



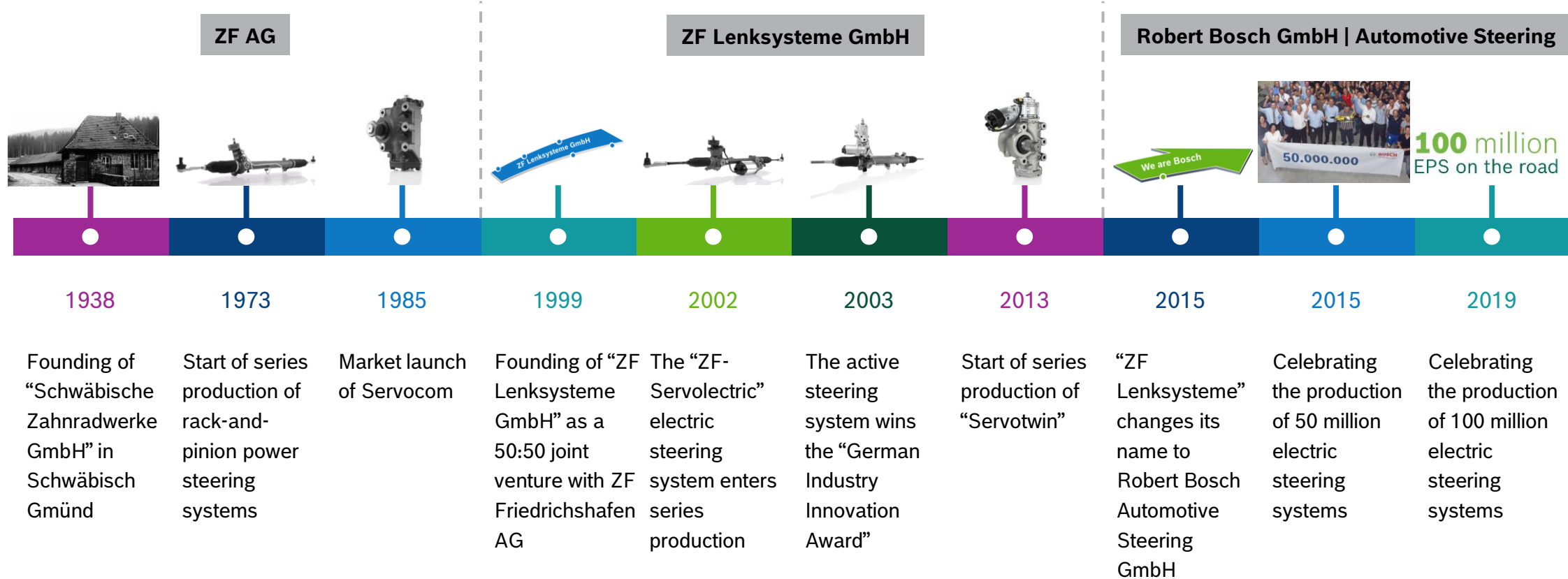
# HCV Steering Systems

Christophe Nadaud, MA/SMS-EW, 05/03/2025



# 01 **General Information about STEERING @BOSCH**

# Bosch Steering Aftermarket History of Expertise



# Bosch Steering Aftermarket Product Overview

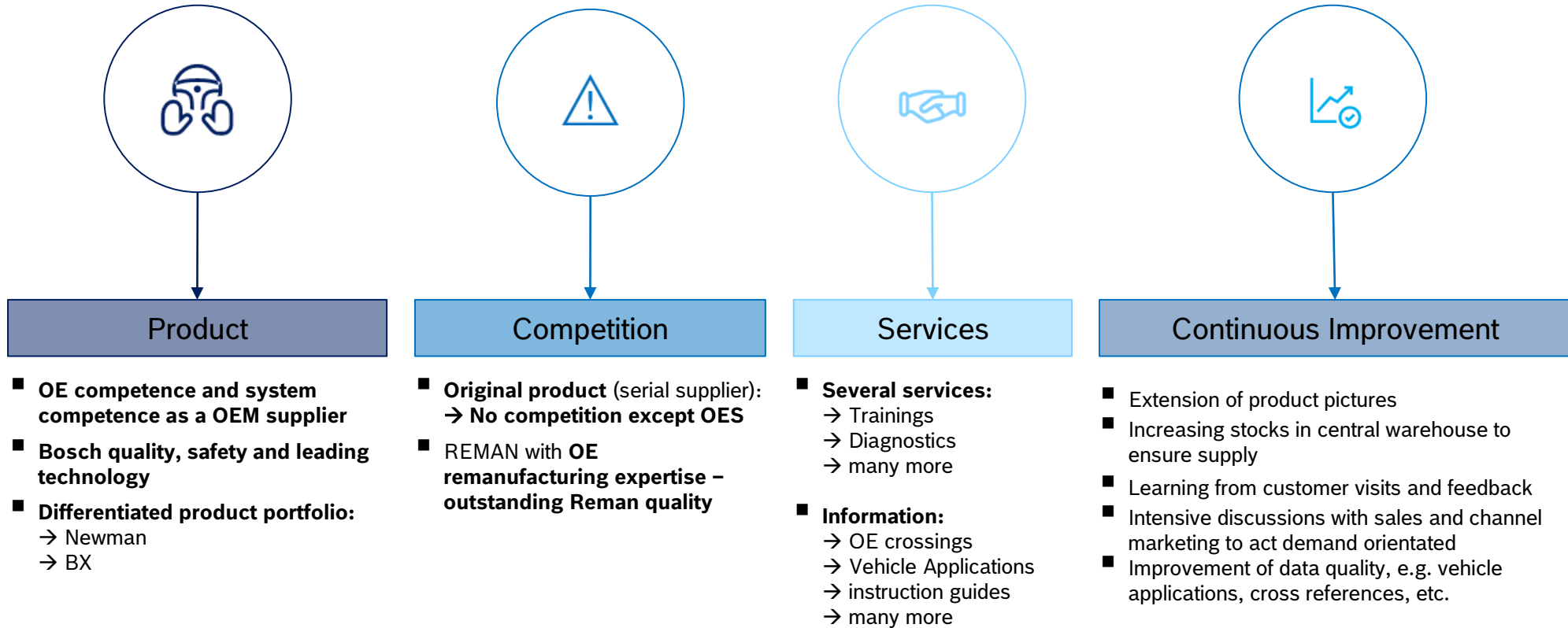
<ul style="list-style-type: none"> <li>Units from AS (New &amp; Reman)</li> <li>Attachment parts (PC: EPS &amp; HPS)</li> <li>Repair parts (CV steering)</li> </ul>													
		<b>Electric Power Steering (EPS)</b>			<b>Hydraulic Power Steering (HPS)</b>			<b>Steering pumps PC</b>			<b>Attachment parts</b>		
<b>NEW</b> <b>BX</b> <b>Workshop Repair</b>			<b>NEW</b> <b>BX</b> <b>Workshop Repair</b>			<b>NEW</b> <b>BX</b> <b>Workshop Repair</b>			<b>NEW</b> <b>BX</b> <b>Workshop Repair</b>				
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		<b>Servocom   Servotwin (HCV)</b>			<b>Steering pumps HCV</b>			<b>Attachment parts</b>		
<b>NEW</b> <b>BX</b> <b>Workshop Repair</b>			<b>NEW</b> <b>BX</b> <b>Workshop Repair</b>			<b>NEW</b> <b>BX</b> <b>Workshop Repair</b>				
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\* Reman stopped; Re-evaluation 2023/24

