

PONSSE BISON ACTIVE FRAME

***FASTER, STRONGER,
MORE PRODUCTIVE!***

BISON





PONSSE BISON ACTIVE FRAME

NEXT GENERATION PRODUCTIVITY

Unbeatable powerhouse for long transport distances

Speed and efficiency – first-rate productivity! The next generation PONSSE Bison Active Frame forwarder is here. Unprecedented in the field, the CVT power transmission and Active Frame cabin suspension system raise productivity to an entirely new level, especially when transporting long distances.

The modern engine, powerful loader and robust powertrain makes the Bison Active Frame an unbeatable powerhouse for timber transport.



PONSSE BISON ACTIVE FRAME

LONG-DISTANCE SPRINTER

Experience the higher tractive force and stepless power transmission of the CVT drive.

The new PONSSE Bison Active Frame demonstrates its superiority especially over long transport distances. With the new CVT power transmission matching the driving speed and engine load to the situation, high productivity can be achieved at low fuel consumption.

Experience higher torque and stepless power transmission of the CVT drive – no more stops for switching between high and low gear operation. The new

type of power transmission reduces fuel consumption. A truly unique powerhouse was created by combining these advantages with the modern high-torque Mercedes-Benz engines.

The load bearing capacity of the Bison Active Frame is 16 tonnes. The large load space combined with the powerful and easy-to-use loader ensure efficient load handling at all work sites.

TORQUE
UP TO **1200**
Nm

LOAD-BEARING
CAPACITY
16
TONNES



FEATURES

We manufacture the most productive and economical forest machines on the market. We continue to develop new technology and winning features for our machines.



LOADERS

Options PONSSE K90+ (7.8/10 m),
K100+ (7.8/9.5 m),
K101 (8.1/10 m),
K111 (8.1/10 m).

POWER TRANSMISSION

Unprecedented in the field, the CVT drive ensures that the Bison Active Frame boasts more practical tractive force than ever before, enabling faster forest haulage. This improves the machine's productivity, especially when driving long distances.

ERGONOMICS

Ergonomics and ease of operation have a massive impact on work productivity. The cabin provides plenty of storage space, the most ergonomic controls on the market and the excellent visibility PONSSE forest machines are known for.

ENGINE

In the European area, the machines come with a next generation Mercedes-Benz/MTU with more power and torque (210 kW / 1,200 Nm). The low-emission Stage V engine reduces the environmental load and provides more performance!

SERVICEABILITY

Effortless serviceability is achieved with better positioning of service points, service lighting and safe service platforms. In addition to this, the high-quality components enable an exceptionally long maintenance interval.

BULLDOZER BLADE

PONSSE Bison frame is designed to withstand high stress in various operating conditions which enables it to be equipped with a front mounted bulldozer blade. The blade is an optional feature.

ACTIVE FRAME

PONSSE Bison Active Frame boasts the PONSSE Active Frame cabin suspension system. Thanks to the dual frame structure, the swinging and swaying motions are eliminated very effectively.

FRAMES

Simple and robust frame structure. Alongside reliability, the structures account for the functional positioning and serviceability of components.

CABIN

THE BEST OFFICE VIEW IN THE BUSINESS

First-rate ergonomics and large windows – just step on the gas and watch the landscapes fly by

The PONSSE Bison Active Frame cabin is your vantage point to the latest in forest machine technology. It is a work environment for professionals who value comfort, safety and ergonomics. The control devices are the best you will find in forest machines in terms of their ergonomics. The large cabin, expansive windows and thin window pillars ensure excellent visibility in all directions. On request, the cabin can also be equipped with the best forest machine seat in the world, PONSSE Seat. Together with the Active Frame cabin suspension system, it makes the cabin an extremely comfortable working environment.



PONSSE SEAT

The breathable fabric and ergonomic seat supports, guarantee improved working comfort. Seat fabric is especially durable and the dirt repellent surface makes cleaning effortless. A strong base provides the seat with superior reliability and stability. Thanks to the suspension specifically designed for forest machines, the PONSSE Seat effectively decreases swinging and impacts towards the operator. All adjustment controls are conveniently located at the front of the seat cushion. The removable cushion gives easy access to the seat base for maintenance.



