

# HARVI AUTOTECH...

The Authorized Channel

Partner For





**The Authorized Channel  
Partner For**





## RELIABILITY

Highly accurate CNC machining to reduce tolerances resulting in superior performance, less wear and extended service life.

100% NDT(Non-destructive Test).

Certificated with ISO 9001 :2008 ISO.

In-house made parts to guarantee quality and in-time delivery.



## IMPROVED DESIGN

Higher strength materials and advanced manufacturing methods for tougher, greater payload and last longer.

One piece formed, extremely strong seamless beam with induction hardened bearing seats.

Precise brake geometry results in responsive and consistent brake performance.



## INTERCHANGEABILITY

Axles and suspensions are designed in accordance with European and American standard, components and parts are easy to be found in the aftermarket.

### Benefits for Trailer Manufacturers

Easy to mount on air suspensions or mechanical suspensions.

Round axle beams: optimum solution for air suspensions.

Square axle beams: optimum solution for mechanical suspensions.

Axle capacity available from 9 ton to 20 ton. Higher axle capacities on request.

ABS and automatic slack adjusters are optional.

Spoke wheel version is available.

### Benefits for Fleet Owners

One-piece beam design with integral spindle delivers an unbeatable combination of strength, lightweight, stiffness and reliability.

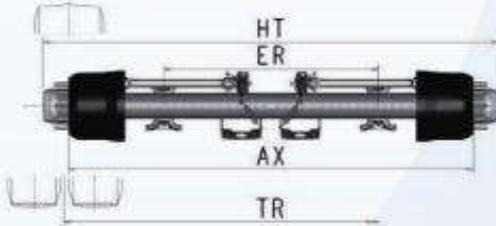
Heat treated beams and induction harden bearing seats, camshaft heads and splines increase service life.

Precise brake geometry to deliver responsive and consistent brake performance.

Premium brake linings with longer life and extend service intervals.

Most of the components for maintenance interval are available easy on the aftermarket.

