



NEW DIMENSIONS OF SITTING COMFORT.

PRIMO[®]

*Premium Seats for Forklift Trucks
and Compact Construction Machines.*



**The world's most
compact low-profile seat
with low-frequency
suspension.**

New textile design



GRAMMER



THE SITTING CONCEPT FOR FEELING YOUR BEST.



A New Dimension of Comfort with Low-Profile Suspension

The Primo® product family from GRAMMER embodies an innovative sitting concept that is unrivalled anywhere in the world. Now, for the first time, there is a seat for forklift trucks and construction machines featuring full low-profile suspension, available in both pneumatic and mechanical versions, the latter including a quick weight adjustment function. The Primo® M has the lowest seat index point of any seat with full suspension, at just 200 millimeters. Among low-profile air suspension systems, the Primo® XL and the Primo® XXL set a new record with a seat index point of 238 mm and are now additionally equipped with the innovative low-frequency suspension. They are designed for outstanding comfort while saving space at the same time.

Perfectly Supported in Every Direction

The wide, ergonomic cushions of the Primo® and its height- and angle-adjustable armrests optimally support the body. So does the backrest, the angle of which can be varied between -5° and $+30^{\circ}$. The Primo® also provides firm support when driving backward: the backrest is asymmetrical, tapering on the right-hand side so it's easy to turn around in the seat. For the sensitive lower back, all Primo models come with lumbar support. The backrest height can also be adjusted through 13 steps by up to 170 mm to suit every body size and work situation.

Quick Achievement of the Ergonomically Best Sitting Position

Genuine comfort can only be had from a seat that is optimally adjusted to its occupant's body. But what if the driver isn't familiar with all of the seat's functions and therefore doesn't use them properly? GRAMMER has solved this problem with its innovative "Design for Use" concept. All controls are located where the driver can intuitively find them. Each has a different shape to prevent confusion. This lets every user quickly and easily set the seat to suit their personal needs without having to study the manual first.



Adjustable Backrest Height

An integrated backrest extension lets every user sit comfortably and prevents poor posture from causing injuries, since its height can be adapted to their body height. It is adjustable in 13 steps from 475 to 645 mm.

Asymmetrical Backrest

The asymmetrical shape of the backrest provides more elbow room on the right-hand side and full back support on the left-hand side of the seat. This makes driving backward a more comfortable experience.

**Foldable Armrests
with adjustable angle**

80 x 380 mm
(optional)

**Active Climate System,
incl. Heating**

**Fore/Aft
Adjustment**

210 mm

Flexible Seat Cushion Angle

Variable Seat Cushion Depth

Active Electronic Weight Adjustment

45 - 170 kg

Electronics and sensor technology to automatically adjust to the optimal suspension settings to eliminate shocks and vibrations whenever there is even a minimal change in weight - eliminating improper adjustments.

Fore/Aft Isolator (optional)
minimizes Vibrations when driving
fast or in difficult areas



The model shown may differ from the standard configuration.

PRIMO® EVOLUTION

Practical Document Box

(optional)

Adjustable Lumbar Support

For the sensitive lower back, the Primo® is the world's first compact low-profile seat with lumbar support. Easy to adjust to suit each user, it pleasantly buttresses the back while preventing disk injuries.

Backrest with Adjustable Angle

adjustable from -5° bis +30°
in steps of 2,5°

Integrated Restraint System

Adjustable Backrest Height (optional)

Asymmetrical Backrest

Seat Heating (optional)

Foldable Armrests (optional)

folding and adjustable inclination

Integrated Restraint System

(optional)

THE PRIMO® MODELS HAVE A LOT IN COMMON.

OPS (Operator Presence Switch)



Low-Frequency Suspension

The GRAMMER Innovation: a new pneumatic low-frequency suspension with integrated compressor for forklift trucks and compact construction machines. The low-frequency suspension with 110 mm suspension stroke improves the suspension comfort by 20 % compared to the proven air suspension.

The result: a substantial gain in suspension comfort for exemplary protection from health hazards. It also complies with the EU directive on whole-body vibration (2002/44/EC), which has already been enacted as a national law.

Very Low-Profile Mechanical Suspension

with 80 mm deflexion

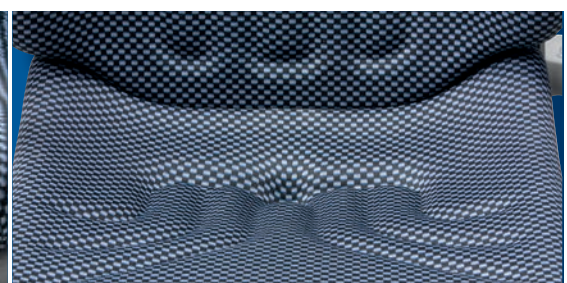
Fore/Aft Adjustment

210 mm

Quick Weight Adjustment

"Design for Use"

Every PRIMO® model is based on the "Design for Use" concept GRAMMER has developed to make its products as easy to use as possible. The underlying idea: all of the controls are shaped and placed according to a logical system that drivers can intuitively figure out. They can learn in no time to optimally adjust the seat to suit their particular body dimensions and needs.