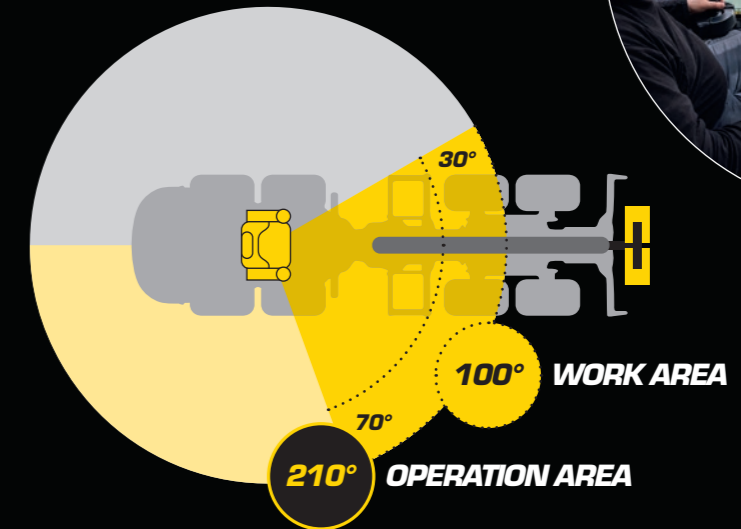
FIRST-CLASS CONVENIENCE

PONSSE ACTIVE SEAT

PONSSE Active Seat provides a full view straight on the job, at all times. It accomplishes this through technology where the operators seat automatically follows the tip of the loader while working. This results in a lot less head movement which significantly contributes to both driver well-being and operating efficiency.

The automatic rotation function covers the entire 100-degree working area. In addition, the operator can manually control the seat: this increases rotation span to 210 degrees, enabling convenient driving to the roadside.

Thanks to our advanced technology, only the seat needs to rotate to keep track of the loader. Should the entire cab have to rotate, a lot heavier burden would be put on the forwarder's structure. In addition, it enables having a larger cab for improved operating convenience and better look at all directions.



PONSSE FORWARDER EXTRA DISPLAY

Quite often, having another viewpoint on what is happening out there helps – especially when you have to make accurate decisions quickly. PONSSE Forwarder Extra Display mirrors the content of the mounted Opti display which is left behind the driver's back when the forwarder is moving to the direction of the engine. This frees the driver from the need to constantly turn around, contributing significantly to the forwarder's smooth movement and operational safety.