## AXLES WITH DRUM BRAKES AXLES



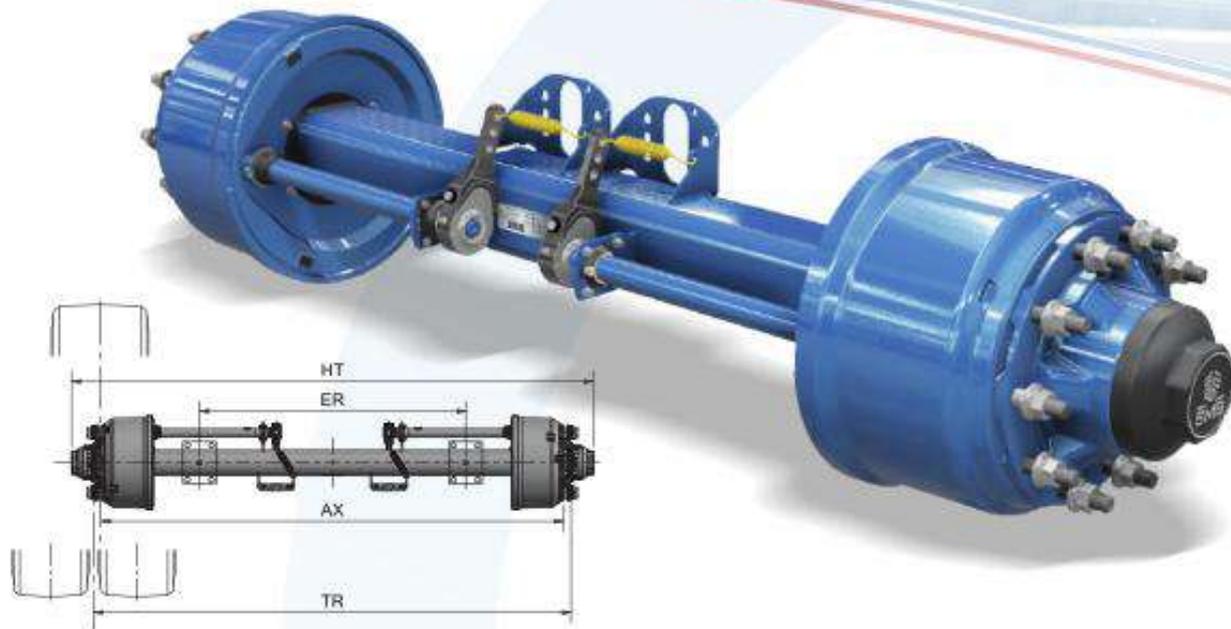
RIGID AXLES WITH DRUM BRAKES 300X200

reference	capacity (kg) <sup>(1)</sup>	wheel connection	OF (mm)	brake	axle beam (mm)	minimum wheel	wheel	example tyre	AX (mm)	TR <sup>(2)</sup> (mm)	ER <sup>(2)</sup> mini (mm)	HT (mm)	type SAE
OA RAM 60T R MM	10500	10xM22x1,5 • 175,8/225	0	302052	Ø 127	15"	twin	245/70 R17.5	1825	1850	950	2125	OA...60T
									2025	2050	1150	2325	
OA RAQ 60T R MM	12000	10xM22x1,5 • 175,8/225	0	302052	Ø 127	15"	twin	245/70 R17.5	1825	1850	1050	2125	OA...60T
									2025	2050	1250	2325	

(1) With tyre R max. 600 mm and ETO - (2) Available on request custom tracks and leafspring distance (ER)



# AXLES WITH DRUM BRAKES AXLES



## RIGID AXLES WITH DRUM BRAKES 420X180 (INBOARD)

reference	capacity (kg) <sup>(1)</sup>	wheel connection	OF (mm)	brake	axle beam (mm)	minimum wheel	wheel	example tyre	AX (mm)	TR <sup>(2)</sup> (mm)	ER <sup>(2)</sup> mini (mm)	HT (mm)	type SAE
OA RAM 40T 1 XY	10500	10xM22x1,5 -280,5/335	0	4218E	○ 127	20"	Simple or Twin	385/65 R22,5	1825 2025	1850 2050	940 1140	2125 2325	OA...40T
OA RAQ 40T 1 XY	12000	10xM22x1,5 -280,5/335	0	4218E	○ 127	20"	Simple or Twin	445/65 R22,5 12 R22,5	1825 2025	1850 2050	970 1170	2125 2325	OA...40T
OA 15H 40T 1 XY	12000	10xM22x1,5 -280,5/335	0	4218E	□ 150	20"	Simple or Twin	445/65 R22,5 12 R22,5	1825 2025	1850 2050	700 700	2125 2325	OA...40T
OA 15L 40V 1 XY	14000	10xM22x1,5 -280,5/335	0	4218E	□ 150	20"	Simple or Twin	445/65 R22,5 12 R22,5	1825 2025	1850 2050	700 700	2195 2395	OA...40V
OA 15M 40Y 1 XY	16000	10xM22x1,5 -280,5/335	0	4218E	□ 150	20"	Simple or Twin	12 R24	1825 2025	1850 2050	700 700	2155 2355	OA...40Y

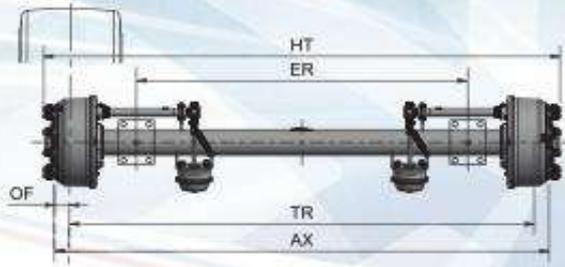
## RIGID AXLES WITH DRUM BRAKES 420X200 (INBOARD)

reference	capacity (kg) <sup>(1)</sup>	wheel connection	OF (mm)	brake	axle beam (mm)	minimum wheel	wheel	example tyre	AX (mm)	TR <sup>(2)</sup> (mm)	ER <sup>(2)</sup> mini (mm)	HT (mm)	type SAE
OA 15M 40Z 1 YY	18000	10xM24x1,5 -280,8/335	0	4220E	□ 150	20"	Simple or Twin	12 R24	1825 2025	1850 2050	700 720	2267 2467	OA...40Z
OA RPV 40Z 1 YY	18000	10xM24x1,5 -280,8/335	0	4220E	○ 152	20"	Simple or Twin	12 R24	1825 2025	1850 2050	720 920	2267 2467	OA...40Z
OA RPV 41W 1 YY	18000 (HD)	10xM24x1,5 -280,8/335	0	4220E	○ 152	20"	Simple or Twin	12 R24	1825 2025	1850 2050	720 920	2338 2538	OA...40W
OA 15... 40W 1 YY	20000	10xM24x1,5 -280,8/335	0	4220E	□ 150	20"	Simple or Twin	14 R20	1825 1925 2025 2125	1850 1950 2050 2150	700 700 700 700	2338 2438 2538 2638	OA...40W
OA RPV 40W 1 YY	20000	10xM24x1,5 -280,8/335	0	4220E	○ 152	20"	Simple or Twin	14 R20	1825 1925 2025 2125	1850 1950 2050 2150	830 930 1030 1130	2338 2438 2538 2638	OA...40W

