

EP-MARATHON – RUNFLAT SYSTEM

MADE IN GERMANY –
FOR THE TOUGHEST
CONDITIONS.



www.europlast-nycast.de



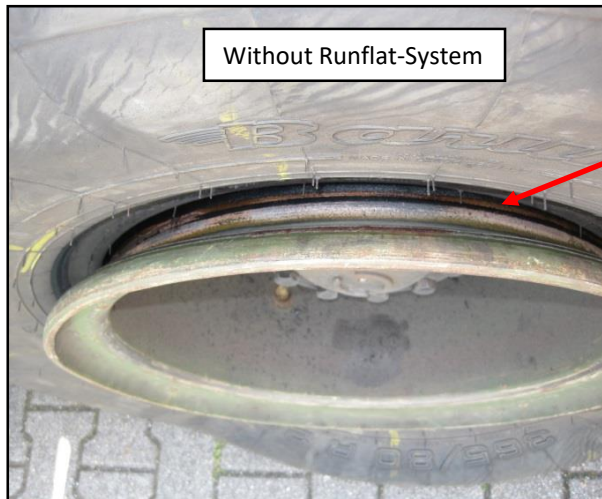
EUROPLAST – NYCAST GmbH

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Wheels without
air pressure with
built in
EP Runflat-Systems



Wheels without Runflat-
Systems with tire beads
slipping from the rim flange.



**"Mobility" means a high level of protection:
Emergency running systems are a normal
standard in wheels of specially protected
vehicles.**

**Europlast-Nycast GmbH has
the right emergency system
from 14" to 27" for all
requirements.**

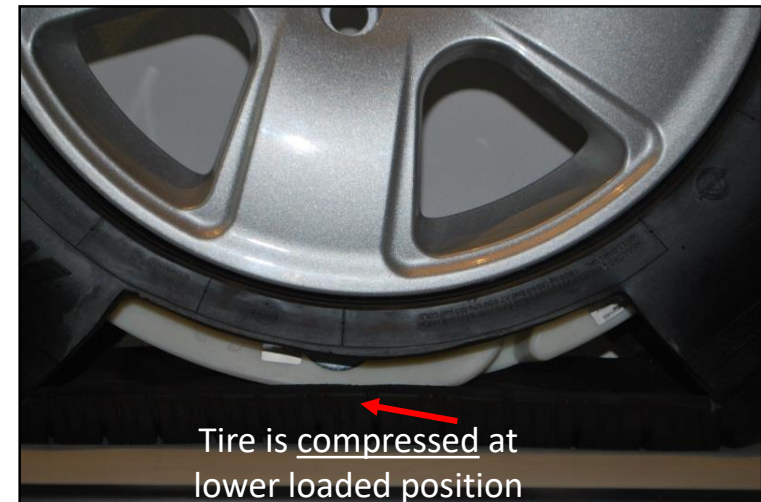


Use of the systems in various types of vehicles





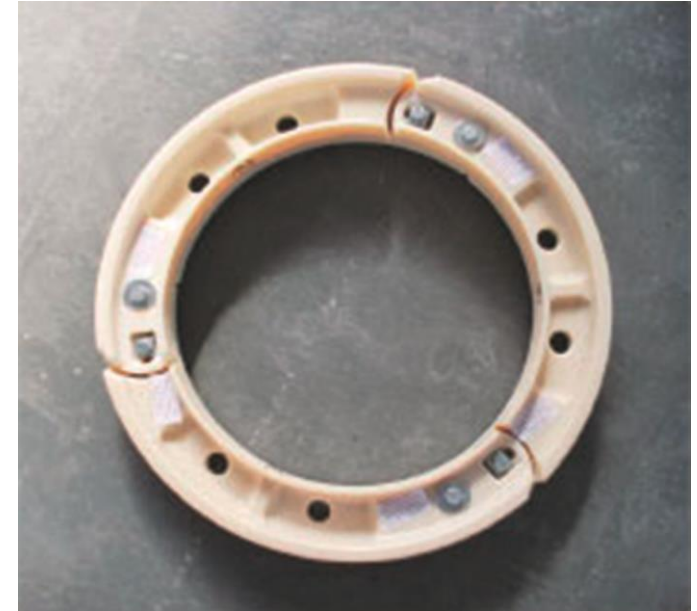
In an **emergency running situation (airless tire)**, the tire does a flexing job between the upper unloaded and the lower loaded circumferential position with every rotation of the wheel. This leads to a destruction of the tire. A correctly dimensioned run-flat system helps to minimize this cause of tire failure.



