



EJES AGRICOLAS E INDUSTRIALES

Agricultural and Industrial Axles



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Rotowheel and Tyre Ltd

Included in this
Catalogue

RIGID AXLES

Unbraked rigid stubaxles
Braked rigid stubaxles
Leashes axles
Unbraked rigid axles
Braked rigid axles - solid drum
Braked rigid axles - hub and drum
Semi-industrial braked rigid axles - hub and drum

STEERING AXLES

Technical information
Self Steering Axles
Forced Steering Axles
Steering Axles Components

Further details of these
items available in full
catalogue please enquire

SUSPENSIONS

Products range
Tandems
Boggies
Spring drawbar
Parabolic leaf spring

SPARE PARTS

Hub and brake assembly
Hubs - Drums (solid drum)
Drums (assambled drums) - Tapered roller bearings
Wheel studs - Hub Caps - Wheel washers
Brake accesories - Seal ring

OTHER PRODUCTS

Towing Eyes
Hydraulic crutches
Turntables
Turntables assembly and maintenance
Brake levers
Wheel chock and chock holder
Brake System Manual Action
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Special assemblies

INFORMATION

Introduction
General characteristics axles
Load capacity
Brake approvals



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AXLES & TYRES

EJES AGRICOLAS E INDUSTRIALES

Agricultural and Industrial Axles

RIGID AXLES

Unbraked rigid stubaxles

Braked rigid stubaxles

Leashes axles

Unbraked rigid axles

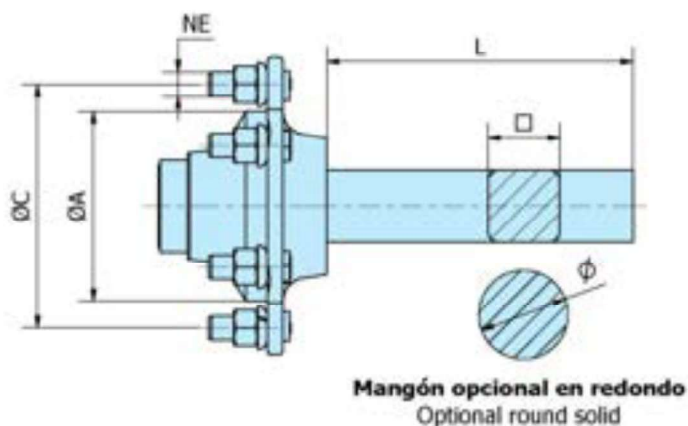
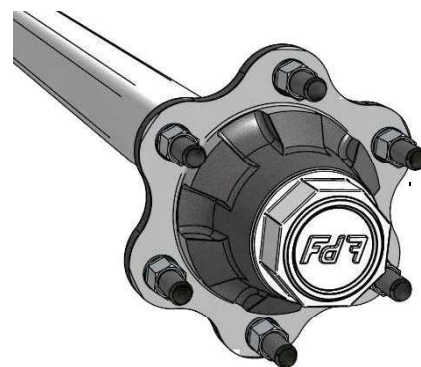
Braked rigid axles—solid drum (1)

Braked rigid axles—solid drum (2)

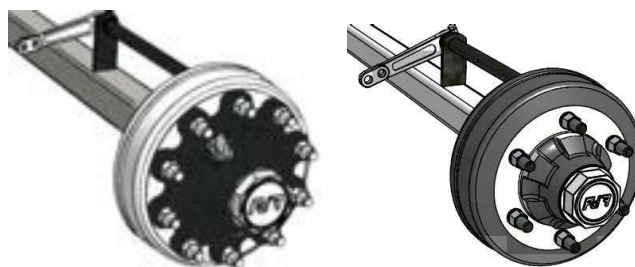
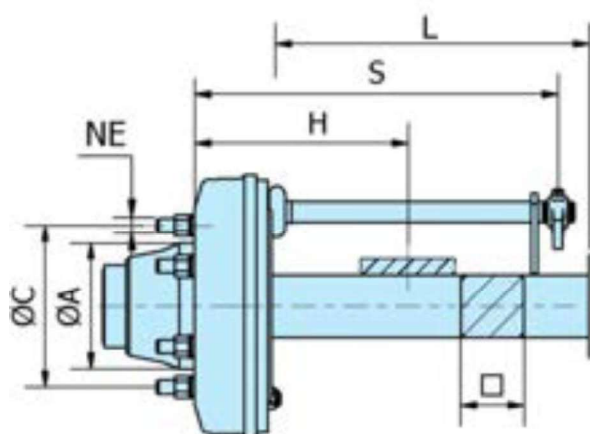
Braked rigid axles - hub and drum (1)

Braked rigid axles - hub and drum (2)

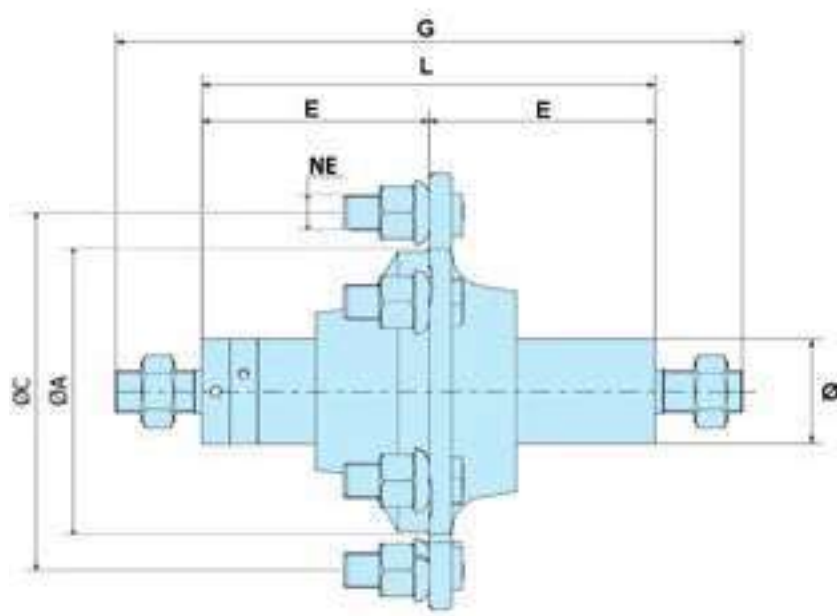
Semi-industrial braked rigid axles - hub and drum



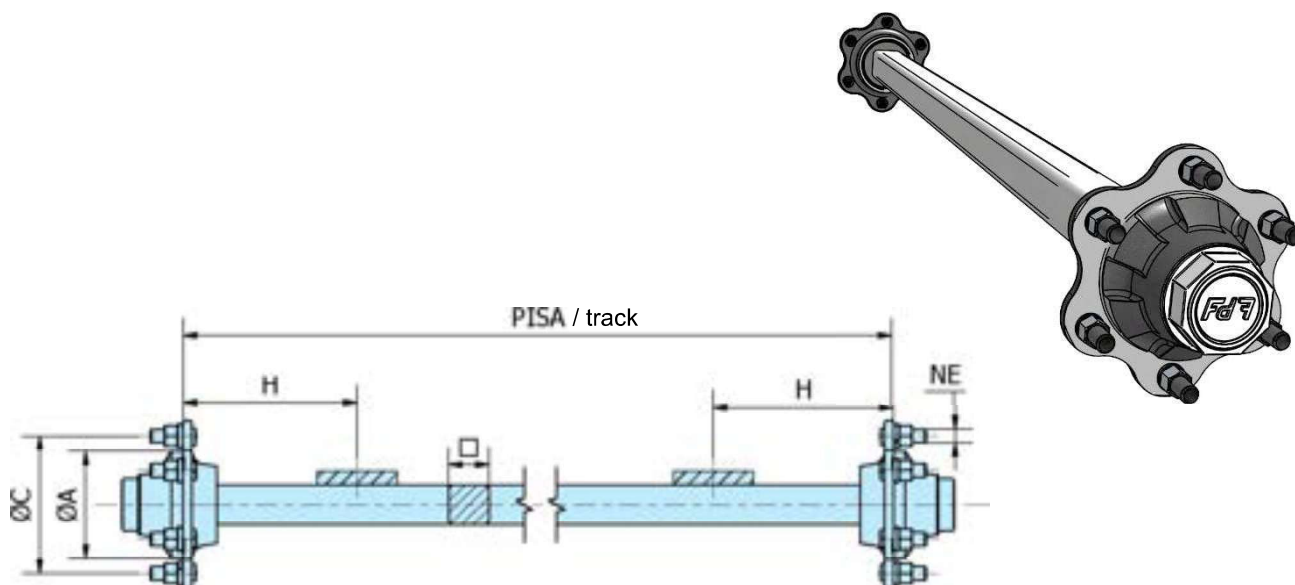
REFERENCIA Reference	CUA. Square  mm	RODAMIENTOS Bearings		ATAQUE Wheel fixing ØA mm ØC mm NE			L Standard mm	CARGA POR SEMI-EJE Capacity per stubaxle 40 km/h			PESO Weight kg
											
