing, etc. A similar one was adopted in Sumeet Super also. Later in 90's a Kneader with Stainless Steel Bowl was also given in the market.



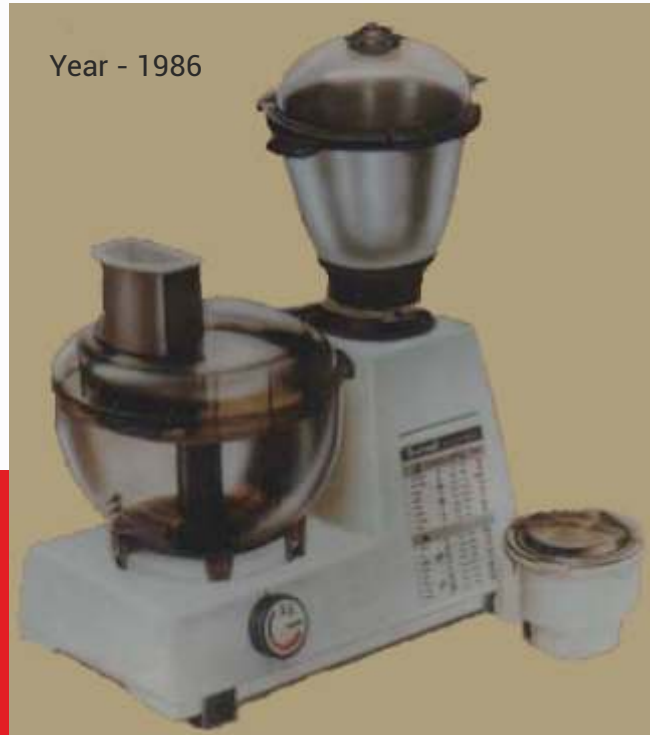
OUR STRENGTH - INNOVATION AND R & D



About R & D Activities in SUMEET.....

New Concepts Development leading to new products

In early 1985, The House of Sumeet felt the immediate requirement of a high end product, a versatile Kitchen Machine, catering to all the requirements in the kitchen in one machine – Grinding wet and dry, blending, whipping, grating /mincing and other food processing needs of shredding, slicing, finger chipping, kneading, cake mixing, juicing, etc. The product – SP 16 Electronic that was brought out by Sumeet R & D was a well engineered product – a totally new concept that combines a food processor with a high speed multi-purpose stainless steel bowl – all in the same unit.



SP 16 is a dual shaft kitchen machine and has a specially designed electronic circuit which achieves stepless speed selection with a high degree of accuracy. This means that a preset speed is maintained even at increasing loads without loss of power. An added feature is the incorporation of a safety interlock and breaking mechanism. The interlock and special mechanical construction of SP 16 ensures that only one attachment can be used at a time, enabling full output from each attachment.

Sumeet SP 16 Electronic
A Turning Point in the Food Preparation

OUR STRENGTH - INNOVATION AND R & D

About R & D Activities in SUMEET.....

New Concepts Development leading to new products



For added convenience, to store the different Blades and Disks in the kitchen, a disk rack was conceived, designed and given along with SP 16.

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About R & D Activities in SUMEET.....

New Concepts Development leading to new products



Master 900 is a revolutionary new food mixer concept, combining a 'blender and grinder' in the same unit.

The well conceived large (1.75 liter) capacity work bowl features an integrated cover and feed tube to process foods with a multipurpose fixed blade assembly. This eliminates the change of blade assembly. Blades for different tasks, or the frequent fixing and removal of lids or domes – by troublesome clamps and locator pins.

The special mechanical construction of the Master 900 ensures complete safety to the user and eliminates the chance of accidental contact with moving blades whilst in operation.

OUR STRENGTH - INNOVATION AND R & D



About R & D Activities in SUMEET.....

New Concepts Development leading to new products



The need to protect the motor from persistent overloading was felt in early eighties. Extensive trials were done at Weber, Switzerland and a suitable manual reset type thermal circuit breaker for this type of universal motors was conceived and fitted in Sumeet mixers from 1984.