# Bosch Steering Aftermarket

## Steering Systems – USPs and Benefits



# Bosch Steering Aftermarket

## Global production footprint



Bosch is globally active in main markets to supply customers directly and local

# Bosch Steering Aftermarket HCV OE customers (selection)

**LIEBHERR**

**DAIMLER**

**TADANO FAUN**

**HYUNDAI**



**TEREX | DEMAG**



**LEYLAND TRUCKS**



**SCANIA**

**IVECO**



**GROVE**



**NIKOLA**

**SHYFT GROUP**

**NAVISTAR**

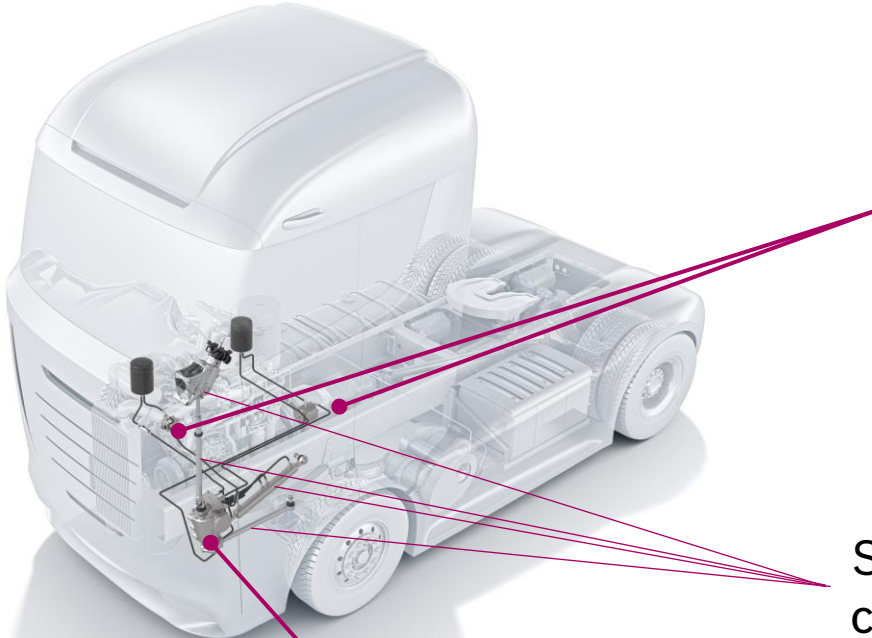




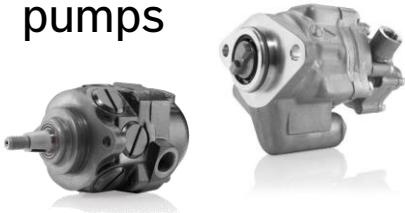
# 02 Truck & Bus Portfolio

# Bosch Steering Aftermarket

## Product range Trucks and Busses



Steering pumps



Steering-related components (accessories)



Steering gears



**DID YOU KNOW...**

...that steering systems are **independent** from power train?

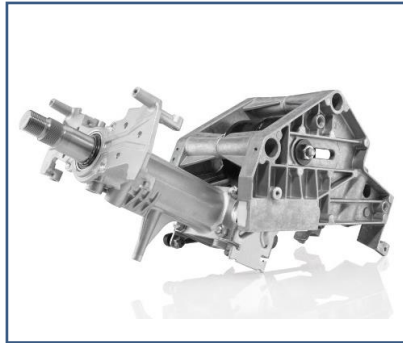
...HCV population is increasing by **6.000.000 trucks and buses** worldwide until 2030?

# Bosch Steering Aftermarket

## Product Range: overview HCV steering systems



RB-Servocom



Steering column



Bevel box



Vane pump



Radial piston pump



Ball joint shaft &  
universal joints



Working cylinder &  
ball joints



valves



Hydraulic  
accumulator




Tandem pump &  
fuel pump

# Bosch Steering Aftermarket

## The Bosch offer for HCV

**DID YOU KNOW...**



	New	Exchange 
<b>Steering gear</b> RB-Servocom®	✓	✓
<b>Hydraulic pumps</b>	✓	✓
<b>Working Cylinders</b>	✓	✓
<b>Other components</b>	✓	✗






...that Bosch offers exclusively OE quality on Newman and Reman!

...that we can offer 66% of our portfolio as BX!

# Bosch Steering Aftermarket

## The Bosch offer for HCV

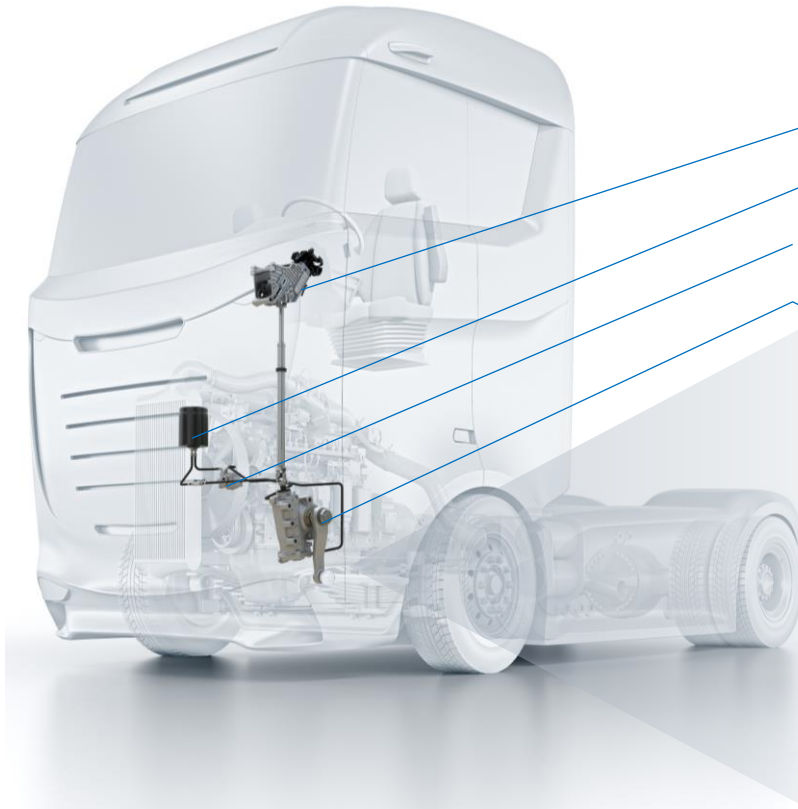
**DID YOU KNOW...**

	New	Exchange 
 <p><b>Steering gear</b> RB-Servocom®</p>	>140	>100
 <p><b>Hydraulic pumps</b></p>	>160	~110
 <p><b>Working Cylinders</b></p>	>50	>30
 <p><b>Other components</b></p>	>100	✕

...that Bosch offers exclusively OE quality on Newman and Reman!

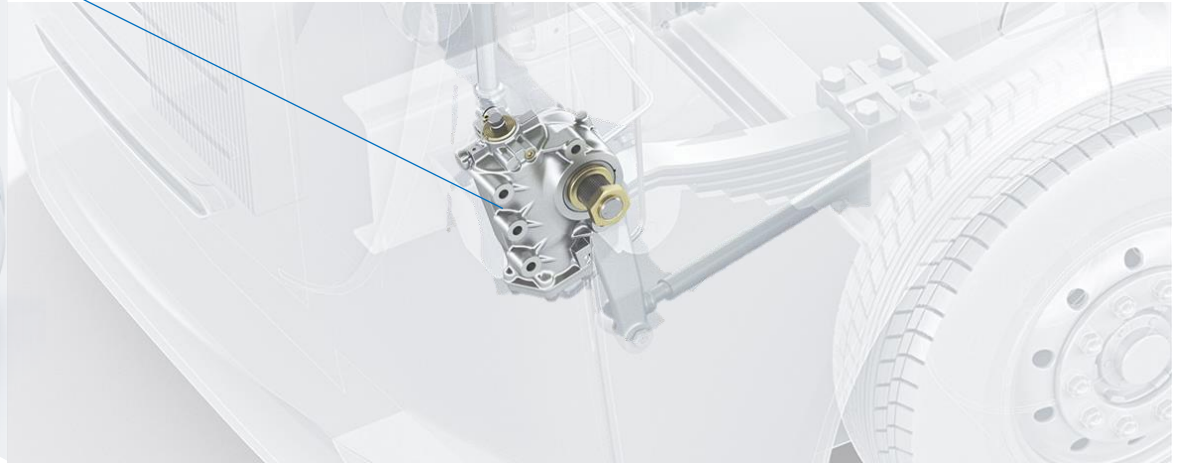
...that we can offer 66% of our portfolio as BX!

