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INNOVA-TEX HUB PVT. LTD.

BIKER PRODUCTS

Protection engineered into every seam.

Protective apparel engineering, OEM manufacturing and compliance-ready development.

RIDER-LED DESIGN

CONTROLLED BUILD

MARKET-READY PATH

www.innovatexhub.com

COMPANY OVERVIEW

ABOUT OUR BIKER DIVISION

Protective apparel expertise from concept to shipment

Innovatex Hub translates buyer briefs into engineered motorcycle garments - from city-ready overshirts and armored cargo pants to AAA- and AA-oriented riding denim. Our workflow connects product architecture, fit, reinforcement zoning, protector integration, industrial sewing, wash and finish control, and documented quality gates.

Each protective claim belongs to a specific, approved construction. Final classification and marking must be supported by the applicable test reports, technical documentation and market conformity route.



PERFORMANCE

Protection target drives zones, materials and seams.



MANUFACTURING

Repeatable methods convert the approved sample into bulk.



DOCUMENTATION

Traceability keeps certificates aligned with the shipped style.



CORE SPECIALIZATION

Protective categories engineered for OEM and private-label programs

01



PROTECTIVE RIDING DENIM

AAA and AA development platforms
Straight, slim and cargo fits
Zoned reinforcement and armor pockets

02



PROTECTIVE OVERSHIRTS

Casual woven outer appearance
Concealed mesh and reinforcement
Shoulder and elbow protector integration

03



ARMORED CARGO PANTS

Utility storage without exposed hazards
Hip and knee protector systems
Riding posture and mobility control

04



OEM / PRIVATE LABEL

Buyer pattern or co-development
Custom wash, color, trims and sizing
Client-approved labels and packaging

BIKER PRODUCT DEVELOPMENT PROCESS

A gated path from risk brief to certificate-controlled bulk

- 01 Requirement brief and target protection class
- 02 Risk-zone mapping and material architecture
- 03 Pattern development, riding fit and size strategy
- 04 Prototype sewing and protector integration
- 05 Pre-compliance validation and accredited lab testing
- 06 Approved size set, pilot run and bulk controls
- 07 Final inspection, documentation and shipment



BULK RELEASE GATE

No rating or construction change is released without approval of the corresponding evidence pack.

PROTECTION ZONES DRIVE THE BUILD

Material, seam and impact requirements change by exposure zone

ZONE 1 HIGH EXPOSURE

Seat, hip, knee, shoulder and elbow areas demand the strongest abrasion, tear, seam and impact strategy for the applicable garment.

ZONE 2 MODERATE EXPOSURE

Side, thigh and torso areas balance protective coverage with mobility, heat management and weight.

ZONE 3 LOWER EXPOSURE

Lower-risk panels can prioritize flex, breathability and ergonomics while maintaining construction integrity.



Zoning must follow the applicable EN 17092 part and final garment class. The certified construction is the control sample.

PROTECTIVE GARMENT CAPABILITIES

Industrial methods selected for repeatability, load management and rider comfort



01 **WOVEN & DENIM CONSTRUCTION**

Protective jeans, cargo pants and overshirts with controlled multi-layer assemblies.

02 **SAFETY-SEAM ARCHITECTURE**

Lockstitch, chainstitch, overlock, twin-needle and reinforced seam plans selected by load.

03 **REINFORCEMENT INTEGRATION**

High-tenacity textile panels, technical linings and edge-controlled insertions.

04 **PROTECTOR POCKET SYSTEMS**

Hip, knee, shoulder, elbow and back-pocket options with position adjustment.

05 **CRITICAL-POINT REINFORCEMENT**

Bar-tacks and controlled stitch density at pocket, belt-loop and stress locations.

06 **FINISH & PACKING CONTROL**

Wash coordination, trim functionality, measurement recovery and export-grade packing.

CROSS-FUNCTIONAL BIKER TEAM

Protective apparel succeeds when engineering, fit, production and quality work as one



MATERIAL & COMPLIANCE

Maps the target class to material, seam, trim and evidence requirements.

PATTERN & RIDING FIT

Develops articulation, posture, protector position and graded measurement control.

SAMPLE & PRODUCTION

Builds controlled prototypes, pilots the method and trains the production line.