CVT – CONTINUOUSLY VARIABLE TRANSMISSION

DRIVE AT ANY SPEED WITHOUT STOPPING

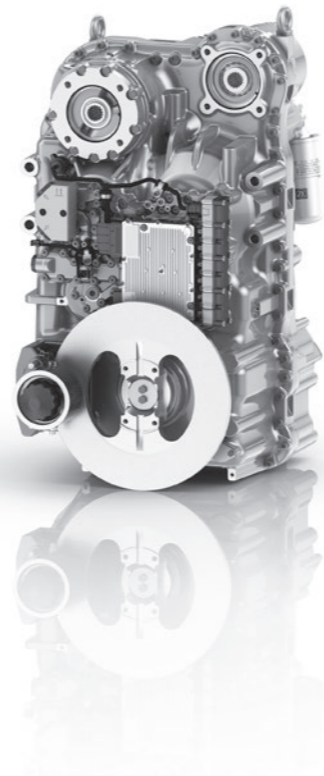
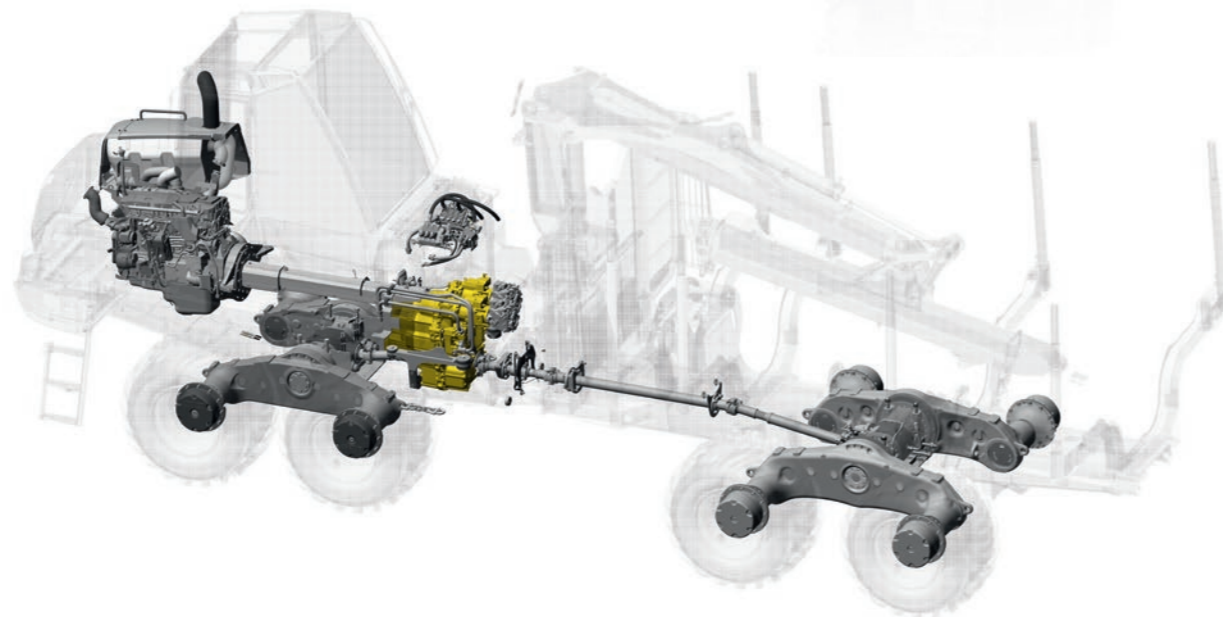
For demanding terrain and challenging conditions – CVT technology provides higher tractive force.

You can now switch to any speed without having to stop – naturally depending on the driving situation.

The new kind of power transmission featured in PONSSE Bison Active Frame is based on CVT technology, which changes gear ratio steplessly. This means that the traditional switching between the slow and fast gear is no longer necessary.

In a machine with CVT transmission, the traditional hydrostatic power transmission can be replaced with a separate CVT gear system. This enables lower fuel consumption and higher torque.

The benefits of high torque are revealed especially when driving up steep hills or in soft terrain or deep snow.