(1) With tyre R max. 600 mm and ETO

(2) Available on request custom tracks and leafspring distance (ER)

# SPECIAL AXLES WITH DRUM BRAKES AXLES

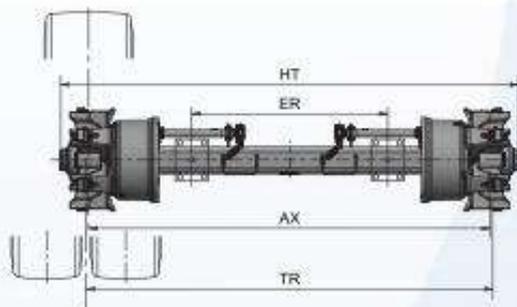


## RIGID AXLES WITH DRUM BRAKES 406X140 (OFFSET)

reference	capacity (kg) <sup>(1)</sup>	wheel connection	OF (mm)	brake	axle beam (mm)	minimum wheel	wheel	example tyre	AX (mm)	TR <sup>(2)</sup> (mm)	ER <sup>(2)</sup> mini (mm)	HT (mm)	type SAE
OA RAL 41T 1 W1	8000	10xM22x1,5 - 280,5/335	75	414E	○ 127	20"	single	10 R20	2000	1850	800	2110	OA...41T
									2490	2340	1290	2600	
OA RAM 41T 1 W1	10000	10xM22x1,5 - 280,5/335	75	414E	○ 127	20"	single	10 R20	2000	1850	890	2110	OA...41T
									2490	2340	1380	2600	

(1) With tyre R max. 600 mm and ETO

(2) Available on request custom tracks and leafspring distance (ER)



## RIGID AXLES WITH DRUM BRAKES 420X200 (SPOKE WHEEL)

reference	capacity (kg) <sup>(1)</sup>	wheel connection	OF (mm)	brake	axle beam (mm)	minimum wheel	wheel	example tyre	AX (mm)	TR <sup>(2)</sup> (mm)	ER <sup>(2)</sup> mini (mm)	HT (mm)	type SAE
OA 15M 44Z 1 YY	18000*	6xM20x2,0 Trilex 6 Spokes 24"	0	4220E	□ 150	Trilex 6 Spokes 24"	Simple or Twin	-	1825	1850	700	2267	OA...44Z
									2125	2150	700	2567	
OA RPV 44Z 1 YY	18000	6xM20x2,0 Trilex 6 Spokes 24"	0	4220E	○ 152	Trilex 6 Spokes 24"	Simple or Twin	-	1825	1850	720	2267	OA...44Z
									2125	2150	1020	2567	

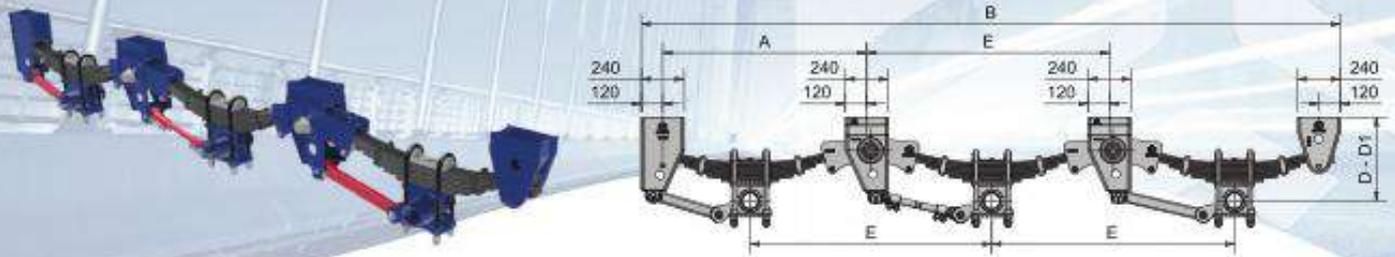
\* For special heavy duty trailers the capacity is limited to 16.000 kg

(1) With tyre R max. 600 mm and ETO

(2) Available on request custom tracks and leafspring distance (ER)