QUALITY & DOCUMENTATION

Verifies construction, measurements, traceability and certificate alignment.

CUSTOMIZATION WITH CONTROL

Buyer identity is flexible; protective architecture remains evidence-led

01 RIDER SEGMENT

Urban, commuter, touring, adventure or work-rider use case.

02 OUTER FABRIC

Denim, twill, canvas or plaid woven face with controlled performance.

03 REINFORCEMENT

Full or zonal high-tenacity textile and technical lining systems.

04 PROTECTORS

Approved hip, knee, shoulder, elbow and back options by garment type.

05 FIT & SIZING

Men's, women's and buyer-specific blocks with controlled grading.

06 WASH & COLOR

Client-approved shade, hand feel and dimensional recovery.

07 TRIMS

Zips, snaps, hook-and-loop, reflective elements and adjustment features.

08 PACKAGING

Private labels, care and PPE information, barcode/RFID and export cartons.

TRADEMARK CONTROL | Third-party brand names, badges and material marks are used only with documented authorization and approved artwork.

QUALITY BUILT INTO EVERY GATE

Inspection controls the garment; lab evidence controls the claim

INCOMING MATERIAL

- Composition and weight/GSM
- Shade and lot traceability
- Shrinkage and colorfastness
- Approved trim and protector references

IN-PROCESS

- Seam type, allowance and stitch density
- Reinforcement and pocket position
- Bar-tack and high-load point placement
- Measurement and visual checkpoints

FINAL & PRE-COMPLIANCE

- Fit, function, symmetry and appearance
- Dimensional recovery after finish
- Packing traceability and documentation
- Accredited abrasion, tear, seam and impact routes





BIKER PRODUCTS DIVISION

ENGINEERED FOR THE ROAD

Denim. Cargo. Overshirts. OEM development.

ABRASION CONTROL

IMPACT READY

RIDER COMFORT

PROTECTIVE RIDING COLLECTION

Real product references, rebuilt as neutral brand-free imagery for OEM presentation.

Four platforms. One controlled route from target class to approved bulk.



AAA MONO LAYER JEANS

AAA development target | EN 17092-2:2020

DEVELOPMENT PLATFORM

A high-protection riding-jean platform that keeps a familiar denim appearance while allocating reinforcement and protector systems to critical zones.

- Multi-zone protective construction for demanding on-road use
- Hip and knee protector-pocket integration
- Straight, wearable denim silhouette with buyer-selectable wash
- Certificate-controlled materials, seams, trims and protector package



AAA is a development target based on the supplied project naming. Final classification must be supported by accredited testing of the approved style construction.

MAXIMUM-PROTECTION ARCHITECTURE

Construction priorities

AAA TARGET



01

SEAT & HIP SYSTEM

High-exposure coverage and protector-pocket position are set against the riding posture and size grade.

02

KNEE PROTECTION ZONE

Reinforcement length, pocket adjustability and protector retention are checked in seated and standing positions.

03

LOAD-BEARING SEAMS

The seam plan, allowance, thread and stitch density are frozen with the approved certification sample.

04

FIT & ERGONOMICS

Waist security, rise, articulation and leg mobility are validated without displacing the intended protection zones.

AA MONO LAYER JEANS

AA development target | EN 17092-3:2020

DEVELOPMENT PLATFORM

A balanced protective denim platform for commuting and touring, combining localized reinforcement, armor integration and a clean everyday silhouette.

- Protection-to-weight balance for diverse riding activities
- Hip and knee protector-pocket integration
- Deep-indigo finish with controlled wash and measurement recovery
- Buyer-selectable fit, thread, trims and protector package



AA is a development target based on the supplied project naming. Final classification must be supported by accredited testing of the approved style construction.

BALANCED ROAD PROTECTION

Construction priorities

AA TARGET



01

LOCALIZED REINFORCEMENT

Coverage concentrates on critical impact and abrasion areas while reducing unnecessary bulk.

02

PROTECTOR POSITION

Hip and knee pocket shape and adjustment preserve coverage across the approved size range.

03

DENIM PERFORMANCE

Outer fabric, wash recipe and dimensional recovery are controlled because finishing can change performance.

04

DAILY-RIDE COMFORT

Seated fit, flex points, rise and heat management are reviewed together with the target class.