								kg	kg	kg	
H030025000-04	30	30204	30205	58	98	4 x M12	200	525	450	375	3,5
H035025000-04	35	30204	30205	58	98	4 x M12	200	525	450	375	4,5
H040035000-02	40	30205	30207	93	140	5 x M16	200	975	825	725	7,0
H045040000-02	45	30206	30208	93	140	5 x M16	200	1250	1050	900	8,5
H050045000-02	50	30206	30209	93	140	5 x M16	200	1600	1350	1200	9,4
H050045000-07	50	30206	30209	160	205	6 x M18	200	1600	1350	1200	10,0
H060055000-07	60	30208	30211	160	205	6 x M18	200	2500	2000	1750	17,0
H070055000-07	70	30208	30211	160	205	6 x M18	200	2500	2000	1750	18,9
H070065000-07	70	32210	30213	160	205	6 x M18	200	3750	3250	3000	21,5
H070065000-0B	70	32210	30213	160	205	6 x M20	200	3750	3250	3000	21,5
H070065000-08	70	32210	30213	220	275	8 x M20	200	3750	3250	3000	25,5
H080065000-07	80	32210	30213	160	205	6 x M18	200	3750	3250	3000	23,0
H080065000-0B	80	32210	30213	160	205	6 x M20	200	3750	3250	3000	23,0
H080065000-08	80	32210	30213	220	275	8 x M20	200	3750	3250	3000	27,0
H080075000-07	80	32212	32215	160	205	6 x M18	200	4500	4000	3750	26,2
H080075000-0B	80	32212	32215	160	205	6 x M20	200	4500	4000	3750	26,2
H080075000-08	80	32212	32215	220	275	8 X M20	200	4500	4000	3750	29,5
H090075000-07	90	32212	32215	160	205	6 x M18	200	4500	4000	3750	29,0
H090075000-0B	90	32212	32215	160	205	6 x M20	200	4500	4000	3750	29,0
H090075000-08	90	32212	32215	220	275	8 X M20	200	4500	4000	3750	32,3
H090085000-08	90	32214	32217	220	275	8 x M20	200	6250	5500	4750	35,5
H100085000-08	100	32214	32217	220	275	8 x M20	200	6250	5500	4750	38,5



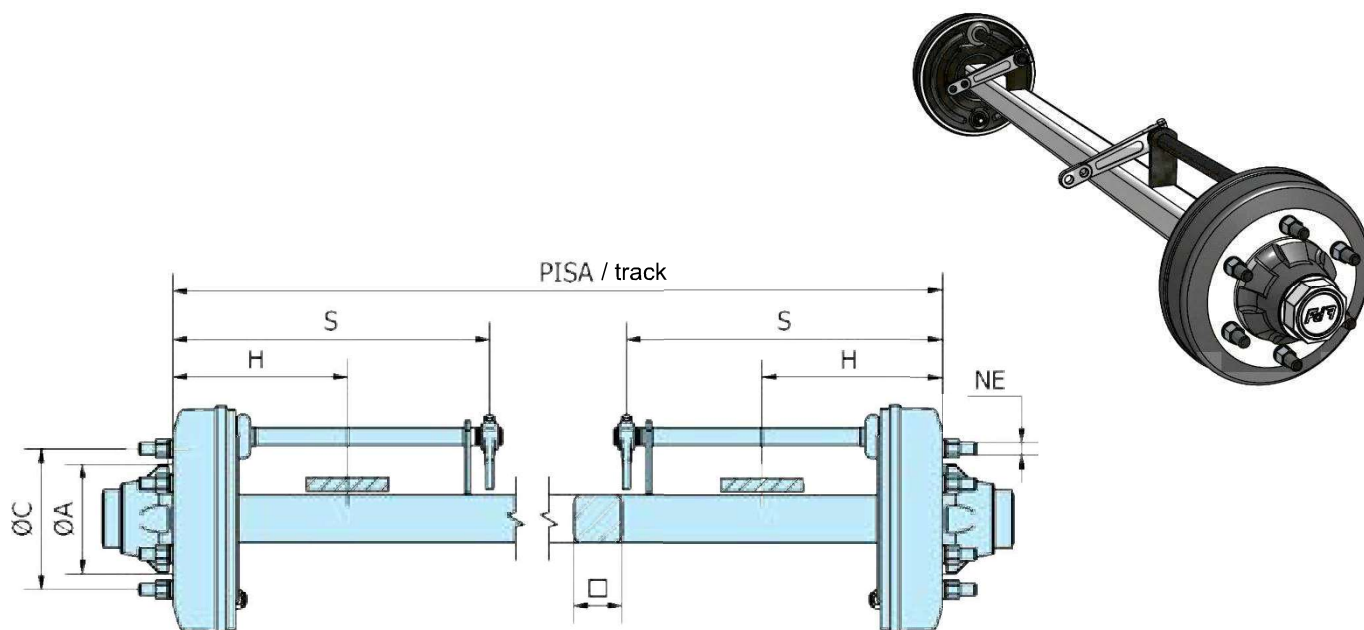
REFERENCIA	CUA.	RODAMIENTOS		ATAQUE			L	S	CARGA POR SEMI-EJE			PESO	FRENOS
Reference	Square	Bearings		Wheel fixing					Capacity per stubaxle			Weight	Brakes
				ØA	ØC	NE			Standard				
	mm			mm	mm		mm	kg	kg	kg	kg		
H040035200-42	40	30205	30207	93	140	5 x M16	360	380	975	825	725	7,0	200 x 40
H045040200-42	45	30206	30208	93	140	5 x M16	360	380	1250	1050	900	8,5	200 x 40
H050045200-42	50	30206	30209	93	140	5 x M16	360	380	1600	1350	1200	9,4	200 x 40
H050045250-67	50	30206	30209	160	205	6 x M18	340	384	1600	1350	1200	10,2	250 x 60
H060055250-67	60	30208	30211	160	205	6 x M18	340	384	2500	2000	1750	17,0	250 x 60
H060055300-67	60	30208	30211	160	205	6 x M18	410	460	2500	2000	1750	17,8	300 x 60
H070055250-67	70	30208	30211	160	205	6 x M18	340	384	2500	2000	1750	18,0	250 x 60
H070055300-67	70	30208	30211	160	205	6 x M18	410	460	2500	2000	1750	18,9	300 x 60
H070065300-67	70	32210	30213	160	205	6 x M18	410	460	3750	3250	3000	21,5	300 x 60
H070065300-6B	70	32210	30213	160	205	6 x M20	410	460	3750	3250	3000	21,5	300 x 60
H070065300-68	70	32210	30213	220	275	8 x M20	410	460	3750	3250	3000	25,5	300 x 60
H080065300-67	80	32210	30213	160	205	6 x M18	410	460	3750	3250	3000	23,0	300 x 60
H080065300-6B	80	32210	30213	160	205	6 x M20	410	460	3750	3250	3000	23,0	300 x 60
H080065300-68	80	32210	30213	220	275	8 x M20	410	460	3750	3250	3000	27,0	300 x 60
H080075300-67	80	32212	32215	160	205	6 x M18	410	460	4500	4000	3750	26,2	300 x 60
H080075300-6B	80	32212	32215	160	205	6 x M20	410	460	4500	4000	3750	26,2	300 x 60
H080075300-68	80	32212	32215	220	275	8 X M20	410	460	4500	4000	3750	29,5	300 x 60
H080075350-68	80	32212	32215	220	275	8 X M20	560	630	4500	4000	3750	29,5	350 x 60
H090075300-67	90	32212	32215	160	205	6 x M18	410	460	4500	4000	3750	29,0	300 x 60
H090075300-6B	90	32212	32215	160	205	6 x M20	410	460	4500	4000	3750	29,0	300 x 60
H090075300-68	90	32212	32215	220	275	8 X M20	410	460	4500	4000	3750	32,3	300 x 60
H090075350-68	90	32212	32215	220	275	8 X M20	560	630	4500	4000	3750	32,3	350 x 60
H090085350-68	90	32214	32217	220	275	8 x M20	560	630	6250	5500	4750	35,5	350 x 60
H100085350-68	100	32214	32217	220	275	8 x M20	560	630	6250	5500	4750	38,5	350 x 60



