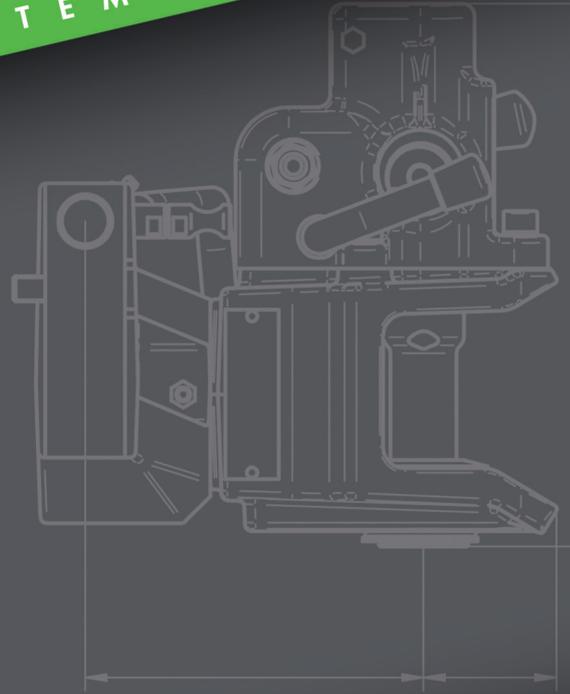
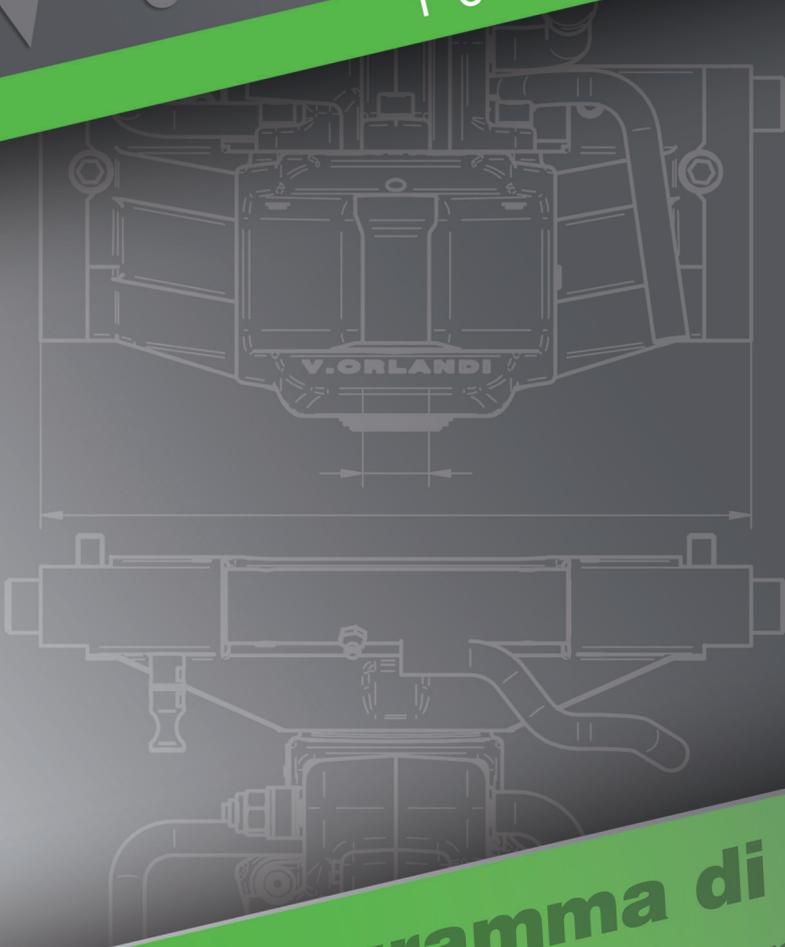




V. ORLANDI

TOWING SYSTEMS



Programma di produzione

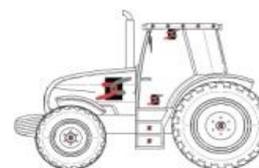
Production programme

Sistemi di traino per macchine agricole
Towing system agriculture and forestry

since 1859

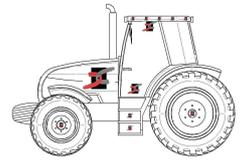
ed.07

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AH31

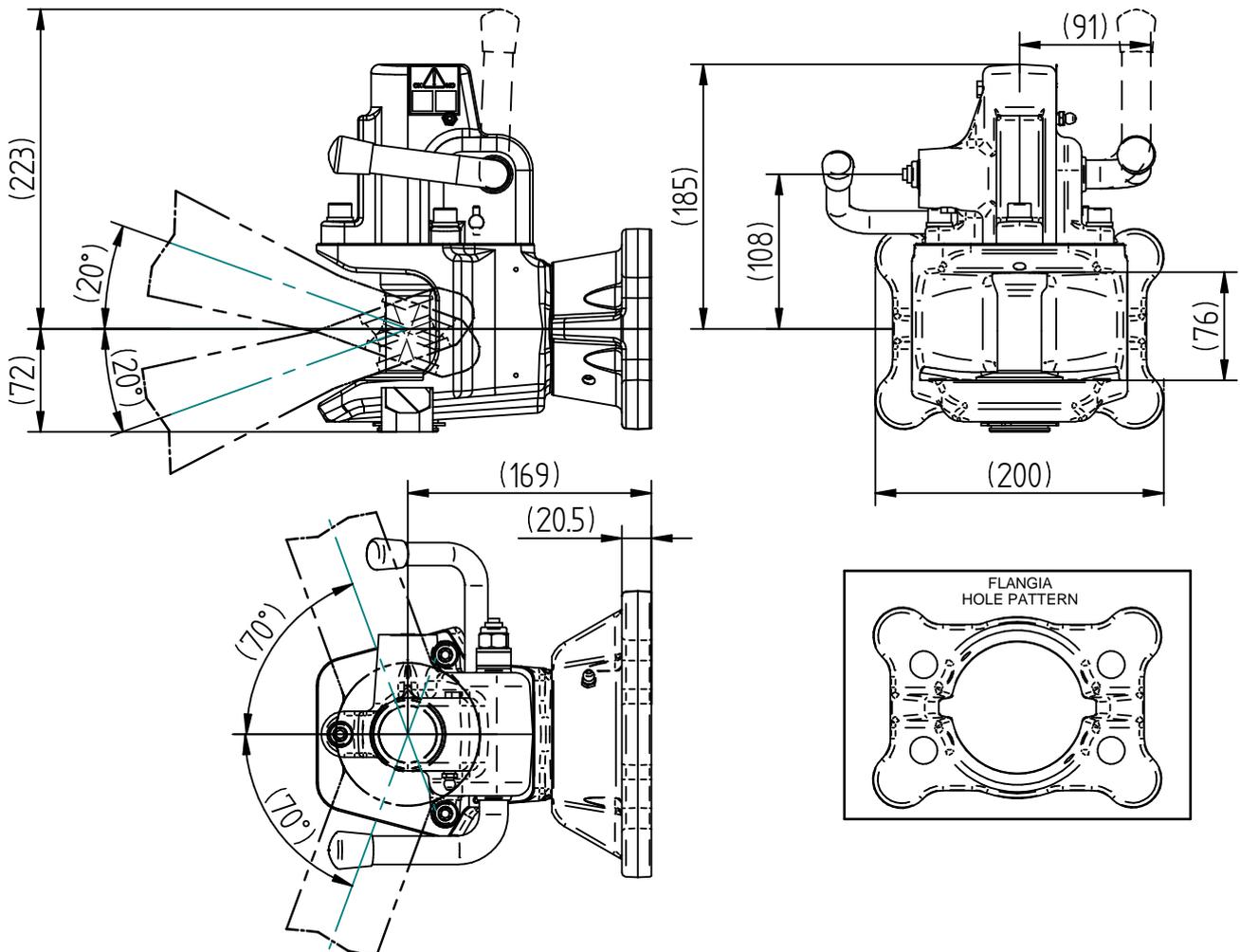


**Gancio automatico serie pesante
perno cilindrico Ø31**
**Heavy duty automatic coupling
cylindrical pin Ø31**

STANDARD DIMENSIONALI dimensional standards	DIN 11028 ; ISO 6489-2 ; 2009/144/CE ; 2016/1788
GIREVOLE swivel	 360°
per OCCHIONI non girevoli for no swivel draw-bar eyes	Ø 40 ISO 5692-2 ; ISO 8755 ; DIN 11026 ; DIN 11043 ; DIN 74054

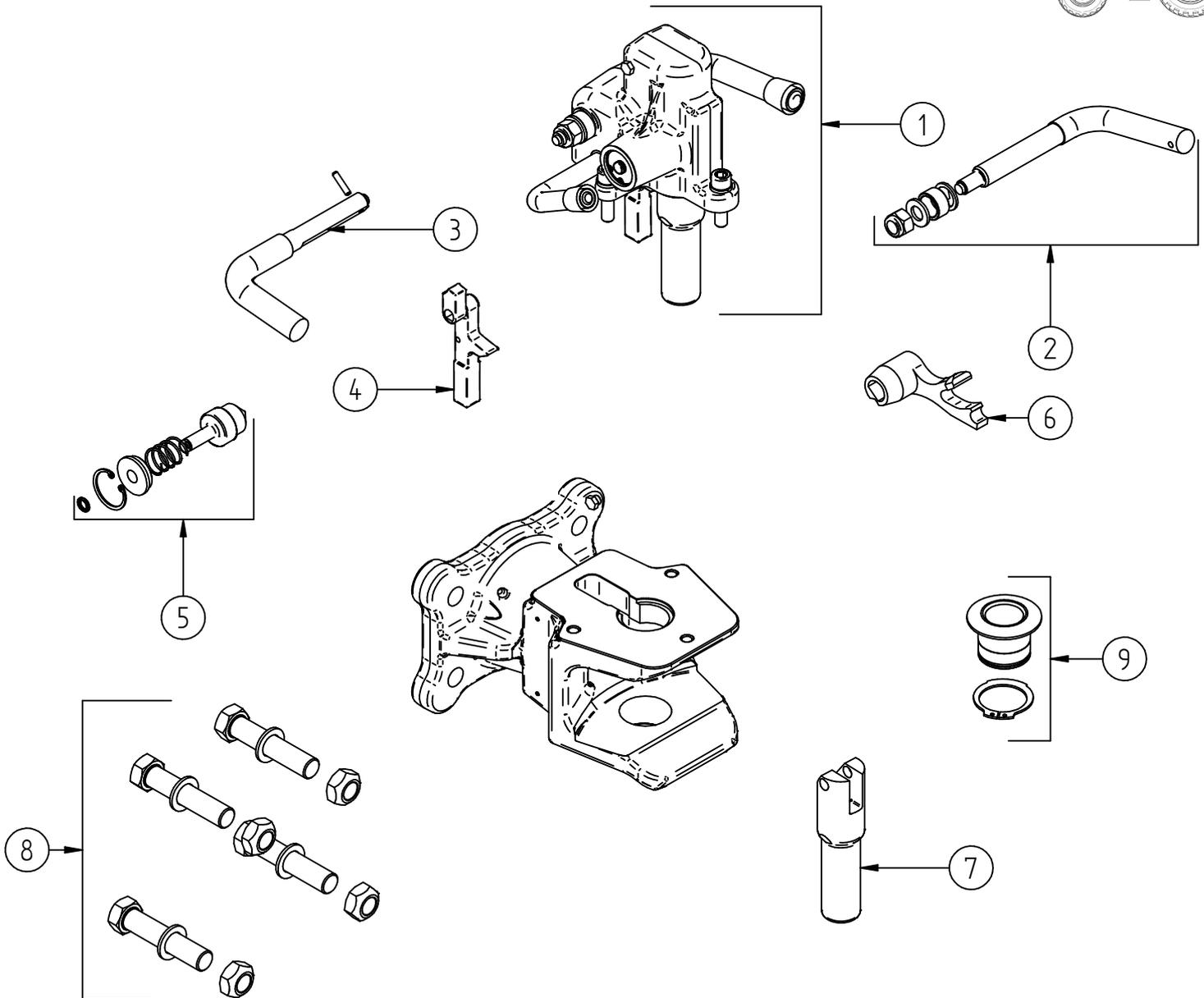
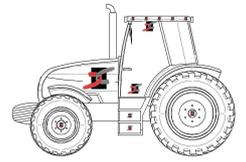
Dati tecnici - Technical data

Modello - Model	Codice Article number	Flangia Hole pattern (mm)	Viti di fissaggio Fixing screws	Valore D D-Value (kN)	Carico verticale S S-Load (kg)	Omologazione Homologation	Peso Weight (kg)
AH31	AH31 0 B3	120 X 55	M14	60	2000	e11*2015/208*2016/1788ND*00309	18
	AH31 0 B1	130 X 60	M18	100	2500	e3*2015/208*2016/1788ND*30009	18
	AH31 0 B4	140 X 80	M16	100	2500	e3*2015/208*2016/1788ND*30009	18
	AH31 0 B5	160 X 100	M20	100	2500	e3*2015/208*2016/1788ND*30009	18



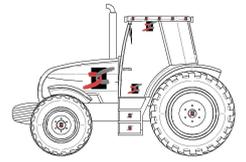
AH31

Ricambi - Spare parts



POS.	Tutti i tipi All types	Codice - article number			
		AH 31 0B1	AH 31 0B4	AH 31 0B5	AH 31 0B3
1		RA 00 034	RA 00 034	RA 00 034	RA 00 034
2	RA 00 283				
3	RA 00 282				
4	RA 00 280				
5	RA 00 143				
6	RA 00 091				
7		RA 00 035	RA 00 035	RA 00 035	RA 00 035
8		RA 00 040	RA 00 033	RA 00 190	RA 00 133
9	RA 00 028				

AH38

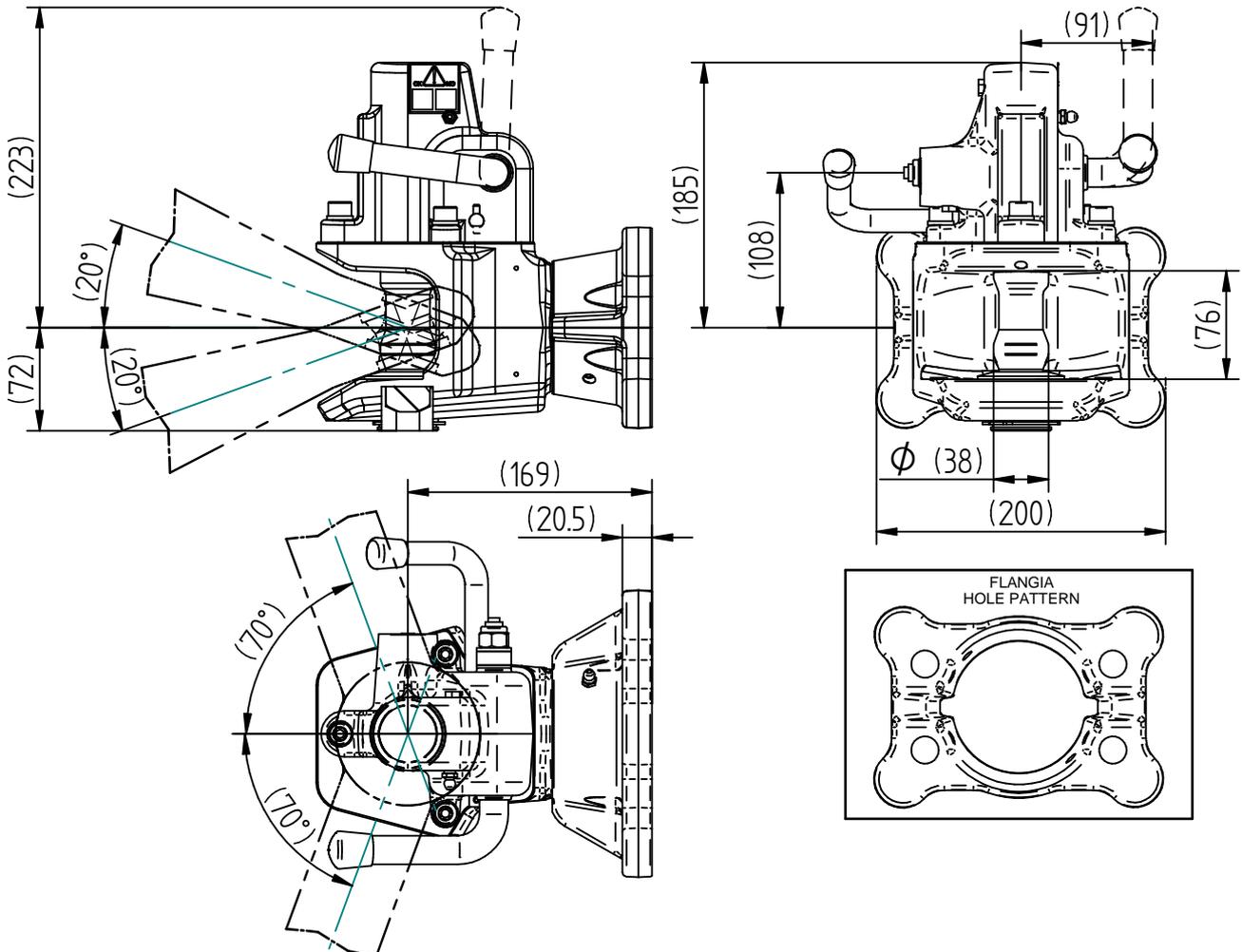


**Gancio automatico serie pesante
perno a botte Ø38**
**Heavy duty automatic coupling
barrel pin Ø38**

STANDARD DIMENSIONALI dimensional standards	DIN 11028 ; ISO 6489-2 ; 2009/144/CE ; 2015/208
GIREVOLE swivel	360°
per OCCHIONI non girevoli for no swivel draw-bar eyes	Ø 40 ISO 5692-2 ; ISO 8755 ; DIN 11026 ; DIN 11043 ; DIN 74054