PROTECTIVE CARGO JEANS

AA-oriented platform | final class by approved construction

DEVELOPMENT PLATFORM

A utility-focused motorcycle pant combining a woven cargo exterior, breathable technical lining, protector pockets and zonal high-tenacity reinforcement.

- Cargo storage designed to avoid exposed snag points
- Hip and knee protector integration
- Breathable mesh and reinforcement architecture
- Custom color, fit, pocket layout and closure package



Reference imagery has been de-branded. Any AA/CE or material-brand claim must be reintroduced only when the buyer's final evidence and trademark authorization support it.

UTILITY WITHOUT COMPROMISE

Construction priorities

AA-ORIENTED



01

PROTECTOR POCKETS

Pocket shape, retention and access are developed for the selected certified protector component.

02

HIGH-TENACITY ZONES

Reinforcement coverage follows the risk map and is not reduced for styling without re-assessment.

03

BREATHABLE INTERIOR

Mesh and lining choices manage comfort while keeping edges, seams and protectors stable.

04

CARGO FUNCTION

Pocket volume, flap security and stress points are tested in the rider's seated position.

ARMORED FLANNEL OVERSHIRT

AA-oriented platform | final class by approved construction

DEVELOPMENT PLATFORM

A casual plaid overshirt concealing a technical interior with mesh, reinforcement zones, protector pockets and rider-focused closure details.

- Shoulder and elbow protector-pocket integration
- Concealed technical lining and reinforcement system
- Secure center-front closure and useful internal storage
- Selectable plaid, color, fit, trims and label package



Reference imagery has been de-branded. Any AA/CE or material-brand claim must be reintroduced only when the buyer's final evidence and trademark authorization support it.

CASUAL OUTSIDE. TECHNICAL INSIDE.

Construction priorities

AA-ORIENTED



01

SHOULDER & ELBOW

Protector pockets are anchored and positioned to maintain coverage through the rider's movement.

02

REINFORCEMENT LAYOUT

Technical coverage follows the risk map beneath the casual woven face fabric.

03

CLOSURE SECURITY

Snaps, zipper and cuff details are selected to help the garment remain correctly positioned.