REFERENCIA Reference	Ø EJE Ø Axis mm	PASADOR Bolt	RODAMIENTOS Bearings	ATAQUE Wheel fixing				G mm	L Standard mm	CARGA POR SEMI-EJE Capacity per stubaxle 40 km/h kg	PESO Weight kg
				ØA mm	ØC mm	NE	E mm				
T045040000-020H	45	M18	30206 30208	93	140	5 x M16	85	260	170	1250	6.7
T050045000-020L	50	M18	30206 30209	93	140	5 x M16	100	290	200	1600	7.5
T060055000-0B0T	60	M24	30208 30211	160	205	6 x M20	130	360	260	2500	14.7
T070065000-0B0V	70	M24	30210 30213	160	205	6 x M20	140	380	280	3750	19.4
T080075000-0B18	80	M30	30212 30215	160	205	6 x M20	150	400	300	4500	25,0
T090075000-0B18	90	M30	30212 30215	160	205	6 x M20	150	400	300	4500	27.4
TR090085000-081P	90	M30	30214 30217	220	275	8 x M20	275	650	550	6250	52,0
TR100085000-081P	100	M30	30214 30217	220	275	8 x M20	275	650	550	6250	56,0



REFERENCIA Reference	CUA. Square  mm	RODAMIENTOS Bearings		ATAQUE Wheel fixing			H mm	CARGA POR EJE Capacity per axle 40 km/h			PESO Weight kg
				ØA mm	ØC mm	NE		 kg	 kg	 kg	
E030025000-04	30	30204	30205	58	98	4 x M12	135	1050	900	750	10,0 (Pisa=1000)
E035025000-04	35	30204	30205	58	98	4 x M12	205	1050	900	750	15,5 (Pisa=1100)
E040035000-02	40	30205	30207	93	140	5 x M16	205	1950	1650	1450	20,0 (Pisa=1100)
E045040000-02	45	30206	30208	93	140	5 x M16	205	2500	2100	1800	24,0 (Pisa=1100)
E050045000-02	50	30206	30209	93	140	5 x M16	250	3200	2700	2400	32,5 (Pisa=1200)
E050045000-07	50	30206	30209	160	205	6 x M18	250	3200	2700	2400	35,0 (Pisa=1200)
E060055000-07	60	30208	30211	160	205	6 x M18	250	5000	4000	3500	63,0 (Pisa=1600)
E070055000-07	70	30208	30211	160	205	6 x M18	300	5000	4000	3500	81,0 (Pisa=1700)
E070065000-07	70	32210	30213	160	205	6 x M18	300	7500	6500	6000	86,0 (Pisa=1700)
E070065000-0B	70	32210	30213	160	205	6 x M20	300	7500	6500	6000	86,0 (Pisa=1700)
E070065000-08	70	32210	30213	220	275	8 x M20	300	7500	6500	6000	94,5 (Pisa=1700)
E080065000-07	80	32210	30213	160	205	6 x M18	350	7500	6500	6000	105,0 (Pisa=1800)
E080065000-0B	80	32210	30213	160	205	6 x M20	350	7500	6500	6000	105,0 (Pisa=1800)
E080065000-08	80	32210	30213	220	275	8 x M20	350	7500	6500	6000	113,5 (Pisa=1800)
E080075000-07	80	32212	32215	160	205	6 x M18	350	9000	8000	7500	120,0 (Pisa=1800)
E080075000-0B	80	32212	32215	160	205	6 x M20	350	9000	8000	7500	120,0 (Pisa=1800)
E080075000-08	80	32212	32215	220	275	8 X M20	350	9000	8000	7500	127,0 (Pisa=1800)
E090075000-07	90	32212	32215	160	205	6 x M18	400	9000	8000	7500	139,0 (Pisa=1800)
E090075000-0B	90	32212	32215	160	205	6 x M20	400	9000	8000	7500	139,0 (Pisa=1800)
E090075000-08	90	32212	32215	220	275	8 x M20	400	9000	8000	7500	147,0 (Pisa=1800)
E090085000-08	90	32214	32217	220	275	8 x M20	400	12500	11000	9500	154,0 (Pisa=1800)
E100085000-08	100	32214	32217	220	275	8 x M20	400	12500	11000	9500	176,0 (Pisa=1800)
E100090000-08	100	33215	33118	220	275	8 x M20	400	14000	12500	11000	180,0 (Pisa=1800)
E100090000-09	100	33215	33118	280	335	10 x M22	400	14000	12500	11000	186,0 (Pisa=1800)



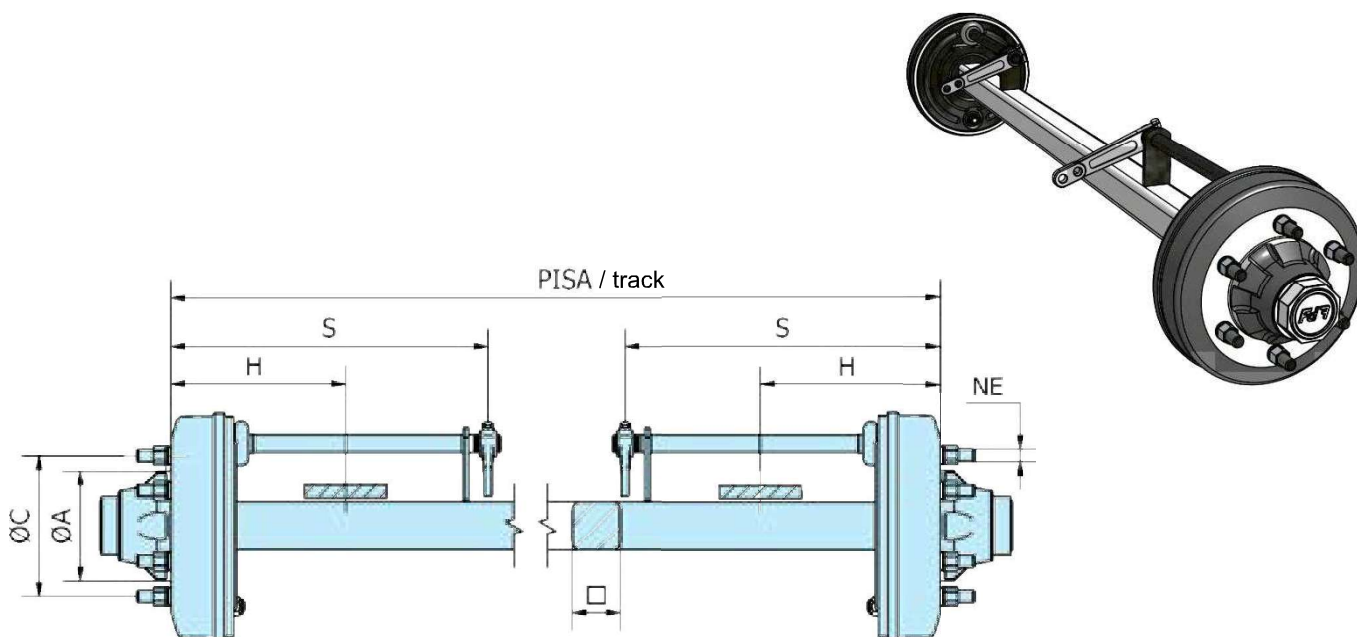
REFERENCIA Reference	CUA. Square 	RODAMIENTOS Bearings	ATAQUE Wheel fixing			H mm	S mm	CARGA POR EJE Capacity per axle 40 km/h			PESO Weight kg
			ØA mm	ØC mm	NE						

FRENO MONOBLOCK 200 x 40 / Solid drum

E040035200-42	40	30205	30207	93	140	5 x M16	205	380	1950	1650	1450	31,5 (Pisa=1200)
E050045200-42	50	30206	30209	93	140	5 x M16	250	380	3200	2700	2400	43,5 (Pisa=1350)