# Bosch Steering Aftermarket Servocom Steering Systems: **Single-circuit**

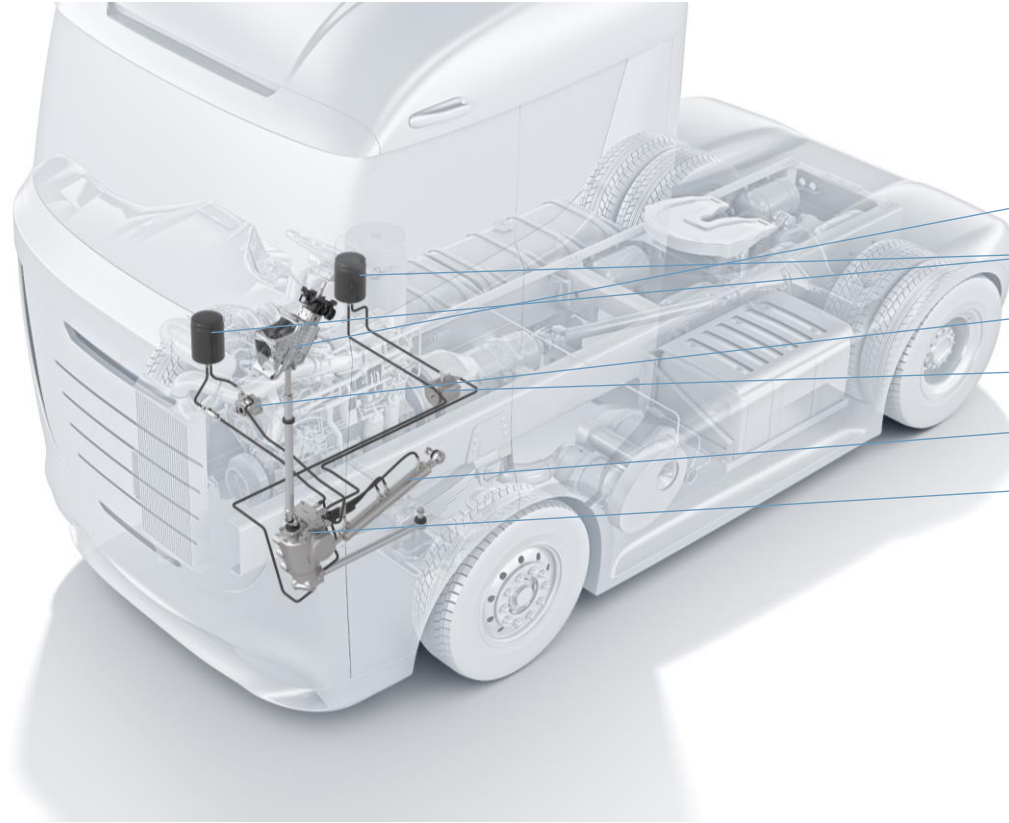


## *Installation example*

- Steering column (height & tilt adjustable)
- Oil tank
- Vane pump (engine driven)
- Servocom



# Bosch Steering Aftermarket Servocom Steering Systems: **Dual-circuit**



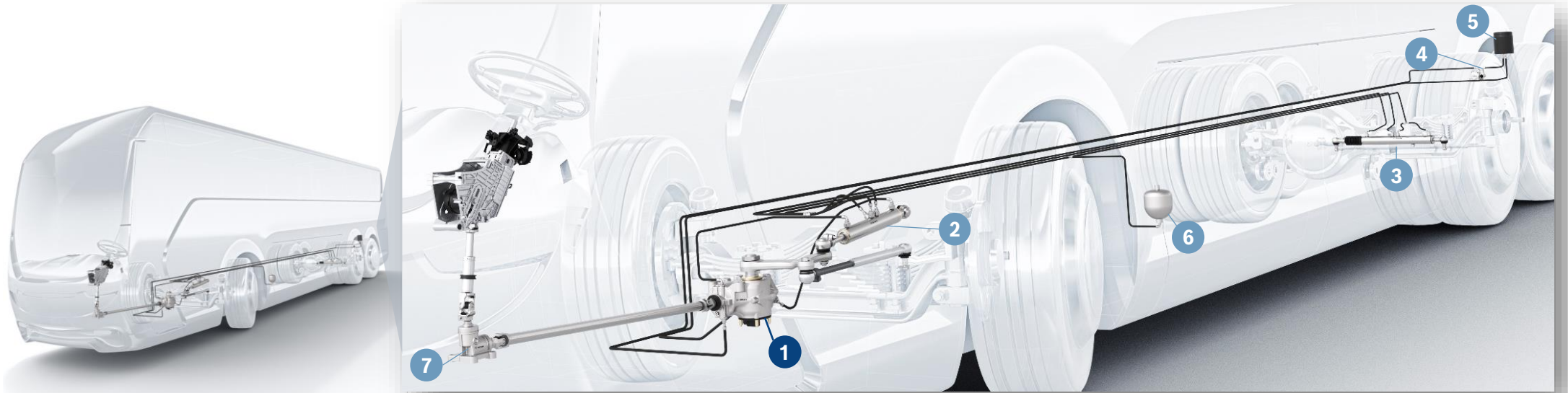
## *Installation example*

- Steering column (height & tilt adjustable)
- Two oil tanks
- Vane pump (engine driven)
- Radial piston pump (wheel driven)
- Power cylinder
- Servocom

## *Why Dual-circuit steering system?*

To meet statutory safety criteria for vehicles with high steering axle loads or with several steered axles

# Bosch Steering Aftermarket Servocom Steering Systems: **Rear Axle Steering (RAS)**



*Installation example*

- 1 Servocom
- 2 Master cylinder
- 3 Centering cylinder
- 4 Vane pump (engine driven)
- 5 Oil tank
- 6 Hydraulic accumulator
- 7 Bevel gear



# 03 Technical deep dive

# Bosch Steering Aftermarket

## Product Range: Connection to RB-Servocom

### Steering column

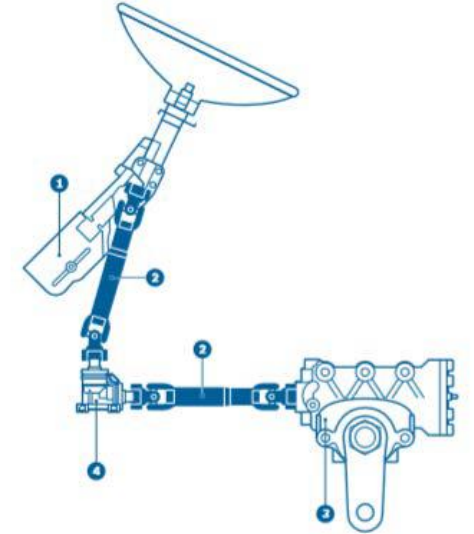
- ▶ Steering columns provide the connection between the steering wheel and the steering shaft
- ▶ For an ergonomic driving position, the steering column is continuously adjustable in terms of height and angle

### Steering shaft / I-Shaft

- ▶ Steering shafts provide the connection between Steering gear and steering column
- ▶ They are used in different tube lengths and angular positions of the joints, depending on requirements

### Bevel box

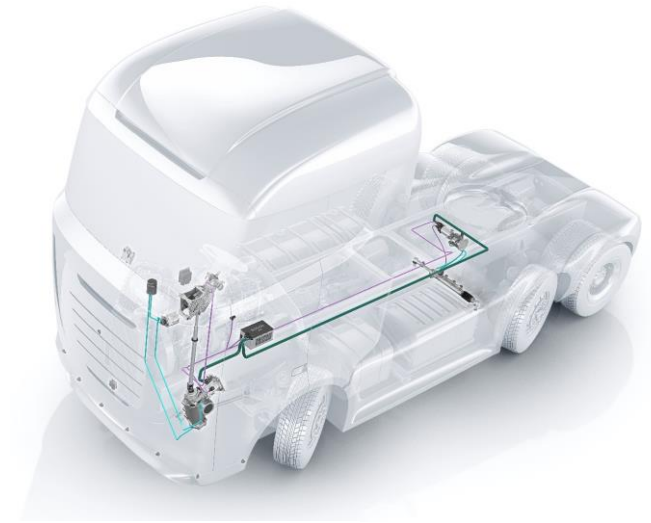
- ▶ Bevel boxes provide the connection between steering column and steering gear if a linear connection by means of a ball telescopic shaft is not possible
- ▶ It can be flanged directly to the RB-Servocom® or installed separately in the vehicle
- ▶ Standard is an axle angle of 90°



1. Adjustable steering column
2. Steering shaft
3. RB-Servocom (steering gear)
4. Bevel box

# Bosch Steering Aftermarket Developments in HCV Technology (1/2)

- ▶ A technology shift is underway in the HCV area
- ▶ For a couple of years, some trucks are being equipped with variants of the existing Servocom®, which now includes a support for an electric motor. The basic system is still hydraulic. This system is called **Servotwin®**
- ▶ This change in technology is still in the initial phase at the OE level, the "classic" steering system **Servocom®** is still the most widely used system  
- **effects on the IAM business are still very limited**



## Servotwin

- ▶ Electro-hydraulic steering system for heavy commercial vehicles
- ▶ Combination of a Servocom® with an electronic drive and control unit
- ▶ Increased steering precision & enhanced steering comfort
- ▶ Permits use of driver assistance functions like speed-sensitive steering assistance and active return to the straight-ahead position

# Bosch Steering Aftermarket Developments in HCV Technology (2/2)

## ServoE

- ▶ Modern electric power steering system for heavy commercial vehicles
- ▶ Full electric solution with additional comfort functions and power on demand
- ▶ Not yet in series production



