



# JÄGER rubber and plastics


*Company presentation*

28.04.2024



# Our mission and vision

JÄGER Group

An aerial photograph of a vast agricultural landscape, showing a patchwork of green, yellow, and brown fields. A winding road or path cuts through the fields. In the center, a large white hexagonal shape is overlaid, containing the company's mission and vision statement.

We develop innovative polymer-based solutions to feed a growing world population, supply it with energy and sustain it.



*2<sup>nd</sup> May 2023: The 3<sup>rd</sup> and 4<sup>th</sup> generation start working together in the company*

# JÄGER Group at a glance



Revenue 2022  
256 Mio. EUR



Employees (FTE)  
1.300



Sites  
23



Patents  
>100



Family-run  
>80 years

# A wide range of industries - internationally oriented through the various individual companies of the JÄGER Group

104 Mio. €



**Agriculture**  
(Tillage & Harvesting)

**ARTEMIS**  
Kautschuk und Kunststoff

**BROEKEMA**  
Conveyor Belts

**JÄGER**  
Gummi und Kunststoff

**WINDGASSEN**  
Sieb- und Förderketten

36 Mio. €



**Energy**  
(Renewables & fossil fuels)

**ARTEMIS**  
Kautschuk und Kunststoff

**JÄGER**  
Gummi und Kunststoff

**JÄGER**  
Maritime Solutions

100 Mio. €



**Mechanical &  
plant engineering**

**ARTEMIS**  
Kautschuk und Kunststoff

**JÄGER**  
Gummi und Kunststoff

**JÄGER**  
Polska

**JÄGER**  
UniTek Sealing Solutions

16 Mio. €



**Environmental technology**

**JÄGER**  
Gummi und Kunststoff

**JÄGER**  
Maritime Solutions

**JÄGER**  
耶格爾橡膠製品(深圳)有限公司

**JÄGER**  
Umwelt-Technik

# „Since 1942 – Everything in rubber & plastic from one single source“

JÄGER rubber and plastics GmbH (JGK)



**74 Mio.**

2022



**170**

~20 Product & process developers



**3**

Production sites in Hanover & Gryfino



**Logistic center**

~8.500 Pallet parking spaces



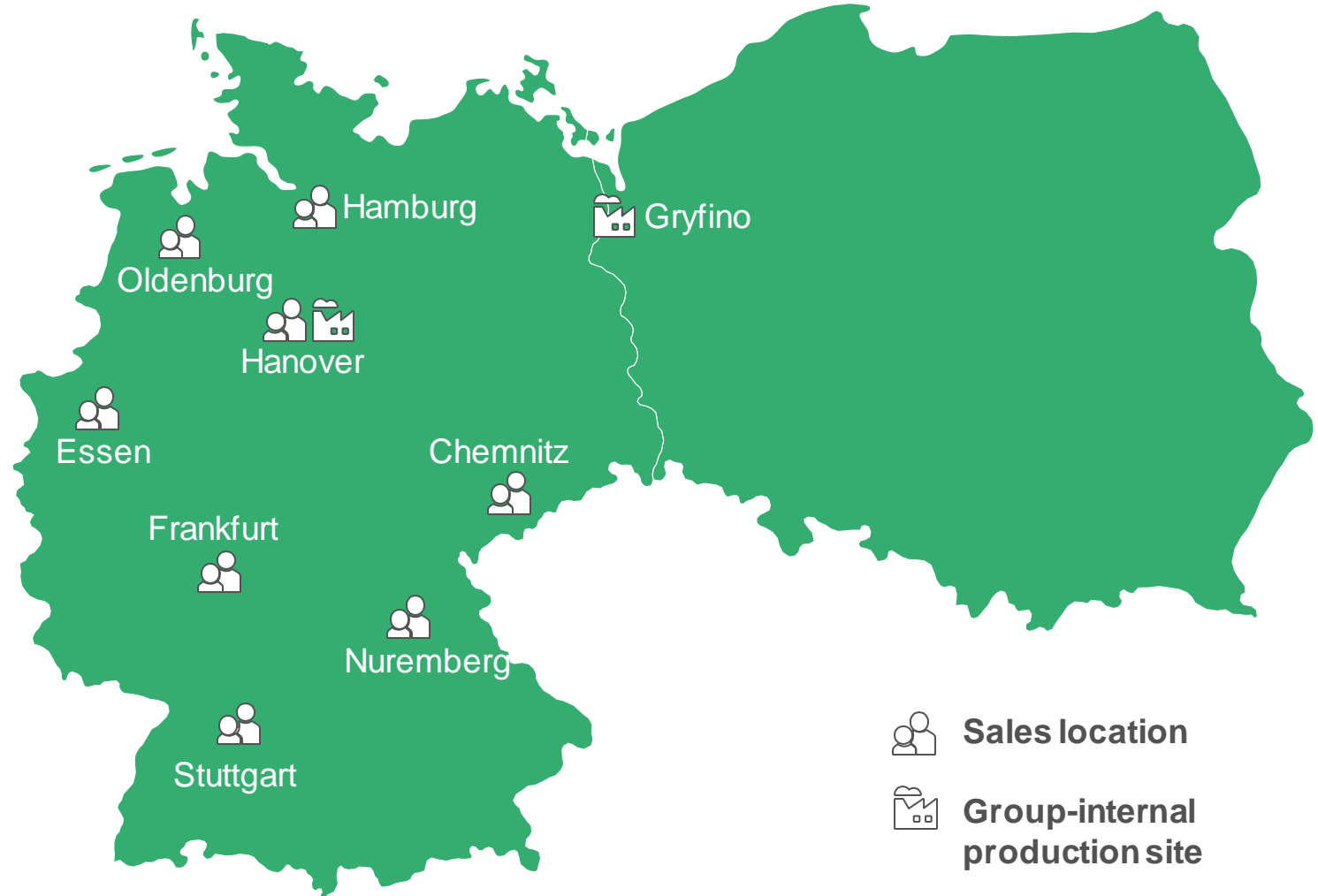
**Suppliers**

> 300 in Europe



**ISO-certified**

9001  
14001



**Sales location**



**Group-internal production site**

# Our services in rubber and plastics range from technical trade to development partner

Overview | JGK Service Portfolio



## Supply of technical standard parts

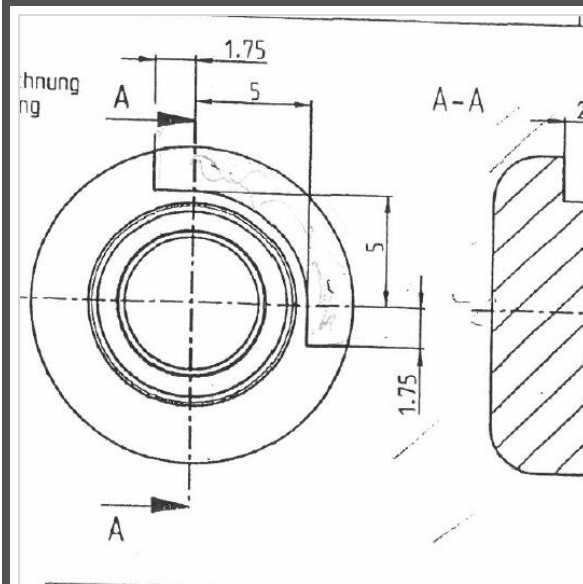
*Extensive standard range for quick solutions*