FRENO MONOBLOCK 250 x 60 / Solid drum

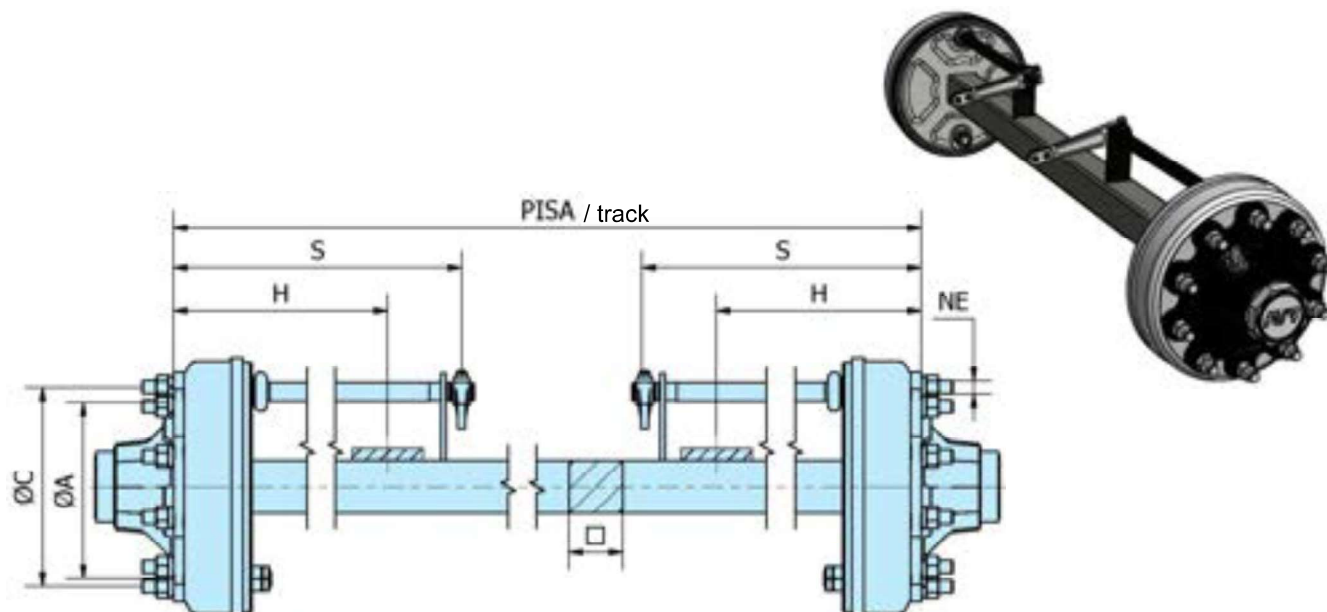
E050045250-67	50	30206	30209	160	205	6 x M18	250	384	3200	2700	2400	62,0 (Pisa=1200)
E060055250-67	60	30208	30211	160	205	6 x M18	250	384	5000	4000	3500	77,0 (Pisa=1450)
E070055250-67	70	30208	30211	160	205	6 x M18	250	384	5000	4000	3500	82,0 (Pisa=1450)



REFERENCIA	CUA.	RODAMIENTOS	ATAQUE			H	S	CARGA POR EJE			PESO
Reference	Square	Bearings	Wheel fixing					Capacity per axle			Weight
	 mm		ØA	ØC	NE	mm	mm	 kg	 kg	 kg	kg

FRENO MONOBLOCK 300 x 60 / Solid drum

E060055300-67	60	30208	30211	160	205	6 x M18	250	460	5000	4000	3500	98,0 (Pisa=1600)
E070055300-67	70	30208	30211	160	205	6 x M18	300	460	5000	4000	3500	116,0 (Pisa=1700)
E070065300-67	70	32210	30213	160	205	6 x M18	300	460	7500	6500	6000	121,5 (Pisa=1700)
E070065300-6B	70	32210	30213	160	205	6 x M20	300	460	7500	6500	6000	121,5 (Pisa=1700)
E070065300-68	70	32210	30213	220	275	8 x M20	300	460	7500	6500	6000	129,5 (Pisa=1700)
E080065300-67	80	32210	30213	160	205	6 x M18	350	460	7500	6500	6000	140,5 (Pisa=1800)
E080065300-6B	80	32210	30213	160	205	6 x M20	350	460	7500	6500	6000	140,5 (Pisa=1800)
E080065300-68	80	32210	30213	220	275	8 x M20	350	460	7500	6500	6000	148,5 (Pisa=1800)
E080075300-67	80	32212	32215	160	205	6 x M18	350	460	9000	8000	7500	152,0 (Pisa=1800)
E080075300-6B	80	32212	32215	160	205	6 x M20	350	460	9000	8000	7500	152,0 (Pisa=1800)
E080075300-68	80	32212	32215	220	275	8 x M20	350	462	9000	8000	7500	159,0 (Pisa=1800)
E090075300-67	90	32212	32215	160	205	6 x M18	400	462	9000	8000	7500	171,0 (Pisa=1800)
E090075300-6B	90	32212	32215	160	205	6 x M20	400	462	9000	8000	7500	171,0 (Pisa=1800)
E090075300-68	90	32212	32215	220	275	8 x M20	400	462	9000	8000	7500	179,0 (Pisa=1800)



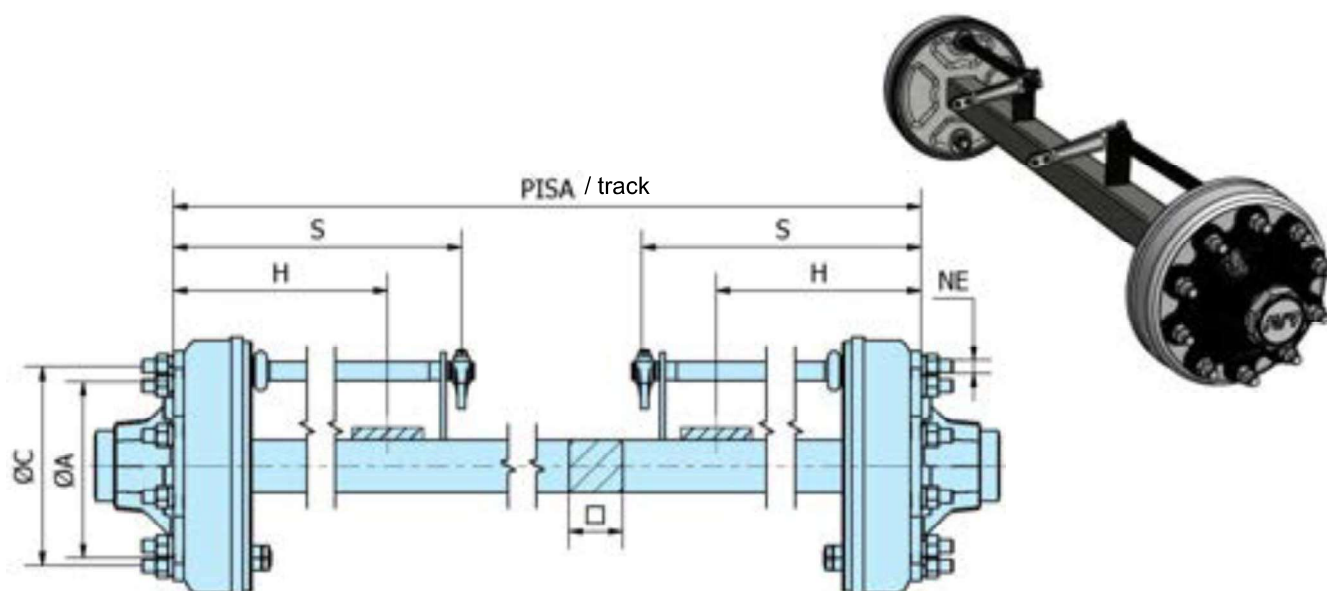
REFERENCIA	CUA.	RODAMIENTOS		ATAQUE			H	S	CARGA POR EJE			CARGA POR EJE			PESO
Reference	Square	Bearings		Wheel fixing					Capacity per axle			Capacity per axle			Weight
	mm			ØA	ØC	NE	mm	mm	40 km/h	60 km/h		40 km/h	60 km/h		kg
				mm	mm				kg	kg	kg	kg	kg	kg	