2-parts



3-parts



The company Europlast-Nycast uses for its emergency systems a highly resilient, impact-resistant material.

An elastomer modified cast polyamide.

These systems have the same outer dimensions but a smaller volume than competitive products and are therefore lighter.



Casting the blanks



Fluoroscopic testing



Rim profile measurement



Production of the Runflat - Systems

Mechanical finishing on
CNC Machines





Assembly machines

Tests carried out so far



Overview Runflat Testing



Runflat as multi-part system made of elastomer modified cast polyamid																
Wheel Size	rim		Tire size	Load (kg)	Runflat Ø	with Gunfire	Test Procedure Driving (Distance result)					Rolling fatigue test		Date	Testing center *	Comment
	size	design *	Tire brand	Weight	FINABEL A.20.A		FINABEL 20.A.5	50 km/h	other	A.20.A	50 km/h					
16"	16 x 6"	O	225/75 R16C Pirelli Carrier	1.400 kg	570 mm 8 kg								43 km	03/2019	TÜV	
17"	17 x 8"	O	265/65 R17 Bridgestone Dueller	1.400 kg	590 mm 8 kg				57 km					01/2016	ATP TÜV	
17,5"	17,5 x 6,75"	O	245/75 R17,5 Bridgestone M729	2.400 kg	655 mm 15 kg					80 km *				09/2017	ATP	* 50 km mit 26 km/h 30 km mit 40 km/h
18"	18 x 8,5"	O	275/65 R18 Cooper Disc. A/T	1.620 kg	630 mm 11 kg				50 km					12/2015	ATP TÜV	
18"	18 x 8,5"	O	275/70 R18 JRZ Maxxis Bravo	2.050 kg	690 mm 18 kg						100 km			11/2018	TÜV	
20"	20 x 10"	M	385/85 R20 Pirelli Pista	4.140 kg	830 mm 32 kg		81 km							07/2015	ATP TÜV	Version with crushing grooves
20"	20 x 10"	M	14.00 R20 Michelin XZL	4.520 kg	920 mm 47 kg		115 km							01/2016	ATP TÜV	Version with crushing grooves
20"	20 x 10"	M	14.00 R20 Michelin XZL	4.500 kg	920 mm 47 kg		104 km							03/2020	ATP	Version with later spacer elastics rings
20"	20 x 10"	M	395/85 R20 Michelin XZL	5.600 kg	885 mm 53 kg	x		60 km						06/2020	ATP	Version with later spacer elastics rings
20"	20 x 10"	M	395/85 R20 Michelin XZL	5.620 kg	885 mm 53 kg	x	135							07/2020	ATP	Version with later spacer elastics rings
Comment: Rim design: O = One Pieces drop centre rim M = Multi pieces flat base rim																
All tests are stopped due to defective tires. The Runflats were still intact and could have been driven further.																
* Testing Center and Certification Institute: "ATP" Automotive Testing Papenburg GmbH in Papenburg - Germany "TÜV" TÜV NORD Mobilität GmbH & Co. KG in Essen - Germany																