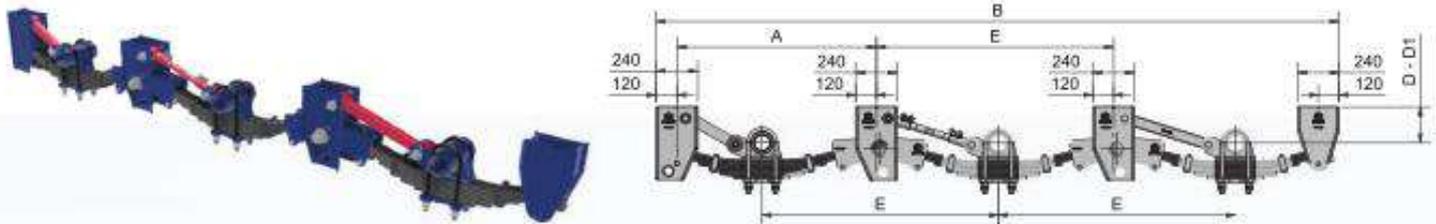
# MECHANICAL SUSPENSIONS TRIDEM



TRIDEM OKP SUSPENSION N TYPE WITH MULTI-LEAF SPRINGS WIDTH 90

reference	capacity (kg)	leaf spring	axle beam*	D* (mm)	D1* (mm)	E (mm)	A (mm)	B (mm)	type SAE
OKP 3 131 9E N RA 52	3x 10000	4159005 (8x13)	○ 127	524	477	1360	1145	3920	OKP3...N
OKP 3 136 9E N 15 51			□ 150	505	458	1360	1145	3920	
OKP 3 136 9C N RA 47	3x 12000	4159006 (7x16)	○ 127	473	440	1360	1145	3920	
OKP 3 136 9C N 15 52			□ 150	517	484	1360	1145	3920	
OKP 3 136 9B N 15 55	3x 14000	4159002 (11x13)	□ 150	548	504	1360	1145	3920	
OKP 3 155 D2 N 15 58		4159008 (10x18)	□ 150	582	551	1550	1330	4470	
OKP 3 136 9D N 15 55	3x 16000	4159003 (9x16)	□ 150	548	513	1360	1145	3920	
OKP 3 136 D1 N 15 50		4159007 (10x16)	□ 150	500	470	1360	1145	3920	
OKP 3 155 D2 N 15 58		4159008 (10x18)	□ 150	582	547	1550	1330	4470	

\* Available on request, custom ride height (D-D1) and axle beam



TRIDEM OKP SUSPENSION R TYPE WITH MULTI-LEAF SPRINGS WIDTH 90

reference	capacity (kg)	leaf spring	axle beam*	D* (mm)	D1* (mm)	E (mm)	A (mm)	B (mm)	type SAE
OKP 3 136 9E R 15 20	3x 10000	4159005 (8x13)	□ 150	200	153	1360	1145	3920	OKP3...R
OKP 3 136 9C R 15 20	3x 12000	4159006 (7x16)	□ 150	200	167	1360	1145	3920	
OKP 3 136 9B R 15 20	3x 14000	4159002 (11x13)	□ 150	200	155	1360	1145	3920	
OKP 3 155 D2 R 15 20		4159008 (10x18)	□ 150	200	169	1550	1330	4470	
OKP 3 136 9D R 15 20	3x 16000	4159003 (9x16)	□ 150	200	165	1360	1145	3920	
OKP 3 136 D1 R 15 20		4159007 (10x16)	□ 150	200	170	1360	1145	3920	
OKP 3 155 D2 R 15 20		4159008 (10x18)	□ 150	200	165	1550	1330	4470	

## Benefits for Trailer Manufacturers

Easily attach to the chassis due to practical and solid design of mounting brackets.

No special welding instructions needed due to use of high-strength weldable mounting brackets material.

Simple and precise axle alignment due to adjustable longitudinal torque arms.

Suspensions capacity available from 9 ton to 20 ton.

## Benefits for Fleet Owners

Longer service life due to high quality suspension parts.

Superior axle load equalization through equalizing rockers.