FRENO COMBINADO 300 x 60 / Hub and drum

C070065300-67	70	32210	30213	160	205	6 x M18	300	470	7500	6500	6000	7000	6000	5000	131,2 (Pisa=1700)
C070065300-68	70	32210	30213	220	275	8 x M20	300	470	7500	6500	6000	7000	6000	5000	134,5 (Pisa=1700)
C080065300-67	80	32210	30213	160	205	6 x M18	350	470	7500	6500	6000	7000	6000	5000	152,0 (Pisa=1800)
C080065300-68	80	32210	30213	220	275	8 x M20	350	470	7500	6500	6000	7000	6000	5000	153,5 (Pisa=1800)
C080075300-67	80	32212	32215	160	205	6 x M18	350	470	9000	8000	7500	8500	7500	7000	161,0 (Pisa=1800)
C080075300-68	80	32212	32215	220	275	8 x M20	350	470	9000	8000	7500	8500	7500	7000	164,0 (Pisa=1800)
C090075300-67	90	32212	32215	160	205	6 x M18	400	472	9000	8000	7500	8500	7500	7000	170,0 (Pisa=1800)
C090075300-68	90	32212	32215	220	275	8 x M20	400	472	9000	8000	7500	8500	7500	7000	172,0 (Pisa=1800)
C090085300-68	90	32214	32217	220	275	8 x M20	400	472	12500	11000	9500	11200	10000	8500	194,0 (Pisa=1800)
C100085300-68	100	32214	32217	220	275	8 x M20	400	472	12500	11000	9500	11200	10000	8500	215,0 (Pisa=1800)

FRENO COMBINADO 300 x 90 / Hub and drum

C070065300-97	70	32210	30213	160	205	6 x M18	300	650	7500	6500	6000	7000	6000	5000	150,2 (Pisa=1700)
C070065300-98	70	32210	30213	220	275	8 x M20	300	650	7500	6500	6000	7000	6000	5000	153,5 (Pisa=1700)
C080065300-97	80	32210	30213	160	205	6 x M18	350	650	7500	6500	6000	7000	6000	5000	171 (Pisa=1800)
C080065300-98	80	32210	30213	220	275	8 x M20	350	650	7500	6500	6000	7000	6000	5000	172,5 (Pisa=1800)
C080075300-97	80	32212	32215	160	205	6 x M18	350	650	9000	8000	7500	8500	7500	7000	180 (Pisa=1800)
C080075300-98	80	32212	32215	220	275	8 x M20	350	650	9000	8000	7500	8500	7500	7000	183 (Pisa=1800)
C090075300-97	90	32212	32215	160	205	6 x M18	400	650	9000	8000	7500	8500	7500	7000	189 (Pisa=1800)
C090075300-98	90	32212	32215	220	275	8 x M20	400	650	9000	8000	7500	8500	7500	7000	191 (Pisa=1800)
C090085300-98	90	32214	32217	220	275	8 x M20	400	650	12500	11000	9500	11200	10000	8500	213 (Pisa=1800)
C100085300-98	100	32214	32217	220	275	8 x M20	400	650	12500	11000	9500	11200	10000	8500	234 (Pisa=1800)



REFERENCIA Reference	CUA. Square  mm	RODAMIENTOS Bearings		ATAQUE Wheel fixing			H mm	S mm	CARGA POR EJE Capacity per axle 40 km/h			CARGA POR EJE Capacity per axle 60 km/h			PESO Weight kg
				ØA mm	ØC mm	NE									

FRENO COMBINADO 350 x 60 / Hub and drum

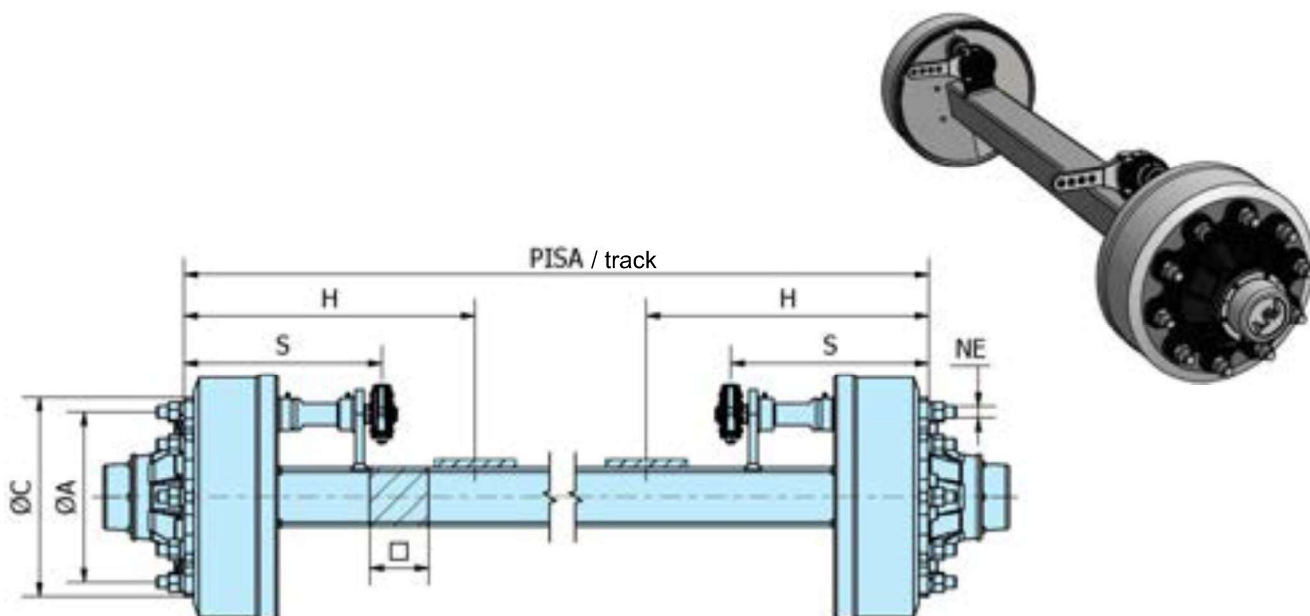
C080075350-68	80	32212	32215	220	275	8 x M20	350	630	9000	8000	7500	8500	7500	7000	169,0 (Pisa=1800)
C090075350-68	90	32212	32215	220	275	8 x M20	400	630	9000	8000	7500	8500	7500	7000	188,0 (Pisa=1800)
C090085350-68	90	32214	32217	220	275	8 x M20	400	630	12500	11000	9500	11200	10000	8500	210,0 (Pisa=1800)
C100085350-68	100	32214	32217	220	275	8 x M20	400	630	12500	11000	9500	11200	10000	8500	232,0 (Pisa=1800)
C100090350-68	100	33215	33118	220	275	8 x M20	400	630	14000	12500	11000	13000	11000	10000	267,0 (Pisa=2000)

FRENO COMBINADO 350 x 90 / Hub and drum

C080075350-98	80	32212	32215	220	275	8 x M20	350	665	9000	8000	7500	8500	7500	7000	189 (Pisa=1800)
C090075350-98	90	32212	32215	220	275	8 x M20	400	665	9000	8000	7500	8500	7500	7000	208 (Pisa=1800)
C090085350-98	90	32214	32217	220	275	8 x M20	400	665	12500	11000	9500	11200	10000	8500	230 (Pisa=1800)
C100085350-98	100	32214	32217	220	275	8 x M20	400	665	12500	11000	9500	11200	10000	8500	252 (Pisa=1800)
C100090350-98	100	33215	33118	220	275	8 x M20	400	665	14000	12500	11000	13000	11000	10000	287 (Pisa=2000)
C120085350-98	120	32214	32217	220	275	8 x M20	400	665	12500	11000	9500	11200	10000	8500	252 (Pisa=1800)
C120090350-98	120	33215	33118	220	275	8 x M20	400	665	14000	12500	11000	13000	11000	10000	287 (Pisa=2000)

FRENO COMBINADO 400 x 80 / Hub and drum

C080075400-88	80	32212	32215	220	275	8 x M20	350	640	9000	8000	7500	8500	7500	7000	189,0 (Pisa=1800)
C090075400-88	90	32212	32215	220	275	8 x M20	400	640	9000	8000	7500	8500	7500	7000	208,0 (Pisa=1800)
C090085400-88	90	32214	32217	220	275	8 x M20	400	640	12500	11000	9500	11200	10000	8500	230,0 (Pisa=1800)
C090085400-89	90	32214	32217	280	335	10 x M22	400	640	12500	11000	9500	11200	10000	8500	244,0 (Pisa=1800)
C100085400-88	100	32214	32217	220	275	8 x M20	400	640	12500	11000	9500	11200	10000	8500	252,0 (Pisa=1800)
C100085400-89	100	32214	32217	280	335	10 x M22	400	640	12500	11000	9500	11200	10000	8500	266,0 (Pisa=1800)
C100090400-88	100	33215	33118	220	275	8 x M20	400	640	14000	12500	11000	13000	11000	10000	287,0 (Pisa=1800)
C100090400-89	100	33215	33118	280	335	10 x M22	400	640	14000	12500	11000	13000	11000	10000	301,0 (Pisa=1800)
C110090400-88	110	33215	33118	220	275	8 x M20	400	640	14000	12500	11000	13000	11000	10000	316,0 (Pisa=1800)
C110090400-89	110	33215	33118	280	335	10 x M22	400	640	14000	12500	11000	13000	11000	10000	301,0 (Pisa=1800)