AUTOMATIC TRIP - OFF ARRANGEMENT

Your SUMEET Domestic Mixer is protected against sudden overloads. In case, such a situation does occur, your SUMEET will automatically trip-off, and hence protect the Motor.

To restart the machine, please wait for 2-3 minutes to allow the motor to cool down and also remove the cause of the overload. The red button of the thermal relay switch located on the bottom plate of the mixer has to be pressed by your hand for re-operation (as in Diagram.)



Diagram

Large scale burning of motors in the under voltage conditions and overloading of jars with ingredients got reduced after the introduction of the circuit breakers.

OUR STRENGTH - INNOVATION AND R & D



About R & D Activities in SUMEET.....

New Concepts Development leading to new products

Since its inception in 1963 earnest efforts have been systematically put in to make the Kitchen Machines versatile for catering to Asian Kitchens by revising on a periodical manner the accessories. New development, in the year

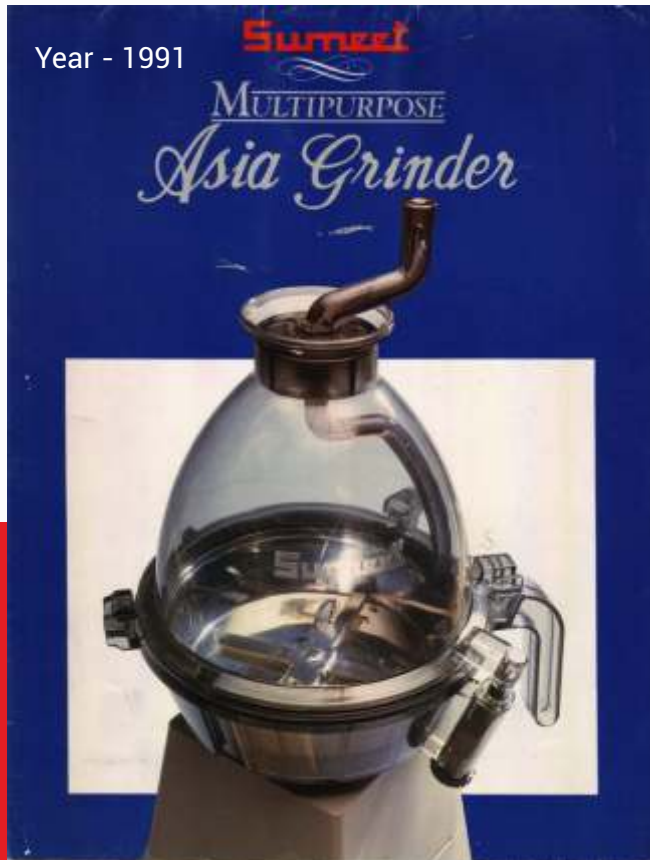
1991 was "Asia Grinder". This has got a versatile speciality grinder which can do dry grinding of cereals, oil seeds etc. and do wet grinding of pastes for Idly and Vada, and a combination of dry and wet grinding.

This has been a patented design and very well accepted in the market.

It is a new revolution in grinding. One can use the Asia Grinder for pastes and chutneys which previously could only be done with a stone and pestle.

The stainless steel dish has been housed in a Polycarbonate outer jacket for protection from heat. It comes with a versatile fixed blade, a new uniquely shaped see through Dome that aids circulation and a Flat Lid for use while doing small quantity grinding.

Additional safety feature in Asia Grinder was the provision of electrical interlocking through the Dome and Flat Lid.



OUR STRENGTH - INNOVATION AND R & D



About R & D Activities in SUMEET.....

New Concepts Development leading to new products

The Asia Grinder Jar comes with a versatile fixed blade, with an unique design. With the broad based dish and with a new uniquely shaped see through Dome that aids circulation, the grinding performance is the best.



OUR STRENGTH - INNOVATION AND R & D

About R & D Activities in SUMEET.....

New Concepts Development leading to new products



Other conveniences like feeding Funnel and a Stopper Stirrer have been very well conceived and are provided with the Asia Grinder.

The Funnel facilitates feeding and adding of the ingredients into the Dome neatly.