## eRAS® rear axle steering system

- ▶ Smaller turning circle
- ▶ Reduced tire wear
- ▶ Compact construction
- ▶ Light weight
- ▶ Fuel savings
- ▶ Increased maneuverability
- ▶ Easy installation

# Bosch Steering Aftermarket Vane pumps



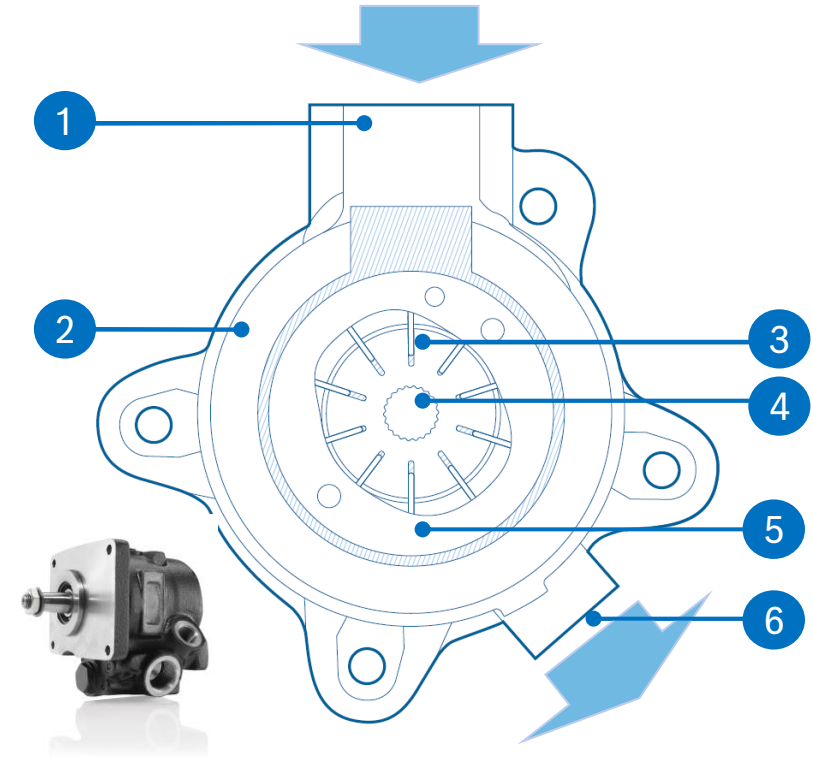
## Function

The pump generates the pressure for the steering assistance. It is driven by a ribbed V-belt or directly by the vehicle engine.

## Advantages

- ▶ Handles thin liquids at relatively higher pressures
- ▶ Compensates for wear through vane extension
- ▶ Can run dry for short periods
- ▶ Develops good vacuum

- 1 Suction port
- 2 Pump housing
- 3 Rotor with vanes
- 4 Shaft
- 5 Curved ring
- 6 Pressure port



# Bosch Steering Aftermarket VARIOSERV® Variable displacement pump

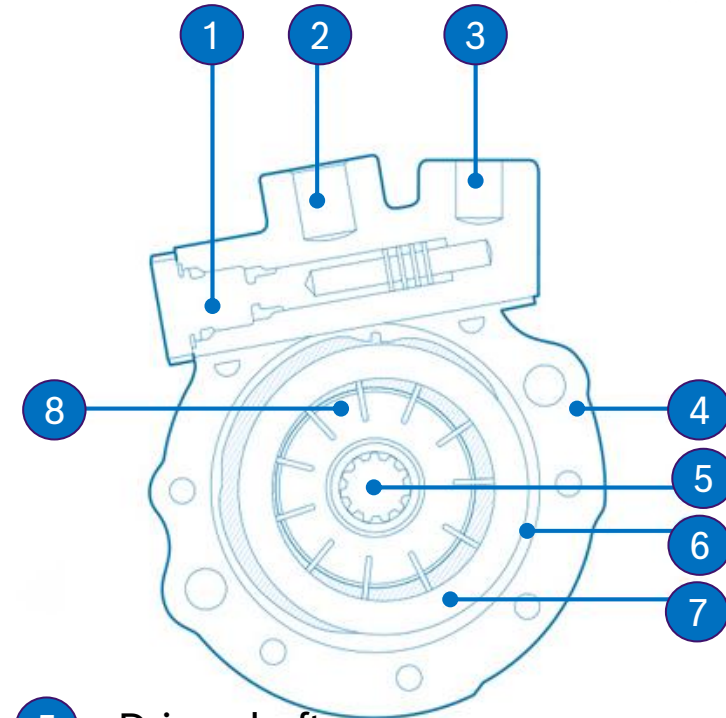


## Functions

- ▶ Reduction of energy consumption by avoiding excessive hydraulic pressure generation
- ▶ Reduction of steering oil temperature
- ▶ Protection of the pump against possible overload

## Basic design

- ▶ Single stroke rotor set
- ▶ Cam ring with varying eccentricity
- ▶ Cam ring variation in function of pump speed



- 1 Control valve
- 2 Suction port
- 3 Pressure port
- 4 Housing

- 5 Drive shaft
- 6 Outer ring
- 7 Curved ring
- 8 Rotor with vanes

# Bosch Steering Aftermarket Tandem pump



## Product benefits

- ▶ Combined steering and fuel pump driven by the same shaft
- ▶ The steering pump is a vane pump that generates the necessary fluid pressure for the steering system
- ▶ A gear-type pump that conveys the required amount of fuel is used as a fuel pump
- ▶ “2-in-1” function is space-saving and efficient
- ▶ Both pumps are also available separately for many applications



Tandem pump

## Actual trend

- ▶ Current Varioserv pump can be combined with a fuel pump



fuel pump

# Bosch Steering Aftermarket Radial piston pump (RN)



## Function/description

- ▶ 8 cylinders
- ▶ Hydraulic fluid aspiration ensures that the output flow remains the same in spite of varying pump speed
- ▶ Only the amount of fluid is sucked in which is necessary for steering
- ▶ Used as emergency steering pump

## Advantages

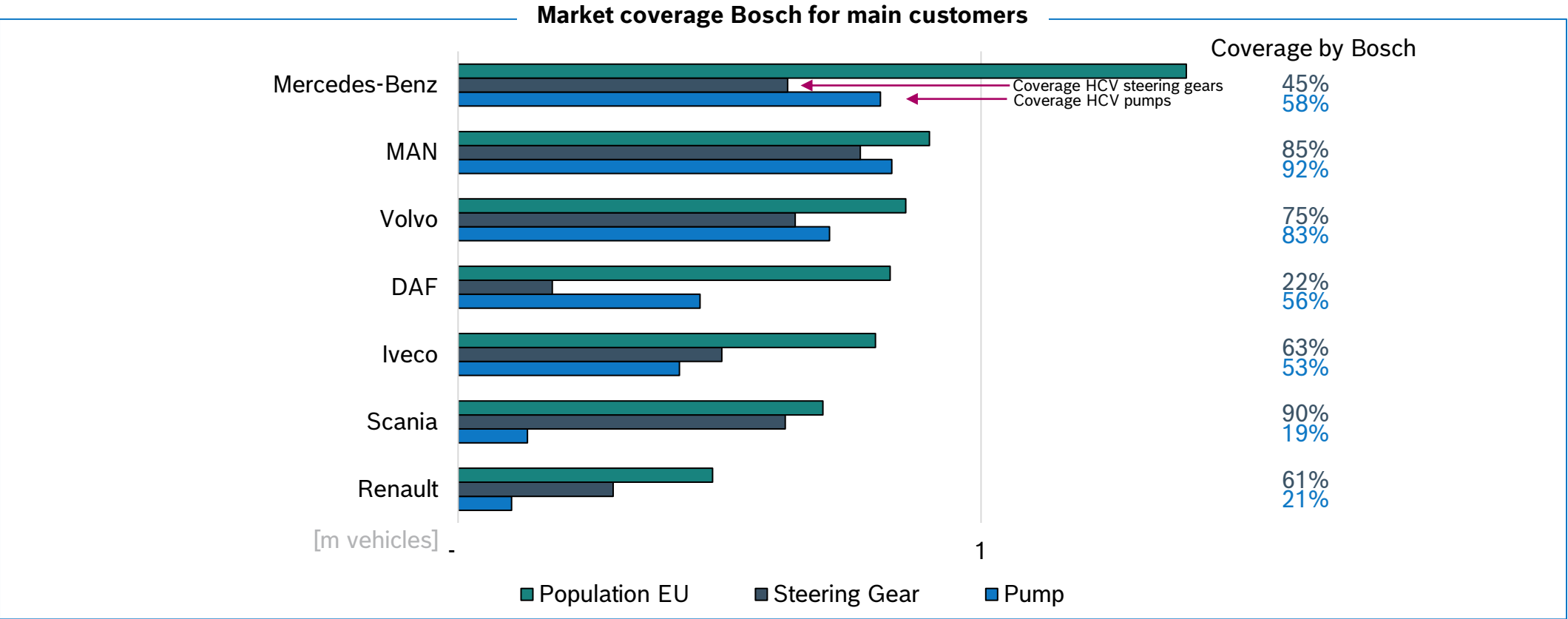
- ▶ Delivery both clockwise and counter clockwise of the drive direction
- ▶ No flow limiting valve is required