REFERENCIA Reference	CUA. Square mm	RODAMIENTOS Bearings	ATAQUE Wheel fixing			H mm	S mm	CARGA POR EJE Capacity per axle 40 km/h			CARGA POR EJE Capacity per axle 60 km/h			PESO Weight kg
			ØA mm	ØC mm	NE									

FRENO COMBINADO 300 x 100 (SEMI-INDUSTRIAL) Hub and drum

C080070300-01	80	32211	32214	220	275	8 x M18	350	660	8000	7000	6500	7500	6500	6000	217,0 (Pisa=2100)
C090070300-01	90	32211	32214	220	275	8 x M18	400	660	8000	7000	6500	7500	6500	6000	242,0 (Pisa=2100)

FRENO COMBINADO 406 x 120 (SEMI-INDUSTRIAL) Hub and drum

C100090406-29	100	33215	33118	280	335	10 x M22	400	640	14000	12500	11000	13000	11000	10000	362,0 (Pisa=1800)
C110090406-29	110	33215	33118	280	335	10 x M22	400	640	14000	12500	11000	13000	11000	10000	379,0 (Pisa=1800)
C120090406-29	120	33215	33118	280	335	10 x M22	400	640	14000	12500	11000	13000	11000	10000	282,0 (Pisa=1800)

Fd7
AXLES & TYRES

EJES AGRICOLAS E INDUSTRIALES
Agricultural and Industrial Axles

STEERING AXLES

Technical information
Self Steering Axles (1)
Self Steering Axles (2)
Forced Steering Axles (1)
Forced Steering Axles (2)
Steering Axles Components

Thanks to benefits they provide, the steering axles are a good choice for your machines. Its strengths shows when little radius turn manoeuvring is required and on abrasive surface.

The benefits in relation to rigid axles are a less turn radio required, less tyre wear and lower fuel consumption. (Figure 1)

The self-steering axle is designed to follow the movement of the tractor whereas the forced steering axles are provided with a hydraulic system in order to turn the wheels at the same direction and angle that the tractor.

Thanks to the design of the steering axles with the pivot axis advanced in respect of the support point, it made easier the manoeuvrings. (Figure 2)

Steering axles, features and benefits:

- Lower tyre wear
- Lower fuel consumption
- Greater manoeuvrability, reduced transport space requirement
- Less transversal strain on the system road and body

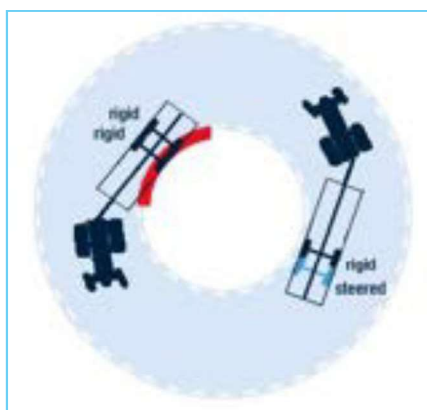


Figura 1. Diferencias en el giro entre eje direccional y rígido

Figure 1. Turn differences between directional and rigid axle

Gracias a los beneficios que aportan, los ejes direccionales son una buena elección para sus máquinas.

Sus fortalezas aparecen cuando se requieren maniobras de giro de poco radio y sobre terreno abrasivo. Los beneficios en relación a los ejes rígidos son, un menor radio de giro requerido, menor desgaste de los neumáticos y el consumo de combustible disminuye. (Figura 1)

Los ejes auto-direccionales están diseñados para seguir el movimiento del tractor mientras que los ejes direccionales forzados están provistos de un sistema hidráulico que hace girar las ruedas en la misma dirección y ángulo que las del tractor.

Gracias al diseño del eje direccional con el eje de giro adelantado respecto al punto de apoyo, se facilita la ejecución de las maniobras. (Figura 2)

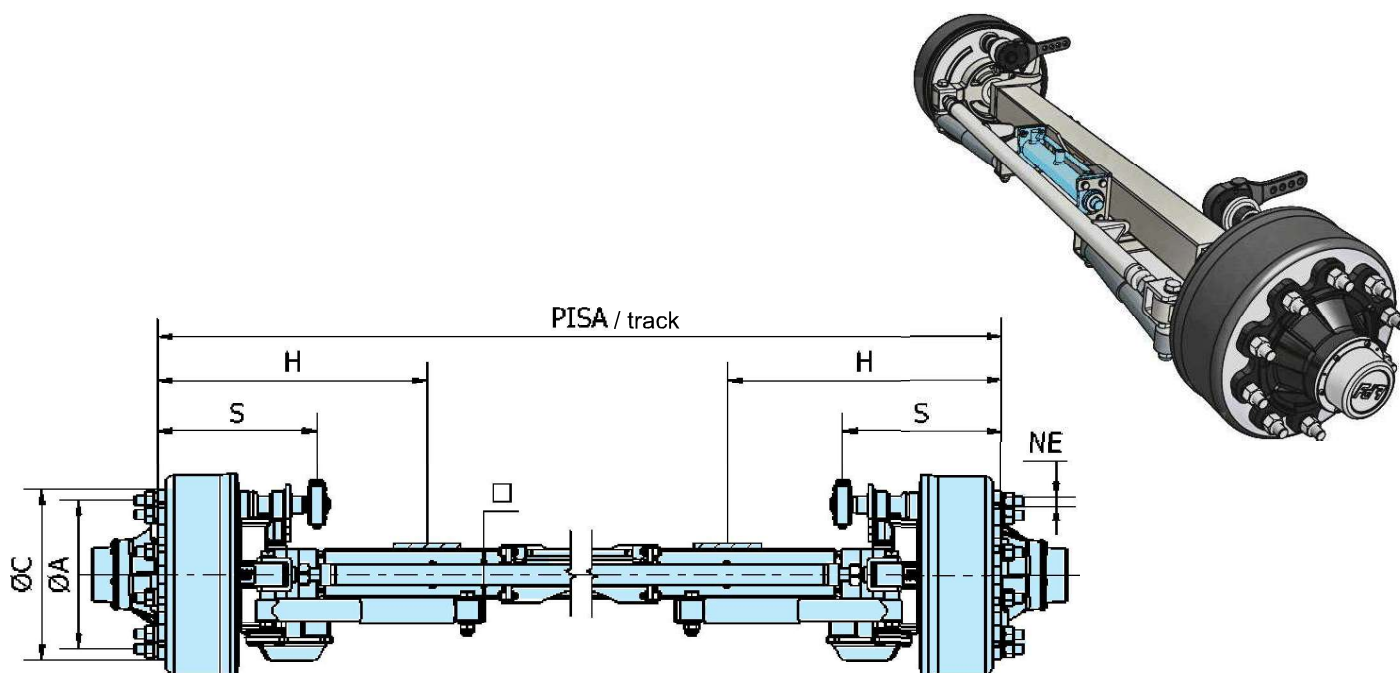
Ejes direccionales, ventajas y características:

- Menor desgaste de los neumáticos
- Reducción del consumo de combustible
- Mejor maniobrabilidad, reducción del espacio para giros
- Menores esfuerzos transversales en el sistema de rodaje y chasis



Figura 2. Eje de giro adelantado respecto al punto de apoyo

Figure 2. Pivot axis advanced in respect of the support point



REFERENCIA	CUA.	RODAMIENTOS	ATAQUE			H	S	CARGA POR EJE	CARGA POR EJE	PESO
Reference	Square	Bearings	Wheel fixing					Capacity per axle	Capacity per axle	Weight
			ØA	ØC	NE					
	mm		mm	mm		mm	mm	kg	kg	kg