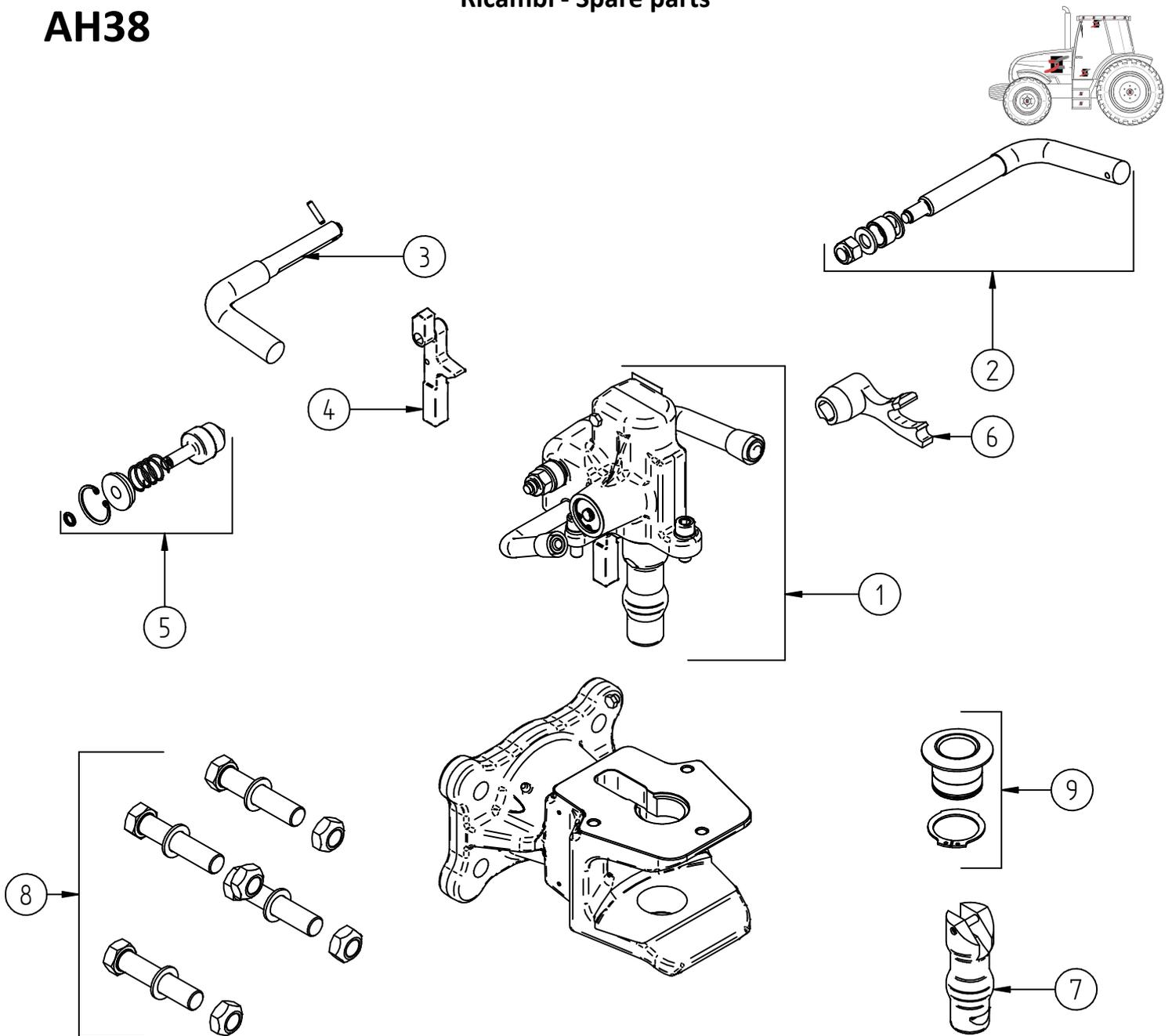
Dati tecnici - Technical data

Modello - Model	Codice Article number	Flangia Hole pattern (mm)	Viti di fissaggio Fixing screws	Valore D D-Value (kN)	Carico verticale S S-Load (kg)	Omologazione Homologation	Peso Weight (kg)
AH38	AH38 0 A3	120 X 55	M14	60	2000	e11*2015/208*2016/1788ND*00309	18
	AH38 0 A1	130 X 60	M18	100	2500	e3*2015/208*2016/1788ND*30009	18
	AH38 0 A4	140 X 80	M16	100	2500	e3*2015/208*2016/1788ND*30009	18
	AH38 0 A5	160 X 100	M20	100	2500	e3*2015/208*2016/1788ND*30009	18



AH38

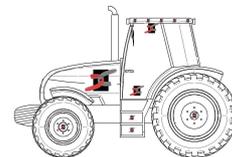
Ricambi - Spare parts



POS.	Tutti i tipi All types	Codice - article number			
		AH 38 0A1	AH 38 0A4	AH 38 0A5	AH 38 0A3
1		RA 00 007	RA 00 007	RA 00 007	RA 00 007
2	RA 00 283				
3	RA 00 282				
4	RA 00 280				
5	RA 00 143				
6	RA 00 091				
7		RA 00 029	RA 00 029	RA 00 029	RA 00 029
8		RA 00 040	RA 00 033	RA 00 190	RA 00 133
9	RA 00 028				



AH40

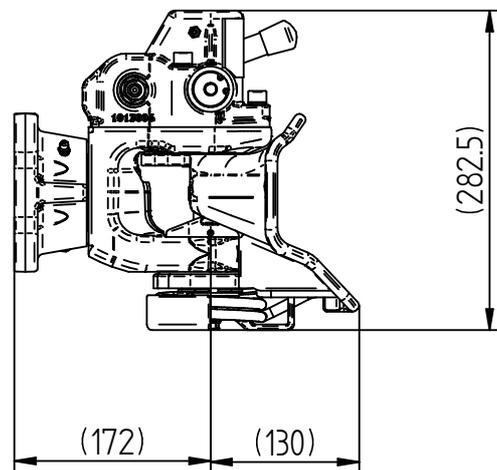
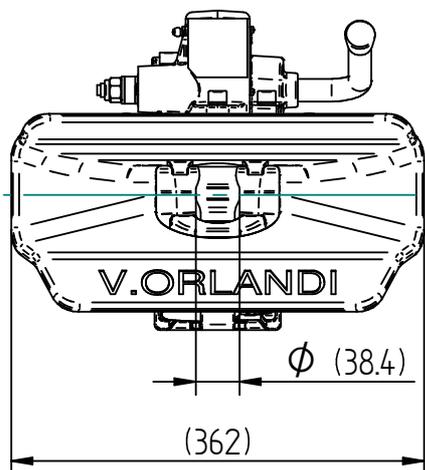


**Gancio automatico serie pesante
perno a botte Ø40**
**Heavy duty automatic coupling
barrel pin Ø40**

STANDARD DIMENSIONALI dimensional standards	ECE R55-01
GIREVOLE swivel	360°
per OCCHIONI non girevoli for no swivel draw-bar eyes	Ø 40 ISO 5692-2 ; ISO 8755 ; DIN 11026 ; DIN 11043 ; DIN 74054

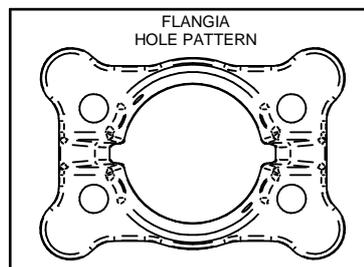
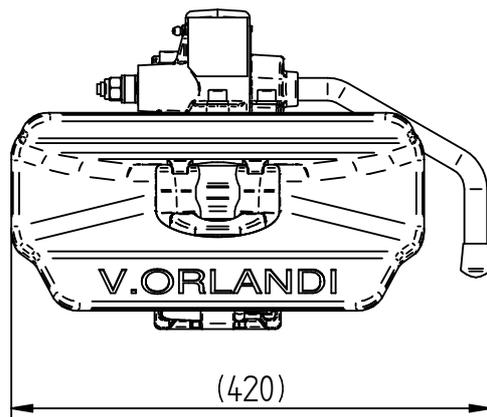
Dati tecnici - Technical data								
Modello - Model	Codice Article number	Flangia Hole pattern mm	Viti di fissaggio Fixing screws	Valore D D-Value kN	Valore Dc Dc-Value kN	Carico verticale S S-Load (kg)	Omologazione Homologation ECE R55-01	Peso Weight kg
AH40	AH 40 001	130x60	M18					29
	AH 4B 001	130x60	M18					
	AH 40 003	120x55	M14	70	70	700	E11*55R-01*11077	
	AH 4B 003	120x55	M14	70	70	700	E11*55R-01*11077	
	AH 40 004	140x80	M16	110	92	1000	E11*55R-01*11110	
	AH 4B 004	140x80	M16	110	92	1000	E11*55R-01*11110	
	AH 40 005	160x100	M20					
	AH 4B 005	160x100	M20					

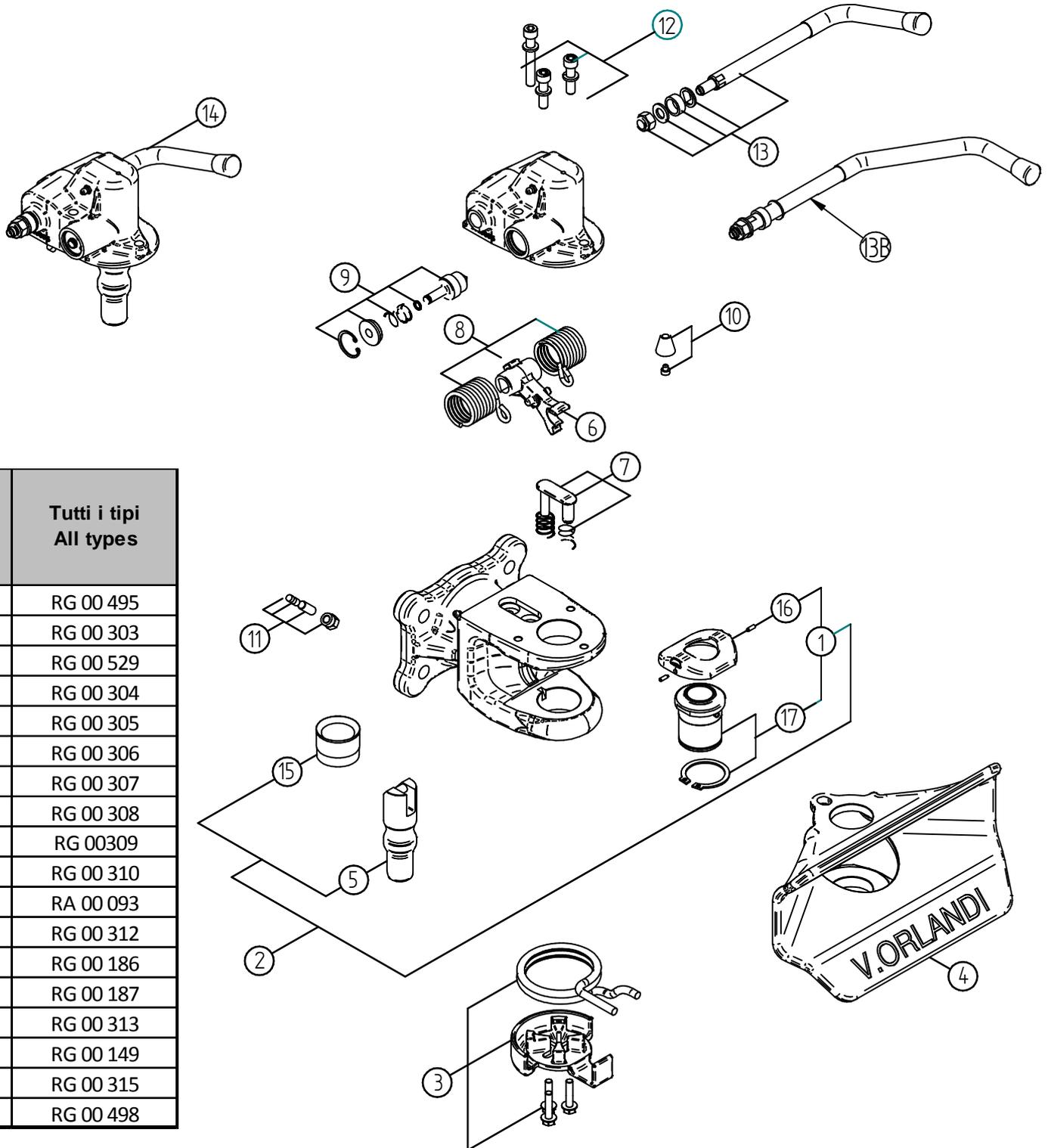
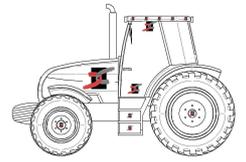
AH40



AH4B

Leva bassa
Action lever downwards



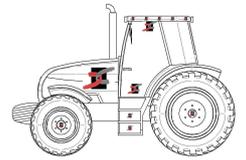


Pos.	Tutti i tipi All types
1	RG 00 495
2	RG 00 303
3	RG 00 529
4	RG 00 304
5	RG 00 305
6	RG 00 306
7	RG 00 307
8	RG 00 308
9	RG 00309
10	RG 00 310
11	RA 00 093
12	RG 00 312
13	RG 00 186
13B	RG 00 187
14	RG 00 313
15	RG 00 149
16	RG 00 315
17	RG 00 498



AH50

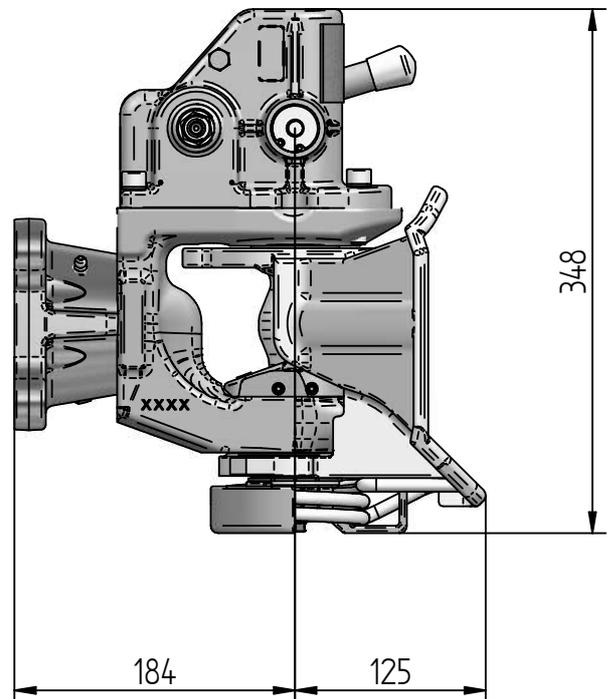
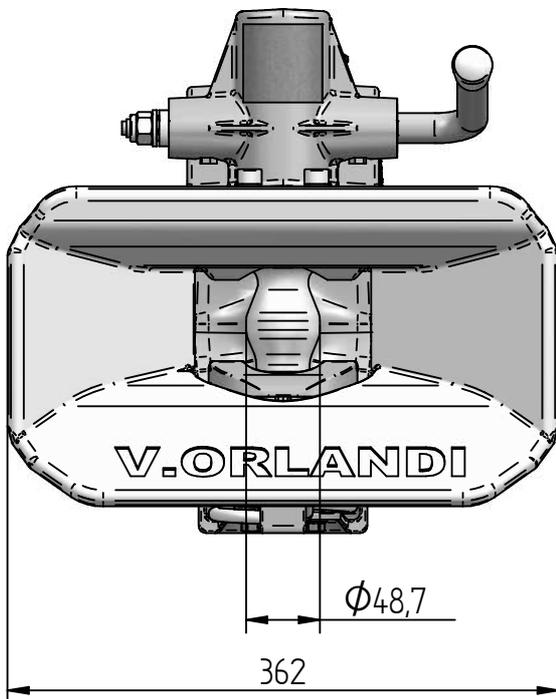
**Gancio automatico serie pesante
perno a botte Ø50**
**Heavy duty automatic coupling
barrel pin Ø50**

