



TILSATEC

Collide-x³

NEXT LEVEL IMPACT PROTECTION

Product Guide
Oil & Gas



TILSATEC

Collide-x³

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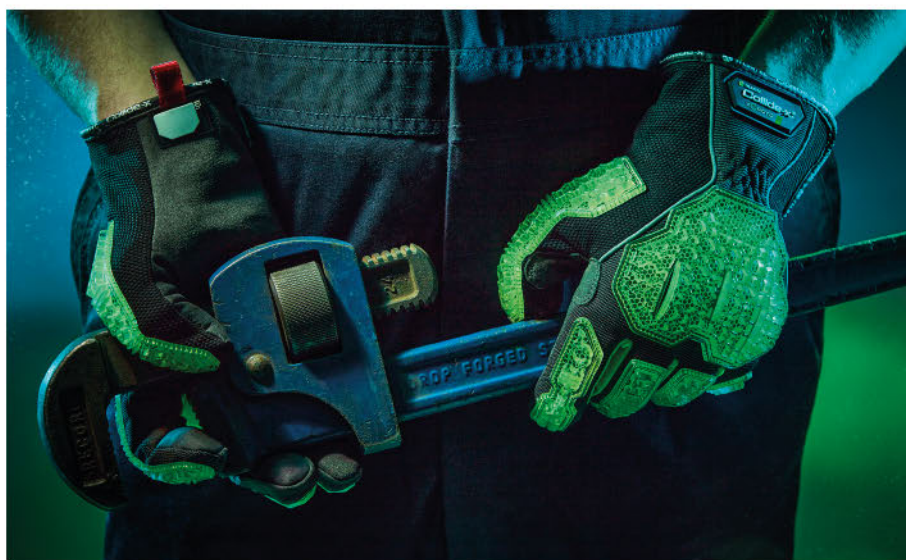
ANSI LEVEL 3 IMPACT PROTECTION WITH LEVEL 2 COMFORT AND DEXTERITY

It took over 3 years of research and development to put this groundbreaking 2-step impact reduction technology into a glove that offers maximum comfort and dexterity for even the longest shifts.

THE RESULT?

At just 6.5mm thick, Collide-X³ offers a 38% improvement in impact protection compared to typical ANSI level 2 TPR. Yet it's so comfortable that field workers want to keep it on – and they do, for up to 12 hours at a time. Performing even the trickiest tasks without restrictions.

The oil and gas industry is vital to supplying the world with the energy it needs to keep on running. And for that, you deserve the best in hand protection.

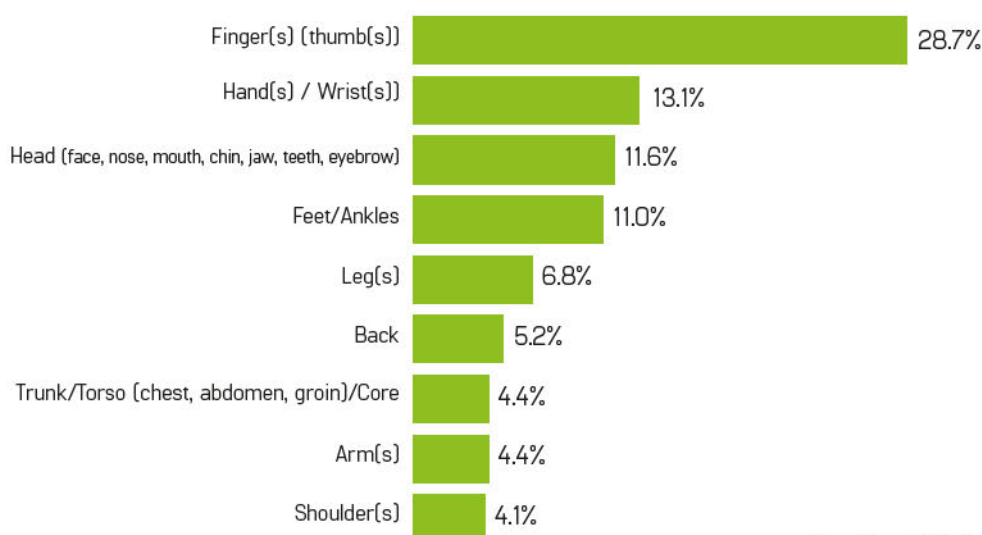


HANDS AND FINGERS GET THE MOST INJURIES IN OIL AND GAS

41.8% of all recordable incidents on drilling rigs in 2023 were **hand and finger injuries**

