

WE HAVE
EVOLVED *Safety*
SO YOU CAN
KEEP EVOLVING
Safely

**emo⁴
tion**
LTF/EN A

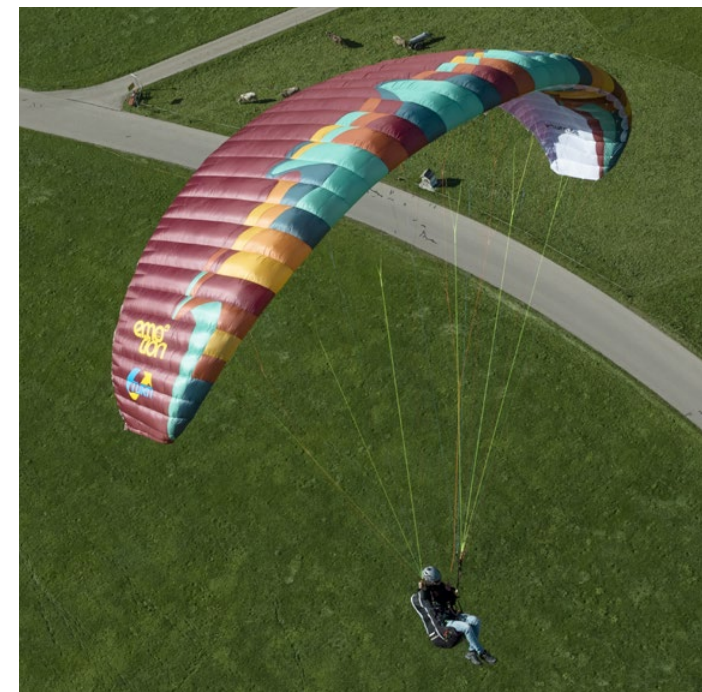
NEXT LEVEL
A-CLASS
PERFORMANCE



TURN
SAFEFUN

FUN FACTOR CONSIDERABLY RISES
WHEN THE RISK FACTOR SINKS

#FLYEMOTION





+LIGHTER

Weight savings of up to 800g through lightweight technology and reduction of the total line length

+FASTER

Higher speed trim through modified leading edge openings and reduction of total line length

+MORE STABLE

More power through reinforced roll damping

+SAFER

Increased passive safety
Lower inertia
A new dimension in performance and safety

EMOTION 4

REDEFINED SAFETY



The Emotion line is synonymous with the safety of the latest generation, the EMOTION 4 carries out the symbiosis of sporty handling and absolute good-naturedness into the future. Already the EMOTION 3 has impressively demonstrated that safety can be well combined with agile handling, which means that the wing promises safe moments of happiness long after the training has ended. We wanted to stick to that and at the same time question everything constructively in order to raise the A-class reference to a new level. After more than three years of development work, the fourth generation of the EMOTION is now opening up a new era. Faster, lighter, safer and the most important value by which we measure the Emotion: the safe pilot's smile after landing.

The EMOTION4 breaks a lance for the A-class. Its sporty handling and strong performance let the class fall completely into oblivion. Rather, it stands for the pleasure of relaxed flying with uncompromising safety. We consider this to be the essence of flying to experience moments of the present and feel pure joy

in the air. The increasingly extreme weather conditions in particular speak for the high safety potential, even for ambitious pilots. Nevertheless, the performance profile of the modern wing is impressive. The EMOTION 4

really bites into thermals and facilitates centering without a tendency to fall out thanks to higher roll damping. The wing gives gentle but precise feedback via the risers. Very good climbing and gliding properties make the wing the perfect companion on cross-country flights.

The EMOTION 4 is the perfect beginner's wing that promises a safe fun factor, even long after school. The wing is aimed at all pilots who are looking for a high-end A-class glider of the latest generation.

The Emotion line stands for the highest values. Chief designer Ernst Strobl allowed himself more than three years for the further development - in order to completely raise the reference to a new level. How do you create safety-related added value by being willing to rethink everything? A suggested sharknose now gives the high-end A-wing its smoothness. Ultra-thin Nitinol reinforcements on the leading edge keep the profile shape under tension even on the ground. The super-elastic nickel-titanium alloy allows strong deformations and quickly returns to its original shape thanks to the memory effect. In combination with a significantly lower canopy weight, this ensures very good launch characteristics. Additionally, 3D shaping (3DS) ensures optimized profile tension in the nose area. Miniribs on the trailing edge and the brake gathering system (BGS) ensure sporty handling characteristics. The High Pressure Crossport Design (HPCD) optimizes the cross-ventilation of the crossports and creates balanced internal pressure of the good-natured wing. The line setup was modified and compared to the previous model the lines could be shortened by 20%. Color-differentiated coated PPSLS lines of the latest generation are used. Even with the riser set, everything was done to ensure a clear and elegant look. The Pilot Assistant (PAS) pictograms provide orientation. The newly developed U-Turn neoprene comfort handles can be infinitely adjusted in size. By removing the flexible reinforcement, they can be converted into pure soft handles.

The material mix of the PX30 and PX20 promises optimal weight management with maximum durability. U-Turn developed the base material PX40 specifically for the extreme demands of acrobatics. The material has a very pronounced durability and abrasion resistance, which is proven by the experience of the last 17 years. The colors were exclusively made according to the U-Turn Color Collection. The EMOTION 4 is the perfect beginner's wing that promises a safe fun factor even long after school. The wing is aimed at all pilots who are looking for a high-end A-class glider of the latest generation. Maximum passive safety combined with a lot of performance.

With seven different sizes, the EMOTION 4 covers an extremely large weight range from 50 to 160 kgs. Available in three color combos.
XXS 20.3 / XS 22.1 / S 24 / SM 26.2 / M 28.5 / L 31 / XL 34
Arrange a test flight and experience pure EMOTION!