Practical Document Box
(optional)

Adjustable Lumbar Support

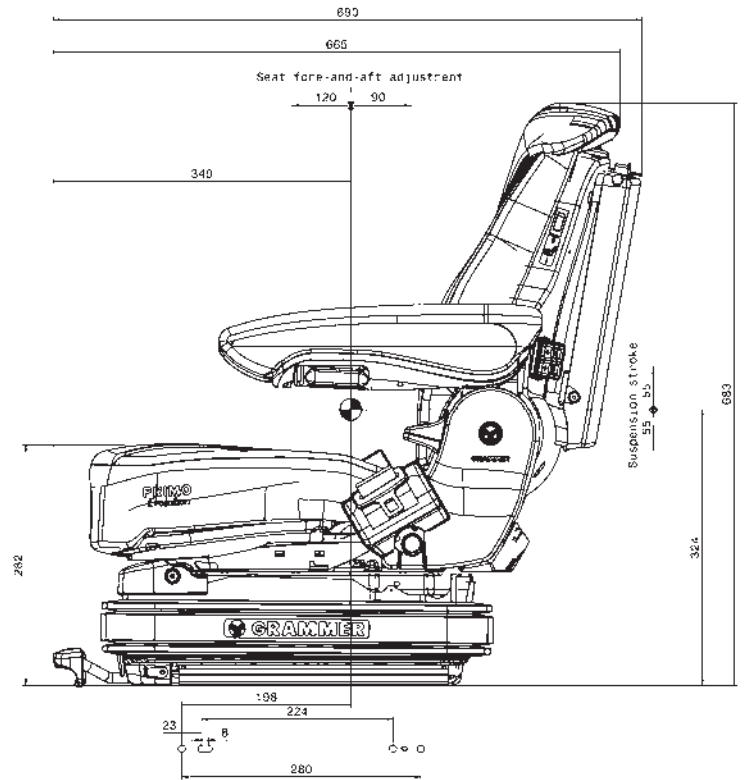
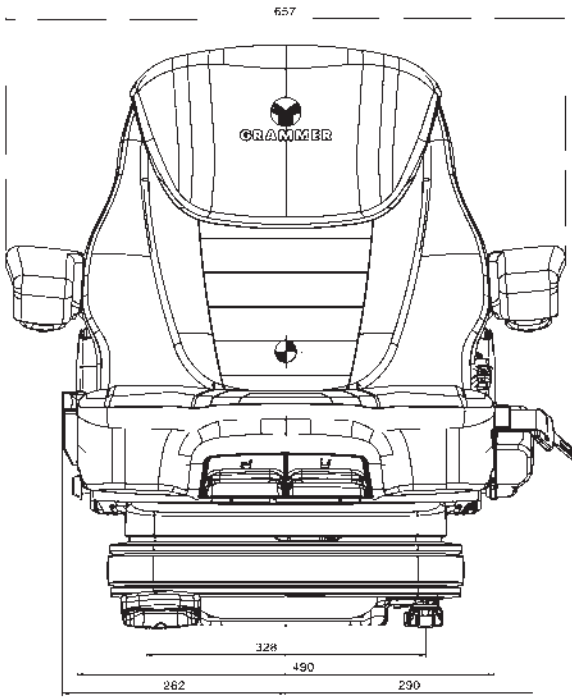
OPS (Operator Presence Switch)
(optional)

**Backrest with
Adjustable Angle**

Mechanical Suspension

The PRIMO® models with mechanical suspension perform best when they are optimally adjusted for each driver. Especially when drivers change often, it's very important for each unpracticed user to quickly and intuitively find the right settings. The seat is therefore equipped with a readily accessible setting lever based on the proven "Design for Use" concept. This adjusts the suspension to the operator's weight within the range from 45 to 170 kg.