The stirrer can be used while the grinder is on to dislodge particles on the sides of the grinder dome. It acts like a flow-breaker as well enabling the food ingredients being ground to fall back to the centre of the grinder thereby improving grinding.

OUR STRENGTH - INNOVATION AND R & D



About R & D Activities in SUMEET.....

New Concepts Development leading to new products

On getting the feed back from the customers, continuous improvements were made on the clamping system. The Screw type locking clamps initially provided in the Asia Grinder Jar were replaced by sturdy stainless steel wire clips to be more user-friendly. The slide locks were also improved for easy and safe locking.



OUR STRENGTH - INNOVATION AND R & D

About R & D Activities in SUMEET.....

New Concepts Development leading to new products



**Model :
AKM 952**



**Model :
AKM 993**



**Model :
HP A3**



**Model :
HP A8**

Sumeet R & D worked on the difficulties faced in the production floor in bonding the Polycarbonate Housing with the Stainless Steel Dish in the Asia Grinder Jar and introduced in the new Asia Kitchen Machine CAT.No.993, an Asia Grinder Jar in a Double Walled Stainless Steel version and a 1.2 ltr. Jar completely in stainless steel. The Asia Grinder Jar has become more production friendly.

The development of the new health processor in 2016 led to the design of the latest version of its Asian Grinder in the new Avatar of health processor series.

OUR STRENGTH - INNOVATION AND R & D

About R & D Activities in SUMEET.....

New Concepts Development leading to new products



In Sumeet, Juicing has been considered as an important requirement in any household. To satisfy those customers, it gave attachments that fit on the different models of Sumeet - A round type Juicer attachment for Domestic

Series and AKM series of mixers and Centrifuge V 19 model for SP 16 and 842INT mixers.

Also in the main packs of Juicer Mixer Grinder CAT. No.953 and Asia Kitchen Machine Plus Model 955, the Round Type Juicer attachment was given.



OUR STRENGTH - INNOVATION AND R & D

About R & D Activities in SUMEET.....

New Concepts Development leading to new products

Studying the response for the Juicer Attachments, Sumeet R & D listed out some of the draw backs in such attachments –

1. Because of high speed being used, the extraction of Juice is not complete, in the sense, the pulp carries away some juice as well.
2. Being top loaded as an attachment to the mixer, it gives rise to lots of vibration due to unbalance.
3. In addition to centrifugal juicing, citrus press for extracting Juice from oranges, etc. is a strong requirement.

Having understood all these requirements, Sumeet R & D came out with a 3 in 1 Juicer with a Centrifugal Juicer, a Citrus Press and a High Speed Blender/ Liquidiser. The different speed requirements were achieved through an integrated gear Box.

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Trusted Brand Since 1963



OUR STRENGTH - INNOVATION AND R & D

About R & D Activities in SUMEET.....

New Concepts Development leading to new products



A unique concept of a 3 in 1 Juicer – a high speed Blender, a medium speed centrifugal Juicer and a low speed Citrus Press.

But unfortunately, this well conceived and designed product was not taken up for manufacturing

OUR STRENGTH - INNOVATION AND R & D

About R & D Activities in SUMEET.....

New Concepts Development leading to new products



Having felt the need for a compact every day use fresh food grinder for the modern day small kitchens, Sumeet introduced the Model MULTIGRIND in 1996.

Its modern space saving design conceals a powerful 400-Watt, 1/2-hp motor. The single (detachable for easy cleaning) Stainless Steel Jar and Blade with unbreakable polycarbonate lid can grind up to almost 1 cup of dry ingredients into a fine powder or wet ingredients into a smooth paste. The Built-in Stirrer allows you to mix while it grinds, resulting in quick and uniformed powder or paste. The Sumeet Multi Grind can tackle tough ingredients like grains, corn, whole spices, dried pepper, chillis, oilseeds, coconut, soaked lentils and rice, herbs, and more in seconds. It can even Crush Ice!

OUR STRENGTH - INNOVATION AND R & D

About R & D Activities in SUMEET.....

New Concepts Development leading to new products



With an addition of a Blender Jar and a Chopper Jar, MULTIGRIND with a new name Multigrind Plus became a versatile blender-grinder- chopper for day to day preparation of fresh food.