# 04 Product Coverage & Exchange Rates

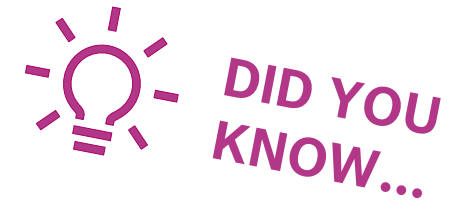
# Bosch Steering Aftermarket Market Coverage HCV Steering Gears & pumps















**HCV Steering Gears: Market Coverage ~ 60%**

# Bosch Steering Aftermarket

## Exchange rates HCV Steering products (incl. pumps)



...that a 2,9% exchange rate offers an annual sales potential of 290 pcs. sales (based on 10.000 ViO)

	Exchange rates			Exchange rates	
<b>RB-Servocom</b>	<b>1,2%</b>		Control Valve	1,8%	
<b>Working Cylinder</b>	<b>2,9%</b>		Flow indicator	1,8%	
Ball joint shaft	1,7%		Flow limiting Valve	1,7%	
<b>Ball joint</b>	<b>2,6%</b>		Pressure limiting Valve	0,5%	
Universal joint	3,5%		Hydraulic Accumulator	1,0%	
Bevel gear	1,1%		<b>Steering pumps</b>	<b>0,5%</b>	

Typical exchange reasons
<ul style="list-style-type: none"> <li>• Accidents,</li> <li>• leakages,</li> <li>• miss-use (e.g. kerbstone collisions, frequent steering when the vehicle is stationary, overloaded vehicles),</li> <li>• Permanent or incorrect load on steering parts (e.g. by vibrations from the wheels or errors in the chassis geometry)</li> </ul>

<sup>1</sup> Exchange rates are technically calculated: they may differ based on road conditions, temperatures, salt use, etc.

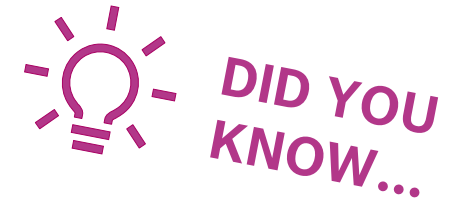


# 05



## **Bosch Exchange w/ Core returns**

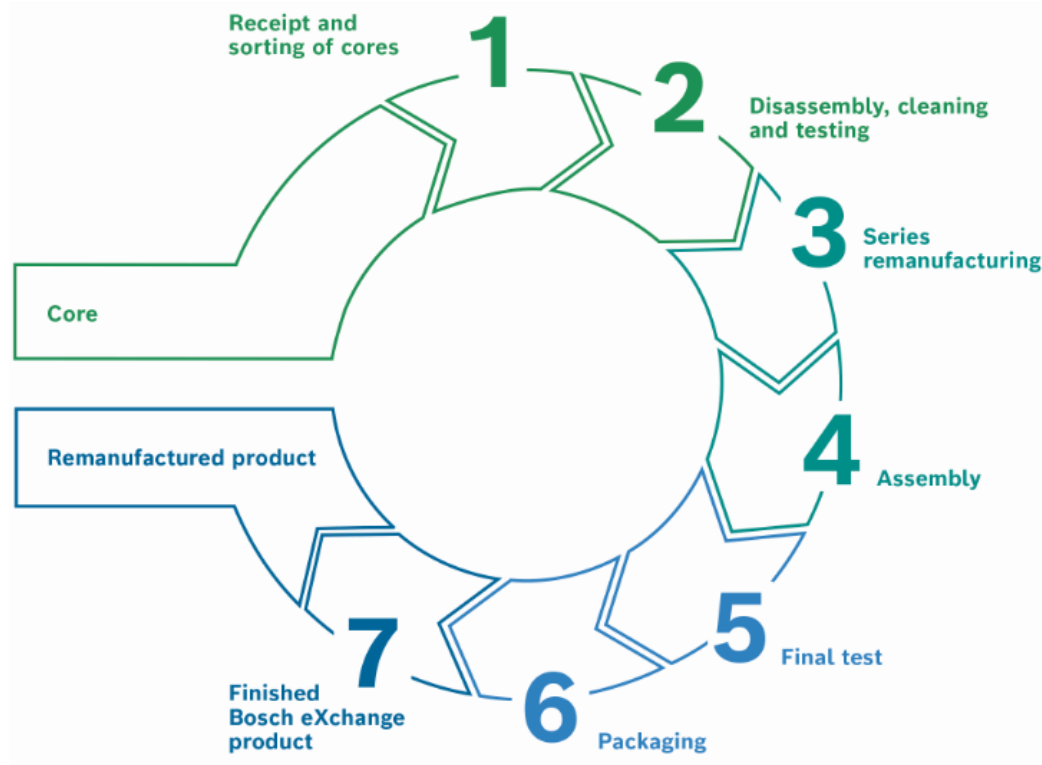
# Bosch Steering Aftermarket Remanufacturing



...Steering applies same quality standards for reman as for newman!

...Steering has a 100% end of line testing!

...Steering only remanufactures OE products!



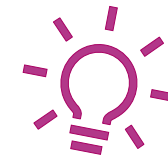
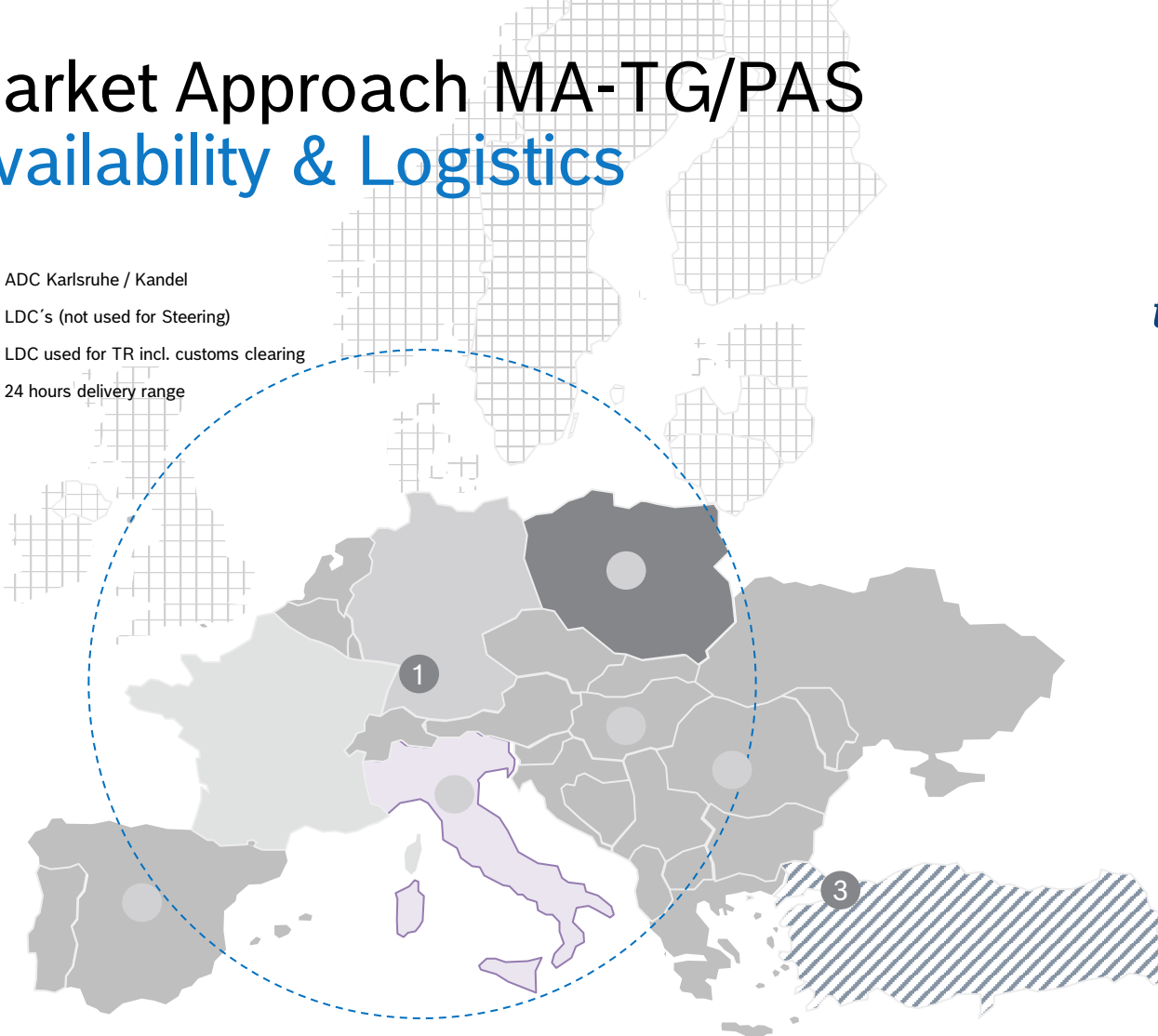


