

Sospensioni bogie _ Bogie suspensions

I BOGIE

La sospensione bogie è un tipo di sospensione meccanica oscillante nel senso di marcia, con balestre multi foglia, utilizzata in agricoltura per equipaggiare veicoli tandem. Il vantaggio principale è che può viaggiare su terreni particolarmente sconnessi, grazie alla sua possibilità di compiere ampie oscillazioni, adattandosi alle asperità.

GAMMA BOGIE TVZ

- Bogie modello 1 con portate da 08.0 a 13.0 Ton. Con passi da 920 a 1300 mm.
- Bogie modello 1B con portate da 11.5 a 16.0 Ton. Con passi da 900 a 1320 mm.
- Bogie modello 2 con portate da 15.5 a 17.5 Ton. Con passi da 1200 a 1480 mm.
- Bogie modello 3 con portate da 17.5 a 21.5 Ton. Con passi da 1360 a 1480 mm.
- Bogie modello 4 con portate da 18.5 a 22.0 Ton. Con passi da 1500 a 1700 mm.

FORNITURA

I bogie TVZ vengono forniti assemblati con gli assali entrambi fissi o fisso più sterzante, pronti per essere fissati al telaio del veicolo. Su richiesta i bogie possono essere forniti smontati. TVZ può fornire su richiesta le contropiastre complete di bulloneria per il fissaggio del bogie al telaio. I bogie possono essere forniti con assetto normale (gli assali sono sotto le balestre) o con assetto ribassato (gli assali sono sopra le balestre).

MONTAGGIO DEL BOGIE

Per assicurare la massima affidabilità, durata e sicurezza di tutti i componenti del veicolo è importante che i bogie vengano installati correttamente. L'allineamento del bogie è eseguito dal costruttore del veicolo, gli assali del bogie devono risultare paralleli tra di loro e paralleli con il trattore, questo garantisce un buon controllo del veicolo e una vita maggiore dei pneumatici. Per eventuali mal funzionamenti o danni al bogie, agli assali, ai freni o ai pneumatici, derivanti dal montaggio non corretto del bogie è responsabile solo l'installatore.

NOTE

Le altezze dei bogie indicate in questo catalogo, si riferiscono alle condizioni di carico nullo o pieno carico, sempre considerando il veicolo orizzontale.

BOGIES

The bogie suspension is a type of oscillating mechanical suspension with multi-leaf springs which is used in agriculture to fit tandem vehicles. Its main advantage is that vehicles can travel across particularly rough terrain, thanks to the wide oscillation movements which adapt to the roughness of the ground.

RANGE

- *Bogie model 1 with capacity ranging from 08.0 to 13.0 Tonnes with wheel base from 920 to 1,300 mm.*
- *Bogie model 1B with capacity ranging from 11.5 to 16 Tonnes with wheel base from 900 to 1,320 mm.*
- *Bogie model 2 with capacity ranging from 15.5 to 17.5 Tonnes with wheel base from 1,200 to 1,480 mm.*
- *Bogie model 3 with capacity ranging from 17.5 to 21.5 Tonnes with wheel base from 1,360 to 1,480 mm.*
- *Bogie model 4 with capacity ranging from 18.5 to 22.0 Tonnes with wheel base from 1,500 to 1,700 mm.*

SUPPLY

The T.V.Z. bogies are either supplied with both axles fixed or with fixed and steering axles, ready to be fitted to the vehicle frame. Upon request, the bogies can also be supplied not assembled.

T.V.Z. can provide the counter plates with bolts and nuts to fix the bogie to the frame.

The bogies can be provided in a normal arrangement (the axles under the leaf springs) or low arrangement (the axles on top of the springs).

BOGIE ASSEMBLY

The correct installation of the bogie is important to ensure maximum reliability, duration and safety of all the vehicle components. The vehicle manufacturer must align the bogie. The bogie axles must be parallel with each other and the tractor. This guarantees good vehicle control and a longer life for the tyres. In case of any failures or damage to the bogie, axles, brakes or tyres due to an incorrect assembly of the bogie, the installer bears full responsibility.

NOTES

The height of bogies indicated in this catalogue refers to the empty or full loading condition, always taking into consideration that the vehicle is in a horizontal position.