FRENO COMBINADO 300 x 90 / Hub and drum

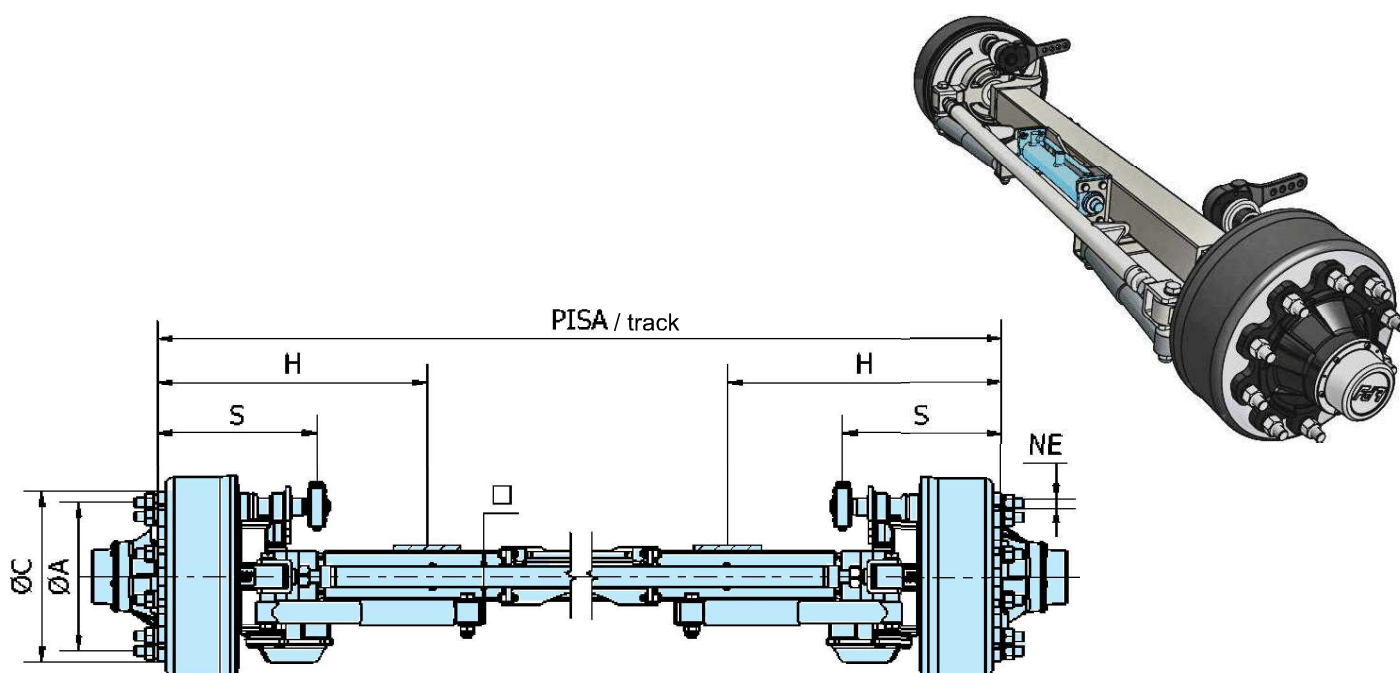
A080075300-97	80	32212	32215	160	205	6 x M18	525	370	7500	7000	310 (Pisa=1800)
A080075300-98	80	32212	32215	220	275	8 x M20	525	370	7500	7000	310 (Pisa=1800)
A090075300-97	90	32212	32215	160	205	6 x M18	525	370	7500	7000	320 (Pisa=1800)
A090075300-98	90	32212	32215	220	275	8 x M20	525	370	7500	7000	320 (Pisa=1800)
A090085300-98	90	32214	32217	220	275	8 x M20	525	370	9500	8500	340 (Pisa=1800)
A100085300-98	100	32214	32217	220	275	8 x M20	525	370	9500	8500	355 (Pisa=1800)

FRENO COMBINADO 350 x 60 / Hub and drum

A090085350-68	90	32214	32217	220	275	8 x M20	400	300	9500	8500	327,0 (Pisa=1800)
A100085350-68	100	32214	32217	220	275	8 x M20	400	300	9500	8500	349,0 (Pisa=1800)
A100090350-68	100	33215	33118	220	275	8 x M20	400	300	11000	10000	371,0 (Pisa=2000)
A110090350-68	100	33215	33118	220	275	8 x M20	400	300	11000	10000	393,0 (Pisa=2000)

FRENO COMBINADO 350 x 90 / Hub and drum

A080075350-98	80	32212	32215	220	275	8 x M20	500	350	7500	7000	330 (Pisa=1800)
A090075350-98	90	32212	32215	220	275	8 x M20	500	350	7500	7000	340 (Pisa=1800)
A090085350-98	90	32214	32217	220	275	8 x M20	500	350	9500	8500	365 (Pisa=1800)
A100085350-98	100	32214	32217	220	275	8 x M20	500	350	9500	8500	380 (Pisa=1800)
A100090350-98	100	33215	33118	220	275	8 x M20	500	350	11000	10000	390 (Pisa=1800)
A120090350-98	120	33215	33118	220	275	8 x M20	500	350	11000	10000	355 (Pisa=1800)



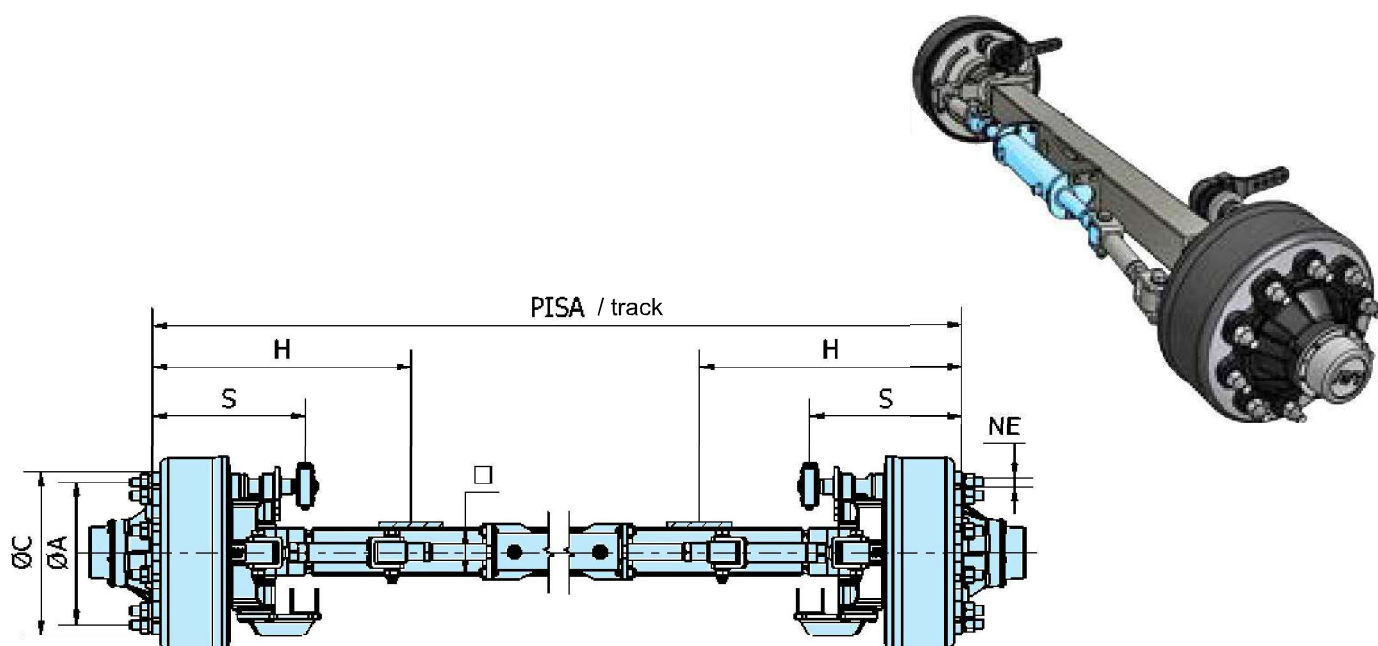
REFERENCIA	CUA.	RODAMIENTOS	ATAQUE			H	S	CARGA POR EJE	CARGA POR EJE	PESO
Reference	Square	Bearings	Wheel fixing					Capacity per axle	Capacity per axle	Weight
	mm		ØA	ØC	NE	mm	mm	40 km/h	60 km/h	kg
			mm	mm				kg	kg	