Sealing

Insulating

Damping

Conveying



## Customized drawing & standard parts

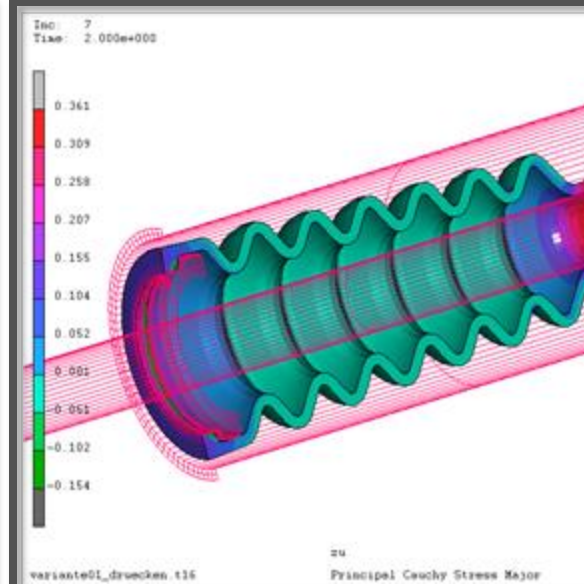
*Broad production expertise in rubber and plastics for drawing parts*

Molded parts

Profiles

Multi-component parts

Punched parts



## Development partner from idea to product

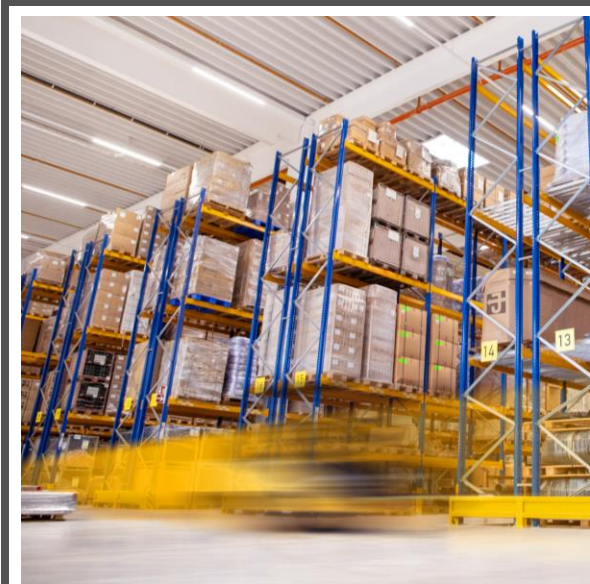
*Development partner for the realization of early product ideas and concepts*

Material development

Prod. & Process Development

Carbon footprint accounting

Lean Production



## Procurement specialist

*Management of complex supply chains and complementary services*

ESG Transparency

Suppliers Cons.

Carbon Footprint Reduction

Security of supply

# Broad portfolio of standard and standardized parts in rubber, plastics and material combinations with fast availability

Supply of technical standard parts

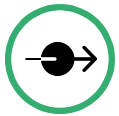
Technical Standard parts



Broad portfolio of normed & standardized parts



Rubber metal, hoses, profiles, caps, balls, O-rings and belts in different material and dimensional variations



Short delivery times and availability



Storage capacity for products in demand without a customer order

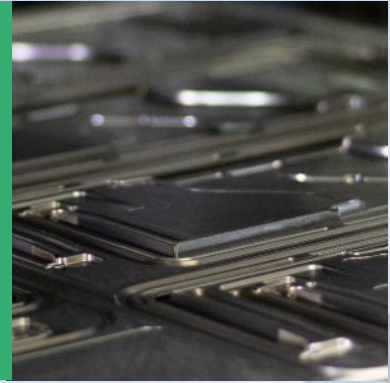




# Production facilities for rubber & plastics in Hanover and Gryfino (PL) at our sister companies

Customized drawing parts | Production competency for rubber & plastics

*Customized drawing parts*



**Compression and transfer molding**



**Injection molding**



**Extrusion**



**Assemblies**



# NEW LIQUID SILICONE PRODUCTION IN HANOVER

CONTINUOUS INVESTMENTS IN FUTURE  
PRODUCTION TECHNOLOGIES



~3 Mio. EUR Invest in-house production possibilities in the field of liquid silicone



Construction of a plastic & LSR injection molding composite with fully automated robot assembly



5 Engel injection molding machines  
100t - 300t



100% inspection with the aid of optical camera systems in final robot assembly



Unique part tracking via 2D Data Matrix code

# Idea generator, development partner, engineering service provider and reliable, low-cost series supplier

Development partner | We provide support at every stage of development

Development partner



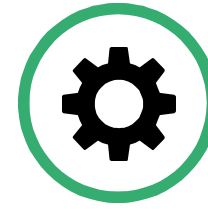
## *Concept phase*

- › Industry-specific solutions (applications and materials) instead of products
- › Target prices for material and process variants
- › Material and process-neutral consultancy
- › Technology independence through make-or-buy approach with internal and external supplier structure



## *Development phase*

- › Black / Greybox design suggestions
- › Carbon footprint estimation
- › Service life tests / resistance tests
- › Simulations (FEM and Moldflow)
- › Master data reconciliation for 100 % "Perfect Order Rate"



## *Series phase*

- › Regional contacts in order processing
- › Increasing efficiency
- › Cost-cutting potential



## *Run-out phase*

- › Carry-over concepts
- › Spare parts stock



# Customer and application specific material design

Development partner | Material experts

*Development partner*



Media resistance



Temperature resistance



Vibration isolation



UV-resistance



Antistatic material design

# INHOUSE COMPOUNDING FOR R&D ACTIVITIES

Development partner



35l compounding machine for material development and small batch production



~300 t compounded rubber/ year



Automatic rubber stripe cutting and layering



Inhouse material testing and quality department for validation

# LOGISTICS CENTER IN HANOVER

Procurement specialist



9000 m<sup>2</sup> hall area up to 9 m storage height



~8.500 pallet spaces, block storage and long goods storage



Through put 2023: ~17.650 t



Customized packaging, labeling, assembly and installation activities



Paperless order compilation, GR control, shipment consolidation, (customer) empties/packaging management