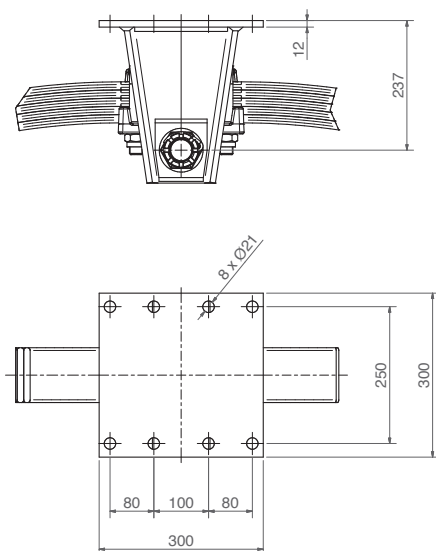




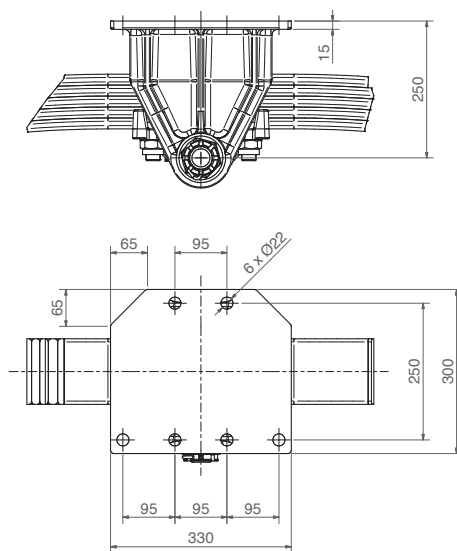
bogie_bogie

Supporti centrali _ Central supports

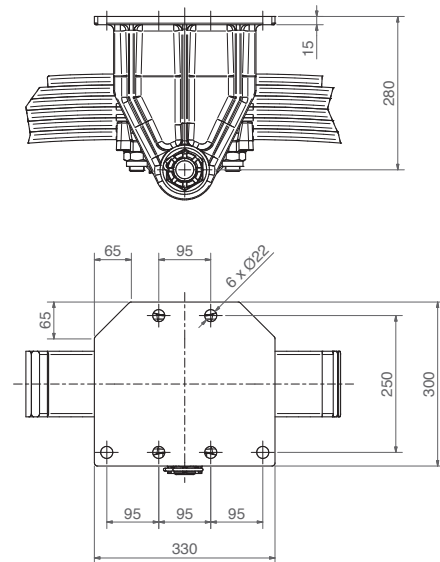
Modello - Type 1



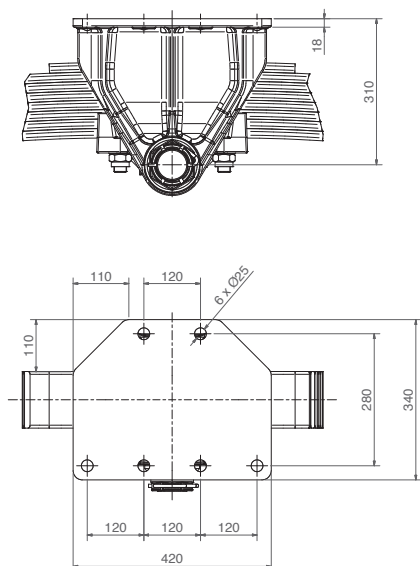
Modello - Type 1b



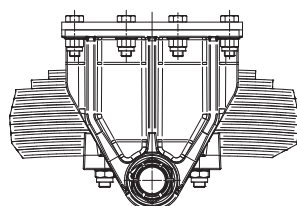
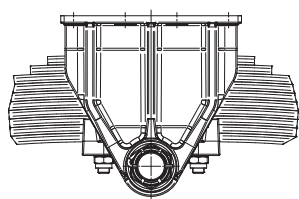
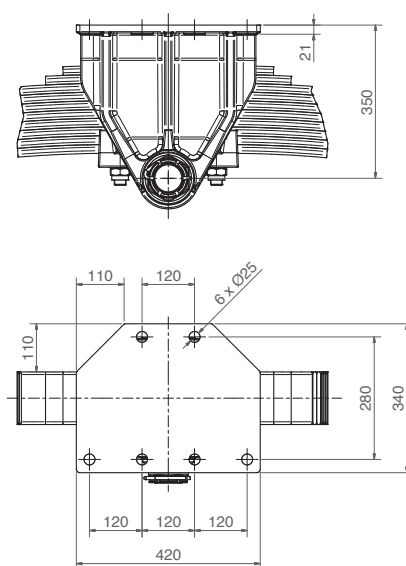
Modello - Type 2