(International Association of Drilling Contractors, 2023 figures)


Total Industry Recordable Incidents by **Body Type**



Based on 964 Incidents



FLOORHANDS need gloves that offer durability and dexterity while they're buffing and needle gunning, installing loading station hoses, or lifting heavy equipment on deck. When we tested Collide-X with a real Floorhand on a rig, he rated it Very Good for Comfort, Dexterity, Feeling, Fit, Wear, and Durability.



“ Bone fractures, strains/sprains and lacerations continue to account for the majority of accident outcomes, with hands and fingers being the most frequently injured parts of the body. ”

(OEUK Health, Safety & Environment Report 2023)

“ Much better than current impact gloves on every level... no need to remove impact gloves for completing all job tasks, where current gloves make it very hard to use split pins and slotted nuts. ”

Feedback from real Floorhand.

EASIER FLEXING, BENDING, AND GRIPPING – EVEN AFTER 12 HOURS

27.9%

of recordable incidents were caused by getting **caught between or in equipment**.

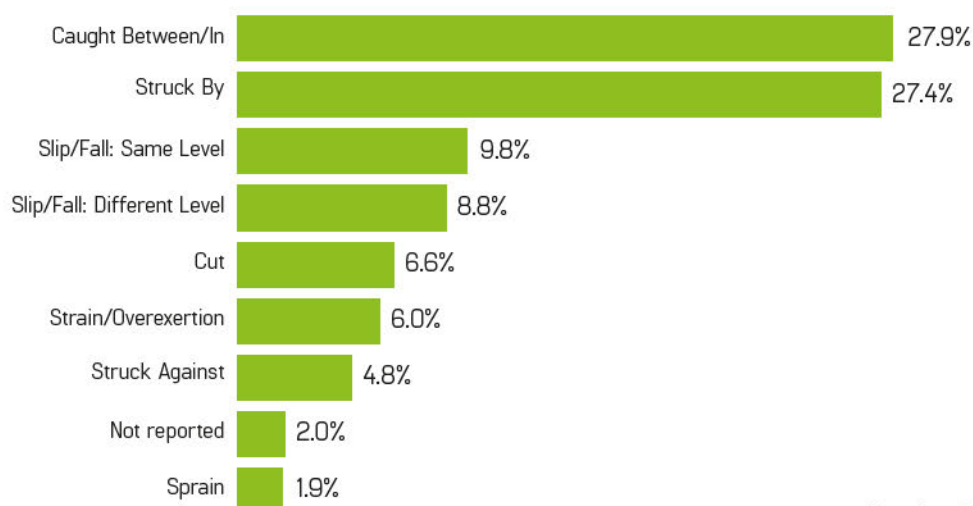
(International Association of Drilling Contractors, 2023 figures)

27.4%

of them were caused by being **struck by heavy equipment**.

(International Association of Drilling Contractors, 2023 figures)


Total Industry Recordable Incidents by Incident Type



Based on 964 Incidents

DERRICKMEN need good grip and dexterity all shift long when hammering and jacking. Imagine an impact glove that offers ANSI level 3 protection as well as great comfort and dexterity for even the trickiest tasks, helping Derrickmen stay protected and productive. Rated excellent for in-use Comfort and In-use Dexterity by a real Derrickman.

ROUSTABOUTS can find it tricky dealing with ropes, tie wraps and sling shackles while wearing gloves with TPR protection. Just imagine the benefits of a glove that offers full ANSI level 3 impact protection as well as the dexterity to perform even the trickiest tasks. When we tested Collide-X with a Roustabout on a rig, he was amazed at the difference, rating the gloves Excellent for In-use Dexterity, Feeling, and Fit.