Further information at www.u-turn.de

EMOTION 4



LTF/EN-A HIGH SCHOOL

XXS 20,3 / XS 22,1 / S 24 / SM 26,2 / M 28,5 / L 31 / XL 34

| | XXS | XS | S | SM | M | L | XL |
|---|---|---|---|---|---|---|---|
| Recommended takeoff weight * Empfohlenes Startgewicht * | 50-65 kg | 55-70 kg | 65-85 kg | 80-100 kg | 95-115 kg | 110-130 kg | 125-150 kg |
| Increased takeoff weight * Erweitertes Startgewicht * | 65-75 kg | 70-80 kg | 85-95 kg | 100-110 kg | 115-125 kg | 130-140 kg | 150-160 kg |
| Flat area Fläche ausgelegt | 20,3 m ² | 22,1 m ² | 24 m ² | 26,2 m ² | 28,5 m ² | 31 m ² | 34 m ² |
| Projected area Fläche projiziert | 16,70 m ² | 18,18 m ² | 19,75 m ² | 21,56 m ² | 23,45 m ² | 25,51 m ² | 27,98 m ² |
| Flat wingspan Spannweite ausgelegt | 10,07 m | 10,51 m | 10,95 m | 11,44 m | 11,93 m | 12,45 m | 13,03 m |
| Projected wingspan Spannweite projiziert | 7,71 m | 8,04 m | 8,38 m | 8,76 m | 9,13 m | 9,53 m | 9,98 m |
| Flat AR Streckung ausgelegt | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Projected AR Streckung projiziert | 3,56 | 3,56 | 3,56 | 3,56 | 3,56 | 3,56 | 3,56 |
| Chord: center / wingtip Flügeltiefe: Mitte / Stabulo | 2,39 m / 0,71 m | 2,5 m / 0,74 m | 2,60 m / 0,77 m | 2,72 m / 0,81 m | 2,84 m / 0,84 m | 2,96 m / 0,88 m | 3,10 m / 0,92 m |
| V-trim V-Trimm | - 38-40 km/h | - 38-40 km/h | - 38-40 km/h | - 38-40 km/h | - 38-40 km/h | - 38-40 km/h | - 38-40 km/h |
| V-max V-Max. | 52 - 54 km/h | 52 - 54 km/h | 52 - 54 km/h | 52 - 54 km/h | 52 - 54 km/h | 52 - 54 km/h | 52 - 54 km/h |
| Bridle height Abstand Tragegurt-Kappe | 6,14 m | 6,41 m | 6,68 m | 6,98 m | 7,28 m | 7,59 m | 7,95 m |
| Nr. of cells Zellenanzahl | 38 | 38 | 38 | 38 | 38 | 38 | 38 |
| Glider weight Gewicht | 3,75 kg | 4,1 kg | 4,3 kg | 4,5 kg | 4,8 kg | 5,1 kg | 5,4 kg |
| Bridle length Gesamt Leinenlänge | 236 m | 221 m | 212 m | 223 m | 252 m | 287 m | 329 m |
| Line diameter Leinendurchmesser | 0,6 / 0,8 / 1,0 1,2 / 1,4 / 1,6 / 1,8 mm | 0,6 / 0,8 / 1,0 1,2 / 1,4 / 1,6 / 1,8 mm | 0,6 / 0,8 / 1,0 1,2 / 1,4 / 1,6 / 1,8 mm | 0,6 / 0,8 / 1,0 1,2 / 1,4 / 1,6 / 1,8 mm | 0,6 / 0,8 / 1,0 1,2 / 1,4 / 1,6 / 1,8 mm | 0,6 / 0,8 / 1,0 1,2 / 1,4 / 1,6 / 1,8 mm | 0,6 / 0,8 / 1,0 1,2 / 1,4 / 1,6 / 1,8 mm |
| Speed system / trimmer Fuß Beschleuniger / Trimmer | Yes / No Ja / Nein | Yes / No Ja / Nein | Yes / No Ja / Nein | Yes / No Ja / Nein | Yes / No Ja / Nein | Yes / No Ja / Nein | Yes / No Ja / Nein |
| Certification Zulassung | EN-A/LTF-A | EN-A/LTF-A | EN-A/LTF-A | EN-A/LTF-A | EN-A/LTF-A | EN-A/LTF-A | EN-A/LTF-A |
| Certified standards and procedures Angewandte Testverfahren | LTF 91/09 & EN 926-1:2006, 926-2:2015 | LTF 91/09 & EN 926-1:2006, 926-2:2015 | LTF 91/09 & EN 926-1:2006, 926-2:2015 | LTF 91/09 & EN 926-1:2006, 926-2:2015 | LTF 91/09 & EN 926-1:2006, 926-2:2015 | LTF 91/09 & EN 926-1:2006, 926-2:2015 | LTF 91/09 & EN 926-1:2006, 926-2:2015 |
| Folding lines used for certification Fallleinen für Testflüge benutzt | No Nein | No Nein | No Nein | No Nein | No Nein | No Nein | No Nein |
| Number of risers Anzahl Traggurte | 3+1 | 3+1 | 3+1 | 3+1 | 3+1 | 3+1 | 3+1 |
| Certification No. Zulassungsnummer | PG 1936.2022 | PG 1935.2022 | PG 1910.2022 | PG 1972.2022 | PG 1914.2022 | PG 1952.2022 | PG 1953.2022 |



COLOR 01



COLOR 02



COLOR 03



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* Takeoff weight (Pilot, Wing, Equipment) total weight range (recommended and Increased) LTF / EN A certified.
* Startgewicht (Pilot, Schirm, Ausrüstung) gesamter Gewichtsbereich (empfohlen und erweitert) LTF / EN A zertifiziert.