Chopping at high speed is fairly a new concept that was adopted to get additional utilities from this tower model.



OUR STRENGTH - INNOVATION AND R & D

About R & D Activities in SUMEET.....

New Concepts Development leading to new products

In all the models of Juicer Mixer Grinder the Juicing was done at a relatively high speed with the result the pulp was carrying away some portion of juice as well. This could not be avoided. Though it was achieved in the 3 in 1 Juicer (not introduced in the market), it had a gear box in it for mechanical reduction of speed. Eliminating the gear box, our R & D Team worked on a step less speed configuration through electronic circuit which had a feature of maintaining constant speeds over a range of loading. So one could select a suitable Juicing Speed with good torque and the juicing was almost complete.

This concept was incorporated in the new model named Juicer Mixer Grinder 2000 given in the market from November 1999 and also in the model AKM2KEJ in 2001.



OUR STRENGTH - INNOVATION AND R & D

About R & D Activities in SUMEET.....

New Concepts Development leading to new products



Right from the year 1971, when the first Sumeet Super was introduced for use in canteens and restaurants, Sumeet was trying to do all the time for the hotel industry. The interest in serving hotel industry got enhanced when Sumeet started marketing Artex products. Sumeet team worked on this requirement and introduced the entire range of products calling it as Millennium Chef in the year 1999. Every function – wet grinding, potato peeling, vegetable slicing, shredding, fruit pulp, mixing – could be handled by different equipments with a common motor drive, unique and powerful to handle tough tasks. Later the range was introduced as table top models also.

The entire development work from concept to manufacturing was handled under the leadership of Mr. S.C.Mathur.

OUR STRENGTH - INNOVATION AND R & D

About R & D Activities in SUMEET.....

New Concepts Development leading to new products



A very new concept of achieving required speeds by using variable frequency (0 to 150 Hz.) drive was employed in FOOD GRINDER specially developed for international markets. It has a powerful 5 HP motor, controlled in a special way to deliver a consistent speed – torque efficiency, required in tough grinding operations.

This was displayed in Domo technica Fair Cologne, Germany in February 1999.

OUR STRENGTH - INNOVATION AND R & D

About R & D Activities in SUMEET.....

New Concepts Development leading to new products

Extensive Trials at every stage of product development are carried out and the Marketing personnel are involved in the evaluation of products before launching them in the market.



OUR STRENGTH - INNOVATION AND R & D

About R & D Activities in SUMEET.....

New Concepts Development leading to new products

WHATEVER BE THE PRODUCT
WE CHOOSE TO MAKE
WE KNOW ONE THING ABOUT IT
WE WILL MAKE IT BETTER

Sumeet[®]

Trusted Brand Since 1963



Motors for Sumeet Mixers since 1963

Sumeet[®]

Trusted Brand Since 1963



**OUR STRENGTH - INNOVATION
AND R & D**

**About R & D Activities in
SUMEET.....**

High Quality, Most Reliable,
Best Performance Motors
engineered incorporating
the latest technology and
the best materials available
in the world.



OUR STRENGTH - INNOVATION AND R & D



About R & D Activities in SUMEET.....



High Quality, Most Reliable, Best Performance Motors engineered and manufactured at Power Control & Appliances Co., Madras and supplied to meet the requirements of specific customers.

VACUUM CLEANER MOTOR



Customer : Delstar, Ogalewadi
End Use : Vacuum Cleaners
Specifications:
Rating : 550 W 230V 50 Hz
Type : Universal Series
Class of Insulation : B

Construction Details:

Stator : Laminated Steel Stack 68x81x50mm
Winding : Super Enamelled Copper Wire 22 G
Rotor : Laminated Steel Stack 50mm dia 50mm ht.
Winding : Super Enamelled Copper Wire 24 G
Impregnation of Stator & Rotor : Varnish
Commutator : 32 mm dia, 12.5 mm active length
End Brackets : Aluminium Alloy LM 24
Bearings : Ball Bearings 10mm ID
Brush : Carbon Size : 9x6x25mm with pigtail & spring
Brush Carrier : Brass insulated by Hylam tube.

