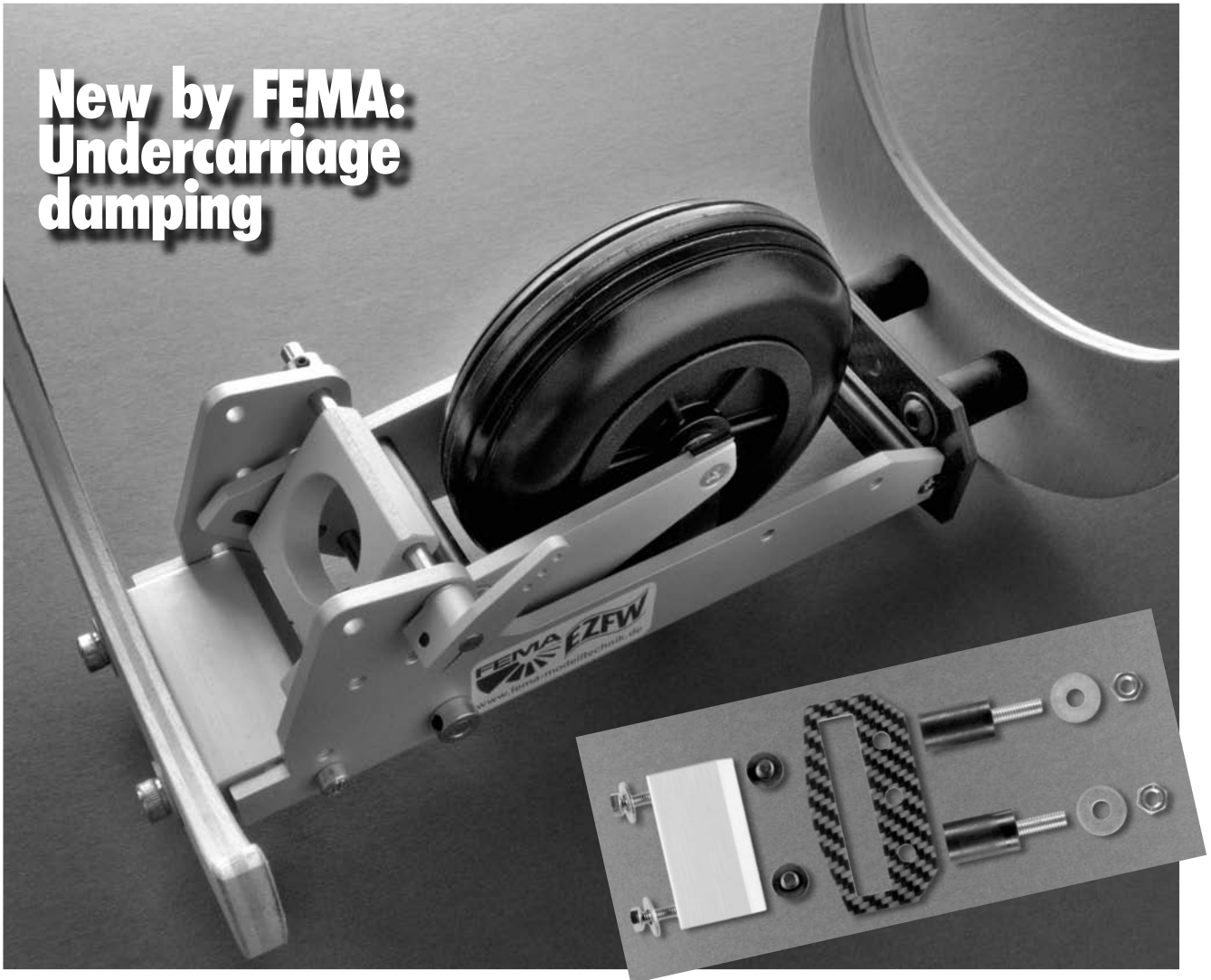


New by FEMA: Undercarriage damping



During a hard touch-down, the high kinetic energy is mainly absorbed by the rubber buffer which protects the retractable undercarriage and the model from damage. The buffer can be assembled easily between two half-formers as shown in the illustration. According to the weight of the model and the size of the landing gear, the damping can be adjusted optimally for all practical requirements with 1–3 rubber buffers.