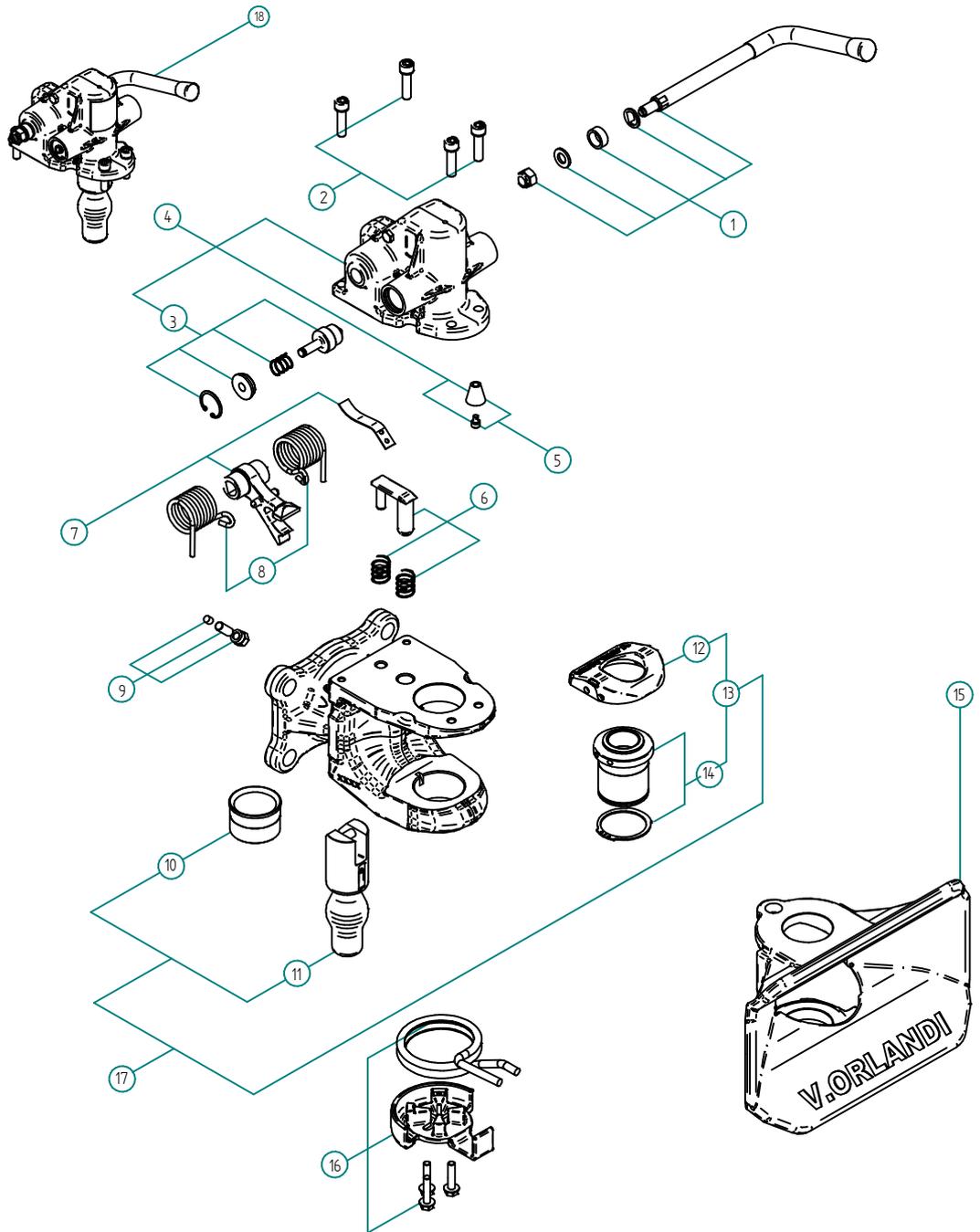
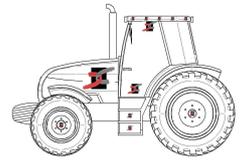


STANDARD DIMENSIONALI dimensional standards	ECE R55-01
GIREVOLE swivel	360°
per OCCHIONI non girevoli for no swivel draw-bar eyes	Ø 50 DIN 74053; ISO 20019

Dati tecnici - Technical data

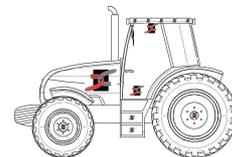
Modello - Model	Codice Article number	Flangia Hole pattern mm	Viti di fissaggio Fixing screws	Valore D D-Value kN	Carico verticale S S-Load (kg)	Omologazione Homologation	Peso Weight kg
AH 50	AH 50 00C	140x80	M20	190	2000	in progress	35
	AH 50 00S	160x100	M20				





Pos.	Tutti i tipi All types
1	RG 00 186
2	RG 00 185
3	RG 00 181
4	RG 00 191
5	RG 00 091
6	RG 00 179
7	RG 00 188
8	RG 00 178
9	RG 00 093
10	RG 00 088
11	RA 00 190
12	RG 00 269
13	RG 00 427
14	RG 00 433
15	RG 00 193
16	RG 00 529
17	RG 00 199
18	RG 00 176

MH31



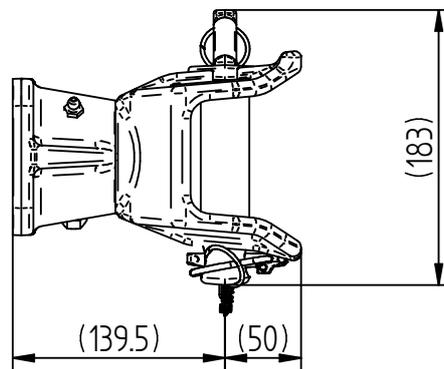
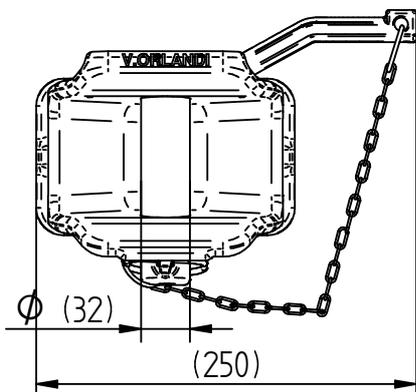
Gancio manuale - perno cilindrico Ø32
Manual coupling - cylindrical pin Ø32

STANDARD DIMENSIONALI dimensional standards	DIN 11028 ; ISO 6489-2 ; 2009/144/CE ; 2015/208
GIREVOLE swivel	 360°
per OCCHIONI non girevoli for no swivel draw-bar eyes	Ø 40/50 ISO 5692 ; ISO 8755 ; ISO 20019 ; DIN 11026 ; DIN 11043 ; DIN 74054 ; DIN 74053

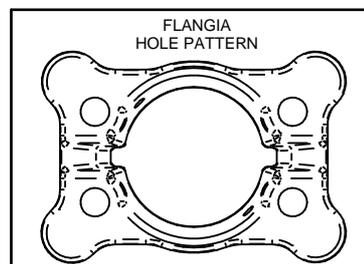
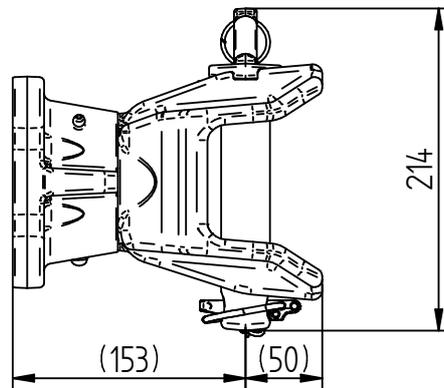
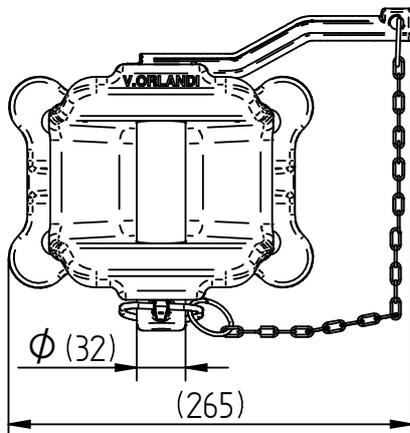
Dati tecnici - Technical data

Modello - Model	Codice Article number	Flangia Hole pattern (mm)	Viti di fissaggio Fixing screws	Valore D D-Value (kN)	Carico verticale S S-Load (kg)	Omologazione Homologation	Peso Weight (kg)
MH31	MH31 0 F3	120 X 55	M14	60	2000	e11*2015/208*2016/1788ND*00270	9,5
	MH31 0 F1	130 X 60	M18	60	2000	e11*2015/208*2016/1788ND*00270	
MH31H Heavy Duty	MH31 0 E1	130 X 60	M18	100	2500	e3*2015/208*2016/1788ND*30010	14,5
	MH31 0 E4	140 X 80	M16	100	2500	e3*2015/208*2016/1788ND*30010	
	MH31 0 E5	160 X 100	M20	100	2500	e3*2015/208*2016/1788ND*30010	

MH 31



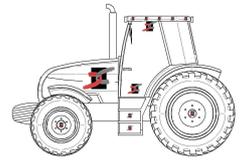
MH 31H Heavy Duty



MH 31 - MH31H

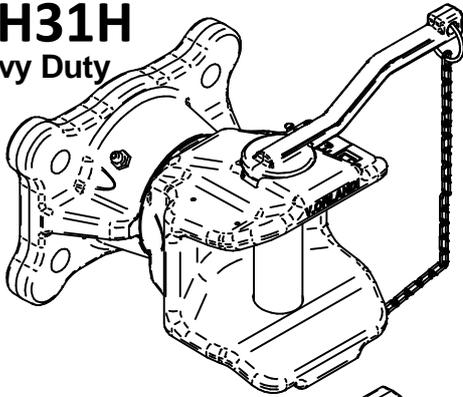
Heavy Duty

Ricambi - Spare parts

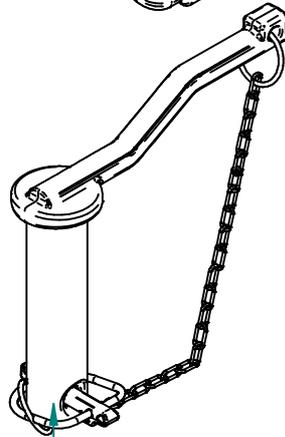
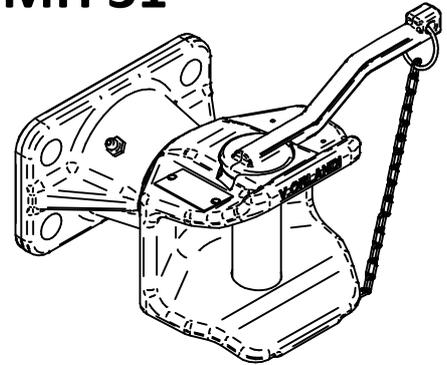


MH31H

Heavy Duty

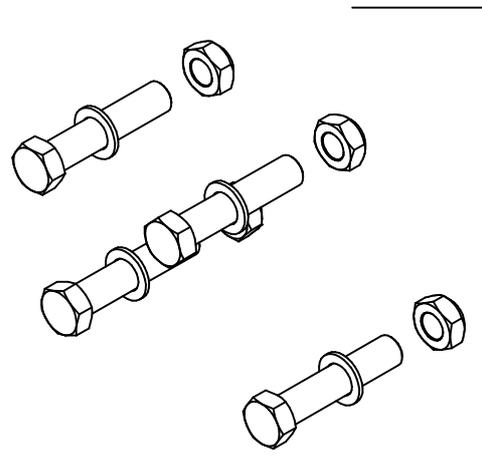


MH 31



1

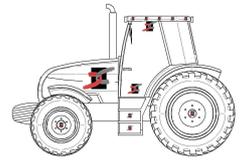
3



2

POS.	Tutti i tipi All types	Codice - Article number				
		MH 31 0F1	MH 31 0F3	MH 31 0E1	MH 31 0E4	MH 31 0E5
1		RA 00 215	RA 00 215	RA 00 214	RA 00 214	RA 00 214
2		RA 00 040	RA 00 133	RA 00 040	RA 00 033	RA 00 190
3	RA 00 093					

MH JH



Gancio manuale - perno cilindrico

Ø32

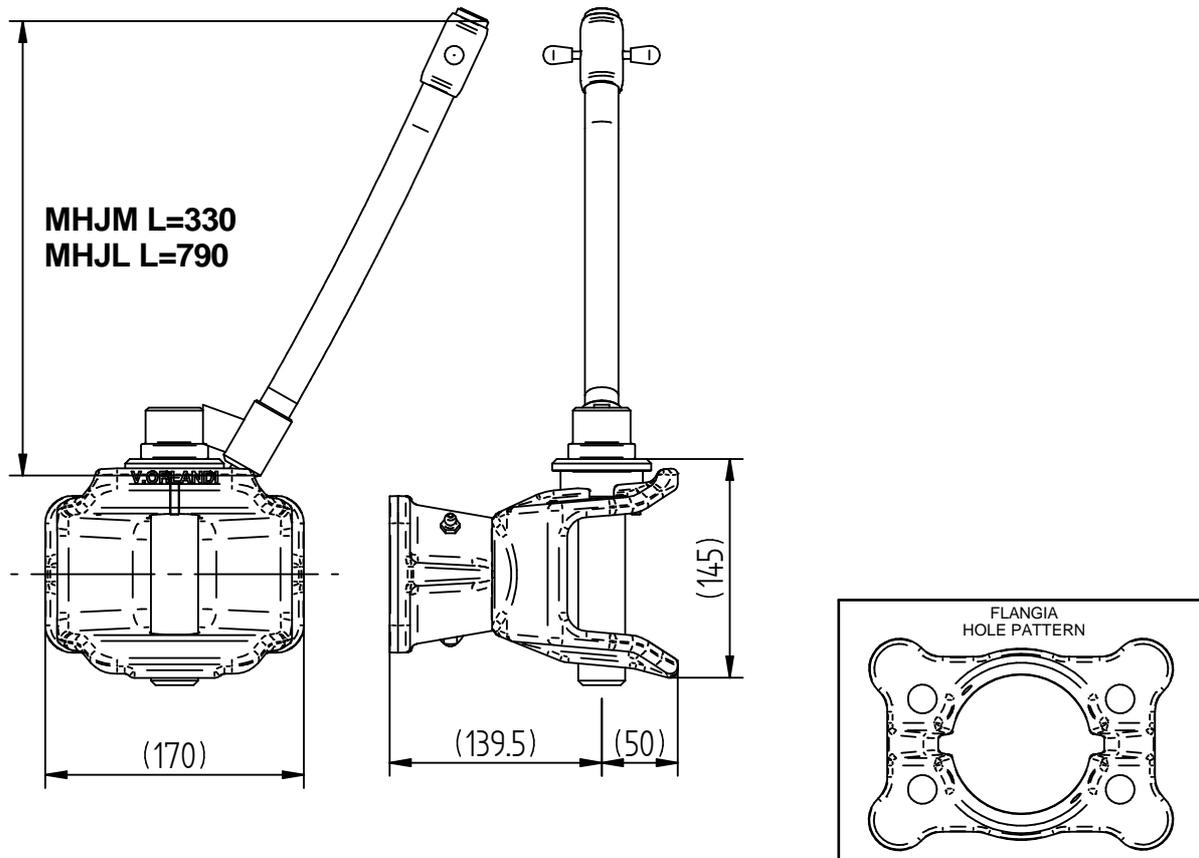
Manual coupling -cylindrical pin

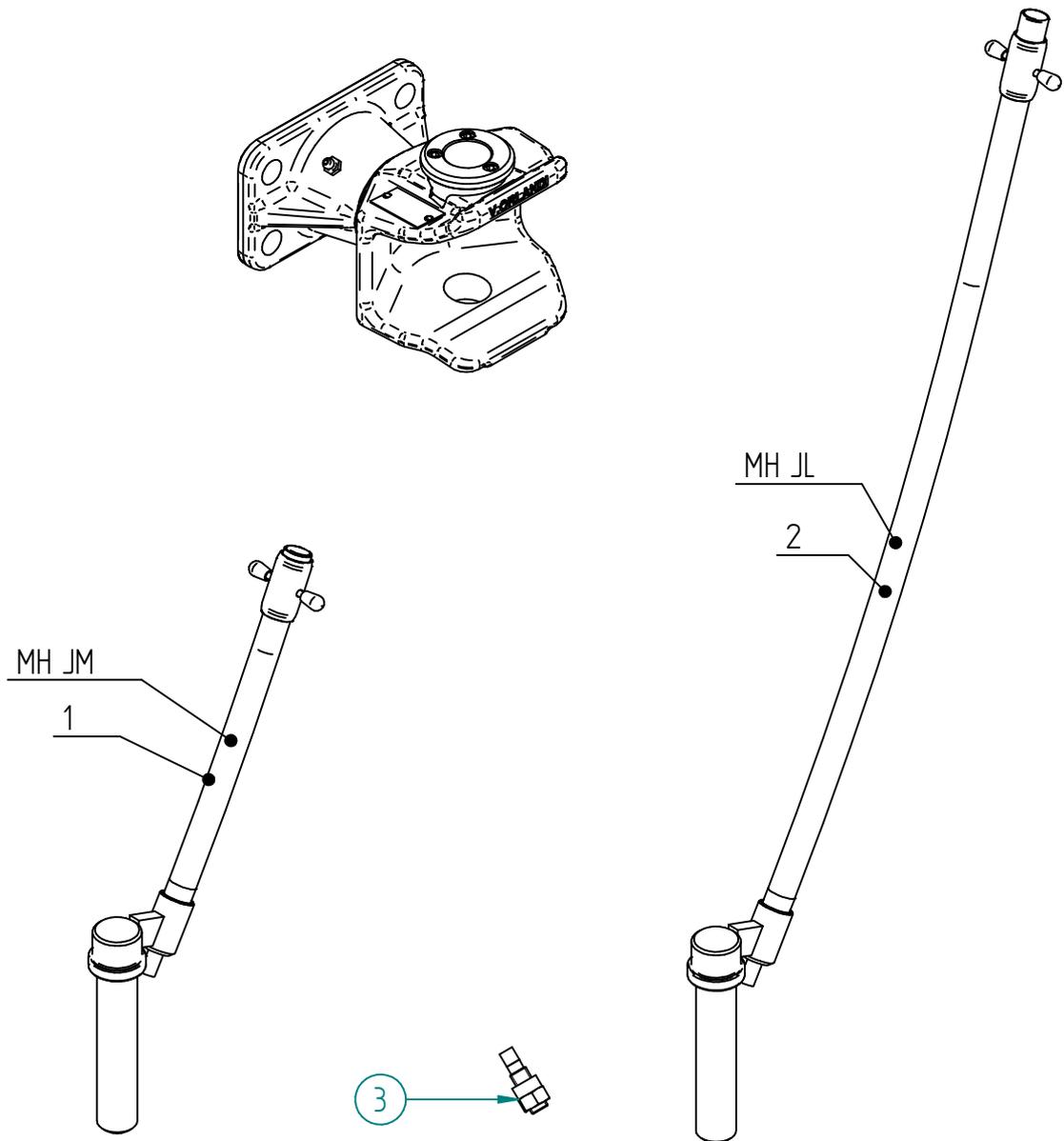
Ø32

STANDARD DIMENSIONALI dimensional standards	DIN 11028 ; ISO 6489-2 ; 2009/144/CE ;2015/208
GIREVOLE swivel	360°
per OCCHIONI non girevoli for no swivel draw-bar eyes	Ø 40/50 ISO 5692-2 ; ISO 8755 ; DIN 11026 ; DIN 11043 ; DIN 74054