MERCEDES-BENZ STAGE V

CLEANER AND MORE EFFICIENT

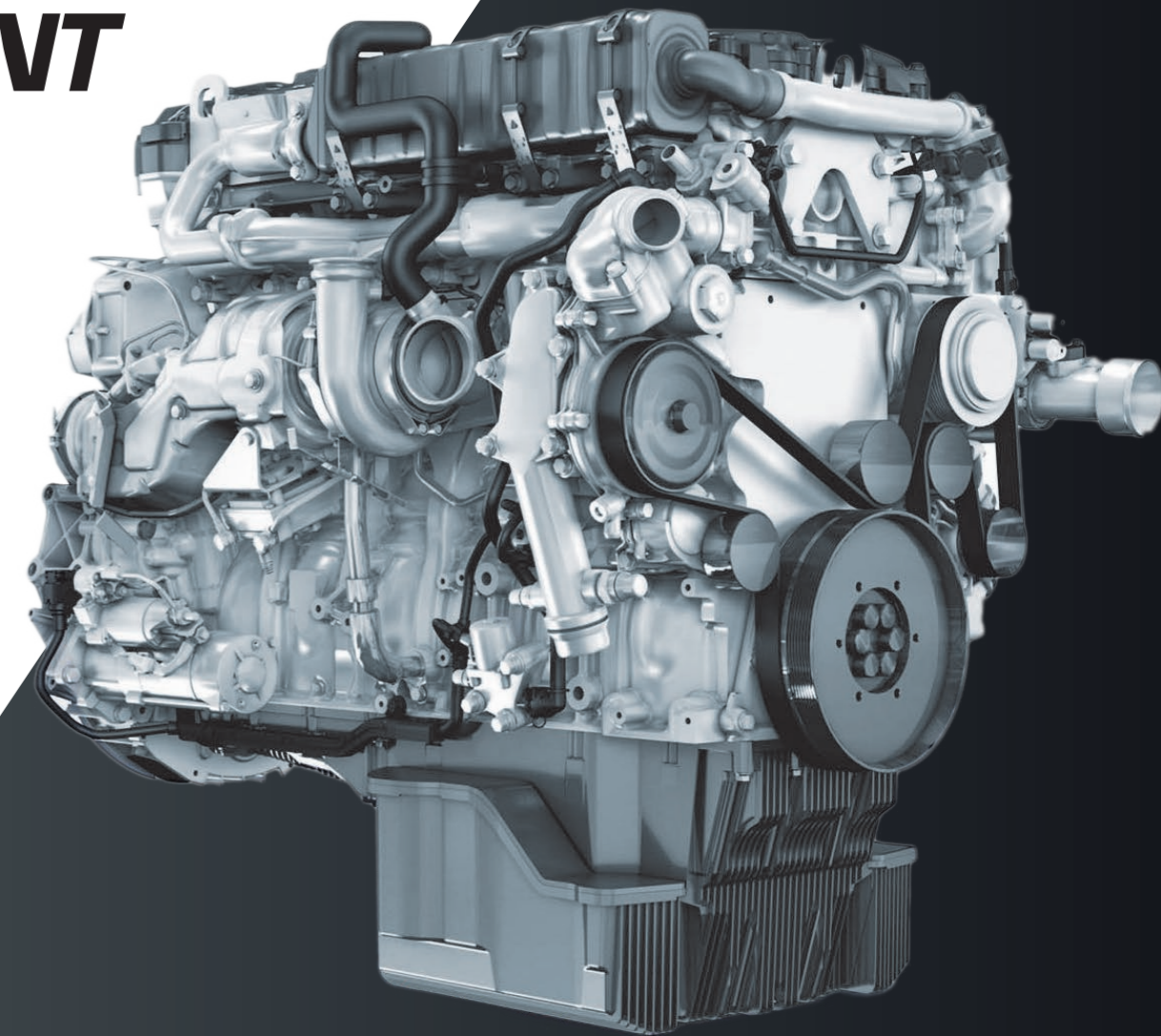
Explosive power and increased torque.
Lower emission level and fuel consumption.

The new Mercedes-Benz STAGE V emission engines are efficient and economical. The torque has been increased, and maximum torque can be reached at lower engine speeds.

The Mercedes-Benz STAGE V emission engines are modern, low-emission engines with significantly lower particulate matter (PM) and nitrogen oxide (NOx) emissions compared to engines of the previous emission levels (STAGE III and IV).

In addition to particulate matter, the STAGE V engines also now control particulate volume with a particulate filter (DPF).

Outside Europe an EU Stage/Tier 4F or Stage IIIA level Mercedes-Benz engines are used depending on market specific emission requirements.



EXTREME COMFORT AT HIGH SPEEDS

TOP PRODUCTIVITY HOUR AFTER HOUR

Unparalleled comfort and first-rate control.

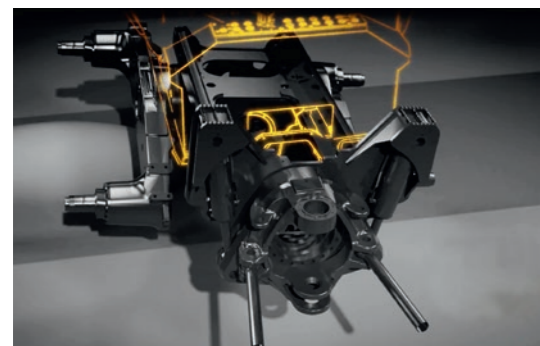
Active Frame helps the driver keep alert and productive.

PONSSE Bison Active Frame features robust frame structures. Easy maintenance has been taken into account in the positioning of the components and maintenance targets. In addition to this, the machine's extremely long maintenance intervals increase effective operating hours and reduce maintenance costs.

Even at increased speeds, excellent driver comfort and machine handling are maintained. Ponsse's proprietary

Active Frame cabin suspension system ensures that lateral swings affecting the driver are eliminated in an efficient and unnoticeable manner.

The structurally simple yet effective system ensures an exceptionally comfortable ride. The driver's body is subjected to significantly less stress than ever before. The Active Frame system helps the driver keep alert and productive for hours on end, even at high speeds.