## AGRI INDUSTRY

*JGK rubber and plastics products for the  
agri industry*



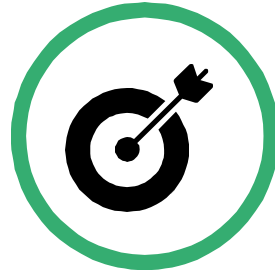
# Long experience in agri industry, with validated materials, proven products, support and acceleration in validation processes in rubber and plastic

JGK value proposition agri industry



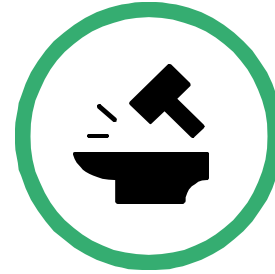
## AGRI INDUSTRY EXPERTS

*+50 years experience in Agri especially working with OEMs*



## SOLUTION ORIENTATION

*Solution-oriented and efficient cooperation at eye level through close engineering support in every development stage & global footprint*



## VALIDATED MATERIALS

*Own material development and validation in field applications enable long product service life*



## VALIDATION ACCELERATION

*Product validation using internal test benches reduces the duration of field testing*



**“Our experience with Jäger rubber and plastic in the areas of rubber cords and injection molding has far exceeded our expectations...”**

*Stefan Hoffmann – Strategic Purchasing HORSCH Maschinen GmbH*



### **Exceeding Expectations**

*Jäger rubber and plastic's expertise in rubber cords and injection molding surpasses expectations, enhancing our product range significantly.*

### **Unmatched Quality**

*Their products boast unparalleled quality and reliability, consistently meeting high standards.*

### **Tailored Solutions**

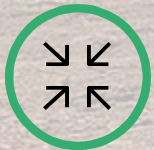
*Jäger rubber and plastic's dedication to excellence and flexibility in accommodating specific needs make them an indispensable partner.*

### **Exceptional Service**

*Their customer service sets a benchmark for professionalism and helpfulness, always going*

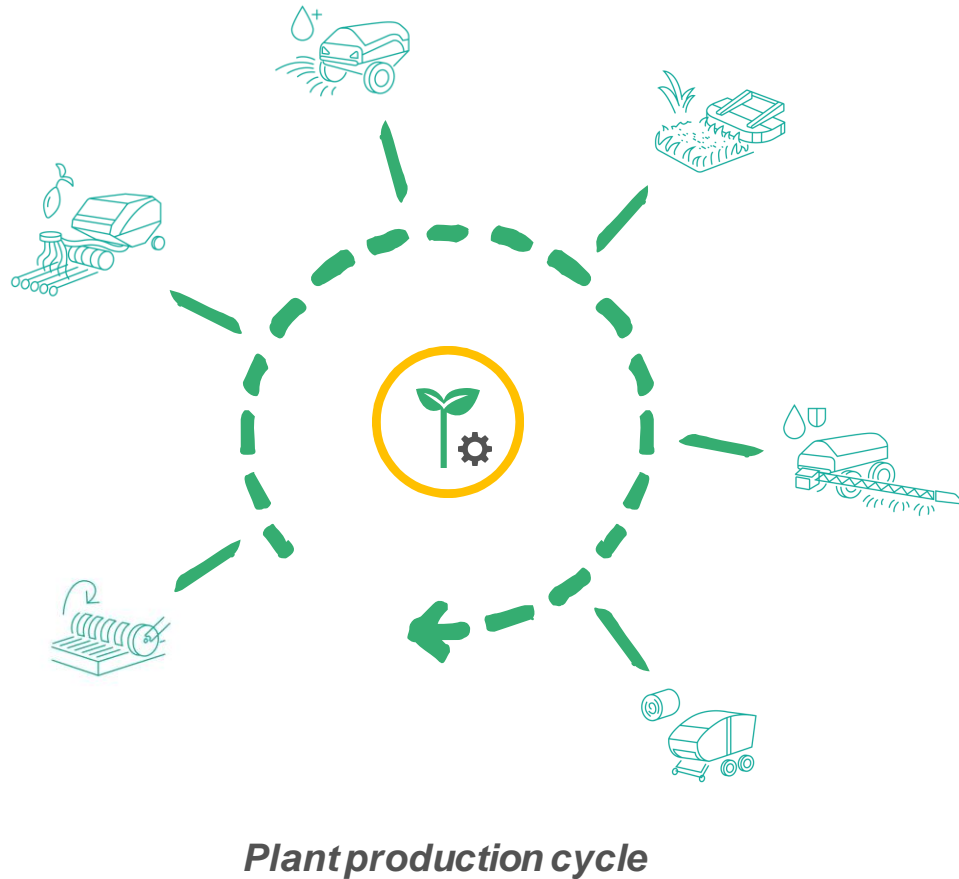
### **Strong Recommendation**

*We highly value our collaboration with Jäger rubber and plastic and confidently recommend them to any company seeking quality and reliability in rubber cords and injection molding.*



# As a full-liner in rubber & plastic components with deep material and process expertise we are active in all agricultural technologies

Addressed technologies

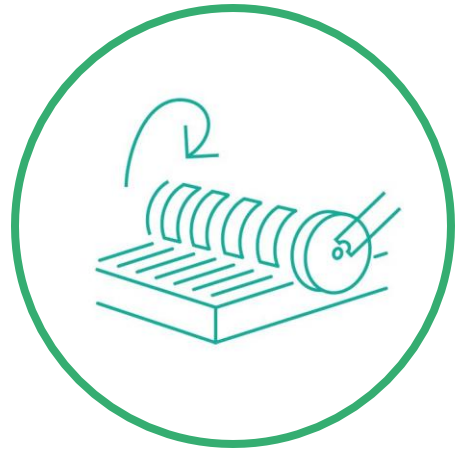


-  **SOIL PREPARATION TECHNOLOGY**
-  **SEEDING & PLANTING TECHNOLOGY**
-  **FERTILIZING TECHNOLOGY**
-  **GRASSLAND TECHNOLOGY**
-  **CROPPROTECTION TECHNOLOGY**
-  **HARVESTING TECHNOLOGY**

# JGK offers products and services within the soil preparation technology

Soil preparation technology

Agricultural Technology



SOIL PREPARATION  
TECHNOLOGY



Agri equipment for applied Jäger products



SHORT DISC HARROW

# We provided a customer-specific torsional behavior adjustable via material and geometry and long service life due to validated materials

Application in: Short disc harrows

Product: Rubber Shock Absorber



## Value Add Jäger



### Customer Problem

The customer had recalls from the market due to product defects caused by a low-performing elastomer material due to high compression set and rebound