Dati tecnici - Technical data

Modello - Model	Codice Artide number	Flangia Hole pattern (mm)	Viti di fissaggio Fixing screws	Lunghezza perno (mm)	Valore D D-Value (kN)	Carico verticale S S-Load	Omologazione Homologation	Peso Weight (kg)
MHJH	MHJM0F1	130 X 60	M18	330	60	2000	e11*2015/208*2016/1788ND*00270	9,5
	MHJM0F3	120X55	M14	330			e11*2015/208*2016/1788ND*00270	
	MHJL0F1	130 X 60	M18	790	60	2000	e11*2015/208*2016/1788ND*00270	9,5
	MHJL0F3	120X55	M14	790			e11*2015/208*2016/1788ND*00270	





POS.	Tutti i tipi All types	Codice - Article number			
		MH JM 0 F1	MH JM 0 F3	MH JL 0 F1	MH JL 0 F3
1		RA 00 070	RA 00 070		
2				RA 00 063	RA 00 063
3	RA 00 093				

AH28

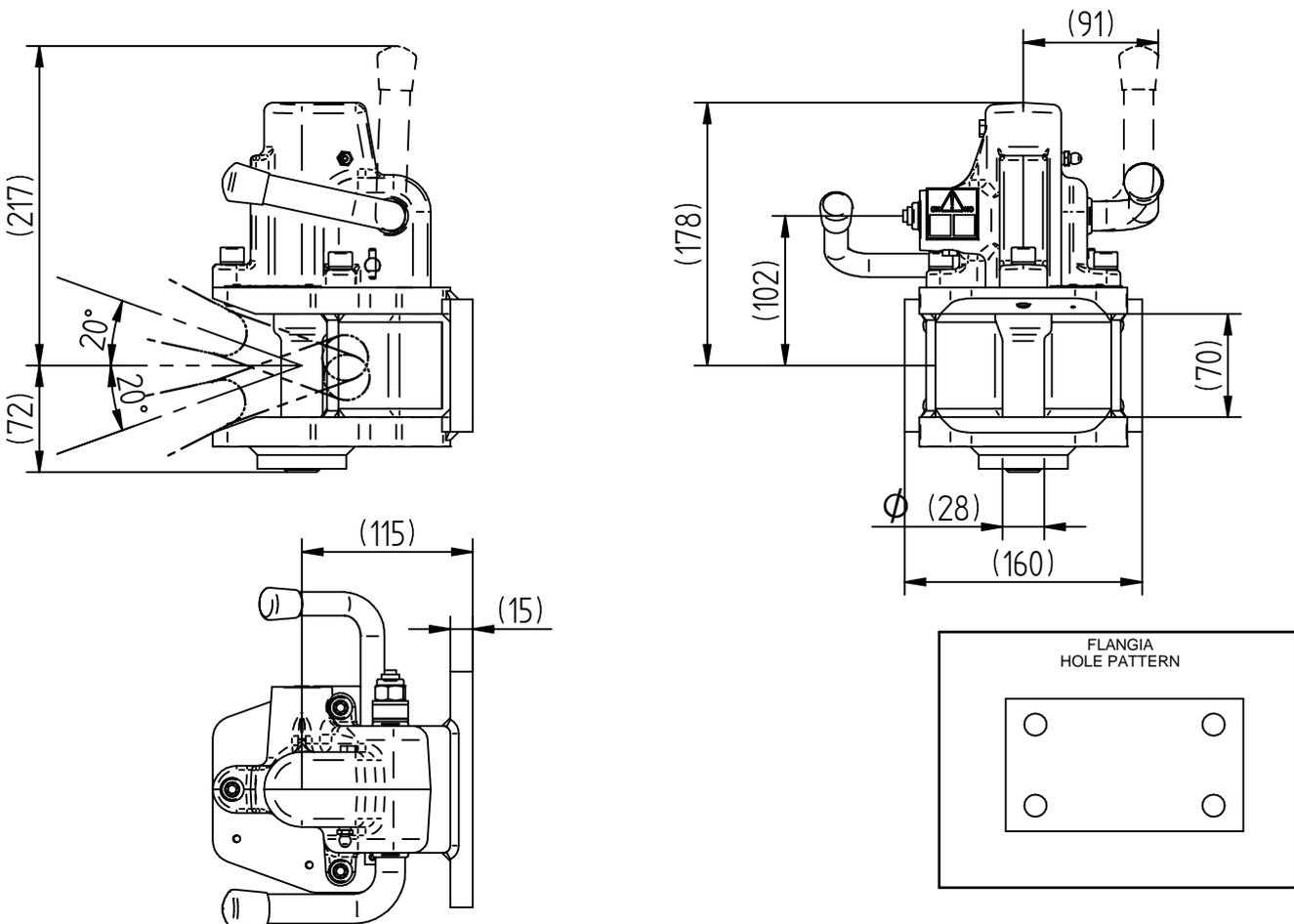


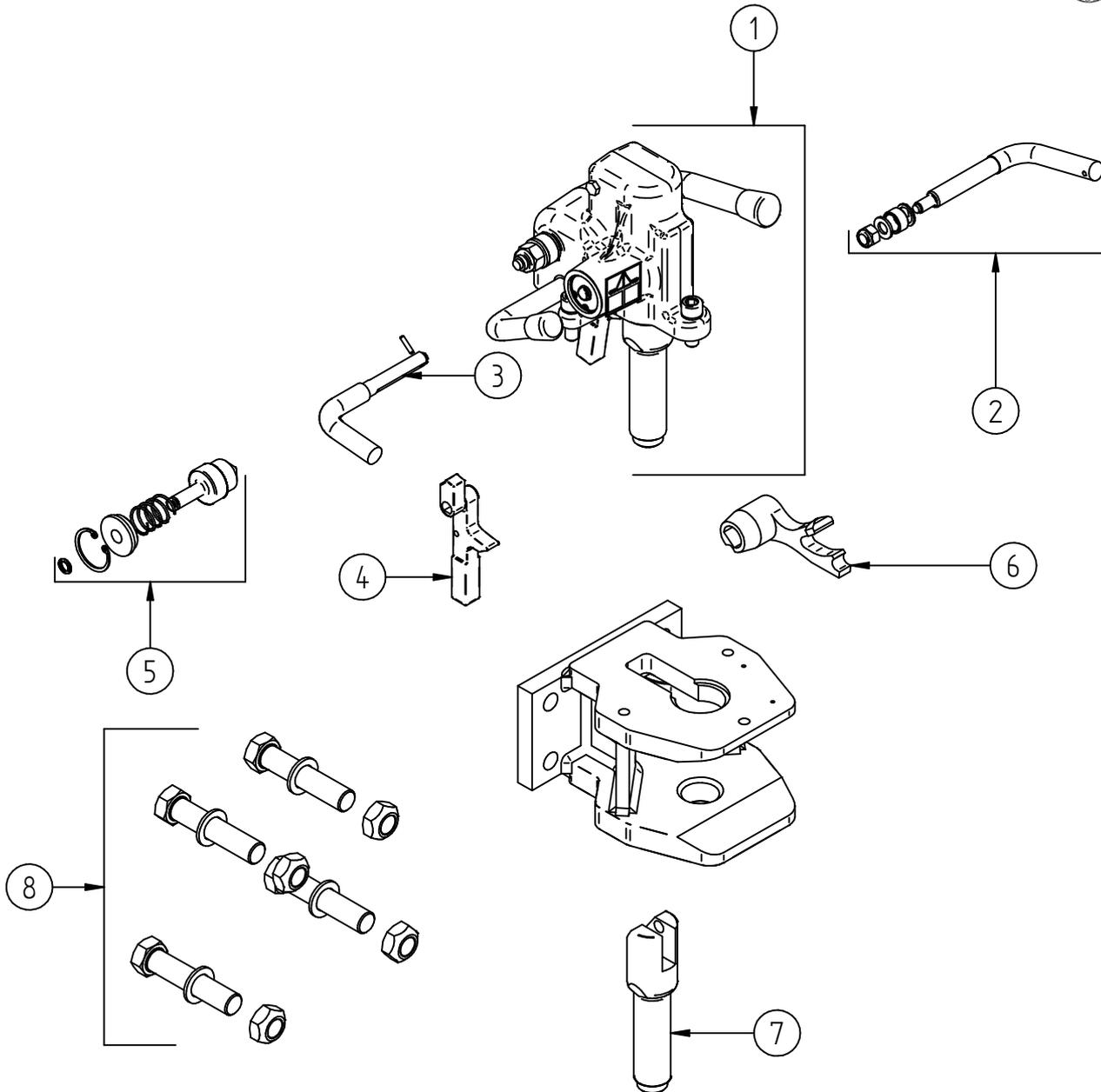
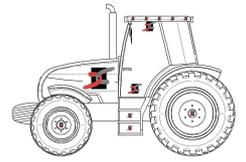
**Gancio automatico
perno cilindrico Ø28**
**Automatic coupling
cylindrical pin Ø28**

STANDARD DIMENSIONALI dimensional standards	CUNA 338.02 cat. C ; ISO 6489-5 shape x ; 2013/8/CEE;2015/208
NON GIREVOLE non-swivel	0°
per OCCHIONI for draw-bar eyes	CUNA 438.06 cat. E3 ; ISO 5692-3 shape X

Dati tecnici - Technical data

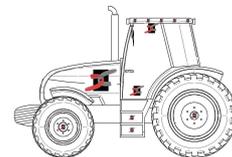
Modello - Model	Codice Article number	Flangia Hole pattern mm	Viti di fissaggio Fixing screws	categoria class	massa rimorchiabile trailer mass t	carico verticale static load daN	Omologazione Homologation	Peso Weight kg
AH28	AH28 0 G1	130 X 60	M18	C	6	1500	DGM*3*0187GA	13
	AH28 0 G3	120 X 55	M14					
	AH28 0 G4	140 X 80	M16					





POS.	Tutti i tipi All types	Codice - Article number		
		AH28 0 G1	AH28 0 G3	AH28 0 G4
1	RA 00 188			
2	RA 00 141			
3	RA 00 282			
4	RA 00 280			
5	RA 00 143			
6	RA 00 091			
7	RA 00 189			
8		RA 00 040	RA 00 133	RA 00 241

MH18

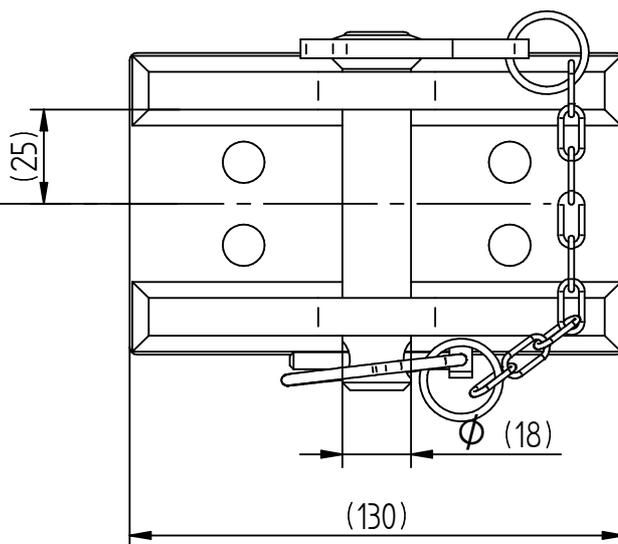
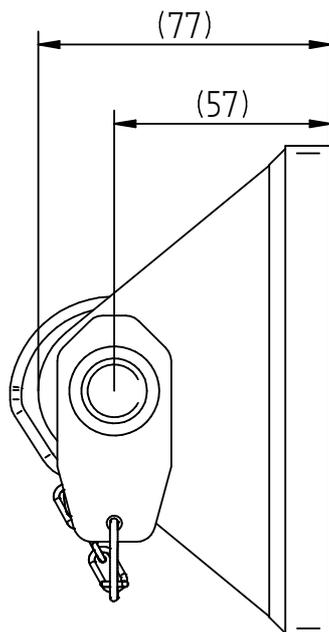
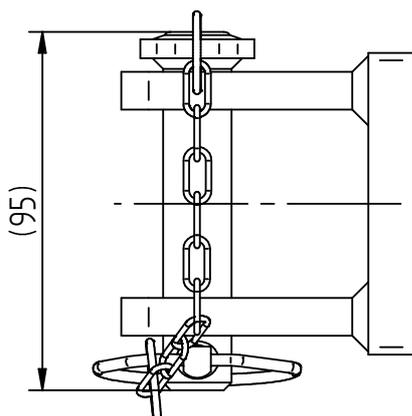


**Gancio manuale
perno cilindrico Ø18**
**Manual coupling
cylindrical pin Ø18**

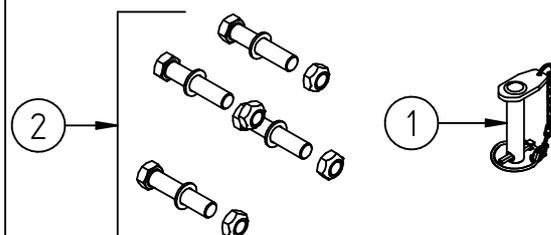
STANDARD DIMENSIONALI dimensional standards	CUNA 338.02 cat. A1 ; ISO 6489-5 shape w ; 2013/8/CEE;2015/208
NON GIREVOLE non-swivel	
per OCCHIONI for draw-bar eyes	CUNA 438.06 cat. E1 ; ISO 5692-3 shape W

Dati tecnici - Technical data

Modello - Model	Codice Article number	Flangia Hole pattern mm	Viti di fissaggio Fixing screws	massa rimorchiabile trailer mass t	carico verticale static load daN	Omologazione Homologation	Peso Weight kg
MH18	MH18 O RX	70 X 22	M10	3	250	e3*2015/208*2015/208NS*10015	2



Ricambi - Spare parts

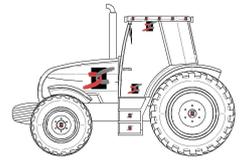


POS.	Tutti i tipi All types
1	RA 00 286
2	RA 00 284



MH28

**Gancio manuale
perno cilindrico Ø28**
**Manual coupling
cylindrical pin Ø28**



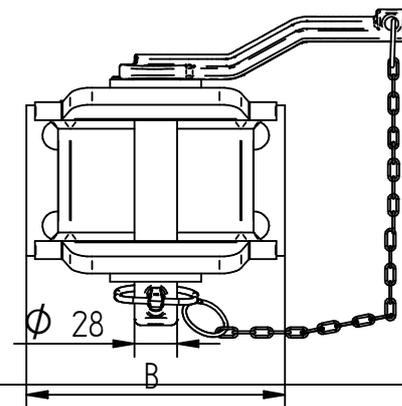
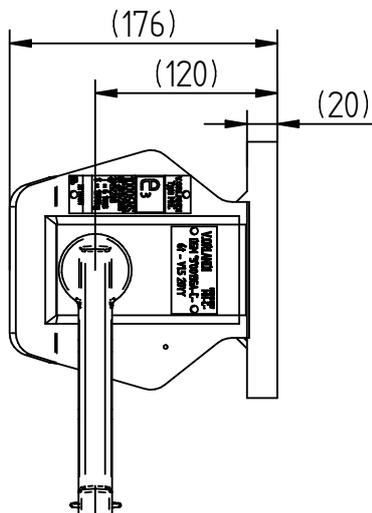
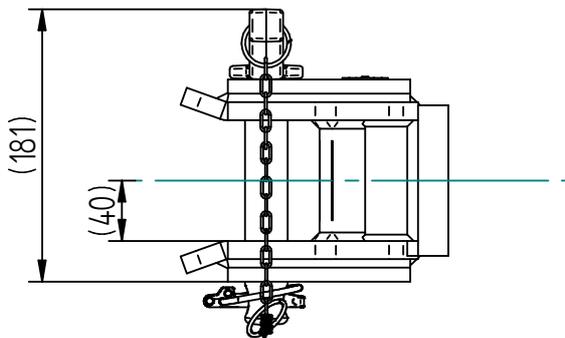
STANDARD DIMENSIONALI dimensional standards	CUNA 338.02 cat. C ; ISO 6489-5 shape x ; 2015/208
NON GIREVOLE non-swivel	
per OCCHIONI for draw-bar eyes	CUNA 438.06 cat. E3 ; ISO 5692-3 shape X