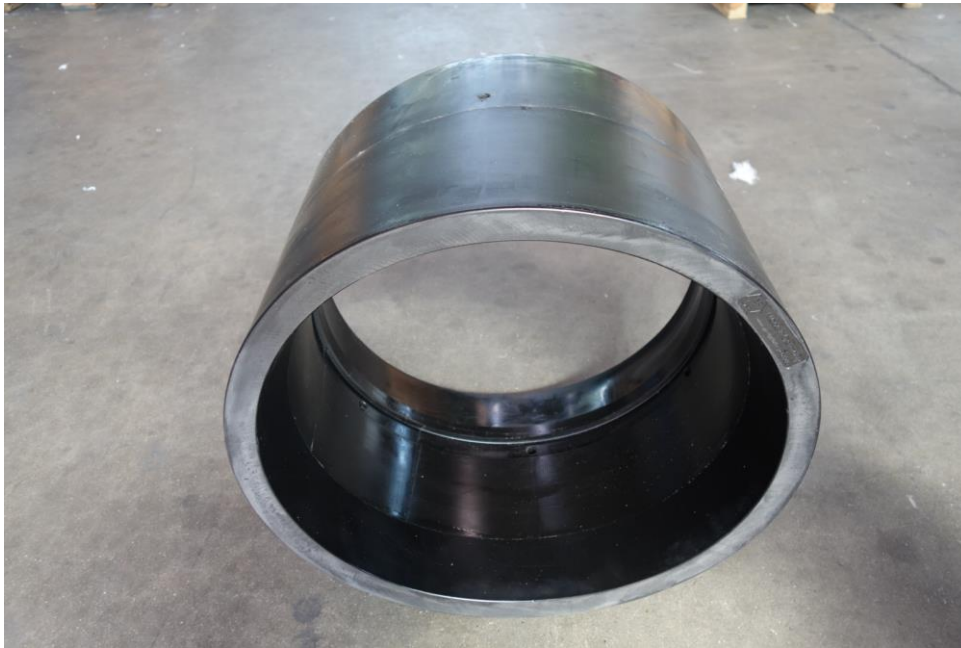


Extract from our reference list

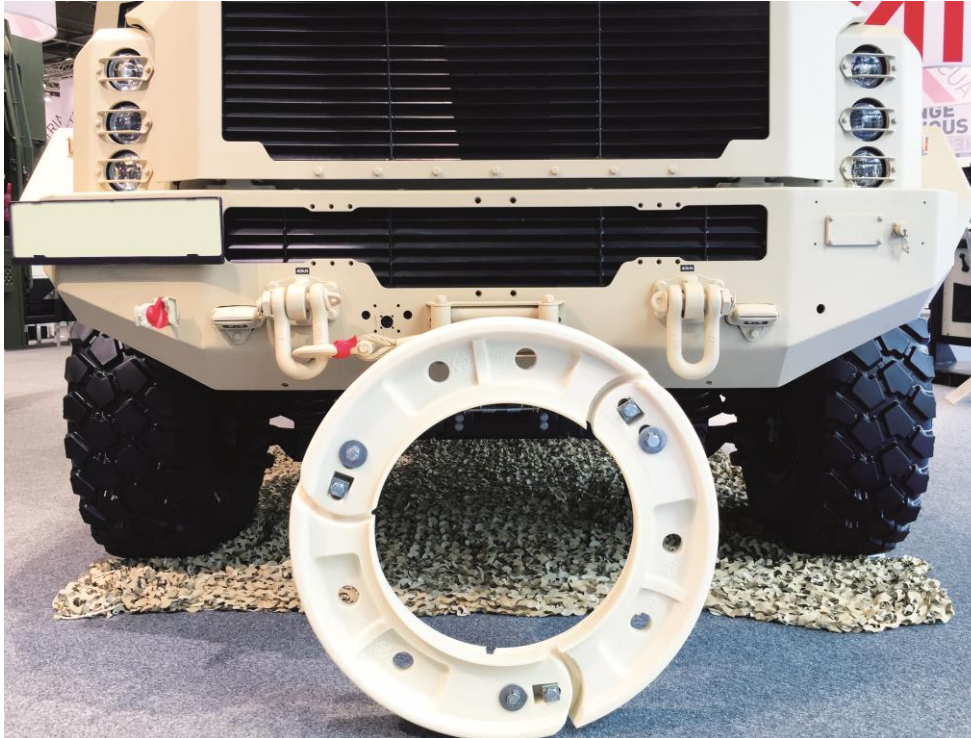
15"	Mahindra Innova	15 x 6"	single piece		
	Mahindra Bolero	15 x 6"	single piece		
	Peugeot Boxer	15 x 6"	single piece		
	Toyota Hilux	15 x 7"	single piece		
16"	Iveco Daily	16 x 5"	single piece		
	MB Sprinter, VW-Crafter	16 x 5,5"	single piece		
	Isuzu Coaster	16 x 5,5"	single piece		
	Toyota Hilux / Corolla, MB-Sprinter	16 x 6"	single piece		
	Fiat Ducato	16 x 6"	single piece		
	VW - T5	16 x 6,5"	single piece		
	Ford Transit	16 x 6,5"	single piece		
	MB Sprinter, TLC 76	16 x 6,5"	single piece		
	Land Rover Defender 110	16,5"	TLC 100	16,5x9"	single
	GMC Savana	17"	Toyota Landcruiser 180	17 x 6,5"	single
	SHIBL 1		Toyota Avalon	17 x 7"	single
			Toyota Landcruiser 200	17 x 7"	single
			Toyota Hilux	17 x 7"	single
	Toyota Landcruiser 79		Jeep J8, Toyota Prado, Ford F350	17 x 7,5"	single
	Ford E350		Toyota Fortuner, Mitsubishi	17 x 7,5"	single
Jeep Wrangler	Toyota Landcruiser 200		17 x 8"	single	
Ford Ranger	Toyota Landcruiser 200		17 x 8"	single	
MB - G Wagon	Toyota Landcruiser 200		17 x 8"	single	
Toyota Landcruiser 79 /	Toyota Landcruiser 200		17 x 8"	single	
Toyota Landcruiser 79 /	Toyota Landcruiser 200 APC	17 x 8"	single		
SHIBL 2, Nissan Patrol, T	Toyota Landcruiser 200	17 x 8,5"	single		
MB - Sprinter	17,5"	Isuzu Coaster	17,5 x 6"	single	
Armoured vehicles LMV		MAN	17,5 x 6,5"	single	
		MB Sprinter	17,5 x 6,75"	single	
		Armoured Bus	17,5 x 6,75"	single piece	
			17,5 x 7,5"	single piece	
	18"	Toyota Landcruiser 200	18 x 7,5"	single piece	
		Scorpion	18 x 7,5"	single piece	
		Grand Cherokee	18 x 8"	single piece	
		Toyota Landcruiser 200, Nissan Patrol	18 x 8"	single piece	
		APC	18 x 8"	single piece	
		Ford Expedition	18 x 8,5"	single piece	
		Mercedes Benz - G	18 x 8,5"	single piece	
		Toyota Lexus LX570	18 x 8,5"	single piece	
		Toyota Landcruiser 200	18 x 8,5"	single piece	
		Toyota Landcruiser 200	18 x 8,5"	single piece	
		Toyota Landcruiser 200	18 x 8,5"	single piece	