# 06 Logistics & Availability

# Market Approach MA-TG/PAS

## Availability & Logistics

- 1 ADC Karlsruhe / Kandel
- 2 LDC's (not used for Steering)
- 3 LDC used for TR incl. customs clearing
- 24 hours delivery range



**DID YOU KNOW ...**

... our goal is to **increase stock levels to 93%** by 2025 (from 62% in 6/24) in the Karlsruhe central warehouse as a BU customer service!

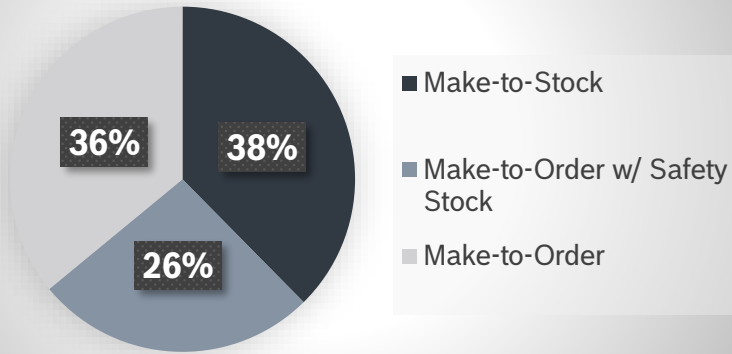
### Current supply situation

- Steering parts (Steering gears, pumps, cylinders, others...) are generally handled via Karlsruhe, GER
- Steering parts are too heavy and oversized for local Bosch aftermarket locations
- Low annual volumes lead to standardized Make-to-Order stocking policy from Logistics department

# Bosch Steering Aftermarket

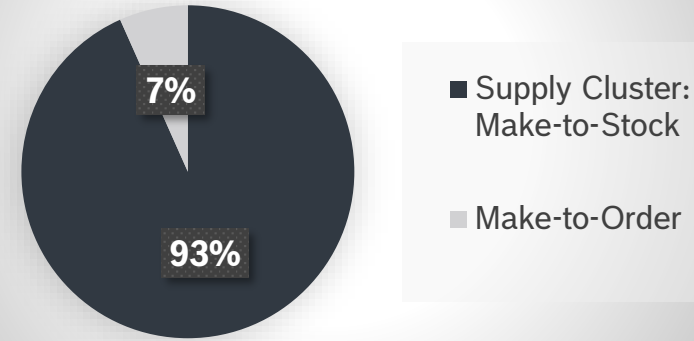
## Availability & Logistics: increasing **AVAILABILITY!**

### Supply Logic until 06.24



Change in Supply Processes  
into standardized approach

### Supply Logic from 07.24



Supply Logic leads to ...

SKU's with stock: 408

→ 38% of SKU **without** stock!

By working with logistics department, *we achieved an agreement to stock slower moving parts to make them available in central warehouse and enable sales!*

**TARGET: 93% of SKU's with stock (~620 p/n)**



# 07 Marketing Material & Product Data

# Bosch Steering Aftermarket Marketing Material @ Bosch



Spotlights	Product Training	Service Manuals	Articles	Factsheets, Tips & Tricks	Poster	Product pictures	Glasstruck pictures

<p><b>MERCEDES BENZ</b></p> <p>PPT PDF</p>	<p><b>PRODUCT TRAINING HCV STEERING SYSTEMS</b></p> <p>PDF</p>	<p><b>Servocom Single Circuit</b></p> <p>en de</p>	<p><b>Future Magazine: Servotwin</b></p>	<p><b>Working Cylinders</b></p>	<p><b>Glasstruck MA cross-product</b></p>	<p><b>Servocom &amp; Servotwin</b></p>	<p><b>MA cross-product</b></p>
<p><b>MAN</b></p> <p>PPT PDF</p>	<p><b>PRODUCT TRAINING HCV STEERING SYSTEMS</b></p> <p>PDF</p>	<p><b>Servocom Dual-Circuit</b></p> <p>en de</p>	<p><b>Truckworld: Servotwin</b></p>	<p><b>Replacement of CV steering systems</b></p>	<p><b>USP CV steering systems</b></p>	<p><b>Working Cylinder</b></p>	<p><b>Servocom Single-circuit</b></p>
<p><b>BEVEL BOX</b></p> <p>PPT PDF</p>		<p><b>Working cylinder</b></p> <p>en de Hydr. en + de</p>	<p><b>Truckworld: Servo-twin, eRAS, ServoE</b></p>	<p><b>Replacement of Working Cylinders</b></p>	<p><b>Advertisement 1</b></p> <p>LHD RHD</p>	<p><b>Ball joint shaft and ball joints</b></p>	<p><b>Servocom Dual-circuit</b></p>
<p><b>VOLVO</b></p> <p>PPT PDF</p>		<p><b>Rear Axle Steering</b></p> <p>en de</p>	<p><b>Truckworld: Truck World Spare parts for CV steering</b></p>		<p><b>Advertisement Type 2</b></p> <p>LHD RHD</p>	<p><b>Bevel box</b></p>	<p><b>Rear-axle-steering</b></p> <p>RAS RAS-EC</p>
<p><b>SCANIA</b></p> <p>coming soon</p>		<p><b>Rear Axle St. Gen.3</b></p> <p>en de</p>			<p><b>Advertisement Type 3</b></p> <p>LHD RHD</p>	<p><b>Other</b></p>	<p><b>Servocom focus</b></p>



# Bosch Steering Aftermarket Data Availability in TecDoc



## TecDoc example: Working cylinder

BOSCH | K S00 001 319

**BOSCH**

All

Brand BOSCH

Article number K S00 001 319

Product group Slave Cylinder, power steering

GTIN/EAN 4047025452847

Packing unit 1

Quantity per packing unit 1

Slave Cylinder, power steering (Steering)

Criteria

Article criteria

Operating Mode Hydraulic

Supplementary Article/Info 2 without ball joints

Observe service information

Product pictures

Installation M... Installation M... Service inform...  
Installation M... Installation M... Service inform...  
Installation M... Installation M... Service inform...

OE number VOLVO

OE number 20559841

Reference info

Helpful documents

### 2.1 Long working cylinder

**NOTICE**

In order to ensure a secure replacement, the correct tightening torques on the lock nuts of the ball joints must be observed. These tightening torques can be looked up online in the Bosch catalogue ([link](#)).