Modello - Type 3



Modello - Type 4



I supporti possono essere forniti:

- Forati
- Forati con contropiastra completa di bulloneria

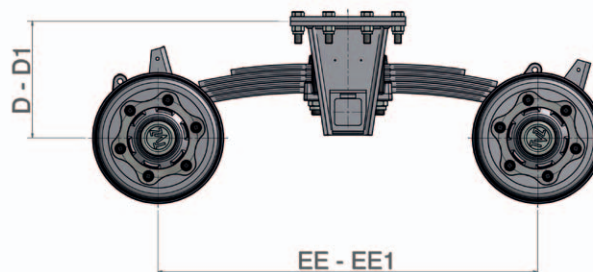
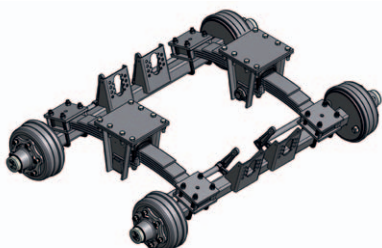
The brackets can be delivered:

- With holes
- With holes and counterplate including bolts and nuts

Sospensioni bogie _ Bogie suspensions

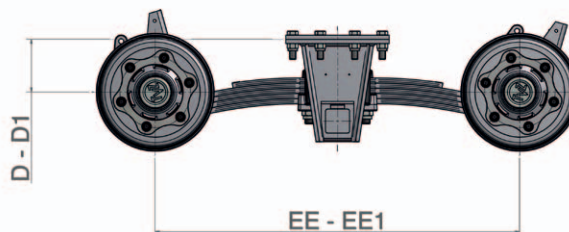
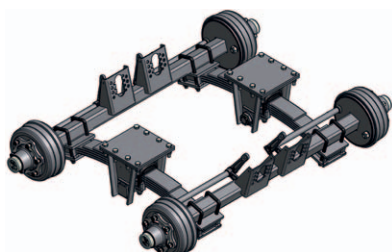
Mod. 1 - 8/13 ton.

STANDARD



C	EE	LF		Q.70			Q.80			Q.90		
				D	D1	EE1	D	D1	EE1	D	D1	EE1
(kg)	(mm)			(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
8000	920	L100-B805	4x15 (3LM)	302	281	884	307	286	881			
8500	1000	L100-B803	5x15 (3LM)	302	277	988	307	282	985			
10500	1300	L100-B800	3x15 3x20 (3LM)				307	268	1294	312	273	1292
11500	1200	L100-B801	3x15 3x20 (3LM)				307	276	1182	312	281	1179
13000	1100	L100-B802	3x15 3x20 (3LM)				307	281	1079	312	286	1076

RIBASSATO / UNDERSLUNG



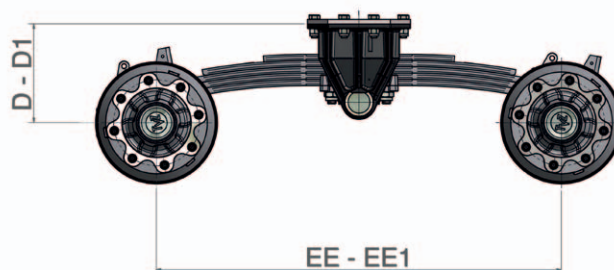
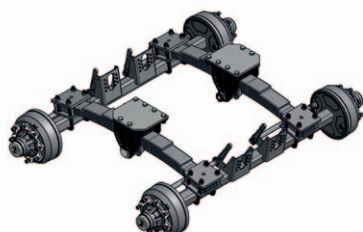
C	EE	LF		Q.70			Q.80			Q.90		
				D	D1	EE1	D	D1	EE1	D	D1	EE1
(kg)	(mm)			(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
8000	920	L100-B805	4x15 (3LM)	157	136	918	152	131	922			
8500	1000	L100-B803	5x15 (3LM)	157	132	1052	152	127	1055			
10500	1300	L100-B800	3x15 3x20 (3LM)				152	113	1346	147	108	1348
11500	1200	L100-B801	3x15 3x20 (3LM)				152	121	1238	147	116	1241
13000	1100	L100-B802	3x15 3x20 (3LM)				152	126	1141	147	121	1144