### JÄGER Solution

Selection of rubber compound with high rebound and low compression set validated internally as well as by OEMs field tests enabled to generate the desired resetting of the couler lever, when deflected by stones



### Benefit

We provided a customer-specific torsional behavior adjustable via material and geometry, long service life due to validated materials and pre-validation on in-house test bench



### Customer Testimonial

*"With our recall, we had our backs to the wall. The Jäger team showed how much material characteristics influence the final product. The quality and reliability of their products were unrivalled and have directly contributed to the improvement of our own product range."*

### Material

NR/BR, SBR

Hardness: 60...80 Shore A

### Variants

Ø: 28/ 30/ 40/ 42/ 44/ 50 mm

Miscellaneous L: 90... 400 mm

### Process

Central & Transfer Molding

Injection Molding

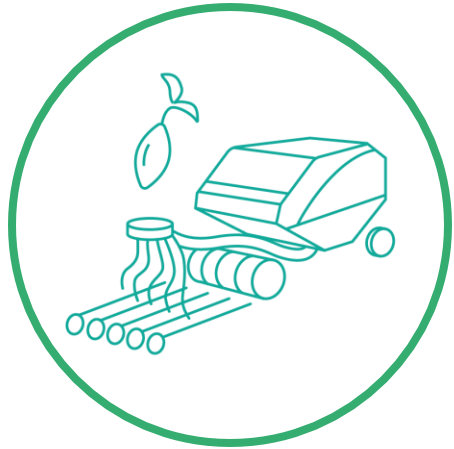
# JGK offers a wide range of products and services within the seeding and planting technology

Seeding & Planting Technology

Agricultural Technology



Agri equipment for applied Jäger products



**SEEDING & PLANTING  
TECHNOLOGY**



**MECHANICAL  
SEED DRILLS**



**PNEUMATICAL  
SEED DRILLS**

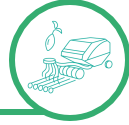


**PRECISION  
SEEDERS**

# We increased service life due to validated materials and supply out of one single source: Parts production, assembly and validation as per test specification

Application in: Mechanical seed drills

Product: Meter unit



## Value Add Jäger



### Customer Problem

The customer had issues with placement inaccuracy caused by dust deposits within the fluid channel.



### JÄGER Solution

Change in materials to POM<sup>1</sup> being highly abrasion resistant and providing a low friction coefficient as well as low water absorption.



### Benefit

We increased service life due to validated materials and were able to supply out of one single source: Parts production, assembly and validation as per test specification.



### Customer Testimonial

*“Thanks to Jäger rubber and plastics, our machinery now withstands high flow velocities and dust deposits, ensuring durability and precise placement. Their innovative solutions have transformed our operations, making them an invaluable partner in overcoming challenges.”*

### Material

High strength, hardness & rigidity

High abrasion resistance

Low water absorption

### Variants

diverse seeding wheels

### Process

Plastic injection Molding

# Increased service life due to higher material flexibility and less wear as well as less dust adhesion due to “self-cleaning effect”

Application in: Pneumatic seed drills

Product: Metering rotor



## Value Add Jäger



### Customer Problem

The customer had issues with individual ribs of the rotor repeatedly breaking when seed pills became jammed between the rib and the housing unit, resulting in poorer singulation and high maintenance cost.



### JÄGER Solution

Change in materials to a flexible elastomer (NR/SBR) with sufficient rebound force and choice of a high automated IM-process in order to keep the production cost low.



### Benefit

Increased service life due to higher material flexibility and less wear as well as less dust adhesion due to “self-cleaning effect”.



### Customer Testimonial

*“Jäger rubber and plastic’s solution was a game-changer! Their innovative material approach prevented seed pill jams, eliminating rib breakage and improving singulation. Thanks to their expertise, we’ve cut maintenance costs and boosted efficiency significantly.”*

### Material

NR/SBR

### Variants

Rotor: small, tempered, grass

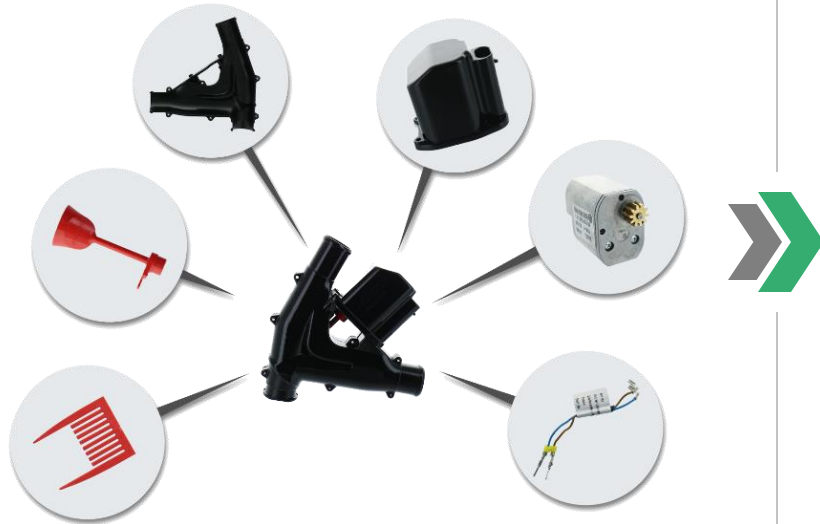
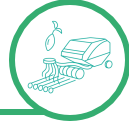
### Process

Injection Molding

# We provided material appropriate design support of our customer and supply of complete assembled product from one single source

Application in: Pneumatic seed drills

Product: *Distribution outlet*



## Value Add Jäger



### Customer Problem

The customer had issues with high wear on the plastic parts by high flow velocities of seeds and the placement inaccuracy by dust deposits within the fluid channel.



### JÄGER Solution

Change in materials to abrasion-resistant and antistatic material and implementation of rubber sealing to protect the engine from dust.



### Benefit

Material appropriate design support of our customer and supply of complete assembled product from a single source: Parts production, assembly and validation as per test specification.



### Customer Testimonial

“Jäger delivered beyond expectations! Their solution tackled wear from high seed flow velocities and eliminated placement inaccuracies caused by dust deposits. Thanks to their expertise, our equipment now runs smoothly, saving us time and maintenance costs.”

### Material

Housing: PP

Motor: PA66

Sealing: CR

### Variants

-

### Process

Plastic injection molding

Rubber central molding



# Topology optimization using FEA simulation in plastic and full customer service through supply from one single source

Application in: Pneumatic seed drills

Product: Pressure Roller



## Value Add Jäger



### Customer Problem

With the existing product, larger machine dimensions and higher radial and axial forces led to rim breakage during operation. At the same time, the costs for the product were too high.