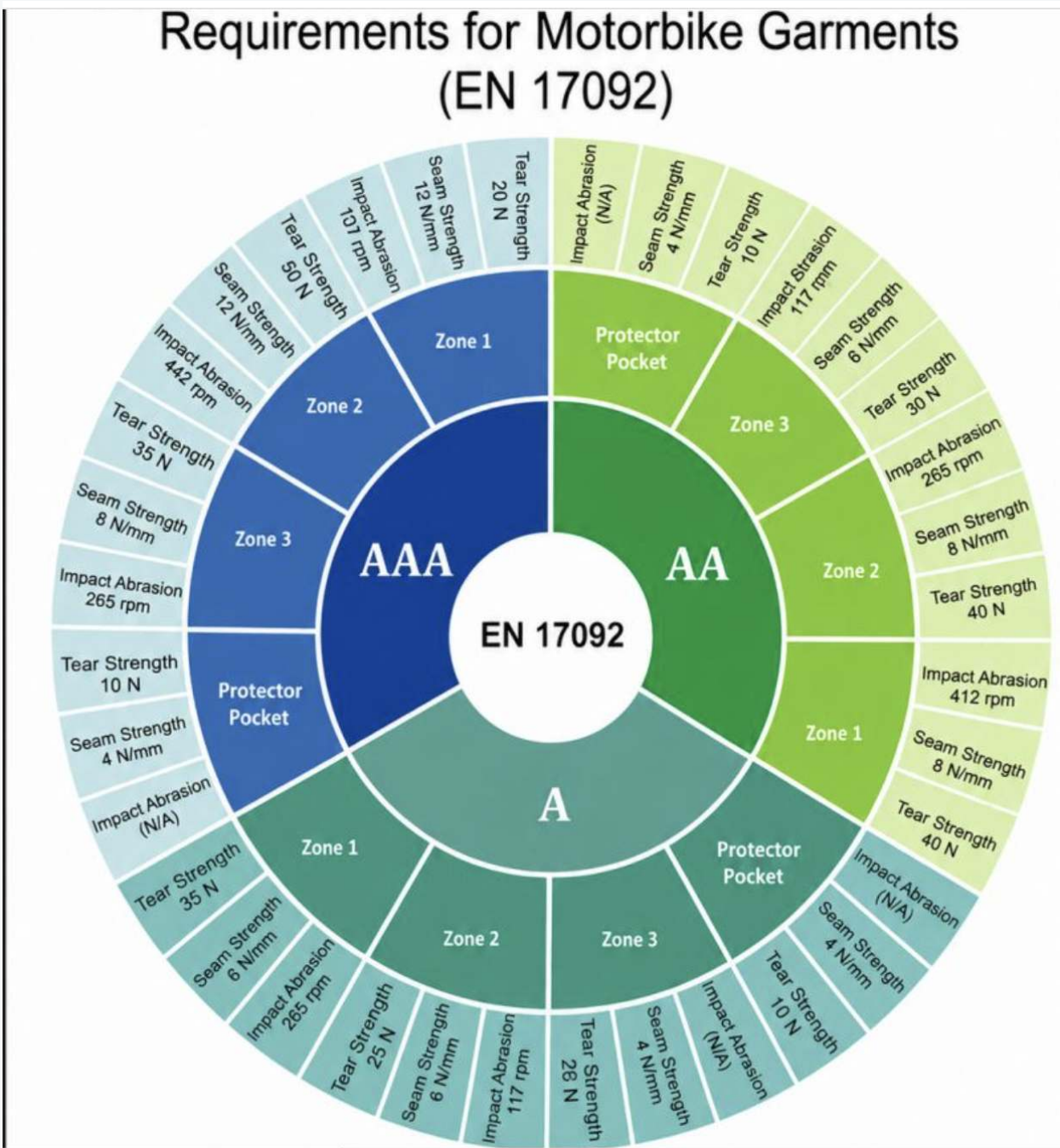
04

THERMAL COMFORT

Mesh, vent paths and layer bulk are balanced against abrasion and seam requirements.

EN 17092 PERFORMANCE REQUIREMENTS

Supplied comparison chart for Class AAA, AA and A garment zones



HOW TO READ THE CHART

The center separates the garment classes. The middle ring identifies protector-pocket and zone categories. The outer ring summarizes the pictured abrasion, seam and tear values for each section.

ENGINEERING USE

- Set the target class before material and seam selection.
- Map every panel and seam to the applicable garment zone.
- Keep the approved lab sample, bill of materials and seam plan aligned.
- Re-assess changes before carrying a rating into bulk production.

REFERENCE NOTE

Reference aid only. Confirm requirements against the controlled standard, accredited laboratory interpretation and style-specific certificate.

FROM TARGET CLASS TO MARKET EVIDENCE

A certification-conscious route with durability and resource efficiency in view

01 RISK & SPECIFICATION

Define intended use, target market, garment class, protectors and foreseeable risks.

02 TEST & ASSESS

Coordinate EN 17092 garment tests and EN 1621 protector evidence with an accredited body.

03 DOCUMENT & MARK

Align technical file, instructions, declaration and market-specific CE/UKCA route.

04 CONTROL BULK

Lock the approved bill of materials, seam plan, trims and change-control process.



REFERENCE FRAMEWORK

- Regulation (EU) 2016/425
- EN 17092-1:2020 - test methods
- EN 17092-2 / -3 / -4 / -5 / -6:2020 - garment classes AAA, AA, A, B and C
- EN 1621-1:2012 - limb and joint protectors
- EN 1621-2:2014 - back protectors

Standards status checked in August 2026 against EUR-Lex and BSI listings. Always confirm the current market route and certificate scope before production or publication.

WHY CHOOSE INNOVATEX HUB?

Protective-product thinking with export-oriented manufacturing discipline

01 Protective garment specialization

02 Compliance-conscious development

03 Controlled sample-to-bulk transfer

04 Flexible OEM and private label

05 Competitive sourcing and production

06 Export documentation and traceability

**WHY
INNOVATEX?**

**One connected workflow from brief, pattern
and costing through sampling, bulk
production, inspection and shipment.**

BUYER MARKETS

Pakistan | UAE | UK | Denmark
Wider Europe | Middle East | USA

LET'S BUILD RIDER-READY PRODUCTS.

We look forward to developing your next protective apparel program.

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SCAN TO VISIT

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