C	PORTATA DI 2 BALESTRE	CAPACITY OF 2 SPRINGS
EE	PASSO	WHEEL BASE
EE1	PASSO A VUOTO	WHEEL BASE WHEN EMPTY
LF	TIPO DI BALESTRA	LEAF SPRING
D	ALTEZZA A VUOTO	HEIGHT WHEN EMPTY
D1	ALTEZZA SOTTO CARICO	HEIGHT WHEN LOADED
Q	LATO QUADRO ASSALE	AXLE SQUARE BEAM
LM	LAME MADRI	MOTHER LEAFS

Sospensioni bogie _ Bogie suspensions

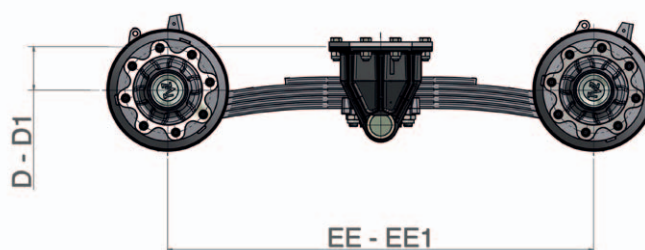
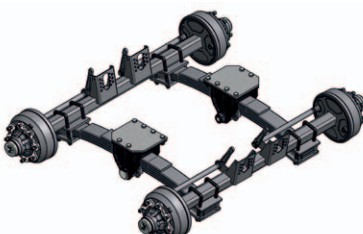
Mod. 1b - 11,5/16 ton.

STANDARD



C	EE	LF		Q.80			Q.90			Q.100		
				D	D1	EE1	D	D1	EE1	D	D1	EE1
(kg)	(mm)			(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
11500	1200	L100-B801	3x15 3x20 (3 LM)	315	284	1182	320	289	1179			
13500	1320	L120-B551	5x20 (3 LM)	310	275	1293	315	280	1291			
15000	1200	L120-B551	5x20 (3 LM)				303	275	1174	308	280	1171
16000	900	L100-B695	7x16 (3 LM)				300	283	867	305	287	865

RIBASSATO / UNDERSLUNG



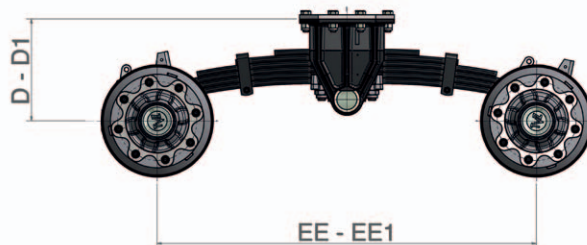
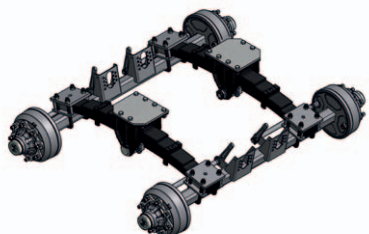
C	EE	LF		Q.80			Q.90			Q.100		
				D	D1	EE1	D	D1	EE1	D	D1	EE1
(kg)	(mm)			(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
11500	1200	L100-B801	3x15 3x20 (3 LM)	160	129	1238	155	124	1241			
13500	1320	L120-B551	5x20 (3 LM)	140	105	1347	135	100	1349			
15000	1200	L120-B551	5x20 (3 LM)				123	95	1226	118	90	1229
16000	900	L100-B695	7x16 (3 LM)				132	115	933	127	109	935

C	PORTATA DI 2 BALESTRE	CAPACITY OF 2 SPRINGS
EE	PASSO	WHEEL BASE
EE1	PASSO A VUOTO	WHEEL BASE WHEN EMPTY
LF	TIPO DI BALESTRA	LEAF SPRING
D	ALTEZZA A VUOTO	HEIGHT WHEN EMPTY
D1	ALTEZZA SOTTO CARICO	HEIGHT WHEN LOADED
Q	LATO QUADRO ASSALE	AXLE SQUARE BEAM
LM	LAME MADRI	MOTHER LEAFS

