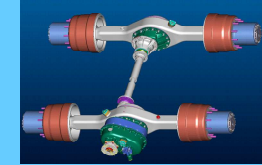
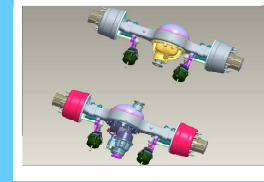


# HV Axles

**PRODUCT: REAR AXLE ASSEMBLY**



**FEATURES & SPECIFICATIONS**

SL. NO.	DIMENSION	LIVE AXLE			DUMMY			TANDEM		HUB REDUCTION	
		HVA 109RR-1	HVA 109RR-2	HVA 108RR -1	HVA 9092-1	HVA 9092-2	HVA 9092-3	SRT 1	SRT 2	HR210T	HR210S
1	SPRING C / C DISTANCE	1044	1055	1055	1044	1055	1055	1044	1044		
2	SPRING SADDLE TOP - HOLE SIZE	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5		
3	DISTANCE FROM ANCHORPLATE (BRAKE) FACE TO SPRING CENTRE BOLT LOCATING HOLE ON SADDLE TOP )	110	105	123	110	105	105			Suspension as per vehicle requirement	Suspension as per vehicle requirement
4	HOLES ON SPRING SADDLE BOTTOM FOR U BOLT MOUNTING		25	25	25	25	25	25	25		
	SPACE BETWEEN BOLTS	205	205	205	205	205	205	232	232		
	U BOLT CENTRE DISTANCE	104	104	104	104	104	104	104	104		
5	HUB BEARINGS :	168.3 X 95.25 & 150 X 85	168.3 X 95.25 & 150 X 85	145 X 95 & 125 X 75	168.3 X 95.25 & 150 X 85	168.3 X 95.25 & 150 X 85	168.3 X 95.25 & 150 X 85	168.3 X 95.25 & 150 X 85	168.3 X 95.25 & 150 X 85	200 X 110 200 X 110	200 X 110 200 X 110
6a	HUB LUBRICATION	Grease	Grease	Grease	Grease	Grease	Grease	Grease	Grease	Oil filled	Oil filled
6b	Drive head (Carrier assly) Lubrication method	Splash	Splash	Splash	NA	NA	NA	Oil Pump	Oil Pump	Oil Pump	Oil Pump
7	WEIGHT OF AXLE (Kg)	679	679	524	340	340	340	Fwd: 850 Rwd: 700 240	Fwd: 850 Rwd: 700 240	Fwd: - 950 Kgs Rwd: -800 Kgs 305	-800 Kgs
8	GROUND CLEARANCE (mm)	235	235	276	500	500	500				305
9	BEAM SECTION & SIZE :	RECTANGULAR , 150 X 135 X 14 THICK, 28 RADIUS, St 52-3	RECTANGULAR , 150 X 135 X 14 THICK, 28 RADIUS, St 52-3	RECTANGULAR , 150 X 135 X 12 THICK, 24 RADIUS, St 52-3	RECTANGULAR 140 X 135 X 14 THICK, 26 RADIUS, St 52-3	RECTANGULAR 150 X 135 X 14 THICK, 26 RADIUS, St 52-3	RECTANGULAR 150 X 135 X 14 THICK, 26 RADIUS, St 52-3	RECTANGULAR 155 x 144 x 14 THICK 28RADIUS, St 52-3	RECTANGULAR 155 x 144 x 14 THICK 28RADIUS, St 52-3	RECTANGULAR 150 X 135 X 16 THICK, 32 RADIUS, St 52-3	RECTANGULAR 150 X 135 X 16 THICK, 32 RADIUS, St 52-3
10	BEAM MATERIAL										
11	BRAKES :	AIR BRAKE 410 DIA X 180,	AIR BRAKE 410 DIA X 180,	AIR BRAKE 410 DIA X 180,	AIR BRAKE 410 DIA X 180,	AIR BRAKE 410 DIA X 180,	AIR BRAKE 410 DIA X 180,	AIR BRAKE 410 DIA X 180,	AIR BRAKE 410 DIA X 180,	AIR BRAKE 410 DIA X 220	AIR BRAKE 410 DIA X 220
12	SLACK ADJUSTMENT	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO
13	DRUM / WHEEL PCD :	335	335	275	335	335	335	335	335	335	335
14	WHEEL RIM FIXING DIA :	280.8	280.8	218.7	280.8	280.8	280.8	280.8	280.8	280.8	280.8
15	BOLTS :	M22 X 2.5 ( 10 NOS. )	M22 X 2.5 ( 10 NOS. )	M22 X 2.5 ( 8 NOS. )	M22 X 2.5 ( 10 NOS. )	M22 X 2.5 ( 10 NOS. )	M22 X 2.5 ( 10 NOS. )	M22 X 2.5 ( 10 NOS. )	M22 X 2.5 ( 10 NOS. )	M22 X 2.5 ( 10 NOS. )	M22 X 2.5 ( 10 NOS. )
16	RATED OUTPUT TORQUE IN FORWARD DIRECTION PEAK /CONTINUOUS	2800 / 840 Kgm	2800 / 840 Kgm	1800 kgm / 540 kgm	NA	NA	NA	6000/900Kgm	6000/900Kgm	10000 / 3000 Kg	5900 / 1800 kgm
17	RATIO OF CROWN WHEEL & PINION CROWN WHEEL DIA	41/6 ; 41/7 440 DIA	41/6 ; 41/7 440 DIA	45/7 ; 37/7 ; 41/7 ; 41/6 368 DIA	NA	NA	NA	43/7	41/6	28/15, 30/17,30/19 etc 3.478 (Hub Redn)	28/15,30/19,29/15 3.478 (Hub Redn)
18	QTY / SPEC OF OIL (TO BE FILLED UPTO FILLER PLUG)	12 L SAE 85W140	12 L SAE 85W140	8 L SAE 85W140	NA	NA	NA	19L/14L	19L/14L	26L/ 14L	14L
19	TRACK ( mm )	1814	1814	1809	1844	1844	1950	1814	1905	1860 / 1905	1860 / 1905
20	RATED LOAD ( t )	10	10	8	10	10	10				
21	GUARANTEE	1,50,000 Km	1,50,000 Km	1,50,000 Km	1,50,000 Km	1,50,000 Km	1,50,000 Km	1,50,000 Km	1,50,000 Km	1,50,000 Km	1,50,000 Km