Working cylinder	Ball joint cylinder rod side	Ball joint cylinder had side
KS00003242 / 8344974163	8399110630	8399110630
KS00003243 / 8344974165	8399110630	8399110630
KS00003232 / 8344974401	8399110717	ball joint welded-on
KS00003279 / 8344974402	8399110717	ball joint welded-on
KS00002396 / 8346974220	8399110629	8399110629
KS00003311 / 8346974401	8399110621	8399110623
KS00003288 / 8346974179	8399110628	8399110624

Vehicle linkages

Vehicle linkages for K S00 001 319

Search

Vehicle	Model year	TecDoc type no.	kW	HP	cc	Design	Tonnage	Configuration
FH12 FH 12/340 Construction Year to: 08.2006 <a href="#">More information</a>	08.1993-	3379	250	340	12130	Truck Tractor	26	6x4
FH12 FH 12/340 Construction Year to: 08.2006 <a href="#">More information</a>	08.1993-	20600	250	340	12130	Truck Tractor	26	6x2/4
FH12 FH 12/340 Construction Year to: 08.2006 <a href="#">More information</a>	08.1993-	3378	250	340	12130	Truck Tractor	26	6x2

List of OE references

Automotive Steering

**ANZIEHDREHMOMENTE KUGELGELENK / GELENKKOPF** **TIGHTENING TORQUES BALL JOINT / END FITTING**

**BOSCH**

ANZIEHDREHMOMENT UND SCHLIESSELWERTE FÜR SICHERHEITSMÜTTERN DIN 9044 ALS SPANNELEMENT FÜR KLEMMSCHELLENVERBINDUNGEN  
TIGHTENING TORQUE AND WRENCH SETTINGS FOR LOCK NUTS DIN 9044 AS CLAMPING ELEMENT FOR CLAMP CONNECTORS

AUSFÜHRUNG MIT BLECHSCHELLE VERSION WITH METAL CLAMP		AUSFÜHRUNG MIT SCHWEDISCHELLE VERSION WITH ORIENTED CLAMP	
DIN 9044 Fz-Zw-Fz-HP ZINC-PLATED AND YELLOW CHROMATED (GALVANIZED)	DIN 9044 Fz-Zw-Fz-HP ZINC-PLATED AND YELLOW CHROMATED (GALVANIZED)	DIN 9044 Fz-Zw-Fz-HP ZINC-PLATED AND YELLOW CHROMATED (GALVANIZED)	DIN 9044 Fz-Zw-Fz-HP ZINC-PLATED AND YELLOW CHROMATED (GALVANIZED)
(GELB MITTEL-BESCHICHTET) (COATED WITH SLIGHT AGENT)	(GELB MITTEL-BESCHICHTET) (COATED WITH SLIGHT AGENT)	(GELB MITTEL-BESCHICHTET) (COATED WITH SLIGHT AGENT)	(GELB MITTEL-BESCHICHTET) (COATED WITH SLIGHT AGENT)
ANZIEHDREHMOMENT TIGHTENING TORQUE	ANZIEHDREHMOMENT TIGHTENING TORQUE	ANZIEHDREHMOMENT TIGHTENING TORQUE	ANZIEHDREHMOMENT TIGHTENING TORQUE
M8	10	10	10
M10	13	13	13
M12	17	17	17
M16	22	22	22
M20	30	30	30
M24	40	40	40
M30	55	55	55

# Bosch Steering Aftermarket Marketing supports

Range sheet

Stock recommendation

Argumentation files

Flyers, Insert, Book promo

Brochures

Posters

Videos

Available

Customized

In translation / adaptation

Project for 2025

Des technologies pour la vie **BOSCH**

### Fiche gamme - Direction Poids-Lourds

**LES CHIFFRES CLÉS**

- Près de 435 références
- 70% de couverture OE du parc roulant européen
- Bosch Neuf et Bosch échange, deux gammes qui se complètent

**POURQUOI CHOISIR LES SYSTÈMES DE DIRECTION BOSCH ?**

- Technologie de pointe et compétence première monte
- Longue durée de vie des systèmes de direction : la production répond aux normes les plus récentes et s'adapte aux exigences réglementaires
- Deux systèmes de direction : fiables pour un usage en toute sécurité : les systèmes Bosch sont soumis à des contrôles fonctionnels et de qualité

**UNE GAMME DE PRODUITS OE**

- RIB Servocom : fiable et précis, testés 11 millions de fois, sur tous les marchés et dans toutes les applications. Meilleur rapport performance/prix de tous les systèmes de direction à Mec Hydraulique
- Pompes complètes : livraison et installation facilitées. Adaptation idéale des pompes Bosch aux systèmes de direction associés : fiables et longévité élevées
- Pièces de fixation et accessoires disponibles

**PRÉCES, SERVICE ET DIAGNOSTIC**

Produit	Nb. de pièces Neuf	Nb. de pièces BX
RIB Servocom	140	115
Pompes	140	90
Vier de direction assistée	50	30

Une solution de diagnostic complète qui facilite la dépose et le montage des systèmes de direction.

Technologie voor het levert, **BOSCH**

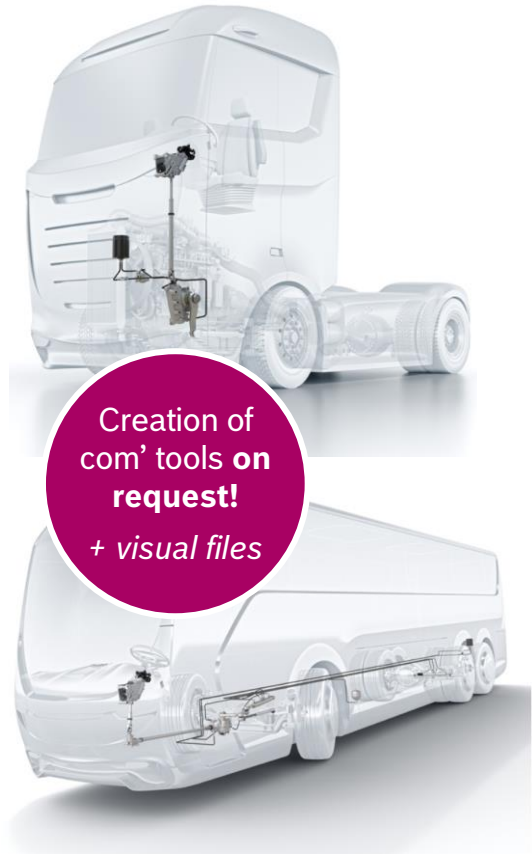
### Stuursystemen voor vrachtwagens DAF-OE onderdeelnummers

TOP 15 DAF-potentieel in Nederland

TOP	DAF	Beschrijving	BOSCH Neuf	BOSCH BX	Top toepassingen
1	185714	Brandpomp	307971105		XF (2012)
2	185445	Brandpomp	K30001809		CF B3 (1999-2002)
3	179700	Brandpomp	307687113		XF B5 (2005)
4	173025, 180439	Kopfigerichtste	K30000065		XF B5 (2002-2006)
5	180327	Tandpomp	K30000282	K30100288	XF 106
6	1401823	RIB Servocom	K300001074	K301001941	LF 45 (2001-2008)
7	2010877	Hydraulische aandrijving	K300004196		
8	220038000	Axlebrake	K300003312	K30100233	
9	1813678, 1792327	Kopfigerichtste	K300001621		BD CS, CF B5, XF 105
10	1887826, 1797002	Tandpomp	3076905130	K301001383	CF B5, XF 106
11	1401256	RIB Servocom	K300001675	K301001942	LF 45 (2001)
12	1892050, 1797004	Tandpomp	K300001404	K301001383	CF B5, XF 105 (2000-2012)
13	1401813, 14018126	Mechanische stuursysteem	K300000336	K301000326	LF 45 (2006)
14	1401816	Mechanische stuursysteem	K300000001	K301000371	LF 55 (2001)
15	1920433	Servo-ventielgastromp	K300003150		XF 106

LES OUTILS

- Pompe Poids-Lourds - Car demande
- Brochure complète Poids-Lourds Réf. 17677 P9 (30)
- Page de Poids-Lourds (30)





# 08 To take the right direction

# 2025

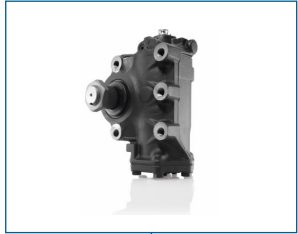
## Focus on steering

- Nearly **435** references
- +70%** OE coverage of European vehicle fleet
- Bosch New and Bosch eXchange, **two complementary ranges**