### JÄGER Solution

Choice of a flexible plastic material for the rim suitable for the application and improved tire design supports self-cleaning effect and prevents earth adhesion.



### Benefit

Topology optimization using FEA simulation in plastic and full customer service through supply from a single source: rubber & plastic parts production, assembly and testing.



### Customer Testimonial

*“Jäger provided a practical solution that exceeded our expectations. Their design effectively addressed rim breakage issues caused by increased machine dimensions and forces, all while streamlining production costs. Jäger made a difference in improving our operations.”*

## Material

Tire: NR/SBR

Rim: Polypropylen (PP)

## Variants

Rim: open | closed

Diverse dimensions

## Process

Plastic injection molding

Rubber central molding

# Through various iterations and testing in our inhouse compounder, the right rubber recipe was developed

Application in: Pneumatic seed drills

Product: *Catch Roller*



## Value Add Jäger



### Customer Problem

The customer had issues with their previous solution, jamming the roller due to blockages caused by soil sticking to the side of the tire.



### JÄGER Solution

Evaluation and selection of a less adhesive NR rubber material while optimizing the whole product towards a more flexible geometry.



### Benefit

Through various iterations and testing in our inhouse compounder, the right rubber recipe was developed, with materials selected from those validated in the application by OEMs.



### Customer Testimonial

*“Jäger rubber & plastics provided a practical solution that truly addressed our roller jamming issue caused by soil blockages. Their expertise helped mitigate the problem without unnecessary hype, ensuring smoother operations without tire sticking.”*

### Material

Tire: NR

Rim: PP

### Variants

-

### Process

Transfer molding

Assembly

# Development of a lightweight solution with a long service life while customizing a rubber-fabric belt in various specifications (material, belt-connection,...)

Application in: Pneumatic seed drills

Product: Rubber band



## Value Add Jäger



### Customer Problem

Our customers existing packer rollers were too heavy and too expensive in relation to the contact area for reconsolidation of the soil and experienced extreme wear due to direct soil contact at high machine speed.



### JÄGER Solution

Through various tests, endless wrapped rubber-fabric belt with high puncture resistant fabric was developed made of highly abrasive resistant NR/SBR rubber material.



### Benefit

Development of a lightweight solution with a long service life while customizing a rubber-fabric belt in various specifications (material, belt-connection,...).



### Customer Testimonial

*"Thanks to Jäger, we've tackled our packer roller woes head-on. Their solution addressed weight and cost concerns while mitigating extreme wear, ensuring effective soil reconsolidation even at high machine speeds."*

### Material

NR/SBR

Rim: PP

### Variants

-

### Process

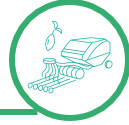
Winding process on mandrel

Autoclave heating

# Sealing, plastic injection molded parts and assembly from one source as well as management of high component and manufacturing complexity of 48 parts in total

Application in: Precision seed drills

Product: Metering unit with metering discs



Value Add Jäger



## Customer Problem

High demands on depositing accuracy with increasing travelling speeds motivated our customer to develop a rotating sowing disc with pressure or vacuum metering unit, which had to be sealed against ambient pressure.



## JÄGER Solution

Selection of an antistatic, high abrasion resistant but flexible material and development of a complex testing environment for product pre-validation.



## Benefit

Tolerance-compliant design support of 7 components. Sealing, plastic injection molded parts and assembly from one source as well as management of high component and manufacturing complexity of 48 parts in total.



## Customer Testimonial

*“Thanks to Jäger great support, we’ve overcome accuracy issues in our product line caused by dust. Their expertise ensured effective sealing against ambient pressure, enhancing durability and performance. Their innovative approach has truly revolutionized our products.”*

### Material

Disc: POM & PC

Housing: ABS – Seal: TPU

Ejection wheel: TPU

### Variants

36 metering discs

5 ejection wheels

8 components per assembly

### Process

Plastic Injection Molding

Parts assembly

# JGK offers a wide range of products and services within the fertilizing technology

Fertilizing technology

Agricultural Technology



Agri equipment for applied Jäger products



SLURRY  
TANK



FERTILIZER  
SPREADER

# Topology optimization using FEA simulation in rubber reducing cycle times and thus costs despite large part volumes thanks to the rubber injection molding process

Application in: Slurry tank

Product: *Slurry Hopper*



## Value Add Jäger



### Customer Problem

The new slurry hopper to be developed should offer better performance in terms of radial and axial flexibility than the existing solutions on the market, while still guaranteeing the sealing of the ball head to generate a vacuum.



### JÄGER Solution

Radial and axial flexible slurry hopper with sufficient rigidity for vacuum transfer  
Material resistant to slurry



### Benefit

Topology optimization using FEA simulation in rubber reducing cycle times and thus costs despite large part volumes thanks to the rubber injection molding process



### Customer Testimonial

*"I recently upgraded to the new Slurry Hopper. Thank to Jäger development experience in FEA simulation it offers superior radial and axial flexibility compared to other options on the market."*

**Material**

SBR

**Variants**

Diameter: 6", 8", 10"

**Process**

Rubber injection molding

# With a significant increase of durability of metal components and effectively sealing against splash water customer complaints could be shut off

Application in: Fertilizer Spreader

Product: Hopper Extension Sealing



## Value Add Jäger



### Customer Problem

Recurring contact corrosion between the metal components of the hopper and the extension with the gap dimensions being irregular due to weld seams that had not been ground flat.



### JÄGER Solution

Preventing any corrosion a 2K composite sealing system with self-adhesive glue was developed together with a height compensation through flexible foam rubber now within tolerance of gap dimensions.



### Benefit

Significant increase of durability of metal components and effectively sealing against splash water customer complaints could be shut off.



### Customer Testimonial

*“Jäger solution resolved our persistent contact corrosion issue. Their attention to detail rectified irregular gap dimensions, ensuring seamless operation and durability.”*

### Material

EPDM

### Variants

Applicable to diverse dimensions

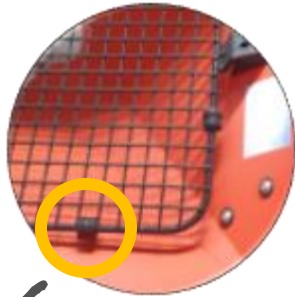
### Process

Waterjet Cutting + Gluing

# Our customer gained a notable cost-improvement and easy access to spare parts, since standard components were used

Application in: Fertilizer Spreader

Product: Spacer bracket



## Value Add Jäger



### Customer Problem

Our customer had a severe cost problem with his existing solution, due unnecessary high material specifications and thus using a special, chemical-resistant cable tie to attach the spacers.