For cleaning and maintenance the retractable undercarriage can easily be removed by loosening the screws in the aluminium gearing block and subsequently mounted again.

The damping of the landing gear fits with all FEMA retractable undercarriages that were supplied so far. The damping set consists of the front aluminium bearing block where the retractable undercarriage is mounted in an oscillating way, the rubber buffer, the damper rocker and all screws and nut that are required for the installation.

| Stock number | article | price in €unit |
|--------------|---|----------------|
| 9800/30 | Damping set, fits with the following FEMA retractable undercarriages: 9800A, 9801A, 9802A, 9803A. | 58,00 |
| 9810/30 | Damping set, fits with the following FEMA retractable undercarriages: 9810A, 9813A, 9814A, 9860FES, 9863FES, 9864FES. | 54,00 |
| 9820/30 | Damping set, fits with the following FEMA retractable undercarriages: 9820A, 9823A, 9824A, 9870FES, 9873FES, 9874FES. | 50,00 |
| 9830/30 | Damping set, fits with the following FEMA retractable undercarriages: 9830A, 9833A, 9834A. | 48,00 |

Stock number Item Price in EURO/piece

Retractable undercarriages for wheel diameter 165, 152 and 140 mm, for models to a scale of 2.0 to 2,8

| | | |
|---------|---|--------|
| 9800A | assembled completely without wheel and bow | 187,00 |
| 9801A | assembled completely with FEMAwheels ^{plus} 140mm diameter and bow | 225,00 |
| 9802A | assembled completely with FEMAwheels ^{plus} 152mm diameter and bow | 227,00 |
| 9803A | assembled completely with FEMAwheels ^{plus} 165mm diameter and bow | 230,00 |
| 9800/10 | wheel brake for wheel diameter of 140mm | 39,50 |
| 9800/11 | wheel brake for wheel diameter of 152mm | 39,50 |
| 9800/12 | wheel brake for wheel diameter of 165mm | 39,50 |
| 9800/14 | Wheel cover from glass for wheel diameter of 140-165mm | 34,50 |
| 9800/15 | additional kit for spring-loaded mounting without gas pressure spring..... | 55,00 |

Retractable undercarriages for wheel diameter 127 and 112mm, for models to a scale of 2,5 to 3,2

| | | |
|---------|--|--------|
| 9810A | assembled completely without wheel and bow | 144,00 |
| 9813A | assembled completely with FEMAwheels ^{plus} 112 mm diameter and bow | 178,50 |
| 9814A | assembled completely with FEMAwheels ^{plus} 127 mm diameter and bow | 180,50 |
| 9810/10 | wheel brake for wheel diameter of 112 mm | 32,50 |
| 9810/11 | wheel brake for wheel diameter of 127 mm | 32,50 |
| 9810/14 | Wheel cover from glass for wheel diameter of 112-127mm | 32,50 |
| 9810/15 | additional kit for spring-loaded mounting without gas pressure spring | 45,50 |

Retractable undercarriages for wheel diameter 100 and 90mm, for models to a scale of 3,3 to 3,7

| | | |
|---------|--|--------|
| 9820A | assembled completely without wheel and bow | 120,00 |
| 9823A | assembled completely with FEMAwheels ^{plus} 90 mm diameter and bow | 155,00 |
| 9824A | assembled completely with FEMAwheels ^{plus} 100 mm diameter and bow | 157,00 |
| 9820/10 | wheel brake for wheel diameter of 90 mm | 32,50 |
| 9820/11 | wheel brake for wheel diameter of 100 mm | 32,50 |
| 9820/14 | Wheel cover from glass for wheel diameter of 90-100mm | 29,00 |
| 9820/15 | additional kit for spring-loaded mounting without gas pressure spring | 45,50 |