CIRCUIT BREAKER MOTOR



Customer : Mysore Electrical
Industries Bangalore
End Use : Circuit Breakers
Specifications:
Rating : 250 W 230V 50 Hz
Type : Universal Series

Class of Insulation : B

Construction Details : Stator and Rotor of Laminated Steel Stack housed in Aluminium End Brackets with shaft end Ball Bearings (8mm) support and Carbon Brushes mounted on two independent Brass Brush Holders fixed to Bottom Bracket.

OUR STRENGTH - INNOVATION AND R & D



About R & D Activities in SUMEET.....



High Quality, Most Reliable, Best Performance Motors engineered and manufactured at Power Control & Appliances Co., Madras and supplied to meet the requirements of specific customers.

Customer : Heavy Vehicles Factory, Avadi
End Use : For Fume Extraction in Vijayanta Tank
Specifications:

Rating : 20 W 24/28V DC RPM 6250

Class of Insulation : B

Construction Details:

Stator of Permanent Magnet and Rotor of Laminated Steel Stack with wound copper housed in Aluminium End Brackets with shaft end Ball Bearings (5mm & 3 mm) support and Carbon Brushes mounted on Brass Brush Holders fixed to Brush Carrier Mounting Plate screwed to Bottom Bracket. The Brushes are retained by Spiral Springs. The motor is mounted into a Tubular Frame in Aluminium with Impellor in Bakelite.



FUME EXTRACTOR FAN 3" DIA.

Customer : Heavy Vehicles Factory, Avadi
End Use : For Dust Extraction in Vijayanta Tank
Specifications:

Rating : 24V 10Amps DC 0.28HP RPM 7000

Class of Insulation : B

Construction Details:

Stator and Rotor of Laminated Steel Stack with wound copper housed in Aluminium End Brackets with shaft end Ball Bearings (8mm & 10 mm) support and Carbon Brushes mounted on Brass Brush Holders fixed to Brush Carrier Mounting Plate screwed to Bottom Bracket. The Brushes are retained by Spiral Springs.



DUST EXTRACTOR MOTOR

OUR STRENGTH - INNOVATION AND R & D

About R & D Activities in SUMEET.....

Import Substitution

The only product other than mixer grinders that was developed and sold by Sumeet Group was Fully automatic washing machines and dry and wet vacuum cleaner. The design was based on an imported version but the entire components were indigenously made with the tools developed in India. The entire project was handled by Ajay Mathur in Sumeet's most modern factory at Nasik, Maharashtra (1988-1990)



Sport washing machine

Sumeet AquaVac Wet
& Dry vacuum cleaner



OUR STRENGTH - INNOVATION AND R & D

About R & D Activities in SUMEET.....

Import Substitution Achievement

Basically components imported like Rotary Switches, Micro Switches and Thermal Relays have been taken up for development locally along with the switch manufacturers Teknic, Bangalore. Rotary Switches with special configuration incorporating switching on while 'breaking, Micro Switches and Thermal Relays manufactured by Teknic have been got approved as per CSA and VDE. So we are no longer importing Rotary Switches and Micro Switches for use in our export Mixers.

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Trusted Brand Since 1963



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About R & D Activities in SUMEET.....

Technological improvements in manufacturing

Up-keep of the plant and machinery including modernisation efforts and safety measures :

Basically being an assembly oriented industry, modernisation in the assembly plant has been effected through use of pneumatic and electric toolings, material handling through conveyors and mechanised systems.

Especially in the Motor Works, modernisation in the motor line was taken up and machineries were installed for partially automated Rotor Line and Stator Line. Automated Press for Rotor and Stator Stacks, Armature line machineries (Slot Insulation, Dual Armature winding station with commutator hot stacking, Trickling plants for Rotor and Stator) and Stator coil winding on the stator machines were all imported. The interaction with the world-wide manufacturers helped the R&D Team to achieve implementing the upgradation in technology in the manufacturing of Sumeet Mixers. This helped not only in the manufacturing of quality, less defects mixers, but also in achieving large production volume.