(Specifications subject to change without notice)

**FOR FURTHER ENQUIRIES CONTACT:**

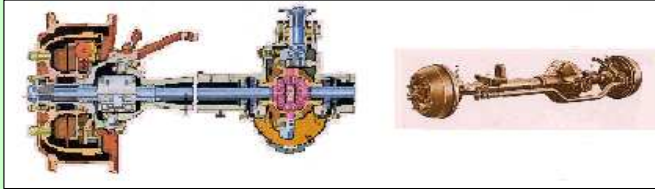
Mr. P.K.Choudhary

HV Axles Ltd., C/o TATA Motors Ltd, Jamshedpur - 831010, India

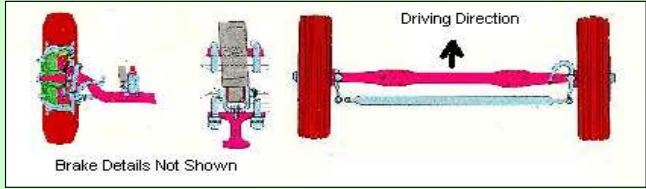
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## LIVE FRONT AXLE ASSY.



## FRONT AXLE ASSY.



### FEATURES & SPECIFICATIONS

SL. NO.	DIMENSION	DRG NO.:	DRG NO.:
		HVA - 610	HVA - 1210
7	WEIGHT OF AXLE (Kg)	415	435
8	GROUND CLEARANCE (With 9 X 20 Tyres)	281	281
9	TUBE SEC. & SIZE	CIRCULAR - OD : 120 , ID : 87	CIRCULAR - OD : 120 , ID : 87
10	BRAKES :	405 DIA X 100 WIDE DUAL AIR OVER HYDRAULIC	405 DIA X 100 WIDE DUAL AIR OVER HYDRAULIC
11	DRUM / WHEEL PCD :	275	275
12	WHEEL RIM FIXING DIA :(mm)	218.7	218.7
13	WHEEL BOLTS :	M 20 X 2.5 ( 8 NOS. )	M 22 X 2.5 ( 8 NOS. )
14	TRACK	1760	1991
15	RATED LOAD ( Kg )	4060	4060
16	TOE IN	0 - 3	0 - 3
17	RATED OUTPUT TORQUE IN FORWARD DIRECTION ( mKg ) PEAK / CONTINUOUS:	670 / 200	670 / 200
18	RATIO & DIA OF CROWN WHEEL & PINION	37 / 7 , 41 / 6 , 41 / 7 ( 345 mm DIA )	41 / 6 , 41 / 7 ( 345 mm DIA )
19	QTY / SPEC. OF OIL:	3.5 Litre ( 85 W 140 )	4.35 Litre ( 85 W 140 )
20	GUARANTEE	1,50,000 KM	1,50,000 KM