PONSSE MANAGER

REAL-TIME MANAGEMENT

PONSSE Manager connects forest machines to an information network.

PONSSE Manager, the modern digitalisation platform for forest machines, enables comprehensive services now and in the future. The easy-to-use tool offers assistance in harvesting equipment maintenance and work planning, along with providing access to extensive reporting functions.

PONSSE Manager provides comprehensive real-time information on equipment performance and work site status. The solution can be easily used via a smartphone, tablet or computer.



PONSSE BOOST/SAVE

INCREASED EFFICIENCY AND ECONOMY

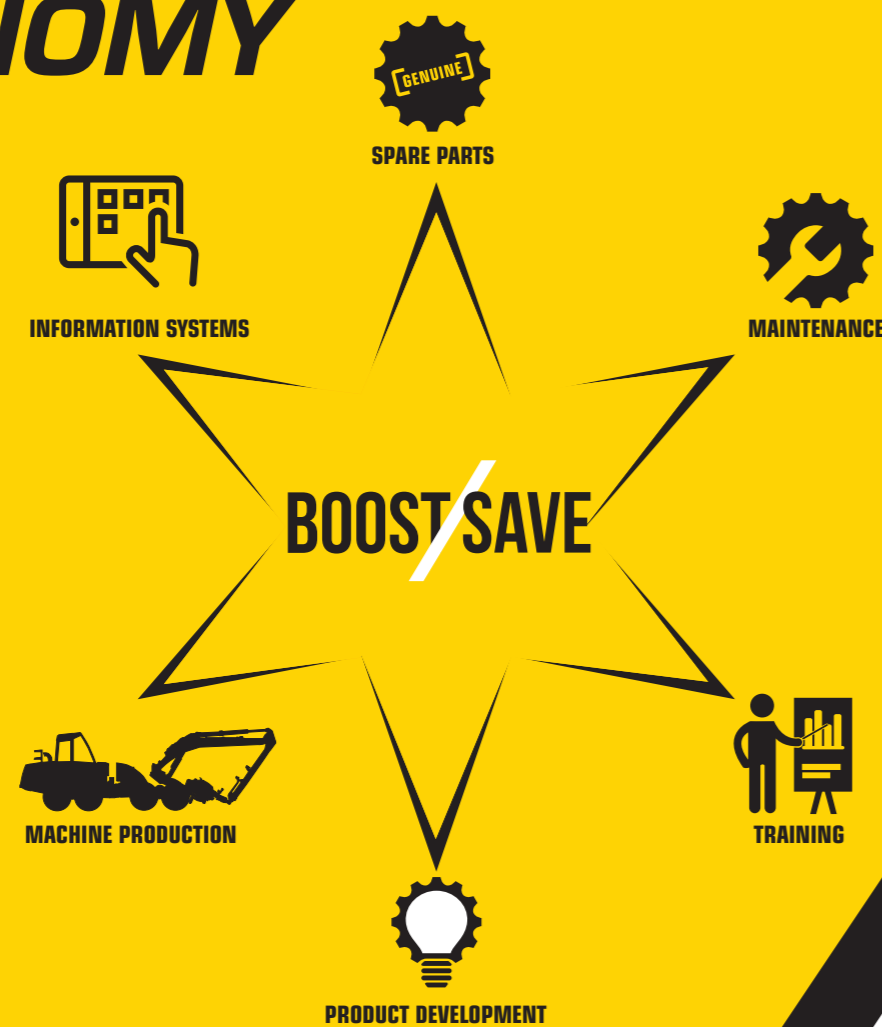
Our aim is to manufacture the most productive and economical forest machines on the market. We call this the PONSSE Boost/Save operating model.

Maximum productivity, lower fuel consumption and lower environmental load – we ensure these benefits through our products, information systems, training and correct maintenance.

PONSSE is committed to long-term development and strives to continuously improve the efficiency of all products and services.

PONSSE has incorporated a great deal of new technology in its new forest equipment from base machines to control systems. A tool for the real-time management of forest machine companies' operations, PONSSE Manager is an example of a new product in the control systems segment. In base machines, updates have been made to hydraulic systems, for example, by reducing the flow of hydraulic oil and system losses by technical means.