19"	Personal Bus	19 x 7,5"	single piece	245/55 R19	China
	Mercedes S - Class	19 x 8,5"	single piece	275/55 R19	Germany
19,5"	Ford F350	19,5 x 6"	single piece	225/70 R19,5	U.A.E.
		19,5 x 6"	single piece	225/75 R19,5	U.A.E.
		19,5 x 7,5"	single piece	275/70 R19,5	Germany
	Armoured Bus	19,5 x 7,5"	single piece	285/70 R19,5	Türkei
	Ford F550	19,5 x 8,25	single piece	305/70 R19,5	Israel
20"	Toyota Lexus	20 x 8"	single piece	275/60 R20	U.A.E.
	Toyota Lexus	20 x 8,5"	single piece	265/60 R20	Germany
	GMC Yukon Denali, MB G-Modell	20 x 8,5"	single piece	275/55 R20	Germany, U.A.E.
	MB G-Modell	20 x 9,5"	single piece	275/50 R20	Germany
	Armoured vehicles	20 x 10"	multi-piece	14.00 R20	Finnland, Germany, U.A.E.
	Armoured vehicles	20 x 10"	multi-piece	335/80 R20	U.A.E.
	Armoured vehicles	20 x 10"	multi-piece	365/85 R20	Ägypten, Austria, U.A.E.
	Armoured vehicles	20 x 10"	multi-piece	395/85 R20	Austria, Ukraine, Süd Afrika, U.A.E
	Ford F550	20 x 11"	multi-piece	335/80 R20	India, Israel, Süd Afrika, U.A.E.,
Armoured vehicles	20 x 11"	multi-piece	365/80 R20	Austria, Tschechien	
22,5"	Personal Bus	22,5 x 6,75"	single piece	255/80 R22,5	China
	MB - Atego	22,5 x 7,50"	single piece	275/70 R22,5	Germany
	Personal Bus	22,5 x 7,50"	single piece	275/80 R22,5	China
	Personal Bus	22,5 x 8,25"	single piece	295/80 R22,5	China, Germany, Israel, Taiwan
	MAN - TGS	22,5 x 9"	single piece	315/60 R22,5	Spain
	Fire Engine, Armoured vehicles	22,5 x 9"	single piece	315/80 R22,5	Austria, China, Germany, Honkong, Israel, Spain, U.A.E.
	Armoured vehicles	22,5 x 9"	single piece	13.00 R22,5	Germany, India
	MAN - TGS	22,5 x 11,75"	single piece	385/60 R22,5	Spain
	Fire Engine, Armoured vehicles	22,5 x 11,75"	single piece	385/65 R22,5	Austria, Germany, Hongkong
	Fire Engine	22,5 x 14"	single piece	445/55 R22,5	U.A.E.
25"	Fire Engine	25 x 14"	multi-piece	445/80 R25	Austria
27"	Armoured vehicles Boxer	27 x 9"	multi-piece	418/80 R685	Germany

Expanding (Beadlock) Rings



Contact person



Your contact person is always available for you at short notice:

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oder

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Please specify in your inquiry:

- Quantity
- Wheel load
- Rim size
- Tire size



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