“ These gloves are **less restrictive** when working on tricky tasks [compared to using TPR impact gloves]. ”

– Feedback from real Derrickman

“ A **vast improvement** on the gloves we currently use. Dexterity and fit are important improvements and mean that many more tasks are achievable without having to remove gloves from hand. ”

– Feedback from real Roustabout

STATE-OF-THE-ART IMPACT TECH FROM A MULTI-AWARD-WINNING IMPACT PROTECTION PARTNER

Tilsatec's new Collide-X impact protection gloves work so well because they use a unique two-step damage control system developed together with KORROYD, the multi-award-winning advanced impact technology provider.



KORROYD

KORROYD: ENGINEERING A SAFER TOMORROW ACROSS MULTIPLE INDUSTRIES

KORROYD's been in the business of impact protection for over a decade. Since then, the company has been dedicated to engineering a safer tomorrow through the world's most advanced impact technology.



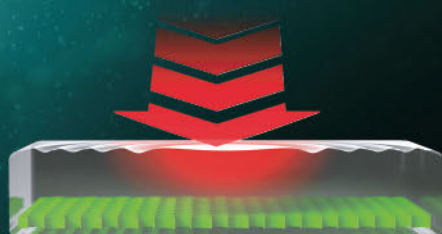
It provides impact protection for leading industrial helmet brands, motorcycle helmets and body protection, and for one of America's largest cycle helmet manufacturer. But, perhaps most impressively, KORROYD's impact protection technology is now being used by the US Air Force fighter pilots in their next gen fixed wing helmets.

Now KORROYD have developed their first multiple impact technology for industrial hand protection: KOR+.

HOW DOES KOROYD WORK?

Unlike traditional TPR, KOR+ advanced impact protection technology uses a 2-step damage control system that absorbs and redirects energy away from localized impact zones, limiting dangerous force to reduce the risk of injury.

The unique encased tubular structure allows for multiple impact performance, ensuring it's always ready to protect when it counts.



REINFORCED PROTECTION *ABSORBS MORE ENERGY*

Encasing the KOROYD welded tube structure inside a soft elastomer allows it to **ABSORB** the energy of an impact.



KOROYD *REDIRECTS FORCE*

Which it then **REDIRECTS** away from the impact zone to limit and minimize the impact. This results in a two-step damage control material which is thin, durable, and lightweight.

ERGONOMIC AND FLEXIBLE

KOROYD flexes with finger and hand movements across all key impact areas, allowing the dexterity needed to perform tasks unhindered.

ULTRALIGHT AND MINIMAL THICKNESS

A thin but vital layer of KOROYD improves performance, allowing for thinner protection without compromise. This reduces fatigue, improves comfort, and minimizes the risk of snagging when working in confined spaces.

IMPACT TESTING

EN388

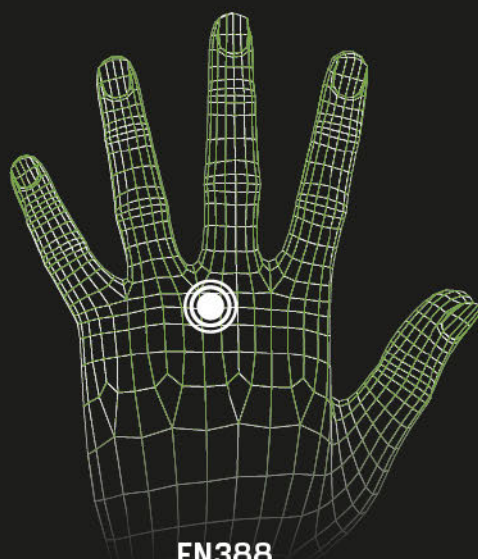
The EN388:2016+A1:2018 impact test is optional and should only be included for gloves that claim specific impact resistant properties. This test is based on the EN13594:2015 standard for protective gloves for motorcycle riders.

The knuckle area is tested by dropping a striker with impact energy of 5J onto the test subject. To be considered a pass (P), the transmitted force needs to be less than or equal to 7 kN with no single results greater than 9 kN. Only the knuckle area is tested.