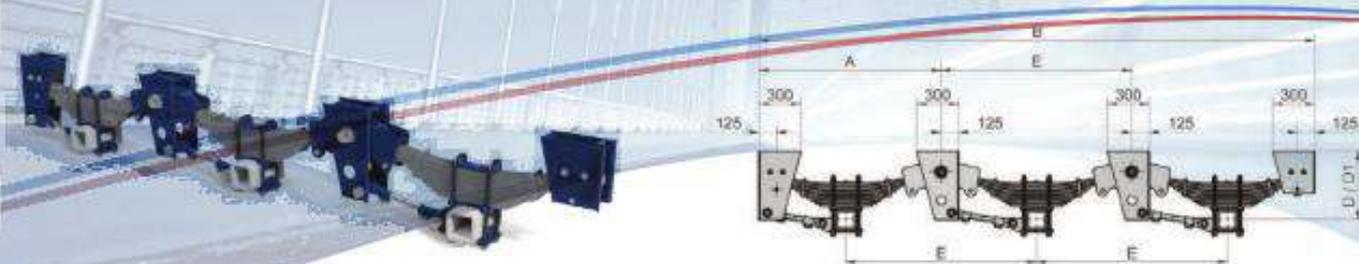
Less tyre wear due to precise track adjustment.

Easy to maintain.

Replaceable wear pads.



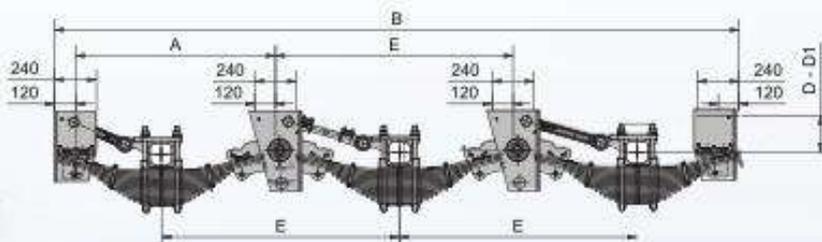
# MECHANICAL SUSPENSIONS TRIDEM



TRIDEM OKZ SUSPENSION N TYPE WITH **MULTI-LEAF** SPRINGS WIDTH 100

reference	capacity (kg)	leaf spring	axle beam*	D* (mm)	D1* (mm)	E (mm)	A (mm)	B (mm)	type SAE
OKZ 3 136 A4 N RP 53	3x 18000	4151038 (14L)	○ 152	535	505	1360	1250	3860	SM100 HDE
OKZ 3 136 A4 N 15 53			□ 150	535	505				
OKZ 3 141 A7 N RP 53	3x 18000	4151037 (14L)	○ 152	535	503	1410	1320	4050	
OKZ 3 141 A7 N 15 53			□ 150	535	503				
OKZ 3 150 A3 N RP 54	3x 18000	4151035 (14L)	○ 152	560	530	1500	1397	4294	
OKZ 3 150 A3 N 15 54			□ 150	560	530				
OKZ 3 136 A4 N RP 5301	3x 20000	4151038 (14L)	○ 152	535	503	1360	1250	3860	
OKZ 3 136 A4 N 15 5301			□ 150	535	503				
OKZ 3 141 A7 N RP 5301	3x 20000	4151037 (14L)	○ 152	535	500	1410	1320	4050	
OKZ 3 141 A7 N 15 5301			□ 150	535	500				
OKZ 3 150 A3 N RP 5401	3x 20000	4151035 (14L)	○ 152	560	527	1500	1397	4294	
OKZ 3 150 A3 N 15 5401			□ 150	560	527				

\* Available on request, custom ride height (D - D1) and axle beam



TRIDEM OKZ SUSPENSION R TYPE WITH **MULTI-LEAF** SPRINGS WIDTH 100

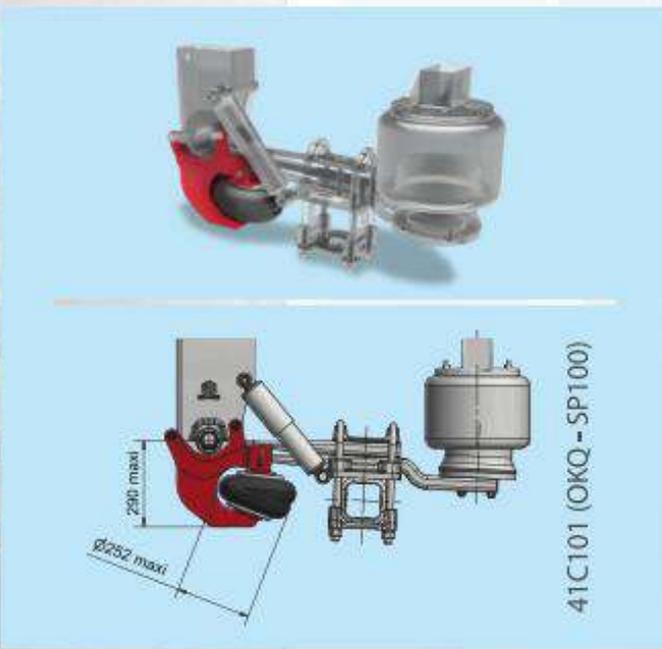
reference	capacity (kg)	leaf spring	axle beam*	D* (mm)	D1* (mm)	E (mm)	A (mm)	B (mm)	type SAE
OKZ 3 136 A4 R 15 24	3x 18000	4151038 (14L)	□ 150	241	210	1360	1290	3900	SM100 HDE
OKZ 3 141 A7 R 15 24	3x 18000	4151037 (14L)	□ 150	241	209	1410	1320	4050	
OKZ 3 150 A3 R 15 24	3x 18000	4151035 (14L)	□ 150	235	205	1500	1397	4294	
OKZ 3 136 A4 R 15 2401	3x 20000	4151038 (14L)	□ 150	241	208	1360	1290	3900	
OKZ 3 141 A7 R 15 2401	3x 20000	4151037 (14L)	□ 150	241	207	1410	1320	4050	
OKZ 3 150 A3 R 15 2401	3x 20000	4151035 (14L)	□ 150	235	202	1500	1397	4294	