Retractable undercarriages for wheel diameter 82 and 70mm, for models to a scale of 3,8 to 4,3

| | | |
|---------|--|--------|
| 9830A | assembled completely without VG-wheel and bow | 98,00 |
| 9833A | assembled completely with solid rubber-wheel 70mm diameter, AL-rim and bow | 117,00 |
| 9834A | assembled completely with solid rubber-wheel 82mm diameter, AL-rim and bow | 120,00 |
| 9830/10 | wheel brake for wheel diameter of 70 mm | 32,50 |
| 9830/11 | wheel brake for wheel diameter of 82 mm | 32,50 |
| 9830/14 | Wheel cover from glass for wheel diameter of 70-82mm | 26,00 |
| 9830/15 | additional kit for spring-loaded mounting without gas pressure spring | 45,50 |



FES/Retractable undercarriages for wheel diameter 127 and 112 mm, for models to a scale of 2.5 to 3,2

| | | |
|----------|---|--------|
| 9860/FES | assembled completely without wheel and bow. | 168,00 |
| 9863/FES | assembled completely with FEMAwheels ^{plus} 112mm diameter and bow. | 202,00 |
| 9864/FES | assembled completely with FEMAwheels ^{plus} 127mm diameter and bow | 205,00 |
| 9860/10 | wheel brake for wheel diameter of 112mm. | 38,50 |
| 9860/11 | wheel brake for wheel diameter of 127mm. | 38,50 |

Any other accessories are identical with the accessories for the product range of 9810A.

FES/Retractable undercarriages for wheel diameter 100 and 90 mm, for models to a scale of 3,3 to 3,7

| | | |
|----------|---|--------|
| 9870/FES | assembled completely without wheel and bow. | 144,00 |
| 9873/FES | assembled completely with FEMAwheels ^{plus} 90mm diameter and bow | 173,50 |
| 9874/FES | assembled completely with FEMAwheels ^{plus} 100mm diameter and bow | 175,50 |
| 9870/10 | wheel brake for wheel diameter of 90mm | 38,50 |
| 9870/11 | wheel brake for wheel diameter of 100mm | 38,50 |

Any other accessories are identical with the accessories for the product range of 9820A.