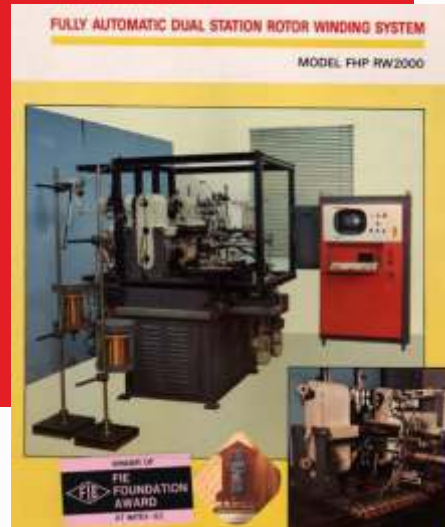
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About R & D Activities in SUMEET.....

Technological improvements in manufacturing



Armature Slot Insulation machine



Automatic Stator Winding Machine



Stator Trickler



Armature Trickler



STATOR STACKING AT SRHL



SRHL - Brackets Rivetting Machines

Machineries for the motor automation line were developed and manufactured by our own R & D.

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About R & D Activities in SUMEET.....

Interaction with the reputed world-wide manufacturers of machineries, moulds, etc helped to a great extent the technology upgradation.



Interaction with Kemberly, UK on Tricklers



At Henningweke, Germany



At Jung-II Moulds, Korea



At AUMANN, Germany for Armature winding

OUR STRENGTH - INNOVATION AND R & D

About R & D Activities in SUMEET.....

Technological upgradation of products

Interaction with the reputed world-wide manufacturers of electrical parts, plastic moulds helped to a great extent the technology up-gradation to provide better value for money in Sumeet.



Interaction with DREEFS, Germany for developing the electronic circuit for SP 16 and for a Rotary Switch as per CSA and VDE with 'breaking' control incorporated.



Interaction with Gaudlitzweke, Germany helped in getting world class moulds for plastic parts and use of good engineering thermo plastic materials.

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About R & D Activities in SUMEET.....



Visiting International Fairs helped in technically up grading our knowledge about the developments happening around the world in the related industries and to implement them in our products and in our manufacturing processes.

OUR STRENGTH - INNOVATION AND R & D

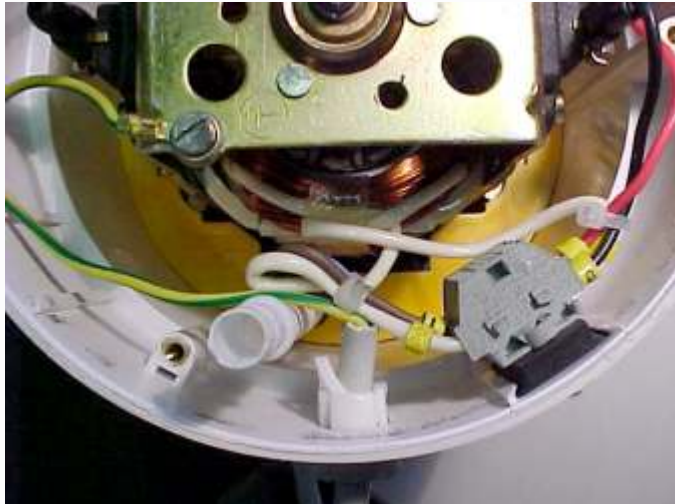
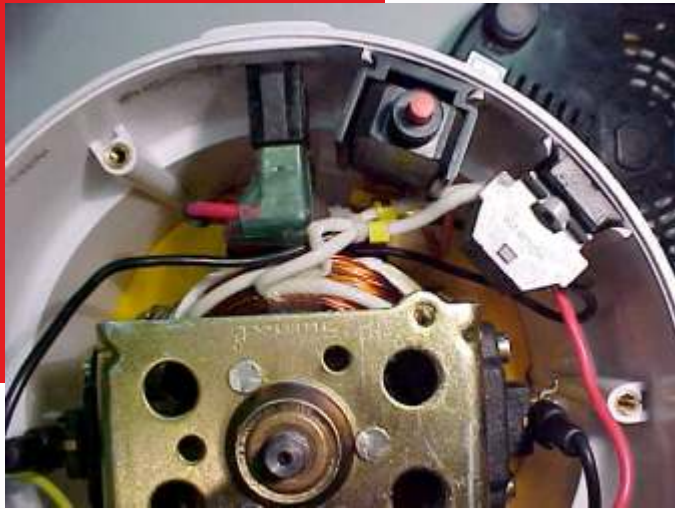
About R & D Activities in SUMEET.....