\* Available on request, custom ride height (D - D1) and axle beam



# PNEUMATIC SUSPENSIONS

## AIR



### Benefits for Trailer Manufacturers

- Easy to fit to all standard trailer axle sizes (ø 127mm, ø 146mm, □ 150mm).
- Compatible with drum.
- Straight hanger brackets for greater resistance.
- Simple axle alignment in the hanger brackets (eccentric bush).
- Capacity available from 9 ton to 13 ton.
- Wide range of ride heights and offsets are available.

### Benefits for Fleet Owners

- Suitable for most trailer types and suitable for most road conditions worldwide.
- Unmatched durability due to flexible high strength spring steel.
- Shock absorbers with the stroke limiter to reduce part complexity.
- Reduce tire wear and increased stability due to double bounded steel-rubber-steel high density rubber bushing.
- Excellent ride quality and well cargo protection.
- Axle lift device is optional for less fuel consumption and maintenance cost.



# PNEUMATIC SUSPENSIONS AIR

## AIR SUSPENSION OKQ SP70HD TYPE AIRWINGS (with spring "N" - 1 leaf width 70 x 62 mm)



reference	capacity (kg)	leaf spring	axle beam*	air spring	FH* min-max (mm)	L1 / L2 (mm)	A (mm)	H (mm)	D (mm)	weight poinds (kg)	type SAE
OKQ 09 D2 N RA 48	9000	70x62	○ 127	41B35002	480-570	500/330	271	295	350	148	SP70 HD
OKQ 09 D2 N RN 28	9000	70x62	○ 146	41B35001	280-330	500/380	246	145	350	143	
OKQ 09 D2 N RN 32	9000	70x62	○ 146	41B35001	320-360	500/380	256	145	350	138	
OKQ 09 D2 N RN 38	9000	70x62	○ 146	41B35001	380-430	500/330	246	145	350	131	
OKQ 09 D2 N RN 41	9000	70x62	○ 146	41B35001	405-455	500/330	266	210	350	138	
OKQ 09 D2 N RN 48	9000	70x62	○ 146	41B35002	480-570	500/330	271	295	350	148	