Dati tecnici - Technical data

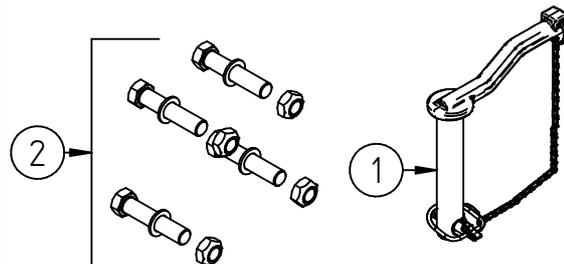
Modello - Model	Codice Article number	Flangia Hole pattern mm	Viti di fissaggio Fixing screws	Dimensione "B" "B" dimension	Tipo / Clevis Type ISO6849- 5	massa rimorchiabile trailer mass t	carico verticale static load daN	Omologazione Homologation	Peso Weight kg
MH28	MH28 0 G1	130 X 60	M18	170	X	12	2000	e3*2015/208*2015/208NS*10013	9,8
	MH28 0 G3	120 X 55	M14	155		6	1500	e3*2015/208*2015/208NS*10006	
	MH28 0 G4	140 X 80	M16	180		12	2000	e3*2015/208*2015/208NS*10013	
	MH28 0 G5	160x100	M20	200		12	2000	e3*2015/208*2015/208NS*10013	

Dati tecnici - Technical data

Modello - Model	Codice Article number	Flangia Hole pattern mm	Viti di fissaggio Fixing screws	Dimensione "B" "B" dimension	Tipo / Clevis Type ISO6849- 5	Valore D D-Value (kN)	Carico verticale S S-Load (kg)	Omologazione Homologation	Peso Weight kg
MH28X	MH2X 0 G1	130 X 60	M18	170	X	62	1700	e3*2015/208*2016/1788ND*10025	9,8
	MH2X 0 G4	140 X 80	M16	180		62	1700	e3*2015/208*2016/1788ND*10025	
	MH2X 0 G5	160x100	M20	200		62	1700	e3*2015/208*2016/1788ND*10025	

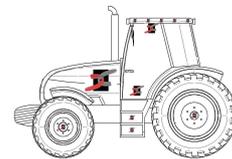


Ricambi - Spare parts



POS.	Tutti i tipi All types	Codice - Article number			
		MH 28 0G1	MH 28 0G3	MH 28 0G4	MH 28 0G5
1	RA 00 001				
2		RA 00 040	RA 00 133	RA 00 241	RA 00 190

MH28M

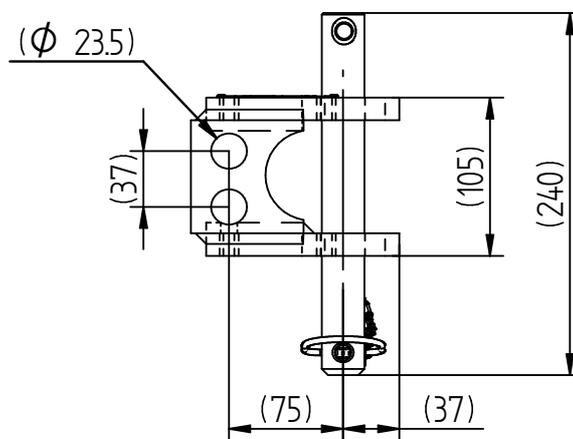
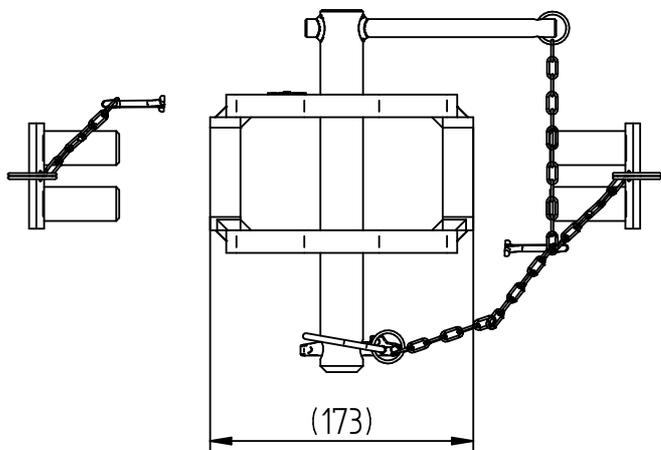


**Gancio manuale Matriosca
perno cilindrico Ø28
Manual coupling Matriosca
cylindrical pin Ø28**

STANDARD DIMENSIONALI dimensional standards	CUNA 338.02 cat. C ; ISO 6489-5 shape x ; 2015/208
NON GIREVOLE non-swivel	0°
per OCCHIONI for draw-bar eyes	CUNA 438.06 cat. E3 ; ISO 5692-3 shape X

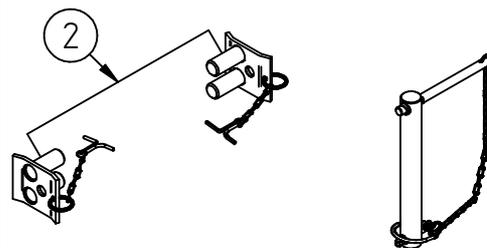
Dati tecnici - Technical data

Modello - Model	Codice Article number	Valore Maximum Horizontal Load D- value	carico verticale static load daN	Omologazione Homologation	Peso Weight kg
MH 28-M	MH 28 MG9	51,2	1848	e11*2015/208*2016/1788ND*10021	6,5



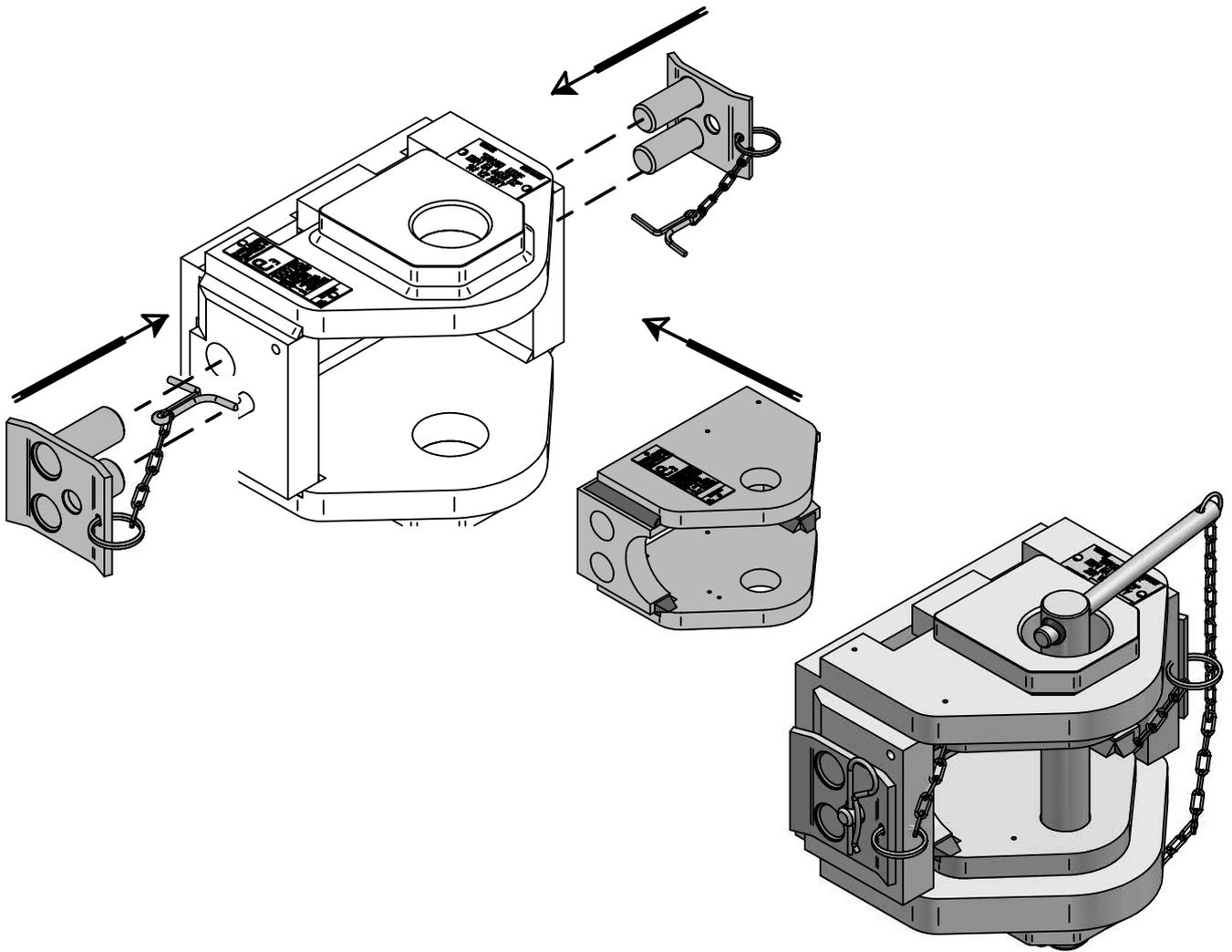
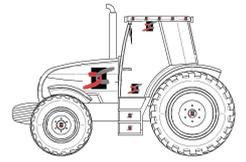
SISTEMA MATRIOSCA

Ricambi - Spare parts



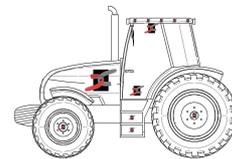
POS.	Tutti i tipi All types	Codice - Article number	
		MH 28 0G9	
1	RA 00 056		
2	RA 00 359		

Esempi di Applicazione del sistema Matriosca





MH43M

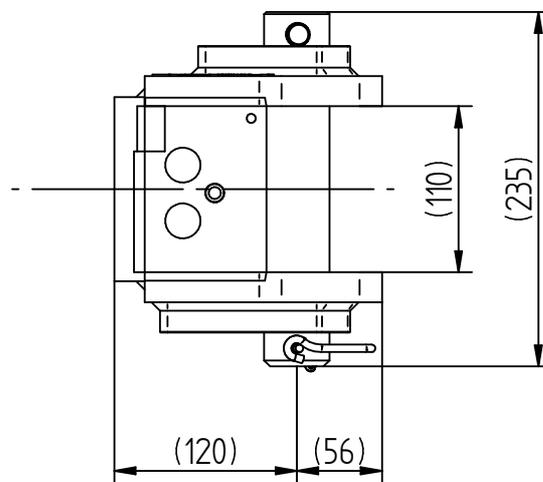
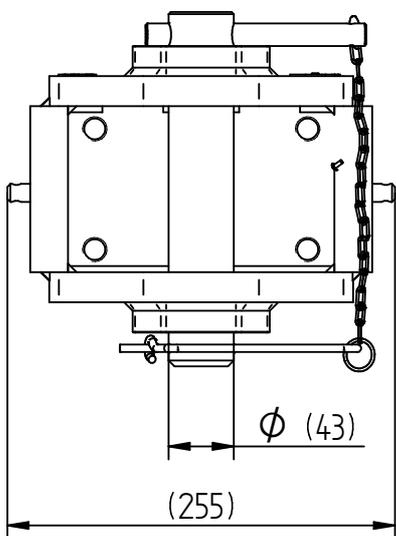


**Gancio manuale
perno cilindrico Ø43
Manual coupling
cylindrical pin Ø43**

STANDARD DIMENSIONALI dimensional standards	CUNA 338.02 cat. D2 ; ISO 6489-5 shape y ; 2015/208
NON GIREVOLE non-swivel	
per OCCHIONI for draw-bar eyes	CUNA 438.06 cat. F2 ; ISO 5692-3 shape Y

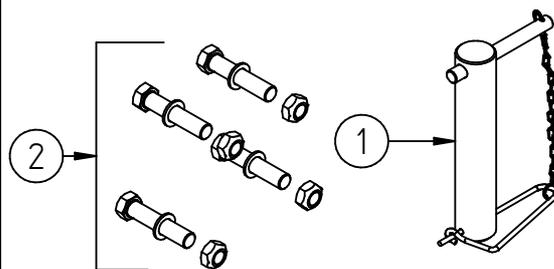
Dati tecnici - Technical data

Modello Model	Codice Article number	Flangia Hole pattern mm	Viti di fissaggio Fixing screws	Tipo / Clevis Type ISO6849- 5	massa rimorchiabile trailer mass t	carico verticale static load daN	Omologazione Homologation	Peso Weight kg
MH43M	MH43 0 L4	140 X 80	M16	Y	14	2000	e3*2015/208*2015/208NS*10001	15,5
MHD2-L4	MHD2 0 L4		M16		20		e3*2015/208*2016/1788NS*10027	
	MHD2 0 LC		M20		20			



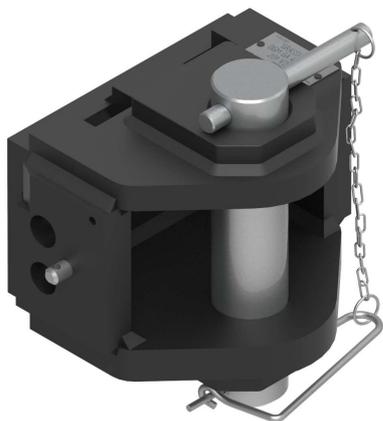
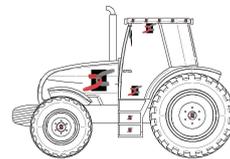
**COMPATIBILE CON
SISTEMA MATRIOSCA
SUITABLE WITH
MATRIOSCA SYSTEM**

Ricambi - Spare parts



POS.	Tutti i tipi All types	Codice - Article number
1	RA 00 023	
2	RA 00 033	

MH50M

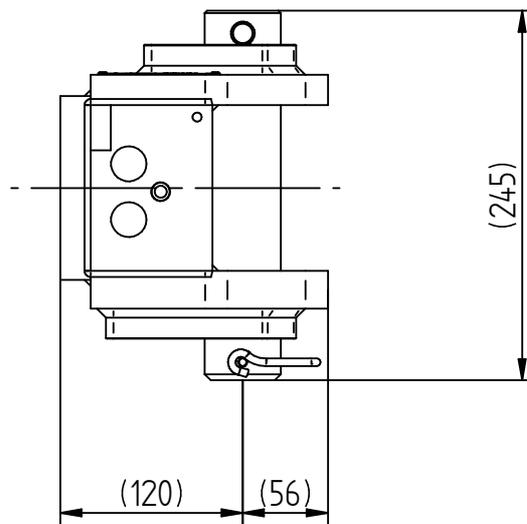
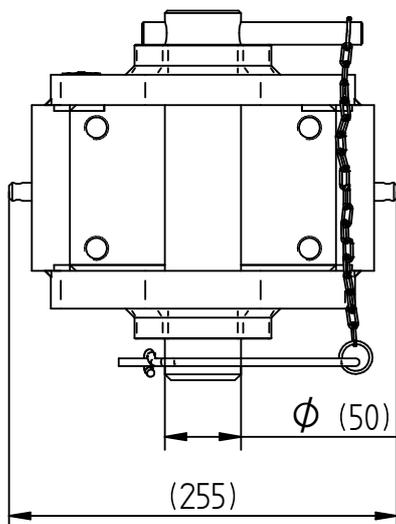


**Gancio manuale
perno cilindrico Ø50**
**Manual coupling
cylindrical pin Ø50**

STANDARD DIMENSIONALI dimensional standards	CUNA 338.02 cat. D3 ; ISO 6489-5 shape z; 2015/208
NON GIREVOLE non-swivel	 0°
per OCCHIONI for draw-bar eyes	CUNA 438.06 cat. F3 ; ISO 5692-3 shape Z

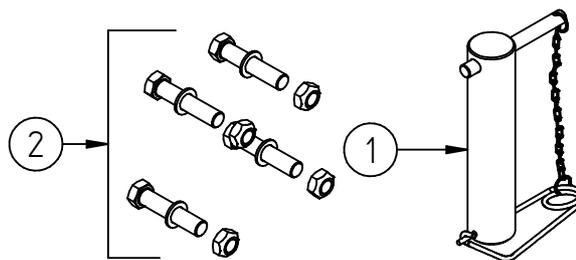
Dati tecnici - Technical data

Modello Model	Codice Article number	Flangia Hole pattern mm	Viti di fissaggio Fixing screws	massa rimorchiabile trailer mass t	carico verticale static load daN	Omologazione Homologation	Peso Weight kg
MH50M	MH50 0 M4	140 X 80	M16	20	2500	e3*2015/208*2015/208NS*10002	19,5