The working environment of forest machine drivers has been improved by launching PONSSE Seat, which is manufactured exclusively for PONSSE forest machines. These new products have further improved the productivity and economy of PONSSE forest machines.



PONSSE BISON ACTIVE FRAME

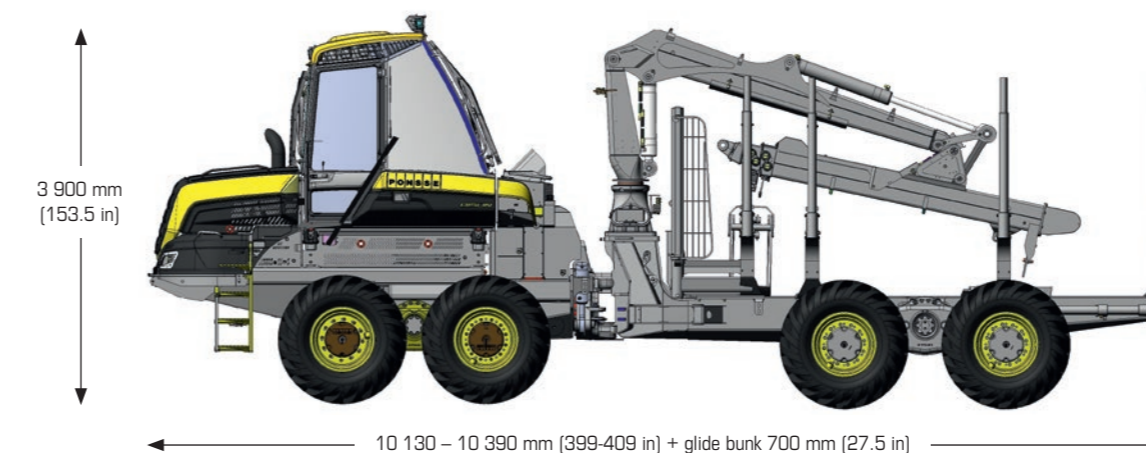
DIMENSIONS	
Length:	10 130 – 10 390 mm (399-409 in) + glide bunk 700 mm (27.5 in)
Width:	2 950 – 3 090 mm (116 -122 in)
Transport height (max):	3 900 mm (153.5 in)
Unladen weight:	22 000 kg (48,500 lbs)
Typical weight:	22 600 kg (49,824 lbs)
Ground clearance:	680 mm (27 in)
ENGINE	
Model:	MB OM 936 LA EU Stage V MB OM 936 LA EU Stage V/Tier 4F MB OM 906 LA Stage IIIA
Power:	EU Stage V & EU Stage V/Tier 4F: 210 kW (286 hp) Stage IIIA: 205 kW (275 hp)
Torque:	1 200–1 600 rpm (EU Stage V & EU Stage V/Tier 4F: 1 200 Nm, Stage IIIA: 1 100 Nm)
Tractive force:	210 kN (47,210 lbf)
Fuel tank volume:	215 l (56.8 gal US)

TYRES	
Front and back:	26,5"
HYDRAULIC SYSTEM	
Steering system:	PONSSE Opti Control
Working pumps:	2 x 80 cm ³
Oil tank volume:	115 l (30 gal US)

GRAPPLE	
Model:	Several different grapple alternatives

LOAD SPACE	
Capacity:	16 000 kg (35,274 lbs)
Load space	
cross-sectional area:	4,5 - 5,5 m ² (48–59 sq ft)
VLA:	4,5 - 6,0 m ² (48–65 sq ft)
Load space length:	4 540 - 5 450 mm (179-214 in) + glide bunk 700 mm (27,5 in)

LOADER				
Model:	K90+	K100+	K101	K111
Lifting moment:	140 kNm (103.259 lb-ft)	160 kNm (118.009 lb-ft)	140 kNm (103.259 lb-ft)	160 kNm (118.009 lb-ft)
Reach:	S / M 7.8/10 m (26/33 ft)	S / M 7.8/9.5 m (26/31 ft)	S / M 8.1/10 m	S / M 8.1/10 m



The manufacturer reserves the right to make technical changes and improvements.



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A logger's best friend
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