## AIR SUSPENSION TYPE OKQ SP100 HD (with spring "S" - 2 leaf width 100 mm)



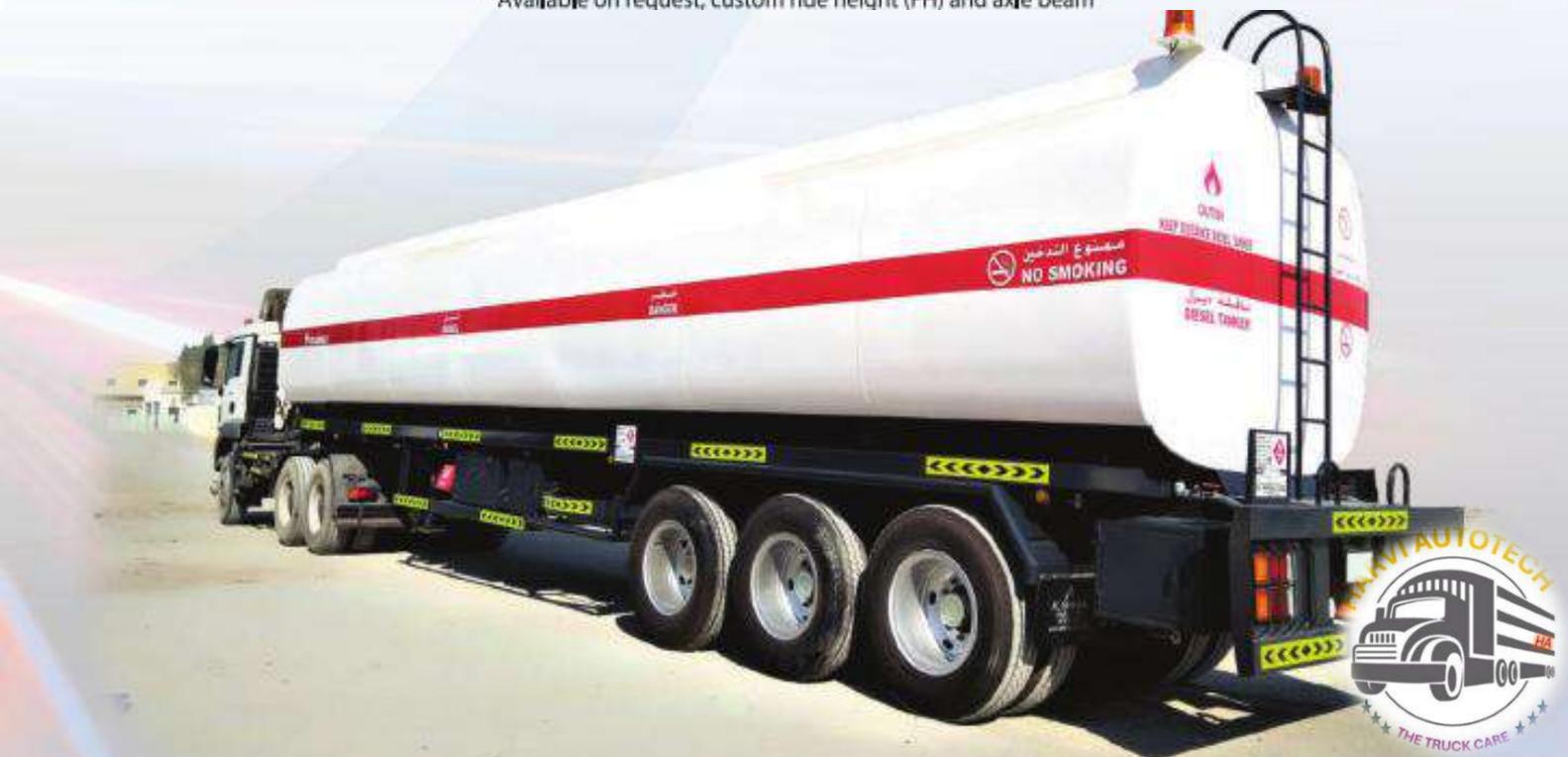
reference	capacity (kg)	leaf spring	axle beam*	air spring	FH* min-max (mm)	L1 / L2 (mm)	A (mm)	H (mm)	D (mm)	weight poinds (kg)	type SAE
OKQ 12 H2 R RA 18	12000	100x45/45	○ 127	41B35001	175-240	530/420	265	260	350	205	SP100 HD
OKQ 12 H2 R RA 29	12000	100x45/45	○ 127	41B35001	285-340	530/420	265	360	350	218	
OKQ 12 H2 R 15 18	12000	100x45/45	□ 150	41B35001	175-240	530/420	265	260	350	226	
OKQ 13 H2 R RA 18	13000	100x45/45	○ 127	41B35001	175-240	530/420	265	260	350	205	
OKQ 13 H2 R RA 29	13000	100x45/45	○ 127	41B35001	285-340	530/420	265	360	350	218	
OKQ 13 H2 R 15 18	13000	100x45/45	□ 150	41B35001	175-240	530/420	265	260	350	226	