FRENO COMBINADO 400 x 80 / Hub and drum

A090085400-88	90	32214	32217	220	275	8 x M20	400	320	9500	8500	315,0 (Pisa=1800)
A090085400-89	90	32214	32217	280	335	10 x M22	400	320	9500	8500	329,0 (Pisa=1800)
A100085400-88	100	32214	32217	220	275	8 x M20	400	320	9500	8500	343,0 (Pisa=1800)
A100085400-89	100	32214	32217	280	335	10 x M22	400	320	9500	8500	357,0 (Pisa=1800)
A100090400-88	100	33215	33118	220	275	8 x M20	400	320	11000	10000	371,0 (Pisa=1800)
A100090400-89	100	33215	33118	280	335	10 x M22	400	320	11000	10000	385,0 (Pisa=1800)
A110090400-88	110	33215	33118	220	275	8 x M20	400	320	11000	10000	399,0 (Pisa=1800)
A110090400-89	110	33215	33118	280	335	10 x M22	400	320	11000	10000	413,0 (Pisa=1800)

FRENO COMBINADO 406 x 120 (SEMI-INDUSTRIAL) / Hub and drum

A100090406-29	100	33215	33118	280	335	10 x M22	400	360	11000	10000	415,0 (Pisa=1800)
A110090406-29	110	33215	33118	280	335	10 x M22	400	360	11000	10000	445,0 (Pisa=1800)
A120090406-29	120	33215	33118	280	335	10 x M22	400	360	11000	10000	351,0 (Pisa=1800)



REFERENCIA	CUA.	RODAMIENTOS	ATAQUE			H	S	CARGA POR EJE	CARGA POR EJE	PESO
Reference	Square	Bearings	Wheel fixing					Capacity per axle	Capacity per axle	Weight
	mm		ØA	ØC	NE	mm	mm	40 km/h	60 km/h	kg
			mm	mm						

FRENO COMBINADO 300 x 90 / Hub and drum

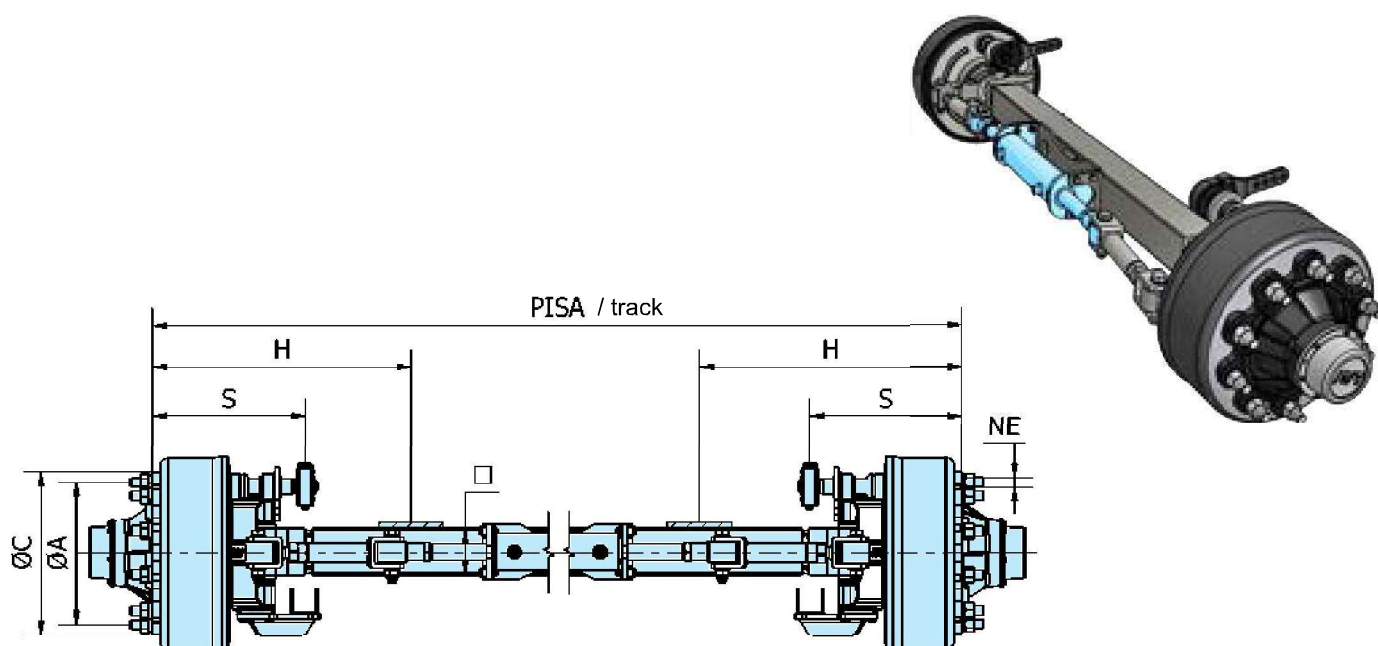
D080075300-97	80	32212	32215	160	205	6 x M18	525	370	7500	7000	310 (Pisa=1800)
D080075300-98	80	32212	32215	220	275	8 x M20	525	370	7500	7000	310 (Pisa=1800)
D090075300-97	90	32212	32215	160	205	6 x M18	525	370	7500	7000	320 (Pisa=1800)
D090075300-98	90	32212	32215	220	275	8 x M20	525	370	7500	7000	320 (Pisa=1800)
D090085300-98	90	32214	32217	220	275	8 x M20	525	370	9500	8500	340 (Pisa=1800)
D100085300-98	100	32214	32217	220	275	8 x M20	525	370	9500	8500	355 (Pisa=1800)

FRENO COMBINADO 350 x 60 / Hub and drum

D090085350-68	90	32214	32217	220	275	8 x M20	400	300	9500	8500	327,0 (Pisa=1800)
D100085350-68	100	32214	32217	220	275	8 x M20	400	300	9500	8500	349,0 (Pisa=1800)
D100090350-68	100	33215	33118	220	275	8 x M20	400	300	11000	10000	371,0 (Pisa=1800)
D110090350-68	100	33215	33118	220	275	8 x M20	400	300	11000	10000	393,0 (Pisa=1800)

FRENO COMBINADO 350 x 90 / Hub and drum

D080075350-98	80	32212	32215	220	275	8 x M20	500	350	7500	7000	330 (Pisa=1800)
D090075350-98	90	32212	32215	220	275	8 x M20	500	350	7500	7000	340 (Pisa=1800)
D090085350-98	90	32214	32217	220	275	8 x M20	500	350	9500	8500	365 (Pisa=1800)
D100085350-98	100	32214	32217	220	275	8 x M20	500	350	9500	8500	380 (Pisa=1800)
D100090350-98	100	33215	33118	220	275	8 x M20	500	350	11000	10000	390 (Pisa=1800)
D120090350-98	120	33215	33118	220	275	8 x M20	500	350	11000	10000	355 (Pisa=1800)



REFERENCIA	CUA.	RODAMIENTOS	ATAQUE			H	S	CARGA POR EJE	CARGA POR EJE	PESO
Reference	Square	Bearings	Wheel fixing					Capacity per axle	Capacity per axle	Weight
	mm		ØA	ØC	NE	mm	mm	40 km/h	60 km/h	kg
			mm	mm						

FRENO COMBINADO 400 x 80 / Hub and drum

D090085400-88	90	32214	32217	220	275	8 x M20	400	320	9500	8500	315,0 (Pisa=1800)
D090085400-89	90	32214	32217	280	335	10 x M22	400	320	9500	8500	329,0 (Pisa=1800)
D100085400-88	100	32214	32217	220	275	8 x M20	400	320	9500	8500	343,0 (Pisa=1800)
D100085400-89	100	32214	32217	280	335	10 x M22	400	320	9500	8500	357,0 (Pisa=1800)
D100090400-88	100	33215	33118	220	275	8 x M20	400	320	11000	10000	371,0 (Pisa=1800)
D100090400-89	100	33215	33118	280	335	10 x M22	400	320	11000	10000	385,0 (Pisa=1800)
D110090400-88	110	33215	33118	220	275	8 x M20	400	320	11000	10000	399,0 (Pisa=1800)
D110090400-89	110	33215	33118	280	335	10 x M22	400	320	11000	10000	413,0 (Pisa=1800)

FRENO COMBINADO 406 x 120 / Hub and drum

D100090406-29	100	33215	33118	280	335	10 x M22	400	360	11000	10000	415,0 (Pisa=1800)
D110090406-29	110	33215	33118	280	335	10 x M22	400	360	11000	10000	445,0 (Pisa=1800)
D120090406-29	120	33215	33118	280	335	10 x M22	400	360	11000	10000	351,0 (Pisa=1800)