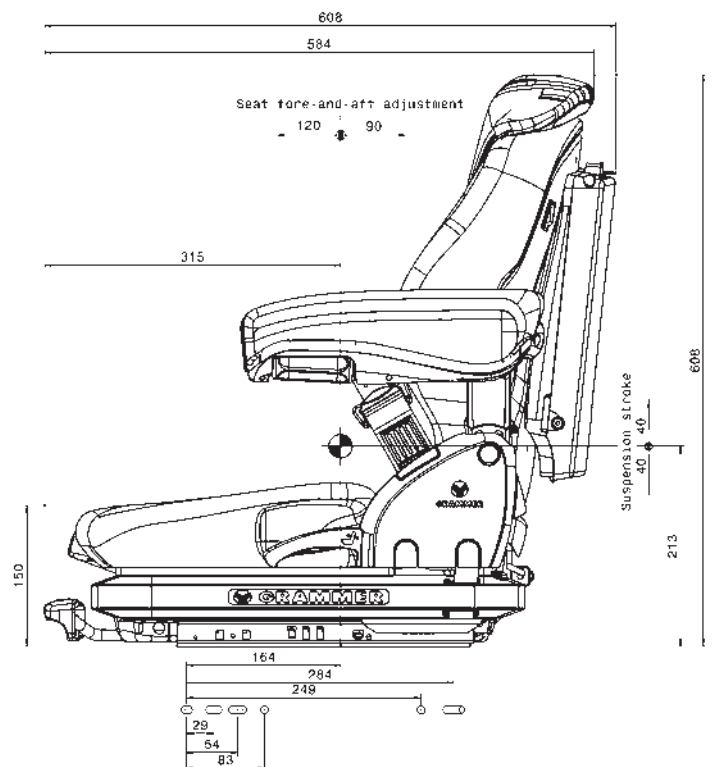
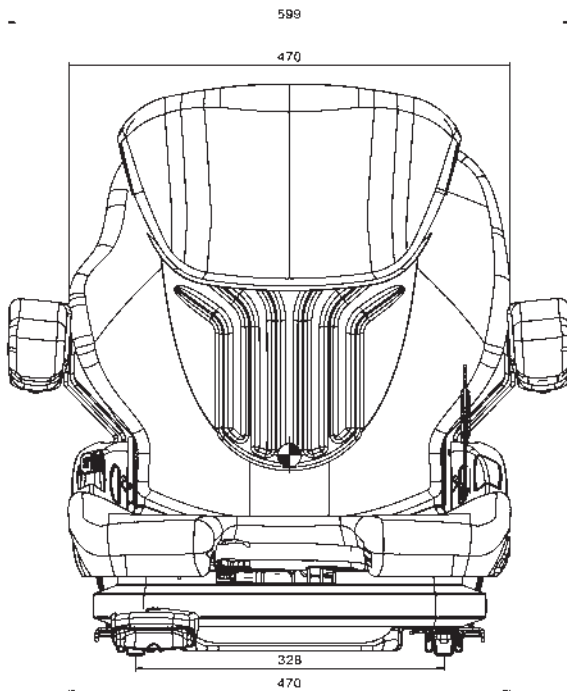


Air suspension

NEW STANDARDS OF COMFORT AND SAFETY.

Mechanical

PRIMO® mechanical suspended



FRONT VIEW

SIDE VIEW



Primo®
M

Primo®
L

Primo®
XXM

Primo®
XXL



Primo®
XM

Primo®
XL

Primo®
XL Plus

Primo®
EL Plus

Primo®
Evolution

THE BEST IN THEIR CLASS.

The models shown may differ from the standard configuration.

Features	Primo Evolution	Primo EL Plus	Primo XL Plus	Primo XXL	Primo XL	Primo L	Primo XXM	Primo XM	Primo M
Art.No. fabric (seats 12 V)	1292329	1292328		1293476	1293489	1293488	1293475	1293487	1293486
Art.No. fabric (seats 24V)					1293478*	1293477*			
Art.No. Imitation leather			1247727			1104725	1106231	1091027	1091028
Shock absorber									
Non adjustable	●	●	●	●	●	●	●	●	●
Suspension									
Mechanical suspension							●	●	●
Air suspension with compressor	12V	12V	12V	12V	12V/24V*	12V/24V*			
Low-frequency suspension	●	●		●	●				
Quick weight adjustment									
Mechanical							●	●	●
Electropneumatic			●	●	●	●			
Active	●	●							
Climate System									
Active	●								
Fore/aft adjustment									
210 mm	●	●	●	●	●	●	●	●	●
Lumbar support									
Mechanical		●	●	●	●	●	●	●	●
Pneumatic	●								
Adjustable backrest angle									
Setting range: -5° to + 30°	●	●	●	●	●	●	●	●	●
Backrest extension									
Insertable	●	○	○	○	●	○	○	○	○
Operator restraint system									
Duo-sensitive retractable belt	●	●	●	●	●	●	●	●	○
Seatbelt lock recognition	○	○	○	○	○	○ / ●* ⁽¹⁾	○	○	○
Seat cushion width									
	490mm	530mm	470mm	450mm	470mm	470mm	450mm	470mm	470mm
OPS (Operator Presence Switch)	●	●	●	●	●	●	●	●	○
OPTIONS									
Document box									
	○	○	○	○	○	○	○	○	○
Armrests									
adjustable angle	○	○	○	○	○	○	○	○	○
Seat heating									
	●	●	○	○	○	○	○	○	○
Fore/aft isolator* (2)	○	○	○	○	○	○	○	○	○
Strength requirement									
Complies with ISO 24135 (for forklift trucks) *3)	●	●	●	●	●	●	●	●	●
Complies with ISO 6683 (earth-moving machinery)	●	●	●	●	●	●	●	●	●

● Standard feature ○ Optional feature *⁽¹⁾ 24V *⁽²⁾ Fore/Aft isolator not for earth-moving machinery *⁽³⁾ in Together with a restraint system

**GRAMMER offers state-of-the-art
products for all mobile workplaces
– from tractors, construction
machines and forklift trucks all
the way to trucks, buses and trains.
Ergonomically designed, they set
new standards of sitting comfort
and operating convenience. Just ask
us – we'll be happy to inform you.**



Choose the Original
Choose Success!



GRAMMER