SL. NO.	DIMENSION	Drg No. :	DRG NO.	DRG NO.
		HVA-FA 1312	HVA - FA 1516	HVA - FA 1109
7	WEIGHT OF AXLE (Kg)	375	400	275
8	GROUND CLEARANCE	308	317	210
9	BEAM SECTION & SIZE :	I - SECTION : 80 mm X 93 mm	I - SECTION : 80 mm X 93 mm	I - SECTION : 83 mm X 85 mm
10	BRAKES : SLACK ADJUSTER	AIR BRAKE ; 405 DIA X180, MANUAL	AIR BRAKE ; 405 DIA X180, MANUAL	AIR BRAKE ; 360 DIA X140, MANUAL
11	DRUM/WHEEL PCD :	275	335 mm	275 mm
12	WHEEL RIM FIXING DIA :	230	282 °	230 mm
13	BOLTS :	M 22 x 2.5 8 nos	M 22 x 2.5 10 nos.	M 20 x 2.5 8 nos.
14	TRACK	1933	1964	1800
15	RATED LOAD ( t )	6	6	3 ton
16	TOE IN	0 - 3	0 - 3	0 - 3
17	GUARANTEE	1,50,000 Km	1,50,000 Km	1,50,000 Km

NOTE: Specifications are subject to change without notice.

ALL DIMENSIONS ARE IN MM.

**Crown Wheel & Pinion ...the range**

SL NO	MODEL		PART NO	OD	MODULE	SPIRAL ANGLE	PRESS ANG	WHOLE DEPTH
1	RA 109 RR 41/7	CW	2732 3530 5419	440	7.82	31 05' 35"	22 30'	15.38
		PIN	2732 3530 5420	65	7.82	43 11' 08 "	22 30'	15.38
2	41/7 ORLIKON	CW	2668 3530 5413	368	6.50	32 42' 00"	22 30'	13.21
		EN PIN	2668 3530 5423	60	6.50	47 00' 01"	22 30'	13.21
3	41/11 S. AFRICAN TAXI	CW	2730 3530 5408	368	6.62	31 35' 31"	22 30'	14.91
		PIN	2730 3530 5407	60	6.62	45 22' 45"	22 30'	14.9
4	48/7 RH RA 109(O)	CW	2669 3530 5404	433	6.34	36 15' 00"	22 30'	14.58
		PIN	2669 3530 5403	65	6.34	48 18' 01"	22 30'	14.58
5	43/7 RH RA 109RR	CW	2732 3530 5445	440	7.47	30 60' 00"	22 30'	17.34
		PIN	2732 3530 5444	65	7.47	43 05' 59"	22 30'	17.33
6	41/6 RH RA 109 RR	CW	2732 3530 5417	440	7.79	31 21' 47"	22 30'	15.39
		PIN	2732 3530 5418	65	7.79	43 32' 05"	22 30'	15.39
7	41/7 GSB	CW	2604 3530 5401	346	8.42	34 23' 00"	20 00'	13.92
		PIN	2604 3530 5402	45	8.42	34 23' 00"	20 00'	13.92
8	37/7 (O) RHG	CW	2668 3530 5415	368	7.20	32 50' 53"	22 30'	15.4
		PIN	2668 3530 5416	60	7.20		22 30'	15.4
9	43/7(O) RH SET	CW	5810 3530 5406	440	7.47	31 00' 00"	22 30'	17.3306
		PIN	5810 3530 5405	65	7.47	43 06' 01"	22 30'	17.3306
10	28/15	CW	2739 3530 5411	306	7.72	33 30' 00"	22 30'	17.76
		PIN	2727 3530 5410	75	2.00	NA	30 00'	NA
		CW	2727 3530 5409	306	7.72	33 30' 00"	22 30'	17.76