Sospensioni bogie _ Bogie suspensions

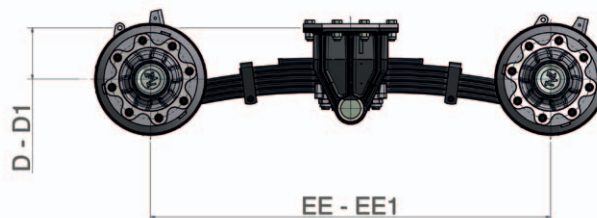
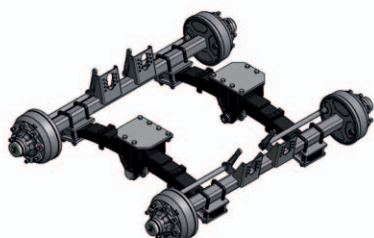
Mod. 2 - 15,5/17,5 ton.

STANDARD



C	EE	LF		Q=90			Q=100		
				D	D1	EE1	D	D1	EE1
(kg)	(mm)			(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
15500	1360	L120-B523	6x20 (3LM)	360	323	1328	365	328	1325
16500	1200	L120-B560	7x20 (3LM)	328	307	1178	333	312	1177
16500	1360	L120-B541	7x20 (3LM)	345	311	1345	350	316	1342
16500	1480	L120-B524	7x20 (3LM)	360	315	1451	365	320	1449
17500	1240	L120-B523	6x20 (3LM)	345	315	1211	350	320	1209
17500	1360	L120-B556	7x20 (4LM)	345	309	1332	350	314	1330

RIBASSATO / UNDERSLUNG



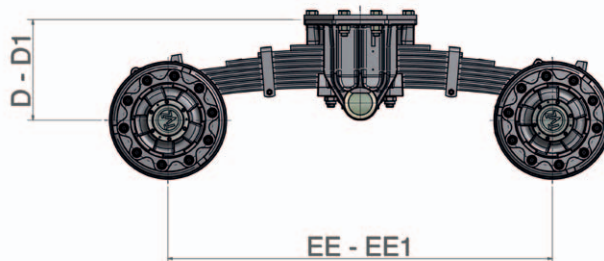
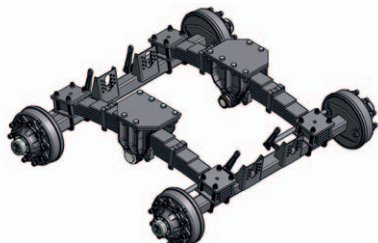
C	EE	LF		Q=90			Q=100		
				D	D1	EE1	D	D1	EE1
(kg)	(mm)			(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
15500	1360	L120-B523	6x20 (3LM)	180	143	1392	175	138	1395
16500	1200	L120-B560	7x20 (3LM)	148	127	1222	143	122	1223
16500	1360	L120-B541	7x20 (3LM)	165	131	1395	160	126	1398
16500	1480	L120-B524	7x20 (3LM)	180	135	1509	175	130	1511
17500	1240	L120-B523	6x20 (3LM)	165	135	1269	160	130	1271
17500	1360	L120-B556	7x20 (4LM)	165	129	1388	160	124	1390

C	PORTATA DI 2 BALESTRE	CAPACITY OF 2 SPRINGS
EE	PASSO	WHEEL BASE
EE1	PASSO A VUOTO	WHEEL BASE WHEN EMPTY
LF	TIPO DI BALESTRA	LEAF SPRING
D	ALTEZZA A VUOTO	HEIGHT WHEN EMPTY
D1	ALTEZZA SOTTO CARICO	HEIGHT WHEN LOADED
Q	LATO QUADRO ASSALE	AXLE SQUARE BEAM
LM	LAME MADRI	MOTHER LEAFS

Sospensioni bogie _ Bogie suspensions

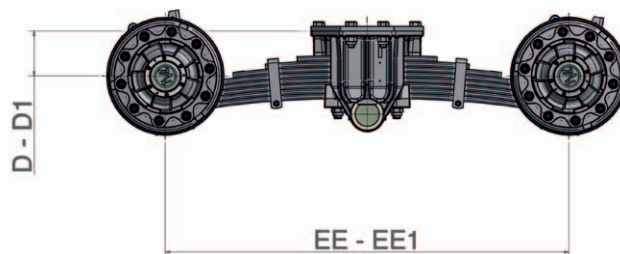
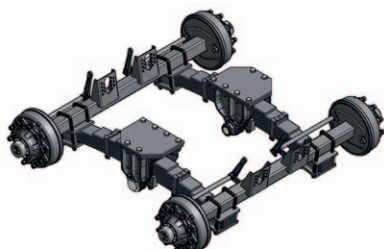
Mod. 3 - 17,5/21,5 ton.