## AIR SUSPENSION TYPE OKQ SP100 HD (with spring "N" - 2 leaf width 100 mm)

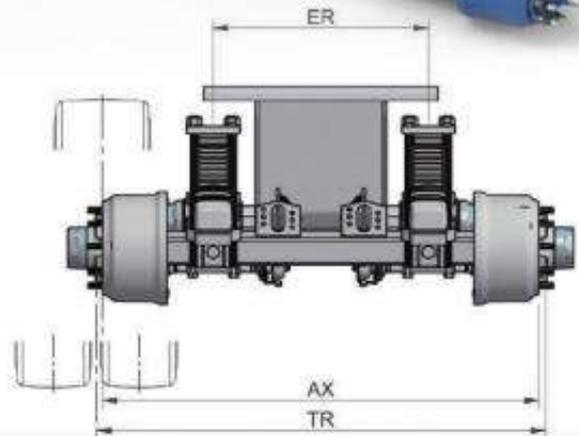
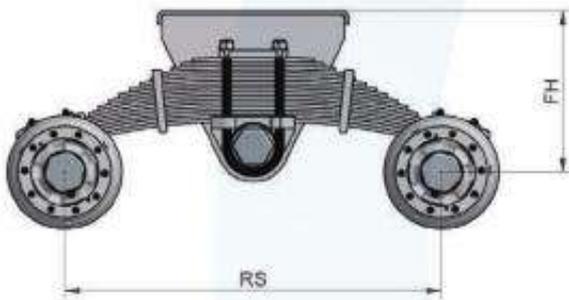


reference	capacity (kg)	leaf spring	axle beam*	air spring	FH* min-max (mm)	L1 / L2 (mm)	A (mm)	H (mm)	D (mm)	weight poinds (kg)	type SAE
OKQ 12 H2 N RA 40	12000	100x45/45	○ 127	41B35001	395-440	530/380	265	235	350	207	SP100 HD
OKQ 12 H2 N 15 42	12000	100x45/45	□ 150	41B35001	420-460	530/380	265	235	350	220	
OKQ 12 H2 N 15 54	12000	100x45/45	□ 150	41B35001	525-565	530/380	265	340	350	263	
OKQ 13 H2 N RA 40	13000	100x45/45	○ 127	41B35001	395-440	530/380	265	235	350	207	
OKQ 13 H2 N RA 45	13000	100x45/45	○ 127	41B35001	445-490	530/380	265	285	350	219	
OKQ 13 H2 N 15 42	13000	100x45/45	□ 150	41B35001	420-460	530/380	265	235	350	220	
OKQ 13 H2 N 15 54	13000	100x45/45	□ 150	41B35001	525-565	530/380	265	340	350	263	

\* Available on request, custom ride height (FH) and axle beam



# SPECIAL PRODUCTS BOGIE SUSPENSIONS



BOGGIES TYPE OG "CENTRAL BRACKET" Z1

reference	capacity (kg)	leaf spring	axle beam	TR* (mm)	AX (mm)	RS* (mm)	ER* (mm)	HF (mm)	type SAE
OG 1 Z1 89	2x14000	16x (120x16)	<input type="checkbox"/> 150	1850	1825	1500	900	660	OG...Z1
OG 1 Z1 89	2x14000	16x (120x16)	<input type="checkbox"/> 150	2150	2125	1500	1150	660	
OG 1 Z1 88	2x16000	17x (120x18)	<input type="checkbox"/> 150	1850	1825	1550	900	660	
OG 1 Z1 88	2x16000	17x (120x18)	<input type="checkbox"/> 150	2150	2125	1550	1150	660	
OG 1 Z1 88	2x16000	17x (120x18)	<input type="checkbox"/> 150	2450	2425	1550	1450	660	
OG 1 Z1 88	2x18000	17x (120x18)	<input type="checkbox"/> 150	1850	1825	1550	900	660	
OG 1 Z1 88	2x18000	17x (120x18)	<input type="checkbox"/> 150	2150	2125	1550	1150	660	
OG 1 Z1 88	2x18000	17x (120x18)	<input type="checkbox"/> 150	2450	2425	1550	1450	660	
OG 1 Z1 88	2x18000	17x (120x18)	<input type="checkbox"/> 150	2450	2425	1550	1450	660	

\* Available on request, custom: track, clamping beam, ride height (FH), Spring distance (ER) and wheelbase (RS).

## Benefits for Trailer Manufacturers

- Available in high mount and low mount versions.
- Factory pre-assembled, ready to fit.
- Easy installation with bolt-on connection.
- Greater axle articulation in a wide range of capacity.
- Spoke wheel version is available.

## Benefits for Fleet Owners

- Applicable for on/off road operation.
- Bronze trunnion bushings for minimal maintenance.
- High compensation movement with an optimum load distribution between axles.
- Inbuilt excellent lateral stability.
- Not sensitive to semi-trailer slope.



## Contact Us

Mr. Amit –   +91 9833930654 / 9702755559

Mail – [info@harviautotech.com](mailto:info@harviautotech.com)

Web - [www.harviautotech.com](http://www.harviautotech.com)



**Thank You !**