### JÄGER Solution

Simplification customizing a standard: Combining a customized plastic clip and a standard O-ring as a small assembly, thus easy to repair due to the use of standard components.



### Benefit

Our customer gained a notable cost-improvement and easy access to spare parts, since standard components were used.



### Customer Testimonial

*"Thanks to JGK, we've overcome our cost challenges with a practical solution. By reevaluating material specifications and opting for standard cable ties, they've helped us reduce unnecessary expenses while maintaining reliability."*

Material	Variants	Process
Plastic: PA6 O-Ring: z.B. EPDM, NR	-	Plastic injection molding Assembly



# JGK offers various products and services within the grassland technology

Grassland technology

Agricultural Technology



Agri equipment for applied Jäger products



GRASSLAND  
TECHNOLOGY



DISC  
MOWER



PICK-UP  
SWATHER

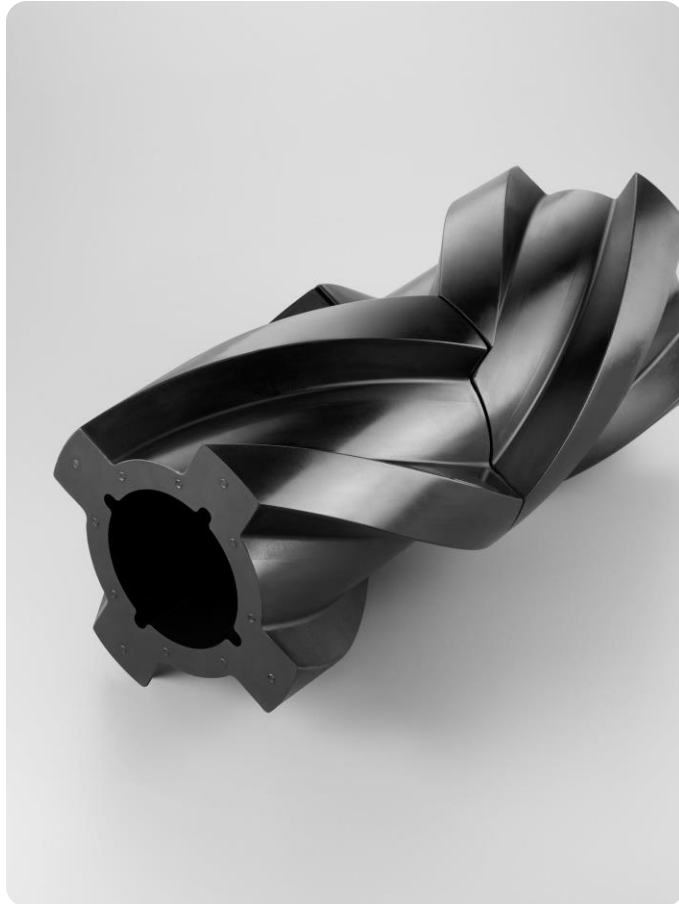


HEADER

# Our customer increased ease of maintenance and was able to significantly reduce operating costs

Application in: Disc Mower

Product: *Compaction Roller*



## Value Add Jäger



### Customer Problem

At existing solutions, the entire rubber-metal conditioning roller on disc mowers had to be replaced, after damage on the rubber caused by sharp objects (e.g. stones, spring tines) occurred during operation.



### JÄGER Solution

Change to assembly solution by development of segmented rubber rollers with a positive-locking feather key connection to the welded shaft to prevent the roller elements from skipping.



### Benefit

Our customer increased ease of maintenance and was able to significantly reduce operating costs.



### Customer Testimonial

*“After struggling with frequent damage to the rubber on our disc mower’s conditioning roller we were happy of the solution offered by Jäger. Their design allows for easy replacement of only the damaged rubber portion, minimizing downtime and expenses.”*

### Material

Rubber: NR/BR/SBR

### Variants

-

### Process

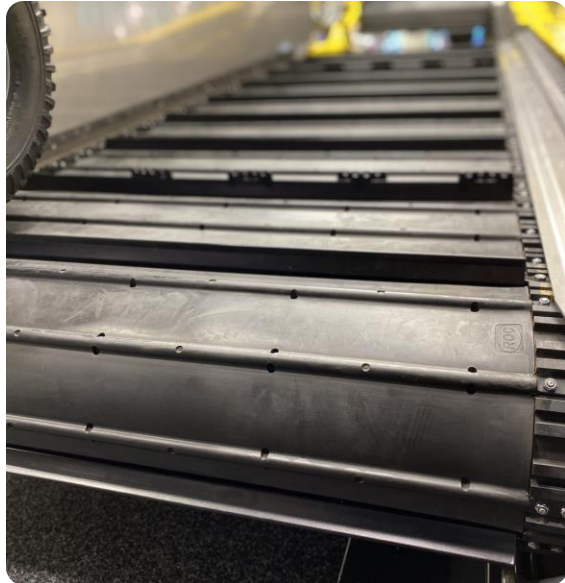
Rubber injection molding

Assembly

# Implementation of modular product with increased longevity allows higher area output by increased conveying efficiency

Application in: Swather

Product: Rake belt



## Value Add Jäger



### Customer Problem

Existing rake belt solutions had problems with longevity due to side running of the belts. In addition, the conveying efficiency did not meet customer requirements due to limited belt speed.



### JÄGER Solution

A modular product solution consisting of lateral drive belts with conveyor plates mounted on sieve bars is applicable to different frame dimensions and offers straight running.



### Benefit

The customer reduced his operating costs by increasing the longevity of the product and increased the area output by increasing the conveying efficiency.



### Customer Testimonial

*“Since implementing the Jäger belt rake, issues with the longevity and efficiency are now a thing of the past. Their innovative design not only addresses the issue of side running but also significantly improves conveying efficiency by allowing for higher belt speeds.”*

### Material

Rubber-fabric belt: EP1200

Rubber plates: SBR

### Variants

Various dimensions possible

### Process

Endless wrapping, notching

Assembly

# Customized solutions and in-field validated rubber-fabric belts in various specifications (material, belt-connection,...) allow longevity and durability

Application in: Pick-up swather

Product: Pick-up belt



Value Add Jäger



## Customer Problem

Existing solutions had problems with longevity as a result of damage caused by high dynamic tensile forces, lateral abrasion and weathering. Furthermore, repairs in the field were time-consuming.



## JÄGER Solution

Choice of a highly abrasion-resistant rubber fabric material with very good ozone resistance. Development of an open belt splice with MATO hooks for quick belt changes.



## Benefit

Customized solutions and in-field validated rubber-fabric belts in various specifications (material, belt-connection,...) allow longevity and durability.