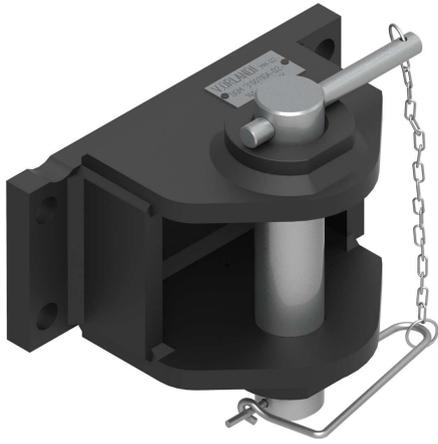


**COMPATIBILE CON
SISTEMA MARIOSCA
SUITABLE WITH
MARIOSCA SYSTEM**

Ricambi - Spare parts

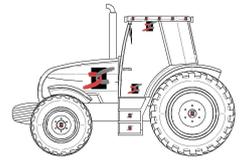


POS.	Tutti i tipi All types	Codice - Article number
1	RA 00 024	
2	RA 00 033	



MH43

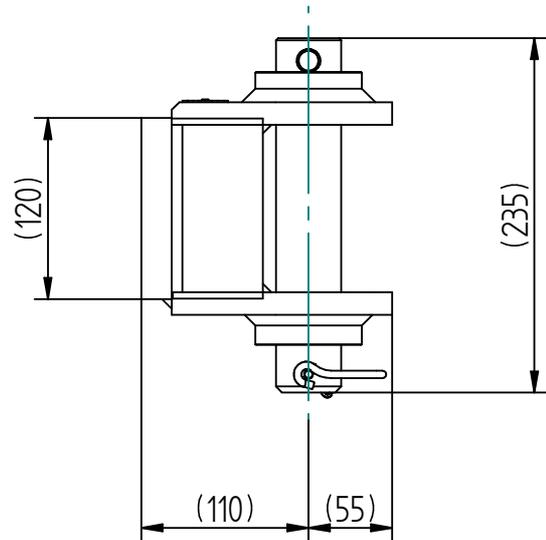
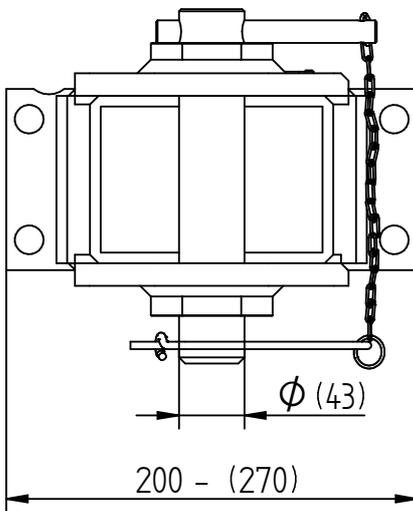
**Gancio manuale
perno cilindrico Ø43**
**Manual coupling
cylindrical pin Ø43**



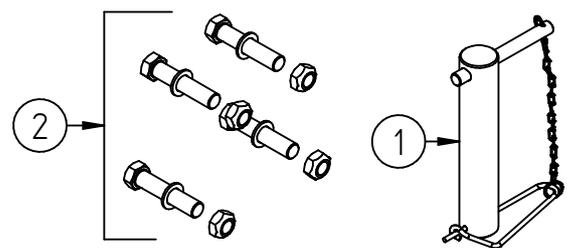
STANDARD DIMENSIONALI dimensional standards	CUNA 338.02 cat. D2 ; ISO 6489-5 shape y ; 2015/208
NON GIREVOLE non-swivel	
per OCCHIONI for draw-bar eyes	CUNA 438.06 cat. F2 ; ISO 5692-3 shape Y

Dati tecnici - Technical data

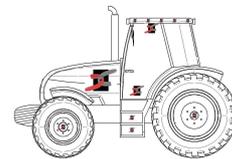
Modello Model	Codice Article number	Flangia Hole pattern mm	Viti di fissaggio Fixing screws	massa rimorchiabile trailer mass t	carico verticale static load daN	Omologazione Homologation	Peso Weight kg
MH43	MH43 011	130 X 60	M18	14	2000	e3*2015/208*2016/1788NS*30072	13
	MH43 012	240 X 80	M18	20	3000	e3*2015/208*2015/208NS*10012	15,5



Ricambi - Spare parts

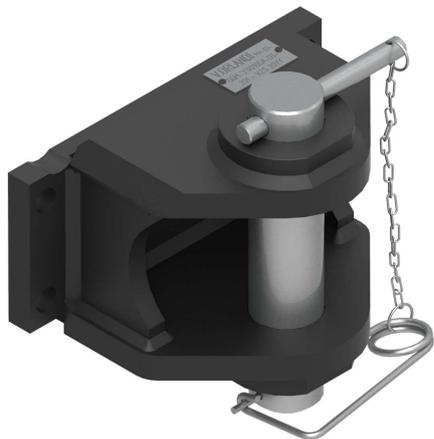


POS.	Tutti i tipi All types	Codice - Article number	
		MH43 011	MH43 012
1	RA 00 384		
2	RA 00 040		



MH50

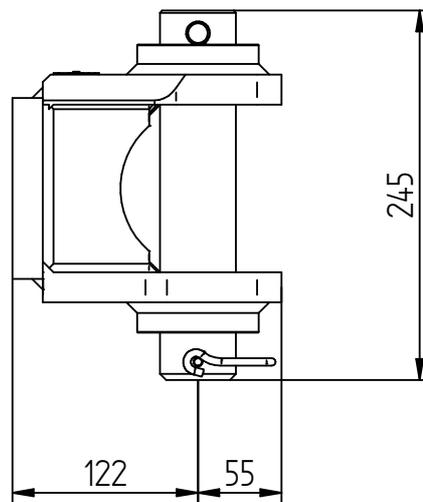
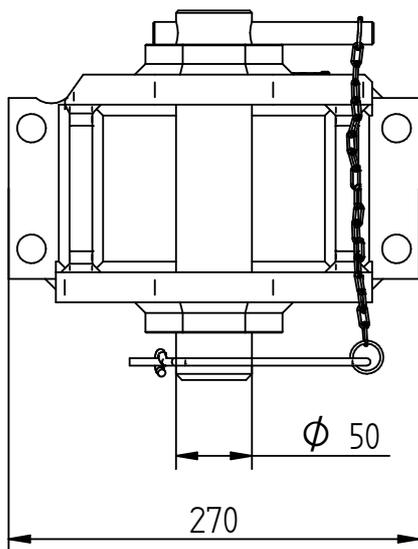
**Gancio manuale
perno cilindrico Ø50**
**Manual coupling
cylindrical pin Ø50**



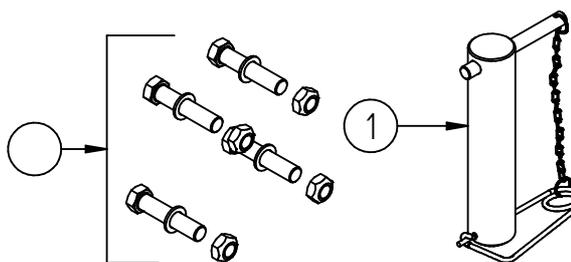
STANDARD DIMENSIONALI dimensional standards	CUNA 338.02 cat. D3 ; ISO 6489-5 shape z; 2015/208
NON GIREVOLE non-swivel	
per OCCHIONI for draw-bar eyes	CUNA 438.06 cat. F3 ; ISO 5692-3 shape Z

Dati tecnici - Technical data

Modello Model	Codice Artide number	Flangia Hole pattern mm	Viti di fissaggio Fixing screws	massa rimorchiabile trailer mass t	carico verticale static load daN	Omologazione Homologation	Peso Weight kg
MH50	MH50 0 K2	240 X 80	M18	30	3000	e3*2015/208*2015/208NS*10014	19,5

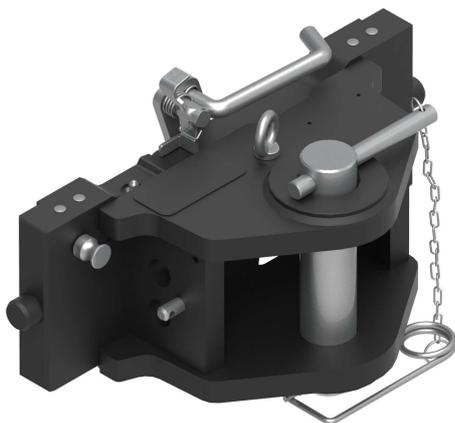
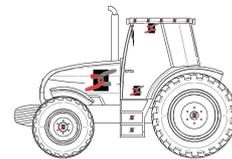


Ricambi - Spare parts



POS.	Tutti i tipi All types	Codice - Artide number
1	RA 00 024	MH 00 0K2
2	RA 00 040	

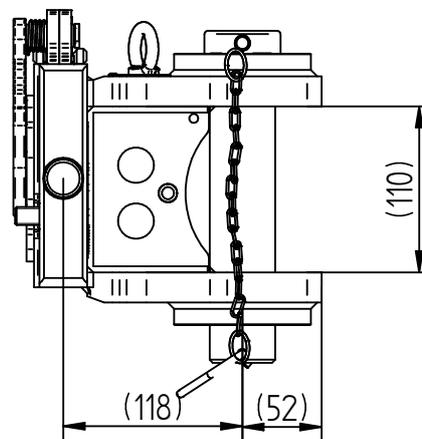
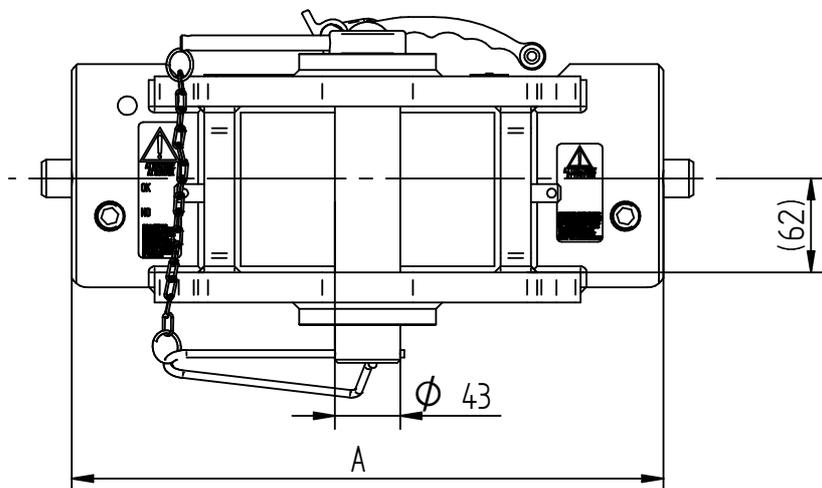
MH43-6



**Gancio manuale
perno cilindrico Ø43**
**Manual coupling
cylindrical pin Ø43**

STANDARD DIMENSIONALI dimensional standards	CUNA 338.02 ; ISO 6489-5 shape y ; 2015/208
NON GIREVOLE non-swivel	0°
per OCCHIONI for draw-bar eyes	CUNA 438.06 cat. F3 ; ISO 5692-3 shape Y

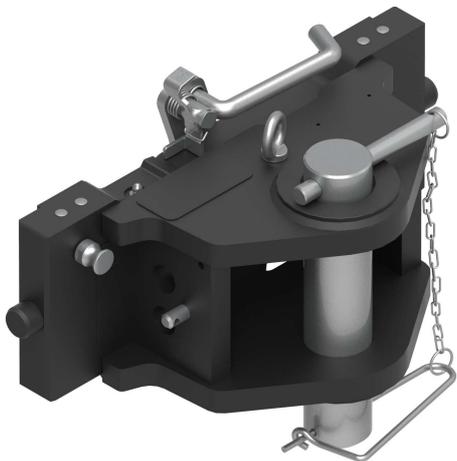
Dati tecnici - Technical data						
Modello Model	Codice Article number	Dimensione "A" "A" dimension mm	Valore Maximum Horizontal Load D- value	carico verticale static load daN	Omologazione Homologation	Peso Weight kg
MH43-6	MH43 E L6	389	101,2	3000	e11*2015/208*2016/1788ND*00321	29
	MH43 D L6	335	101,2	3000	e11*2015/208*2016/1788ND*00321	28,2
	MH43 B L6	329	101,2	3000	e11*2015/208*2016/1788ND*00321	27,6
	MH43 G L6	311	101,2	3000	e11*2015/208*2016/1788ND*00321	26,2



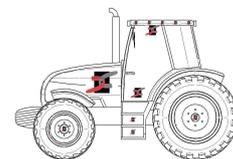
**COMPATIBILE CON
SISTEMA MARIOSCA**
**SUITABLE WITH
MARIOSCA SYSTEM**

Ricambi - Spare parts

POS.	Tutti i tipi All types
1	RA 00 384
2	RA 00 360
3	RA 00 217



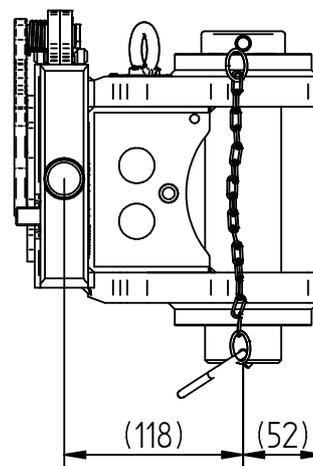
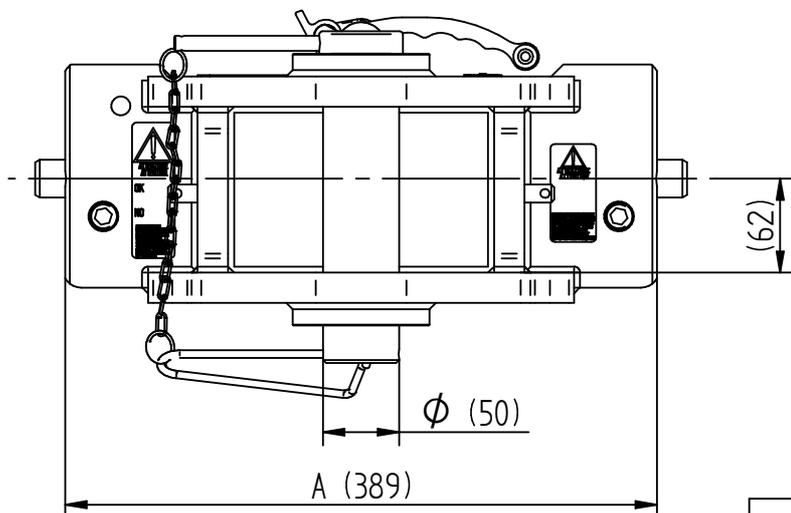
MH50-6



**Gancio manuale
perno cilindrico $\varnothing 50$
Manual coupling
cylindrical pin $\varnothing 50$**

STANDARD DIMENSIONALI dimensional standards	CUNA 338.02 ; ISO 6489-5 shape z; 2015/208
NON GIREVOLE non-swivel	0°
per OCCHIONI for draw-bar eyes	CUNA 438.06 cat. F3 ; ISO 5692-3 shape Z

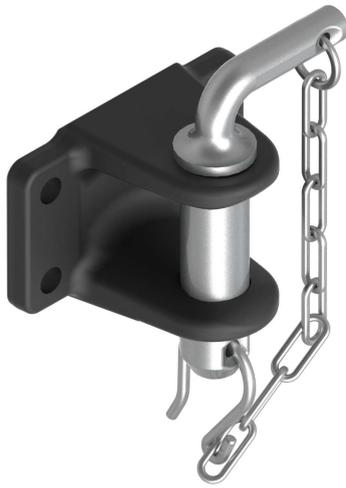
Dati tecnici - Technical data						
Modello Model	Codice Article number	Dimensione "A" "A" dimension mm	Valore Maximum Horizontal Load D- value	carico verticale static load daN	Omologazione Homologation	Peso Weight kg
MH50-6	MH50 E M6	389	101,2	3000	e11*2015/208*2016/1788ND*00322	30,5
	MH50 D M6	335	101,2	3000	e11*2015/208*2016/1788ND*00322	29,2
	MH50 B M6	329	101,2	3000	e11*2015/208*2016/1788ND*00322	28,5
	MH50 G M6	311	101,2	3000	e11*2015/208*2016/1788ND*00322	27,3



**COMPATIBILE CON
SISTEMA MARIOSCA
SUITABLE WITH
MARIOSCA SYSTEM**

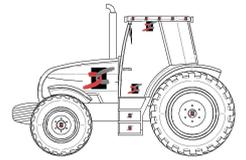
Ricambi - Spare parts

POS.	Tutti i tipi All types
1	RA 00 385
2	RA 00 360
3	RA 00 217



GM10

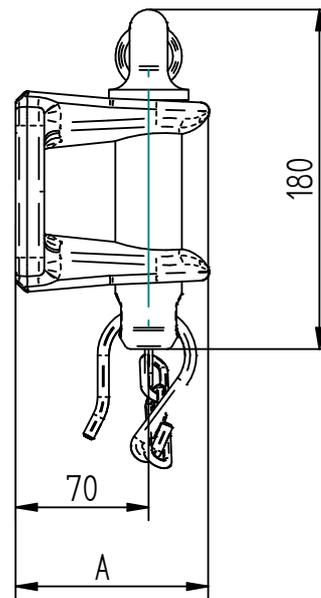
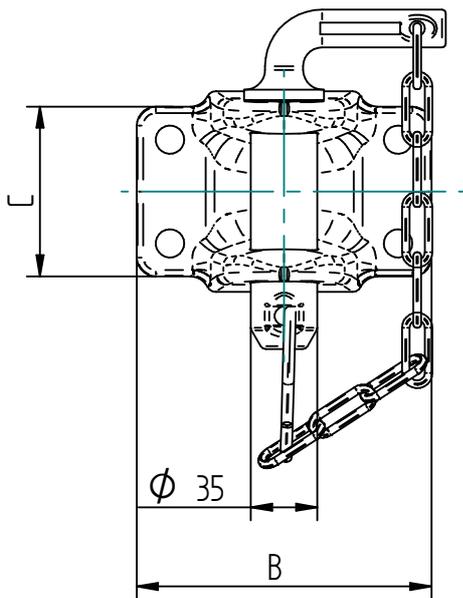
**Gancio di manovra
perno cilindrico
Manual coupling
cylindrical pin**