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About R & D Activities in SUMEET.....



Continuous improvements in internal wiring, selection of electrical components, better plastic components, etc. are all worked out on day to day basis by R & D team.

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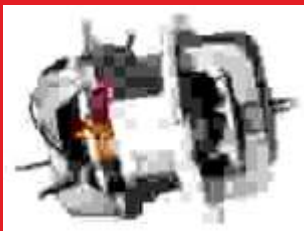
About R & D Activities in SUMEET.....



Continuous Improvements

END BRACKETS FOR MOTORS

Conventionally, the end brackets for a totally enclosed Universal Moto have been all along fabricated in Die Cast Aluminium only. In the normal construction, there will be two end brackets which are termed as Top and Bottom Brackets and there will be one additional Middle Bracket which will cover the Stator Lamination in a totally enclosed motor. Of late, the large scale manufacturers of motors whose volume of production is very high started feeling that the main bottle necks in their production were in getting ready to use aluminium brackets in time because of the too many processes involved. Since the end brackets are the housings of motor bearings, even the pressure die casted brackets have to go for precision machining before bringing to assembly line. More over, the production cost of the end brackets started going up because of the steady rise in aluminium ingots prices, the increase in the labour charges for machining and the increased freight costs because of the voluminous aluminium end brackets. Thus the selling price of the end product – universal motor – was becoming not competitive. So at Sumeet, this task was given to develop the end brackets in sheet metal so that the process time will get reduced, there will be no machining and other post process finishing required and also there will be huge cost savings which will drastically reduce cost of the final product.



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About R & D Activities in SUMEET.....

Continuous Improvements



So totally a new concept had to be developed Prototypes were fabricated, the motors with the new concept end brackets were put on extensive trials on simulated conditions, the design drawings were made on the computer and the necessary press tools were ordered for fabrication as per our design under our direct supervision.

The end brackets from out of sheet metal gave us a saving of fifty percent in our material cost as against aluminium and ready to use brackets are now available eliminating the waiting time of machining, etc. So no bottleneck in volume production will be encountered in future.

Even in earlier SP 16 days, one end of the motor bracket was designed in engineering plastics with that end mounted on ball bearings. That concept was unique for the motor industry and it worked very well and it was cost effective as well.

OUR STRENGTH - INNOVATION AND R & D



Periodical interaction with the personnel of International Standards bodies helped in maintaining strict quality standards for all our products.



Interaction with Thomas Bilz, VDE Germany



Interaction with BIS personnel



Interaction with BEAB Standards people helped us in achieving stringent standards level for our products.

OUR STRENGTH - INNOVATION AND R & D



Mr. Ajay Mathur introduced a new range of Sumeet Home Appliances in 1994 in the "DISCUS" seal of quality.



OUR STRENGTH - INNOVATION AND R & D

SUMEET R & D TEAM



Sumeet R & D is a Team Work headed by Mr. Ajay Mathur & his late father Founder Chairman Mr. S. P. Mathur.

Every single contribution, however simple it may be, is getting acknowledged and appreciated.

Many people have come in, contributed and have gone.

But the R & D activities in Sumeet shall continue for ever.



OUR STRENGTH - INNOVATION AND R & D



CAD/CAM workstations with state of the art software, a well equipped plant for prototyping and testing, the infrastructure and facilities provided for the engineers gave the engineers the confidence to create.



Designers at the CAD/CAM facility



OUR STRENGTH - INNOVATION AND R & D



... significant contribution from every one in the last 60 years of Sumeet
And R & D at Sumeet goes on and on and on.....

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