Stock recommendation

Description	Material 10-digit	IAM new	IAM BX	Vehicle Segment	Net Weight in KG	Driver position	Nominal pressure	Additional information	Application-Brands	OE no. Reference	Brand & vehicle Reference	Pictures available	Ranking FR
pump	K500000002	K500000002		HV	1.810				RENAULT; VOLVO	VOL 20997341;	RENAULT 330 P	yes	A
mechanical steering	K500001849	K500001849	K501001681	HV	2.550				MERCEDES-BE	MB A 003 460 7	MERCEDES-BE	yes	A
mechanical steering	K500001807	K500001807	K501001639	HV	2.605				MERCEDES-BE	MB A 003 460 8	MERCEDES-BE	yes	A
ball joint shaft	K500000031	K500000031		HV	4.800				RENAULT; VOLVO	VOL 3175067;	VOLVO FH 12 3	yes	A
mechanical steering	K500000384	K500000384	K501000354	HV	3.780				RENAULT; VOLVO	VOL 21488833;	RENAULT 380 P	yes	A
HCV Accessorie Control Valve	K500000335	K500000335		HV	4.330				MERCEDES-BE	MB A 800 460 03 94	VOL 2282	yes	A
Pumps new mechanical steering	K500000437	K500000437	K501000407	HV	2.387		180.0 bar		MAN	NEO 814710161	MAN 19.232 FL	yes	A
HCV Accessorie ball joint shaft	K500000065	K500000065		HV	3.380				DAF	T32625; DAF 1840439		yes	A
Pumps new mechanical steering	K500000438	K500000438	K501000408	HV	2.390		180.0 bar		IVECO	MAN 81471016	IVECO EuroTrac	yes	A
HCV Accessorie ball joint shaft	K500000195	K500000195		HV	4.000				RENAULT; VOLVO	RVI 74 82 374 719; VOL 82374719; DAF 1705747		yes	A
Pumps new vane pump	K500003840	K500003840		HV	5.400				RENAULT; VOLVO	VOL 23569656	VOLVO FH 420 202-9939	VOL	A
HCV Accessorie ball joint	639110621	639110621		HV	1.750				SCA	1394443; IVE 42533073; RVI 50101849 879		yes	A
Pumps new mechanical steering	K500000480	K500000480	K501000450	HV	2.385				MAN	MAN 81471016	MAN 19.273 F	yes	A
HCV Accessorie ball joint	639110713	639110713		HV	1.920				MERCEDES-BE	MB A 002 460 22 48; MB 002 460 22 48		yes	A
Pumps new mechanical steering	K500000478	K500000478	K501000448	HV	2.376				MAN	MAN 81471016	MAN 27.373 DF	yes	A
HCV Accessorie ball joint	639110724	639110724		HV	2.061				MAN	MAN 8195301 6363; MAN 81953016406		yes	A
Pumps new mechanical steering	K500000400	K500000400	K501000370	HV	2.647		180.0 bar		IVECO	IVE 4896374; IVE IVECO EuroCar		yes	A
Pumps new Vane pump varioser	K500003688	K500003688		HV	5.440				RENAULT; VOLVO	VOL 23569649	VOLVO FMX 33	yes	A
HCV Accessorie Universal Joint	7026410507	7026410507		HV	0.683				MAN	MAN 8146105 6034; FAU 9370772-3568; HOD 10		yes	A
HCV Accessorie ball joint shaft	K500000039	K500000039		HV	2.675					DEM 2146412; DEM 2245512		yes	A



### RB-SERVOCOM

- New **140**
- BX **115**



### PUMPS

- New **140**
- BX **90**



### CYLINDERS

- Nex **50**
- BX **30**

Category	#VALEUR!	Material 10-digit	IAM new	IAM BX	Vehicle Segment	Net Weight in KG	Application-Brands	OE no. Reference	Brand & vehicle Reference	Ranking FR
Pumps new	Fuel pump	K500000002	K500000002		HV	1.810	RENAULT; VOLVO	VOL 20997341;	RENAULT 330 P	A
Pumps new	mechanical ste	K500000384	K500000384	K501000354	HV	3.780	RENAULT; VOLVO	VOL 21488833;	RENAULT 380 P	A
HCV Accessorie	ball joint shaft	K500000031	K500000031	K501002205	HV	10.500	RENAULT; VOLVO	RVI 21933921;	VOL 21933921;	A
Pumps new	mechanical ste	K500000388	K500000388		HV	5.400	RENAULT; VOLVO	VOL 23569656;	VOLVO FH 420	A
HCV Accessorie	ball joint shaft	K500001615	K500001615		HV	5.440	RENAULT; VOLVO	VOL 23569649;	VOLVO FMX 33	A
Pumps new	vane pump	K500003840	K500003840		HV	4.800	RENAULT; VOLVO	VOL 3175067;	VOLVO FH 12 3	A
Pumps new	Vane pump var	K500003688	K500003688	K501000420	HV	3.766	RENAULT; VOLVO	VOL 21186657;	VOLVO FM 300	A
Pumps new	mechanical ste	K500000450	K500000450	K501001282	HV	51.220	RENAULT; VOLVO	VOL 250334;	VOLVO FH 12 3	A
Pumps new	mechanical ste	K500000490	K500000490	K501002178	HV	49.125	RENAULT; VOLVO	VOL 85003749;	VOLVO FM 300	A
Pumps new	Piston Pump	K500003217	K500003217	K501000358	HV	4.180	RENAULT; VOLVO	VOL 85000972;	VOLVO FH 16 4	A
Pumps new	mechanical ste	K500000485	K500000485		HV	4.000	RENAULT; VOLVO	RVI 74 82 374 719;	VOL 82374	A
Pumps new	Vane pump var	K500003690	K500003690		HV	0.200	RENAULT; VOLVO	RVI 74 21 241 237;	FIO 41240	A
Pumps new	mechanical ste	K500000455	K500000455		HV	0.650	RENAULT; VOLVO	RVI 74 22 808 528;	VOL 22808	A
Servocom new	RB-Servocom	K500002346	K500002346	K501004427	HV	43.900	RENAULT; VOLVO	REN 23416825;	RENAULT T 380	B
Pumps new	mechanical ste	K500000394	K500000394	K501004294	HV	44.000	RENAULT; VOLVO	RVI 74 21 386	RENAULT T 380	B
Accessorie	Damper	8346442133	8346442133	K501004405	HV	5.460	RENAULT; VOLVO	VOL 23569635;	RENAULT T 380	B
RB-Servocom		K500001315	K500001315	K501004178	HV	6.000	RENAULT; VOLVO	VOL 23055326;	RENAULT K 380	B
Working Cylinder		K500002373	K500002373	K501001357	HV	6.500	RENAULT; VOLVO	VOL 21110366		B
Indicator		4533003831	4533003831	K501002235	HV	10.900	RENAULT; VOLVO	RVI 74 20 539 229;	VOL 20539	B
Working Cylinder		K500003351	K500003351		HV	7.900	RENAULT; VOLVO	VOL 23198439;	VOLVO FH 420	B

Focus Renault Trucks



# 2025

## Focus on steering



Improving availability: MTO => MTS project :  
**2025 target 93% of part in stock** at  
 Karlsruhe, Germany (62% in 2024)

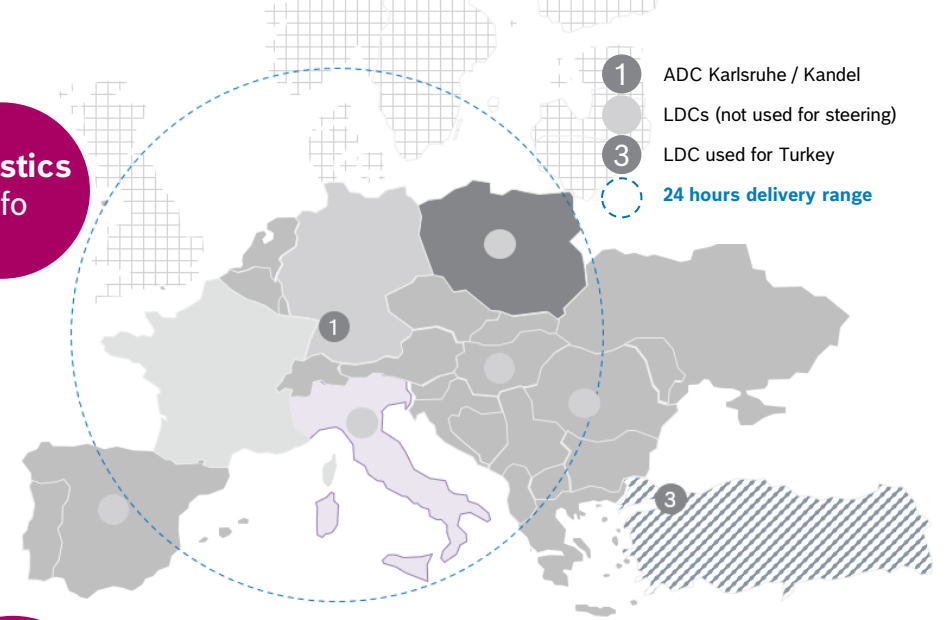


Improved identification of application:  
**Target 2025 82% to 95% of references**  
**with vehicle assignments**



Improving the data available in TecDoc :  
**2025 target 100% of range photographed**  
**+ technical information**

Logistics  
info



- 1 ADC Karlsruhe / Kandel
- 2 LDCs (not used for steering)
- 3 LDC used for Turkey
- 24 hours delivery range

Com'  
Tools