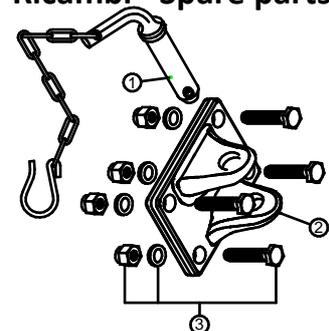
STANDARD DIMENSIONALI dimensional standards	2015/208 ANNEX XXIX
NON GIREVOLE non-swivel	
per OCCHIONI for draw-bar eyes	94/20/CE ; DIN 74054; ECE R55-01

Dati tecnici - Technical data

Modello - Model	Codice Article number	Flangia Hole pattern mm	Viti di fissaggio Fixing screws	Dimensione "A" "A" dimension mm	Dimensione "B" "B" dimension mm	Dimensione "C" "C" dimension mm	massa rimorchiabile trailer mass t	peso motrice total weight of towing vehicle t	Peso Weight kg
GM10	GM 103 00	120X55	M14	102	155	90	25	50	4,2
	GM 104 00	140X80	M16	110	180	120	35	70	6
	GM 105 00	160X100	M20	110	200	140	50	120	7



Ricambi - Spare parts

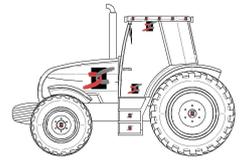


POS.	Codice - Article number		
	GM 103 00	GM 104 00	GM 105 00
1	RG 00 219	RG 00 219	RG 00 219
2	RG 00 130	RG 00 131	RG 00 132



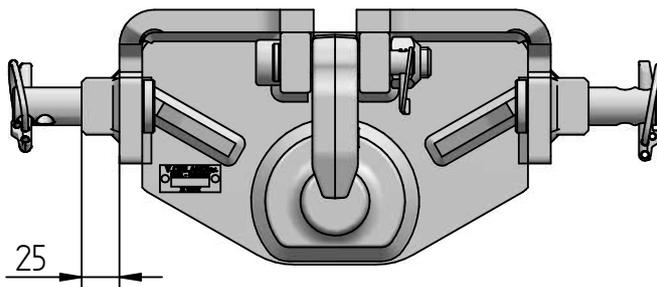
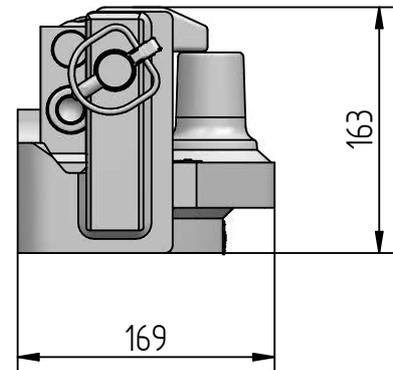
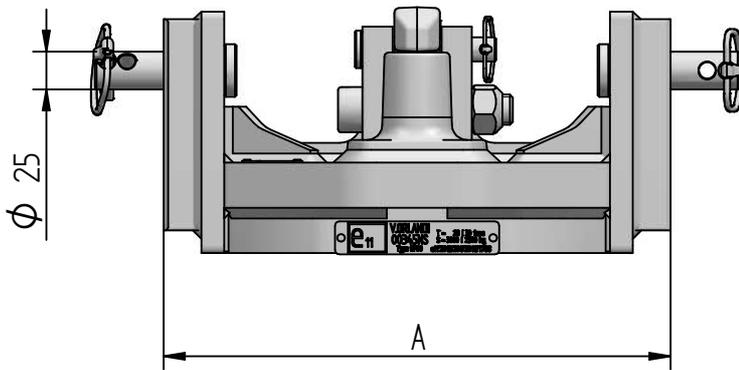
SPO0

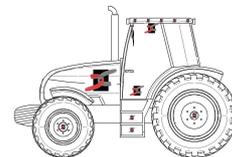
Supporto scorrevole con piton fixe
Lift piton fixe support



STANDARD DIMENSIONALI dimensional standards	ISO 6489-4 ; 2013/8/CEE; 2015/208
NON GIREVOLE non-swivel	 0°
per OCCHIONI for draw-bar eyes	Ø50 ISO 5692-1 ; ISO20019

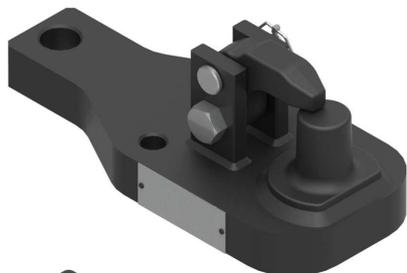
Dati tecnici - Technical data						
Modello - Model	Codice Article number	Dimensione "A" "A" dimension mm	Carico Verticale Static Load daN	Peso rimorchiabile Total trailer weight t	Omologazione Homologation	Peso Weight kg
SPO0	SP 00 101	333,5	3000	20	e11*2015/208*2016/1788NS*00345	20
			2500	30		
	SP 00 201	320	3000	20	e11*2015/208*2016/1788NS*00345	20
			2500	30		
	SP 00 301	310	3000	20	e11*2015/208*2016/1788NS*00345	20
			2500	30		





SP45

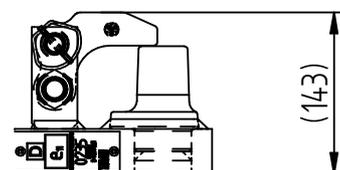
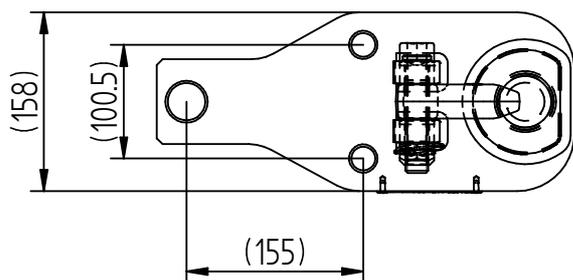
Supporto con piton fixe
Piton fixe support



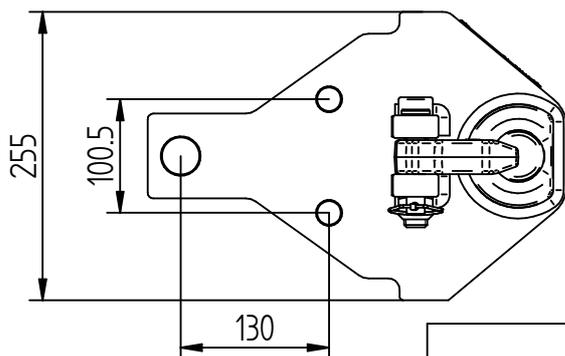
STANDARD DIMENSIONALI dimensional standards	ISO 6489-4 ; 2013/8/CEE; 2015/208
NON GIREVOLE non-swivel	0°
per OCCHIONI for draw-bar eyes	Ø50 ISO 5692-1 ; ISO20019

Dati tecnici - Technical data						
Modello - Model	Codice Article number	Flangia Hole pattern mm	Valore D D-Value kN	Massa S S-Load kg	Omologazione Homologation	Peso Weight kg
SP45	SP 00 PSC	-	40	1200	e11*2015/208*2015/208*0235	17,5
	SP 03 PSC	-	70	2500	e11*2015/208*2015/208*0235	22

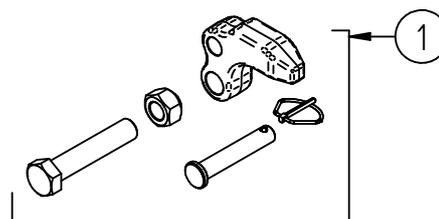
SP 00 PSC



SP 03 PSC

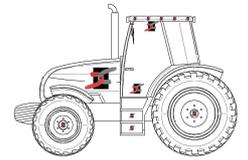


Ricambi - Spare parts



POS.	Tutti i tipi All types
1	RA 00 065

GP45

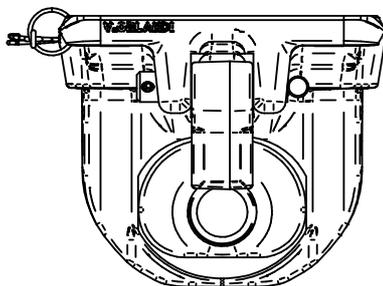
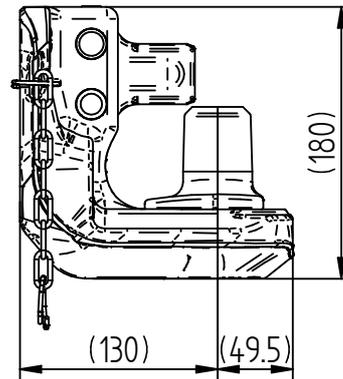
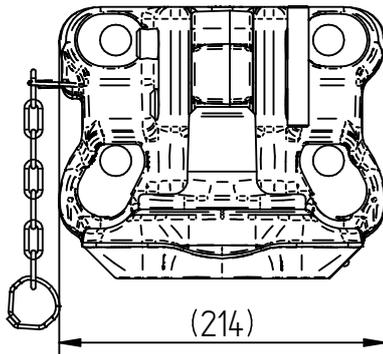


Gancio flangiabile con piton fixe
Flanged trailer coupling clevis type with piton fixe

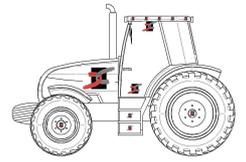
STANDARD DIMENSIONALI dimensional standards	ISO 6489-4 ; 2013/8/CEE;2015/208
NON GIREVOLE non-swivel	
per OCCHIONI for draw-bar eyes	Ø50 ISO 5692-1 ;ISO20019

Dati tecnici - Technical data

Modello - Model	Codice Article number	Flangia Hole pattern mm	Viti di fissaggio Fixing screws	Valore D D-Value kN	Massa S S-Load kg	Omologazione Homologation	Peso Weight kg
GP45	GP 45 004	140X80	M16	89,3	2000	e1*2015/208*2016/1788ND*00333	15
	GP 45 00C	140X80	M20	89,3	3000	e1*2015/208*2016/1788ND*00333	15



GS80



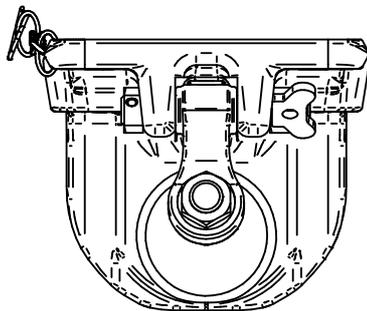
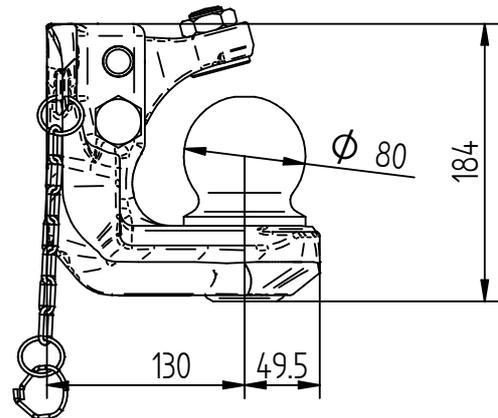
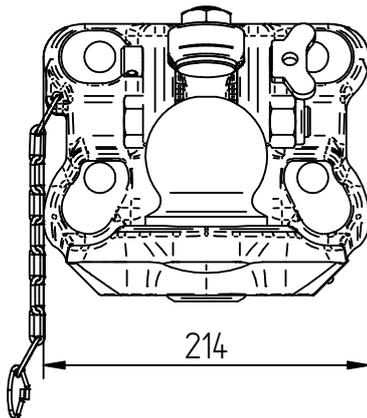
Gancio a sfera flangiabile
Flanged Sphere trailer coupling
clevis type



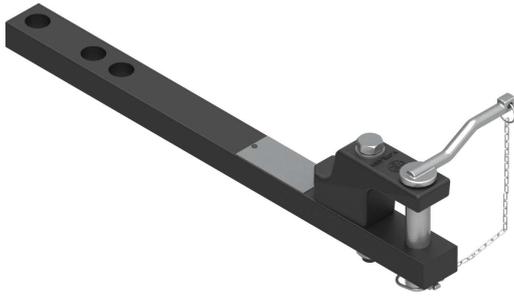
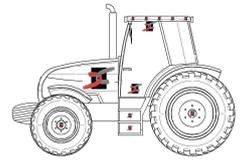
STANDARD DIMENSIONALI dimensional standards	ISO 6489-4 ; 2013/8/CEE;2015/208
NON GIREVOLE non-swivel	
per OCCHIONI for draw-bar eyes	Ø80 ISO 24347

Dati tecnici - Technical data

Modello - Model	Codice Article number	Flangia Hole pattern mm	Viti di fissaggio Fixing screws	Valore D D-Value kN	Massa S S-Load kg	Omologazione Homologation	Peso Weight kg
GS80	GS 81 004	140X80	M16	89,3	2000	e1*2015/208*2015/208ND*00190	18
	GS 80 004	140X80	M20	89,3	3000	e1*2015/208*2015/208ND*00190	18



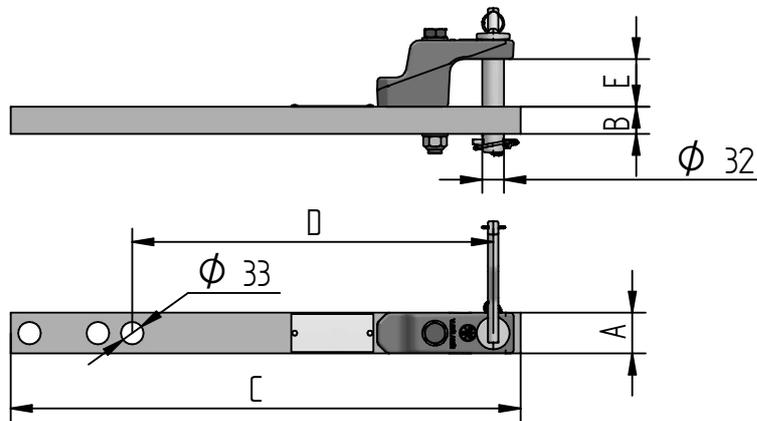
BT



Barra di traino CEE
perno cilindrico Ø 32 mm
CEE drawbar
cylindrical pin Ø 32 mm

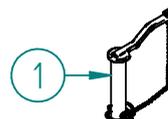
STANDARD DIMENSIONALI dimensional standards	ISO 6489-2 ; 2009/144/CEE; 2015/208
GIREVOLE swivel	0°
per OCCHIONI for draw-bar eyes	Ø 40/50 ISO 5692-2 ; ISO 8755 ; DIN 11026 ; DIN 11043 ; DIN 74054

Dati tecnici - Technical data				
Modello - Model	Codice Article number	massa rimorchiabile trailer mass t	carico verticale static load daN	Omologazione Homologation
BT	KB 27 SDE	11	600	e11*2015/208*2016/1788NS*00392
		12	800	
		13	900	
	BT 03 SDE	32	2000	e11*2015/208*2016/1788NS*00391
	BT 04 SDE			
BT 05 SDE				



DATI DIMENSIONALI - DIMENSIONAL DATA						
tipo - type	codice - code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
BT	KB 27 SDE	60	40	745	525	70
	BT 03 SDE	80		1444,5	504	65
	BT 04 SDE			546	470	
	BT 05 SDE			735,5	659,5	

Ricambi - Spare parts

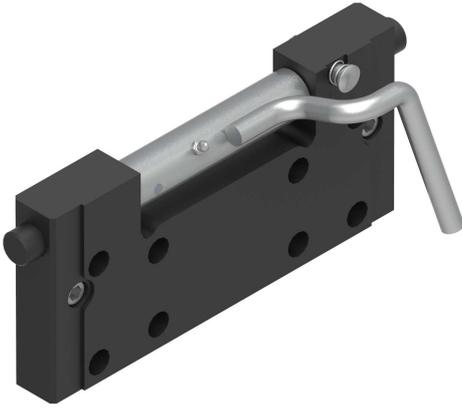
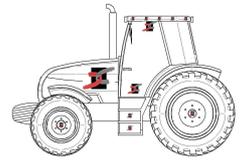


POS.	Tutti i tipi All types
1	RA 00 214

33

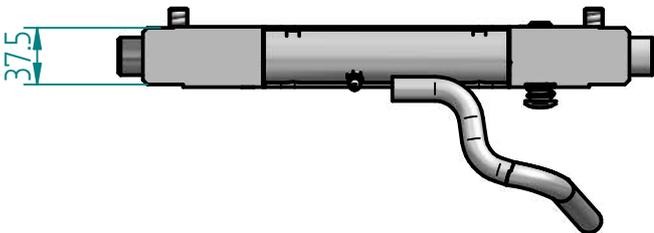
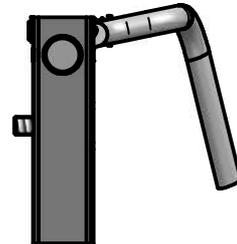
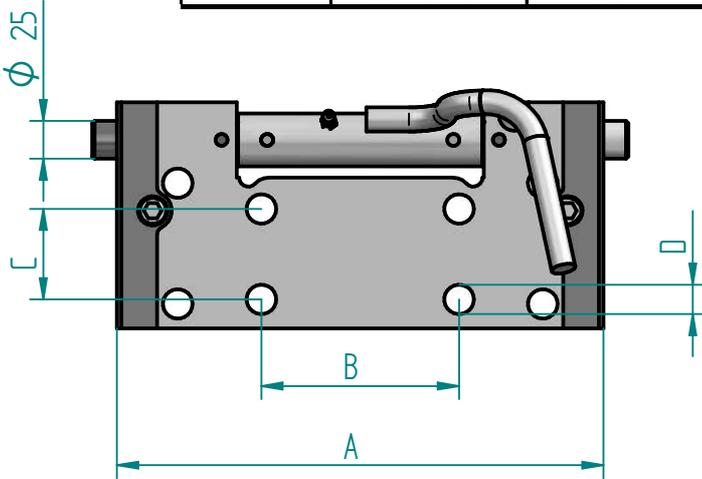
LB 40

slitta scorrevole flangiata
Flanged lift bearing

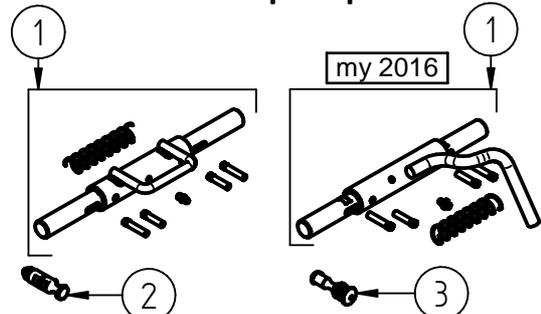


STANDARD DIMENSIONALI dimensional standards	
GIREVOLE swivel	

Dati tecnici - Technical data					
Modello - Model	Codice Article number	Dimensione "A" "A" dimension mm	Flangia Hole pattern mm	Viti di fissaggio Fixing screws	Peso Weight kg
LB 40	LB 40 100	333,5	130 X 60	M18	13,5
	LB 40 200	320		M18	13,2
	LB 40 300	310	240 X 80	M18	12,8
	LB 40 500	260		M18	10,3