STANDARD



C	EE	LF		Q=100			Q=110			Q=130		
				D	D1	EE1	D	D1	EE1	D	D1	EE1
(kg)	(mm)			(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
17500	1450	L120-B228	7x20 (4LM)	383	343	1422	388	348	1420			
18500	1480	L120-B554	4x20 3x22 (4LM)	378	338	1455	383	343	1454			
19000	1360	L120-B556	7x20 (4LM)	378	343	1330	383	348	1328			
19500	1480	L120-B533	8x20 (4LM)	378	336	1455	383	341	1453	391	349	1451
21500	1360	L120-B549	8x20 (4LM)	378	344	1330	383	349	1328	391	357	1326

RIBASSATO / UNDERSLUNG



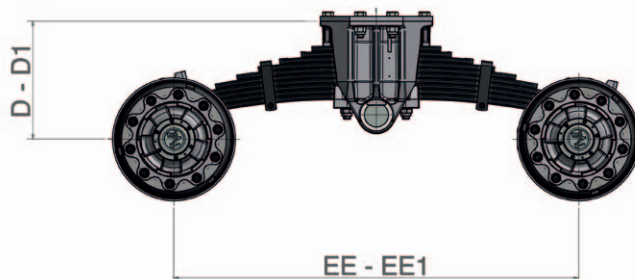
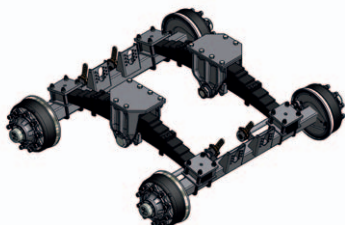
C	EE	LF		Q=100			Q=110			Q=130		
				D	D1	EE1	D	D1	EE1	D	D1	EE1
(kg)	(mm)			(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
17500	1450	L120-B228	7x20 (4LM)	173	133	1478	168	128	1480			
18500	1480	L120-B554	4x20 3x22 (4LM)	168	128	1505	163	123	1506			
19000	1360	L120-B556	7x20 (4LM)	168	133	1390	163	128	1392			
19500	1480	L120-B533	8x20 (4LM)	168	126	1505	163	121	1507	154	112	1515
21500	1360	L120-B549	8x20 (4LM)	168	134	1390	163	129	1392	154	120	1400

C	PORTATA DI 2 BALESTRE	CAPACITY OF 2 SPRINGS
EE	PASSO	WHEEL BASE
EE1	PASSO A VUOTO	WHEEL BASE WHEN EMPTY
LF	TIPO DI BALESTRA	LEAF SPRING
D	ALTEZZA A VUOTO	HEIGHT WHEN EMPTY
D1	ALTEZZA SOTTO CARICO	HEIGHT WHEN LOADED
Q	LATO QUADRO ASSALE	AXLE SQUARE BEAM
LM	LAME MADRI	MOTHER LEAFS

Sospensioni bogie _ Bogie suspensions

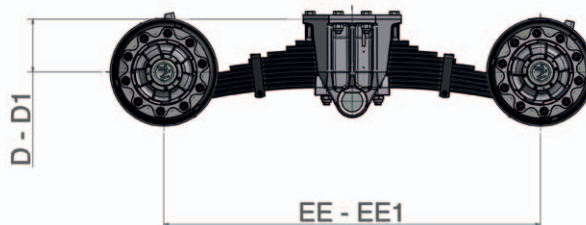
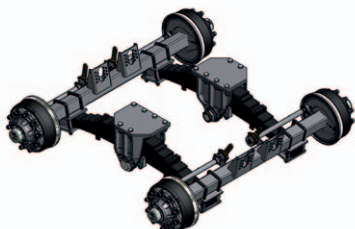
Mod. 4 - 18,5/22 ton.