| Stock number | Item | Price in EURO/piece | | | | |
|--|---|-----------------------------|------------------|-----------------------|-------------------|-------|
| Accessories, suitable for all retractable undercarriages | | | | | | |
| 9890/200 | gas pressure spring, 200N springiness | 31,50 | | | | |
| 9890/300 | gas pressure spring, 300N springiness | 31,50 | | | | |
| 9890/400 | gas pressure spring, 400N springiness | 31,50 | | | | |
| 9890/20 | servo holder, suitable for all retractable undercarriages..... | 6,50 | | | | |
| 9890/22 | reversing lever for wheel brake, suitable for all retractable undercarriages..... | 10,50 | | | | |
| Tuning parts suitable for all retractable undercarriages | | | | | | |
| 9890/60 | Z-shaped servo mount, suitable for all standard servos, 40 x 20 mm | 15,80 | | | | |
| 9890/62 | Angled clevis with threaded rod M3 | 13,20 | | | | |
| 9890/64 | L-shaped servo mount, suitable for all standard servos 40 x 20 mm..... | 14,80 | | | | |
| Service parts suitable for all retractable undercarriages | | | | | | |
| 9800/16 | Axle with accessories | 16,00 | | | | |
| 9810/16 | Axle with accessories | 12,00 | | | | |
| 9820/16 | Axle with accessories | 10,00 | | | | |
| 9830/16 | Axle with accessories | 9,00 | | | | |
| 9890/25 | Wheel bracket (please specify the wheel diameter when placing your order) | 10,50 | | | | |
| 9890/30 | Control arm made from aluminium for the series 9830A and 9820A | 12,50 | | | | |
| 9890/31 | Control arm made from aluminium for the series 9810A | 12,50 | | | | |
| 9890/32 | Control arm made from aluminium for the series 9800A | 12,50 | | | | |
| Solid rubber wheel with AL-rim and 5.1 mm boring | | | | | | |
| | diameter | wheel width | hub width | weight | hub boring | |
| 9910/70 | 70 mm..... | 24 mm | 18 mm | 30 gr. | 5,1 | 11,50 |
| 9910/82 | 82 mm..... | 28 mm | 20 mm | 45 gr. | 5,1 | 13,75 |
| FEMAwheels plus with GFRP-rims and AL-hub with 6,1/8,1mm boring | | | | | | |
| 9920/90 | 90 mm | 32 mm..... | 40 mm..... | 95 gr.,,,,,,,,,,,,,, | 6,1 | 21,50 |
| 9920/100 | 100 mm | 36 mm..... | 40 mm..... | 105 gr.,,,,,,,,,,,,,, | 6,1 | 22,50 |
| 9920/112 | 112 mm | 40 mm..... | 40 mm..... | 135 gr.,,,,,,,,,,,,,, | 6,1 | 24,00 |
| 9920/127 | 127 mm | 44 mm..... | 44 mm..... | 175 gr.,,,,,,,,,,,,,, | 6,1 | 27,50 |
| 9920/140 | 140 mm | 48 mm..... | 44 mm..... | 220 gr.,,,,,,,,,,,,,, | 6,1 | 31,50 |
| 9920/152 | 152 mm | 50 mm..... | 44 mm..... | 270 gr.,,,,,,,,,,,,,, | 8,1 | 35,00 |
| 9920/165 | 165 mm | 53 mm..... | 44 mm..... | 310 gr.,,,,,,,,,,,,,, | 8,1 | 38,00 |
| 9920/178 | 178 mm | 56 mm..... | 44 mm..... | 350 gr.,,,,,,,,,,,,,, | 8,1 | 41,00 |
| Axles for models with engine | | | | | | |
| 9940 |2 pcs tempering steel axles 6mm for models up to a weight of 15 kg | 19,50 | | | | |
| 9942 |2 pcs tempering steel axles 8mm for models up to a weight of 30 kg | 24,50 | | | | |
| gas pressure spring suitable for all retractable undercarriages | | | | | | |
| 910 | gas pressure spring 50N | spring deflexion 20mm | 29,50 | | | |
| 911 | gas pressure spring 100N | spring deflexion 20mm | 29,50 | | | |
| 912 | gas pressure spring 150N | spring deflexion 20mm | 29,50 | | | |
| 913 | gas pressure spring 200N | spring deflexion 20mm | 29,50 | | | |
| 914 | gas pressure spring 300N | spring deflexion 20mm | 29,50 | | | |
| 915 | gas pressure spring 400N | spring deflexion 20mm | 29,50 | | | |



| Stock number | Item | Price in EURO/piece |
|--------------|------|---------------------|
|--------------|------|---------------------|

Complete sets for easy product selection.

For easy product selection, we recommend our complete sets.
The complete set contains all the components you need for installation.
(See also www.fema-modelltechnik.de/completesets)

| | |
|----------------|---|
| 9814A/ASG-29 | Tangent, 6m wingspan and comparable models, 378,00 with wheel brake, wheel cover and mounted spring. Please specify model weight when ordering. |
| 9864FES/ASG-29 | Tangent, 6m wingspan and comparable models, 406,00 with wheel brake, wheel cover and mounted spring. Please specify model weight when ordering. |
| 9824A/ASH-26 | Tangent, 5m wingspan and comparable models, 330,00 with wheel brake, wheel cover and mounted spring. Please specify model weight when ordering. |
| 9874FES/ASH-26 | Tangent, 5m wingspan and comparable models, 354,00 with wheel brake, wheel cover PP and mounted spring. Please specify model weight when ordering. |
| 9834/ASH-31 | Mi Tangent, 4,5m wingspan and comparable models, 225,00 with wheel brake and wheel cover. |

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