Pass $\leq 7\text{kN}$



XXXXX **P**



EN388
Impact standard
(Knuckle area)

● 4 Tests

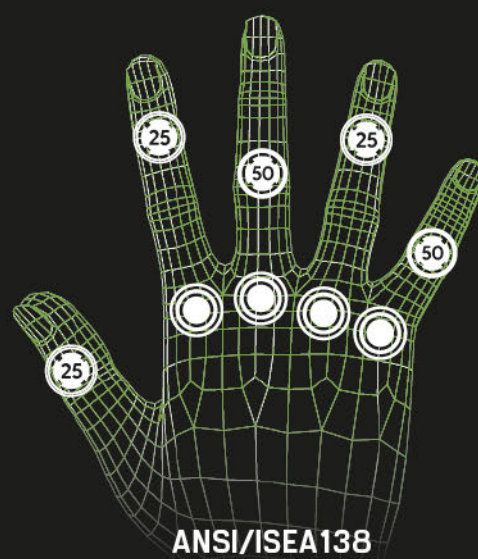
1 test to the knuckle area on 4 different glove samples, the average outcome taken for the final score.

ANSI/ISEA138

The ANSI/ISEA138 standard is a similar test method that however, requires the testing to be carried out at 18 impact points across 2 gloves, over both the knuckles and fingers. The overall performance level is determined by the lowest level recorded between the knuckles and fingers.

Gloves tested to this standard can be classified to 3 levels as per the following table:

ANSI / ISEA 138 1	$\leq 9\text{kN}$ Mean transmitted result	$\leq 11.3\text{kN}$ All impacts
ANSI / ISEA 138 2	$\leq 6.5\text{kN}$ Mean transmitted result	$\leq 8.1\text{kN}$ All impacts
ANSI / ISEA 138 3	$\leq 4\text{kN}$ Mean transmitted result	$\leq 5\text{kN}$ All impacts



ANSI/ISEA138
Impact standard
(Knuckle and fingers)

● 18 Tests

18 tests on 2 different glove samples, 10 (fingers & thumbs) 8 (knuckles), the lowest outcome taken for the final score.



TILSATEC

Collide-x³

PRODUCT RANGE



Collide-x³**63-6320**PROTECTED BY
KOROYD

CUT

F**A6**

Medium weight impact level **3** glove
with sandy nitrile palm coating

Gauge	13gg
Colour	Grey/Black and Green
Cuff Style	Knitwrist
Length	220-270mm
Sizes	7-12
Packaging	6 pairs inner package. Sizes 7, 11, 12 36 pairs per carton, Sizes 8, 9, 10 72 pairs per carton

Oil & Gas Applications

- Drilling and Boring
- Fuel Extraction
- Pipe Handling
- Pump Work
- Maintenance and Repair

Performance

EN388: 2016



4 X 4 2 F P

EN407:2020



X 1 X X X X

ANSI/ISEA 105-2024



Features & Benefits

- ANSI/ISEA 138 level 3 impact protection at level 2 bumper thickness
- First application of KOROYD impact technology in hand protection
- Unlike TPR, 2 step damage control system from KOROYD absorbs and redirects energy away from the impact zone
- Unique, first to market (subject to registered design protection) impact bumper design
- 360 degrees cut resistance resulting in EN388: 2016 level F and ANSI 105: 2016 A6 protection
- Robust, reliable mechanical protection from RhinoYarn technology made in the UK
- Oil grip you can rely on
- Breathable palm and liner reduces perspiration keeping hands cool
- Reinforced thumb crotch for added durability
- Touchscreen compatible



CE



Collide-x³**68-9320**PROTECTED BY
KOROYD

CUT

F**A9**

Ultra-lightweight impact level 3 glove with sandy bi-polymer palm coating

Gauge	18gg
Colour	Grey/Black and Green
Cuff Style	Knitwrist
Length	220-270mm
Sizes	7-12
Packaging	6 pairs inner package. Sizes 7, 11, 12 36 pairs per carton, Sizes 8, 9, 10 72 pairs per carton