## Customer Testimonial

*“Good job Jäger-Crew! If you're tired of dealing with constant repairs and downtime, we highly recommend giving this solution a try. It's a decision you won't regret.”*

### Material

Rubber-fabric belt: EP315/1

Fingers: TPU

### Geometry

Various dimensions possible

### Process

Endless wrapping, notching

Assembly

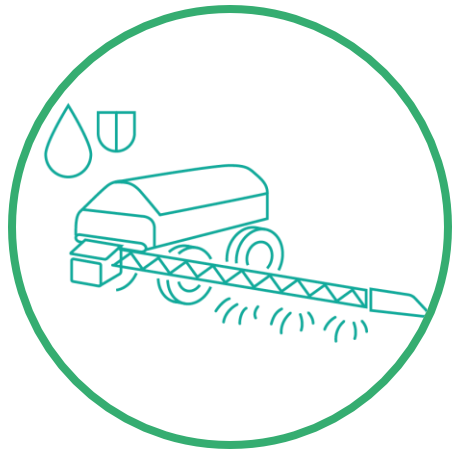
# JGK offers various products and services within the crop protection technology

Crop protection technology

Agricultural Technology



Agri equipment for applied Jäger products



**CROP PROTECTION  
TECHNOLOGY**



**SPRAYER**



**MECHANICAL  
HARROW**

# High-tech 2K injection molding process enables combination of key material advantages to create a durable product and thus reduces maintenance costs.

Application in: Sprayer

Product: *Pressure-valve-tap*



## Value Add Jäger



### Customer Problem

High seal wear as a result of sensitivity to sand and suspended particles in the water led to early component downtimes and high after-sales costs.



### JÄGER Solution

Bonding of a chemical-resistant FKM seal to a rigid body using a 2K injection moulding process. Combination of the relevant advantages of both materials results in a long product service life.



### Benefit

Our customer was enabled to implement several functions in one component through 2-component production technology. Reduction of time-consuming assembly work by moulding on the seal.



### Customer Testimonial

*“Since implementing their solution, our equipment has seen a remarkable reduction in seal wear, even in harsh environments with sand and suspended particles. This has significantly minimized component downtimes and slashed after-sales costs.”*

### Material

Plastic: PA66

Rubber Sealing: FKM

### Variants

-

### Process

2K-Injection molding

# Cost-efficient production of complex assemblies thanks to high internal process coverage and cost-efficient sourcing of primary materials

Application in: Harrow

Product: *Pressure-valve-tap*



## Value Add Jäger



### Customer Problem

The internal complexity of the procurement of semi-finished products and production led to high finished part costs.



### JÄGER Solution

Tapping in our broad network of suppliers we were able to cut prices and offer the customer the full package of reduced prices with competitive assembly costs.



### Benefit

Cost-efficient production of complex assemblies thanks to high internal process coverage and cost-efficient sourcing of primary materials.



### Customer Testimonial

*"Our internal complexity was massively reduced. The savings we've realized have had a direct and positive impact on our bottom line, giving us the competitive edge we need to thrive in today's market."*

### Material

Plastic: PA6 GF30

Metal spring

### Variants

Various lengths

### Process

Injection molding

Assembly

# JGK and its sister company BROEKEMA offer various products and services within the harvesting technology

Harvesting Technology

Agricultural Technology



Agri equipment for applied Jäger products



**HARVESTING  
TECHNOLOGY**



**COMBINE  
HARVESTER**



**BEET & POTATO  
HARVESTER**



**NUT  
HARVESTER**



**SUGER CANE  
HARVESTER**



**TOMATO  
HARVESTER**



**ONION  
HARVESTER**



**CORN  
HARVESTER**



**BALER**



# Innovation for sugar cane harvester: lowest cost of ownership per acre with new belted chain elevator

Application in: Sugar cane harvester

Product: Elevator with belted chain



## Value Add Jäger



### Customer Problem

Low grade of sugar cane due to high quantity of sand and dust as well as high wear on drive elements due to dust and metal-metal contact in steel chains.



### JÄGER Solution

Complete elevating unit consisting of elevator metal structure and belted chain for all OEM machines and for aftermarket. High screening effect and separation of crops and sand due to super large sieving area of sieving belts.



### Benefit

Possibility of increasing the conveying speed with reduced wear on the belt conveyor system. Reduced fuel consumption as a result of reduced friction in the conveyor system.



### Customer Testimonial

*"Thanks to the solution, our sugar cane quality soared by minimizing sand and dust interference, while also enhancing the durability of our drive elements against abrasive wear, ensuring smoother operations."*

### Material

Elevator: welded metal structure

Belted chain: rubber-fabric belt

### Variants

Applicable on various harvester

### Process

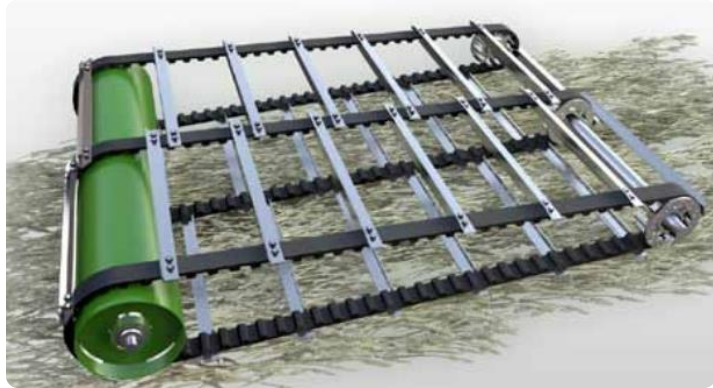
Welding

Assembly

# Innovative and patented conveyor system reduces wear and maintenance costs with significantly lower noise levels during operation

Application in: Combine harvester

Product: *Silentium Drive for feeder housing*



## Value Add Jäger



### Customer Problem

Existing solutions with steel chains were limited in terms of conveying speed, as wear and noise emissions rose sharply with increasing conveying speed.



### JÄGER Solution

Replacing the existing chain drive with a smooth-running, low-wear belt drive and implementing a belt lock for improved installation and maintenance in the field.



### Benefit

Low noise level due elimination of metal-to-metal contact. Greatly reduced wear and high elasticity when foreign bodies are drawn in.