STANDARD



C	EE	LF		Q=100			Q=110			Q=130		
				D	D1	EE1	D	D1	EE1	D	D1	EE1
(kg)	(mm)			(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
18500	1700	L120-B548	9x20 (4LM)	463	404	1661	468	409	1658			
20000	1600	L120-B548	9x20 (4LM)	448	396	1564	453	401	1561			
20500	1700	L120-B526	10x20 (4LM)	451	390	1687	456	395	1685	462	401	1683
21500	1500	L120-B542	9x20 (4LM)	438	390	1511	443	395	1508	451	403	1505
22000	1500	L120-B278	10x20 (4LM)	438	393	1511	443	398	1508	451	398	1505
22000	1600	L120-B526	10x20 (4LM)	438	385	1590	443	390	1587	451	398	1584

RIBASSATO / UNDERSLUNG

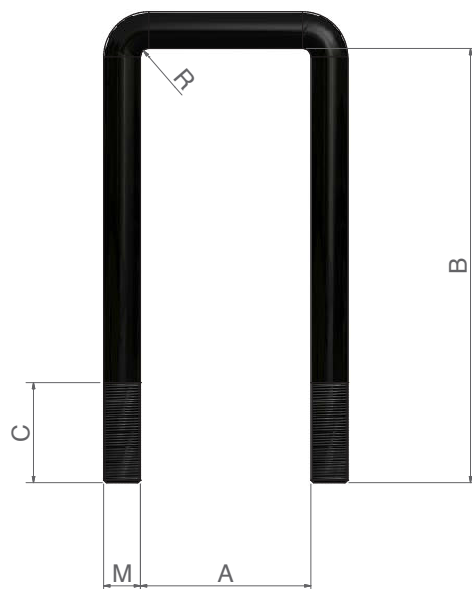


C	EE	LF		Q=100			Q=110			Q=130		
				D	D1	EE1	D	D1	EE1	D	D1	EE1
(kg)	(mm)			(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
18500	1700	L120-B548	9x20 (4LM)	253	194	1739	248	189	1742			
20000	1600	L120-B548	9x20 (4LM)	238	186	1636	233	181	1639			
20500	1700	L120-B526	10x20 (4LM)	241	180	1753	236	175	1755	224	163	1761
21500	1500	L120-B542	9x20 (4LM)	228	180	1575	223	175	1578	214	166	1587
22000	1500	L120-B278	10x20 (4LM)	228	183	1575	223	178	1578	214	169	1587
22000	1600	L120-B526	10x20 (4LM)	228	175	1650	223	170	1653	214	161	1661

C	PORTATA DI 2 BALESTRE	CAPACITY OF 2 SPRINGS
EE	PASSO	WHEEL BASE
EE1	PASSO A VUOTO	WHEEL BASE WHEN EMPTY
LF	TIPO DI BALESTRA	LEAF SPRING
D	ALTEZZA A VUOTO	HEIGHT WHEN EMPTY
D1	ALTEZZA SOTTO CARICO	HEIGHT WHEN LOADED
Q	LATO QUADRO ASSALE	AXLE SQUARE BEAM
LM	LAME MADRI	MOTHER LEAFS

Cavallotti _ U-bolts

A (mm)	B (mm)	C (mm)	M	R (mm)	CODICE Code	PESO Weight (kg)
72	120	50	M18x1,5	5	42318018	0,65
72	165	50	M18x1,5	5	42318019	0,83
72	185	50	M18x1,5	5	42318001	0,90
82	180	50	M18x1,5	5	42318010	0,90
82	195	50	M18x1,5	5	42318002	0,96
82	220	80	M22x1,5	5	42322009	1,60
92	205	50	M18x1,5	5	42318003	1,00
92	220	80	M22x1,5	5	42322019	1,65
92	230	80	M22x1,5	5	42322001	1,70
92	250	80	M22x1,5	5	42322010	1,80
102	150	50	M22x1,5	5	42322021	1,25
102	225	50	M22x1,5	5	42322013	1,70
102	240	60	M22x1,5	5	42322002	1,80
102	260	60	M22x1,5	5	42322003	1,90
112	250	60	M22x1,5	5	42322027	1,90
112	270	80	M22x1,5	5	42322004	2,00
112	320	80	M22x1,5	5	42322030	2,30



Coppie di serraggio _ Torque

TIPO DI CAVALLOTTO U Bolt type (mm)	COPPIE DI SERRAGGIO Torque (Nm)
18	230 - 280
22	450 - 500
24	550 - 600
27	600 - 650