Oil & Gas Applications

- Pipe Handling
- Scaffolding
- Breakout Tools
- Loading and Hauling
- Parts Assembly

Performance

EN388: 2016



4 X 4 3 F P

ANSI/ISEA 105-2024



Features & Benefits

- ANSI/ISEA 138 level 3 impact protection at level 2 bumper thickness
- First application of KOROYD impact technology in hand protection
- Unlike TPR, 2 step damage control system from KOROYD absorbs and redirects energy away from the impact zone
- Unique, first to market (subject to registered design protection) impact bumper design
- 360 degrees cut resistance resulting in EN388: 2016 level F and ANSI 105: 2016 A9 protection
- Robust, reliable mechanical protection from RhinoYarn technology made in the UK
- 18 gauge liner for ultimate fit, feel and dexterity
- Oil grip you can rely on
- Breathable palm and liner reduces perspiration keeping hands cool
- Reinforced thumb crotch for added durability
- Touchscreen compatible

**CE**

Collide-x³**69-7310**PROTECTED BY
KOROYD

CUT

F A7

Impact level 3 **mechanics** glove

Gauge	13gg liner
Colour	Black/Grey/Green
Cuff Style	Gusset, Shirred, Slip-On
Length	230-270mm
Sizes	7-13
Packaging	6 prs inner package / 36prs per carton

Oil & Gas Applications

- Drilling and Boring
- Fuel Extraction
- Pipe Handling
- Installing and Decommissioning Rigs
- Chaining Up

Performance

EN388: 2016



4 X 4 2 F P

EN407:2020



X 1 X X X X

ANSI/ISEA 105-2024



Features & Benefits

- ANSI/ISEA 138 level 3 impact protection at level 2 bumper thickness
- First application of KOROYD impact technology in hand protection
- Unlike TPR, 2 step damage control system from KOROYD absorbs and redirects energy away from the impact zone
- Unique, first to market (subject to registered design protection) impact bumper design
- 360 degrees cut resistance resulting in EN388: 2016 level F and ANSI 105: 2016 A7 protection
- Robust, reliable mechanical protection from RhinoYarn technology made in the UK
- High grade dual layer synthetic leather suede palm
- Gusset slip on cuff for easy donning and doffing
- Shirred wrist for improved comfort and fit
- Reinforced leather thumb crotch for added durability
- Hi-viz forchettes for increased visibility
- Loop feature to attach to glove clip. Color coded for glove size identification

**CE**

Collide-x³**69-7330**PROTECTED BY
KOROYD

CUT

F**A7**

Impact level 3 **leather drivers** glove

Gauge	13gg liner
Colour	Grey/Green
Cuff Style	Gusset, Shirred, Slip-On
Length	230-270mm
Sizes	7-13
Packaging	6 prs inner package / 36prs per carton

Oil & Gas Applications

- Pipe Handling
- Maintenance and Repair
- Chaining Up
- Breakout Tools

Performance

EN388: 2016



4 X 4 3 F P

EN407:2020



X 1 X X X X

ANSI/ISEA 105-2024



Features & Benefits

- ANSI/ISEA 138 level 3 impact protection at level 2 bumper thickness
- First application of KOROYD impact technology in hand protection
- Unlike TPR, 2 step damage control system from KOROYD absorbs and redirects energy away from the impact zone
- Unique, first to market (subject to registered design protection) impact bumper design
- 360 degrees cut resistance resulting in EN388: 2016 level F and ANSI 105: 2016 A7 protection
- Robust, reliable mechanical protection from RhinoYarn technology made in the UK
- Highly durable hydrophobic premium cow grain leather
- Wing thumb design for flexibility and comfort
- No stitching to palm reduces catch areas
- Gusset slip on cuff for easy donning and doffing
- Gunn cut creates stitching in natural finge creases for improved comfort
- Loop feature to attach to glove clip. Color coded for glove size identification





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NEXT LEVEL IMPACT PROTECTION

REQUEST THE BEST:
PUT COLLIDE-X³ TO THE TEST TODAY



TILSATEC®

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