### Customer Testimonial

*“With this innovative solution, we've achieved unparalleled conveying speeds without compromising on wear or noise levels. The transition from steel chains has optimized our operations, allowing for faster throughput with minimal maintenance and noise emissions”*

### Material

Rubber-fabric belt: EP1200

Connector: Rubber-metal

### Variants

Various dimensions possible

### Process

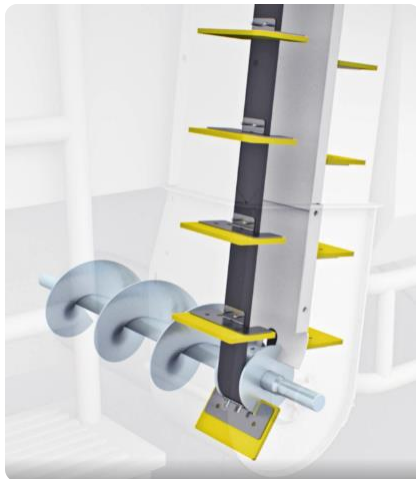
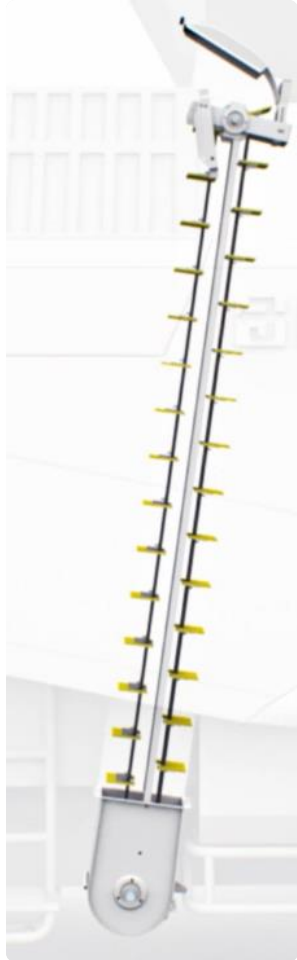
Endless wrapping, notching

Assembly

# The silent innovation for combines: replacement of chains in grain elevators results in more power and convenience

Application in: Combine harvester

Product: *Silentium Drive for grain elevator*



Value Add Jäger



## Customer Problem

Existing solutions with steel chains were limited in terms of conveying speed, as wear and noise emissions rose sharply with increasing conveying speed. Sparks as a result of steel-to-steel contact can cause hazardous fire.



## JÄGER Solution

Rubber belting with parabolic cams and high-tensile-strength & low-stretch fabric reinforcement conveying up to 35 kW power to auger in grain tank. Improving of 90° diversion of crop flow by innovative "pumping drive wheel".



## Benefit

By replacing steel chains with a rubber-fabric belt, we mitigate wear, noise, and fire hazards. Our modular product solution adapts seamlessly to diverse frame dimensions, ensuring versatile and safe conveying systems.



## Customer Testimonial

*"Thanks to the innovative belt conveying solution, we've increased our conveying speed while minimizing wear and noise, eliminating hazardous sparks from steel-to-steel contact. Our operations are safer and more efficient than ever!"*

## Material

Rubber-fabric belt: EP1200

Connector: Rubber-metal

## Variants

Various dimensions possible

## Process

Endless wrapping, notching

Assembly

# Process-stable compliance with tight production tolerances in the moulding process enables higher throughput rates on screen star machines

Application in: Potato harvester

Product: Screening star



Value Add Jäger



## Customer Problem

Excessive thickness tolerances of the hubs on existing sieve stars and thereby tolerance addition on screen star shafts led to lateral tarnishing and grinding on the machine frame.



## JÄGER Solution

Selection of a high-precision IM process and iterative adjustment of the tool dimensions to match the material shrinkage leads to very tight tolerances with process stability. The use of highly abrasion-resistant materials reduces wear and optimises tool life.



## Benefit

Freedom in process and material selection enables very tight component tolerances on screen starwheels, making it possible for our customers to widen their machines.



## Customer Testimonial

*"You have exceeded our expectations in addressing this critical issue. Thanks to precise hub tolerances, we've eliminated lateral tarnishing on our machine frames during screen star operation."*

### Material

Rubber: NBR, SBR, NR

Plastic: TPU, PUR

### Variants

Various dimensions possible

### Process

Injection molding

Casting

# Innovative belt connection reduces purchase prices and delivery time of endless baler belts

Application in: Round baler

Product: Grizzly Splice for baler belts



## Value Add Jäger



### Customer Problem

Limited worldwide production capacities of endless connected belts with high durability lead to problems with delivery availability, long delivery times and high purchase prices.



### JÄGER Solution

Innovative and patented solution for an automated sewn belt splice that reduces production time and manual work on endless belts.



### Benefit

The customer receives a technically superior solution of endless belts, validated on the test bench and in the field, with a more favourable purchase price and shorter delivery time. Tighter belt tolerances allow mixing of belt sets.



### Customer Testimonial

*"Wow! Grizzly-Splice has been a game-changer for us! Say goodbye to delivery delays and hefty purchase prices. With their endless connected belts, we're enjoying uninterrupted operations at unbeatable prices. Thank you for revolutionizing our supply chain!"*

### Material

Rubber-fabric belt: Type D, F

### Variants

Various dimensions possible

### Process

Sewing

Assembly

# Appropriate material selection on drive rollers increases the service life of driven round baler belts

Application in: Round baler

Product: Rubberized drive roller



## Value Add Jäger



### Customer Problem

Inappropriate material selection on rubberised drive rollers of round balers reduced the service life of round baler belts due to increased abrasion and wear.



### JÄGER Solution

Selection of a suitable elastomer compound with an excellent balance between abrasion resistance and coefficient of static friction for transmitting the drive torque to the round baler belt.



### Benefit

Performance balance between round baler belts and drive rollers thanks to the pooling of expertise for multiple components under one roof. Use of elastomer compounds validated in field enables high product quality.



### Customer Testimonial

*“Switching to the recommended material for our round baler’s drive rollers was a game-changer! Our baler belts now last longer, thanks to reduced abrasion and wear, ensuring uninterrupted performance in our operations.”*

### Material

Roller: metal

Rubber: SBR/NBR

### Variants

Various dimensions possible

### Process

Metal preparation

Injection molding

# Enhancing net binding efficiency: tailored elastomer solutions and precision manufacturing

Application in: Round baler

Product: Rubberized net binding roller



## Value Add Jäger



### Customer Problem

During net binding operation, the net was frequently wrapped around the net binding roller. This was caused by the inappropriate elastomer and parting lines as a result of the production process.



### JÄGER Solution

Development of a soft elastomer compound with sufficient friction to convey the film in the absence of sticking and wrapping. Burr-free, smooth roller surface thanks to autoclave production process.



### Benefit

Complete rubber-metal component production in house with high experience in application appropriate material choice and high tolerance production processes.



### Customer Testimonial

“Great rubber material and process know-how! Our net binding process runs seamlessly now! They identified the root cause - and provided tailored solutions, eliminating the frequent wrapping. Their attention to detail saved us time and frustration, optimizing our operations”

### Material

Roller: metal

Rubber: SBR/NBR

### Variants

Various dimensions possible

### Process

Metal preparation

Rubber coating: Autoclave



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