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THE KUMAR BULLETIN

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| 02
INNOVATION SPOTLIGHT
Kumar's Xpress

| 04
Build to THRIVE
Projects, Tradeshows, Events

| 11
LIMELIGHT
Meet Alex Varghese,
Senior Manager – Production

Kumar's Xpress

Engineered for Rubber Seed Kernel Oil Extraction. Built by Kumar.

Introducing a high-performance expeller solution specially designed for Rubber Seed Kernel Oil extraction.



Proven Performance

The machine supplied has successfully achieved 100+ TPD throughput on single unit pre-press, demonstrating Kumar's commitment to delivering reliable performance and meeting demanding production and quality requirements.

Key advantages

- **SPECIALLY DESIGNED SCREW PROFILE**
  Engineered specifically for Rubber Seed Kernel, ensuring efficient material handling and optimized oil extraction.

- **HIGHER YIELD, LOWER POWER CONSUMPTION**
  Designed to maximize oil recovery while maintaining efficient power consumption—helping improve overall operating economics.

- **HIGHER WEAR LIFE**
  Robust construction and optimized component design ensure longer wear life, reduced maintenance requirements and improved machine availability.

- **VALUE FOR MONEY**
  A reliable, high-performance solution designed to deliver better productivity, efficiency and long-term value for your oilseed processing plant.

See the engineering behind our solvent extraction plant. Learn how counter-current flow and vapour recovery push oil recovery past 95%.

READ ON OUR BLOG

Curious what goes into an extruded soybean expansion like the one we just handed over in West Africa? Get the complete picture, from oilseed prep through extraction and refining.

READ ON OUR BLOG

Kumar's Xpress

Built for Performance. Designed for Efficiency. Proven in Production.

100+ TPD on Pre-Press | Rubber Seed Kernel Oil Extraction

PROJECT UPDATES



750 TPD Continuous Solvent Extraction Plant for Sunflower Cake
Project location: **EASTERN EUROPE**
Status: **INSTALLATION IN PROGRESS**







Oil Mill Equipment Expansion of 250 TPD Extruded Soybean at an existing plant and includes Kumar Hammer Mills and Anderson Extruders. *A repeat order from an existing customer — another vote of confidence in Kumar's equipment and long-term partnership.*

Project location: **WEST AFRICA** | Status: **SUCCESSFULLY HANDED OVER**





COME OVER, SAY HELLO!

INTERNATIONAL SOY CONCLAVE (SOPA)

- Booth # 41
- 16 - 17 October
- Indore, India

GULFOOD MANUFACTURING, UAE

- Booth #S1-B35
- 3 - 5 November
- WTC, Dubai

POULTRY INDIA

- Booth # NN25
- 25-27 November
- Hyderabad, India









Watch our corporate video

Finding a better way to do the job.

– in conversation with Alex Varghese, *Senior Manager – Production*

Twenty-two years at Kumar

I joined Kumar Metal Industries in June 2004, and it has been a rewarding journey of continuous learning and responsibility. Over the years I have worked closely with different parts of production, particularly the Machine Shop and the Assembly Shop. The organisation has given me room to take on new challenges, implement improvements and contribute towards our production goals.

Always scope for improvement

What I enjoy most is the chance to keep improving our manufacturing processes. Whether it is reducing machine time, introducing automation or simplifying a difficult operation, there is always scope for improvement. I also value working with a committed team where everyone supports one another to reach the final production target.

A typical day involves reviewing production plans and priorities, monitoring progress in the Machine Shop and Assembly Shop, identifying bottlenecks and making sure targets are met without compromising quality. A significant part of it goes into working with the team on technical and operational problems as they come up.

Doubling productivity in six months

The achievement I am most proud of is what the team has done on productivity. Over the last six months we have nearly doubled it, through better coordination, process improvements and focused problem solving. Automating the hard-facing welding operation and changing our assembly


Take ownership of a challenge instead of working around it. Every problem is an opportunity to learn
Alex Varghese

technique were the two initiatives that mattered most. We are now working on introducing an automated worm grinding machine, which will take a highly labour-intensive operation off the shop floor.

The changes behind it

The rest came from practical changes made on the floor. We introduced a jacking mechanism to make coupling fitment and removal easier. We improved the keeper bar machining process by removing the requirement for a groove before welding. We modified the water-cooling hole design on the NMK IVC, NMK VII and NSP IIB to prevent hole breakage during keyway fitment. For long-pitch worms, we modified the grinding machine to reduce the RPM, which allows effective grinding on the flights. And the stainless steel seal ring is now made from pipe instead of rolled flat strip, which cut the labour requirement for that section by around 30 per cent.

None of these is a large change on its own. What they have in common is that each one improves accuracy, reliability or ease of operation, and each one takes manual effort out of the job. That is how quality gets built into the manufacturing process itself.

How the team works

Clear communication, teamwork and involvement are what keep a team motivated. I encourage team members to identify problems, suggest improvements and take ownership of solutions. When everyone understands what their contribution means for the overall production target, it creates a strong sense of responsibility.

The same approach applies to customer problems. The satisfying part is understanding the requirement, finding the root cause and developing a solution that works, then seeing it translate into a better product or process.

Our objective is that the customer receives something reliable that meets their expectations.

Advice for the next generation

Stay open to learning and keep looking for ways to improve the process. In production, practical experience, attention to detail, teamwork and problem-solving all matter. I would also encourage young professionals to take ownership of a challenge instead of working around it. Every problem is an opportunity to learn. Consistency, discipline, a willingness to accept new ideas and a strong focus on quality and productivity are what sustain growth over a long career.

After more than two decades at Kumar, I believe continuous improvement is one of the most important drivers of growth. I am proud to have worked with a team that consistently takes up challenges and looks for practical solutions. Going forward, our focus remains on automation, productivity, reducing manual effort and developing better manufacturing processes.

-- Alex Varghese
Senior Manager – Production

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