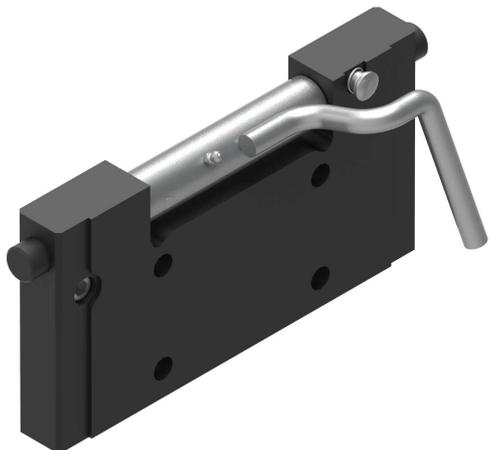
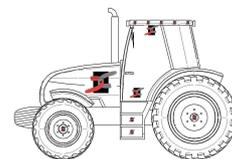
Ricambi - Spare parts



POS.	Tutti i tipi All types	Codice - Article number			
		LB 40 100	LB 40 200	LB 40 300	LB 40 500
1		RA 00 041	RA 00 042	RA 00 043	RA 00 045
2	RA 00 002 fino a dicembre 2016				
3	RA 00 270 my2016				

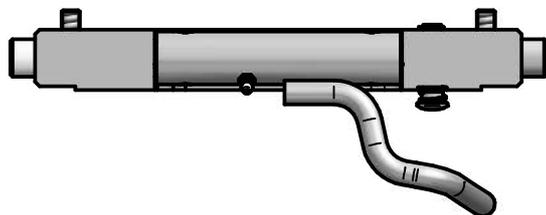
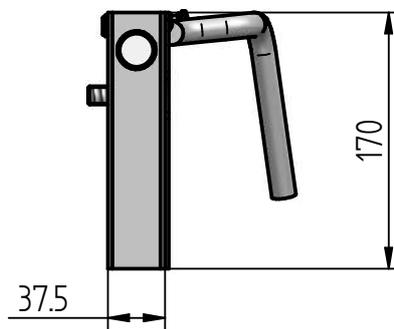
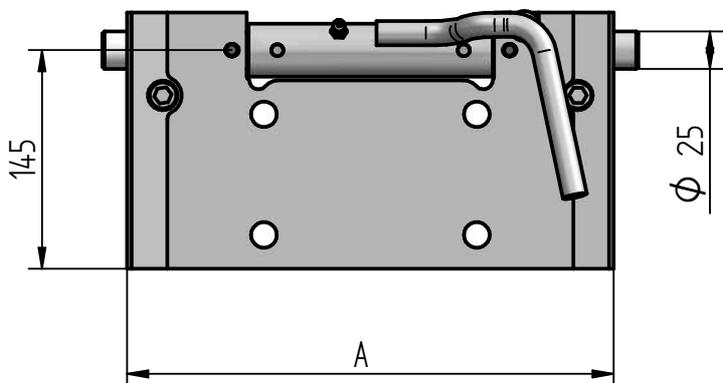
LB 41

slitta scorrevole flangiata
Flanged lift bearing

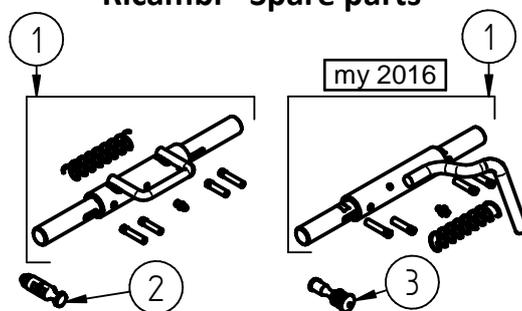


STANDARD DIMENSIONALI dimensional standards	
GIREVOLE swivel	

Dati tecnici - Technical data					
Modello - Modell	Codice Article number	Dimensione "A" "A" dimension mm	Flangia Hole pattern mm	Viti di fissaggio Fixing screws	Peso Weight kg
LB 41	LB 41 100	333,5	140 X 80	M16	15
	LB 41 200	320	140 X 80	M16	14,3
	LB 41 300	310	140 X 80	M16	13,8
	LB 41 500	260	140 X 80	M16	11



Ricambi - Spare parts



POS.	Tutti i tipi All types	Codice - Article number		
		LB 41 100	LB 41 200	LB 41 300
1		RA 00 041	RA 00 042	RA 00 043
2	RA 00 002 fino a dicembre 2016			
3	RA 00 270 my2016			

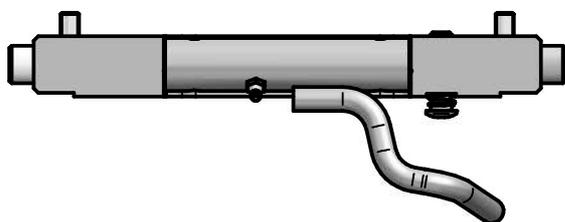
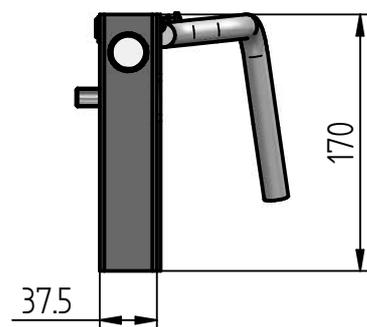
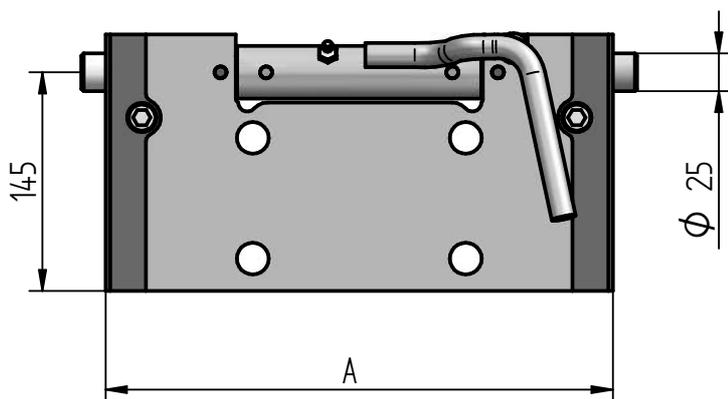
LB 42

slitta scorrevole flangiata
Flanged lift bearing

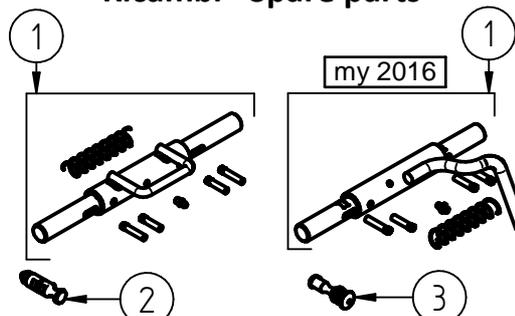


STANDARD DIMENSIONALI dimensional standards	
GIREVOLE swivel	

Dati tecnici - Technical data					
Modello - Modell	Codice Article number	Dimensione "A" "A" dimension mm	Flangia Hole pattern mm	Viti di fissaggio Fixing screws	Peso Weight kg
LB 42	LB 42 100	333,5	140 X 80	M20	15,1
	LB 42 200	320	140 X 80	M20	14,4
	LB 42 300	310	140 X 80	M20	13,9



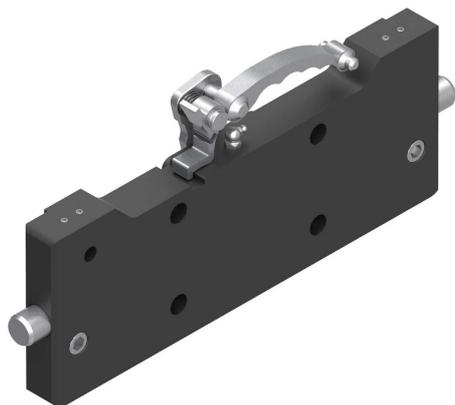
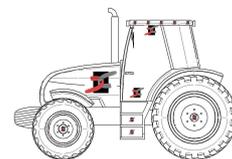
Ricambi - Spare parts



POS.	Tutti i tipi All types	Codice - Article number		
		LB 42 100	LB 42 200	LB 42 300
1		RA 00 041	RA 00 042	RA 00 043
2	RA 00 002 fino a dicembre 2016			
3	RA 00 270 my2016			

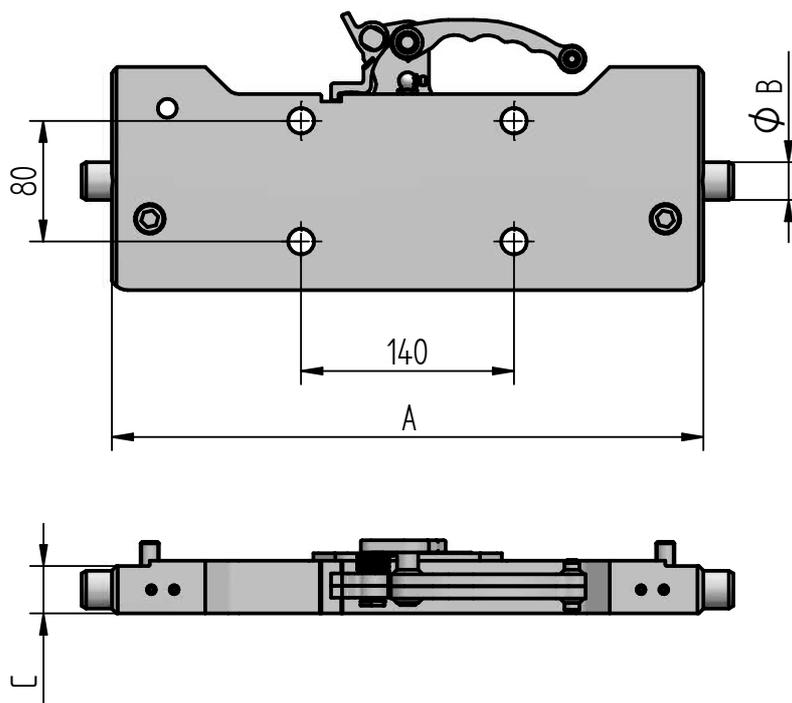
LB 51

slitta scorrevole flangiata
Flanged lift bearing



STANDARD DIMENSIONALI dimensional standards	
GIREVOLE swivel	

Dati tecnici - Technical data							
Modello - Modell	Codice Article number	Dimensione "A" "A" dimension mm	Dimensione "B" "B" dimension mm	Dimensione "C" "C" dimension mm	Flangia Hole pattern mm	Viti di fissaggio Fixing screws	Peso Weight kg
LB 51	LB 32 F04	241	Ø22	30,15	140 X 80	M16	11
	LB 51 G04	311	Ø22	30,25	140 X 80	M16	12
	LB 51 G0C	311	Ø22	30,25	140 X 80	M20	12
	LB 51 B04	329	Ø25	31,45	140 X 80	M16	13
	LB 51 B0C	329	Ø25	31,45	140 X 80	M20	13
	LB 51 D04	335	Ø22	29,5	140 X 80	M16	14
	LB 51 D0C	335	Ø22	29,5	140 X 80	M20	14
	LB 51 E04	389	Ø25	31,45	140 X 80	M16	15
	LB 51 E0C	389	Ø25	31,45	140 X 80	M20	15

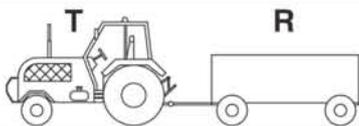


Valore D: è definito come il carico teorico di riferimento per la determinazione della forza teorica orizzontale dinamica che il veicolo trainante ed il rimorchio si scambiano;

Valore Dc: è definito come il carico teorico di riferimento per la determinazione della forza teorica orizzontale dinamica che il veicolo trainante ed il rimorchio ad asse rigido centrale si scambiano;

Valore S: è il carico verticale statico che il rimorchio ad asse centrale trasmette al gancio in condizioni statiche;

1.1 - Rimorchi ad asse sterzante



In questo caso i parametri tecnici caratteristici sono i seguenti:

$$D = g \times \frac{T \times R}{T + R}$$

Dove:

g = Accelerazione di gravità che si assume pari a 9.81 m/s²

T = Rappresenta la massa massima tecnicamente ammissibile, espressa in ton del veicolo trainante comprendente il carico verticale statico che viene trasmesso al gancio dall'occhione;

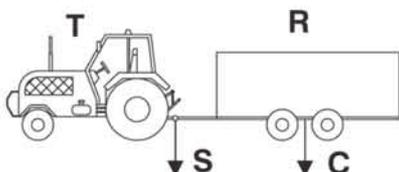
R = rappresenta la massa massima tecnicamente ammissibile del rimorchio espressa in ton.

Esempio di calcolo

a) T = 10 ton; R = 30 ton $D = \frac{9.81 \times (10 \times 30)}{10 + 30} = 73,6 \text{ kN}$

1.2 - Rimorchi ad asse rigido centrale

Fig. 2



In questo caso i parametri tecnici caratteristici sono i seguenti:

$$Dc = g \times \frac{T \times C}{T + C}$$

dove:

T = rappresenta la massa massima tecnicamente ammissibile, espressa in ton del veicolo trainante comprendente il carico verticale statico che viene trasmesso al gancio dall'occhione;

C = rappresenta la somma, espressa in ton, dei carichi assiali massimi che il rimorchio trasmette al terreno.

$$S = R - C$$

R = rappresenta la massa massima tecnicamente ammissibile del rimorchio espressa in ton.

Esempio di calcolo

Veicolo trainante isolato con massa = 10 ton

Rimorchio ad asse rigido centrale con:

R = 20 ton **C** = 18 ton **S** = 2 ton

Per il calcolo del valore Dc si dovrà considerare la massa della motrice pari a:

$$T = 10 + S = 10 + 2 = 12 \text{ ton}$$

e quindi

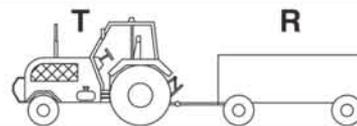
$$Dc = \frac{9.81 \times (12 \times 18)}{12 + 18} = 70,7 \text{ kN}$$

Parametri tecnici dei sistemi di traino Technical parameters of towing systems

D-value: Theoretical load for the determination of the theoretical horizontal dynamic force between towing vehicle and steering axle trailer;

Dc-value: Theoretical load for the determination of the theoretical horizontal dynamic force between towing vehicle and central axle trailer;

S-value: Static vertical load transmitted to the coupling by central axle trailer in static conditions;



In this case the technical parameter is following:

$$D = g \times \frac{T \times R}{T + R}$$

where:

g = Gravitational acceleration; 9.81 m/s²;

T = Technically admissible maximum load of the towing vehicle in tons, including the static vertical load transmitted to the coupling by the drawbar eye;

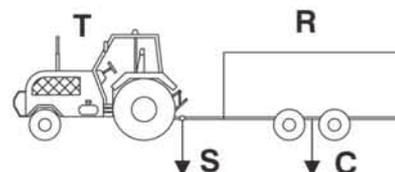
R = Technically admissible maximum weight of the trailer in tons.

Example of calculation

a) T = 10 ton; R = 30 ton $D = \frac{9.81 \times (10 \times 30)}{10 + 30} = 73,6 \text{ kN}$

1.2 - Central axle trailers

Fig. 2



In this case the technical parameter is following:

$$Dc = g \times \frac{T \times C}{T + C}$$

where:

T = Technically admissible maximum load of the towing vehicle in tons, including the static vertical load transmitted to the coupling by the drawbar eye;

C = Sum of the maximum axle loads transmitted to the ground by the trailer in tons.

$$S = R - C$$

R = Technically admissible maximum weight of the trailer in tons.

Example of calculation

Towing vehicle with 10 tons weight

Central axle trailer with:

R = 20 ton **C** = 18 ton **S** = 2 ton

For the determination of the Dc-value the weight of the towing vehicle is calculated as follows:

$$T = 10 + S = 10 + 2 = 12 \text{ ton}$$

and therefore

$$Dc = \frac{9.81 \times (12 \times 18)}{12 + 18} = 70,7 \text{ kN}$$

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