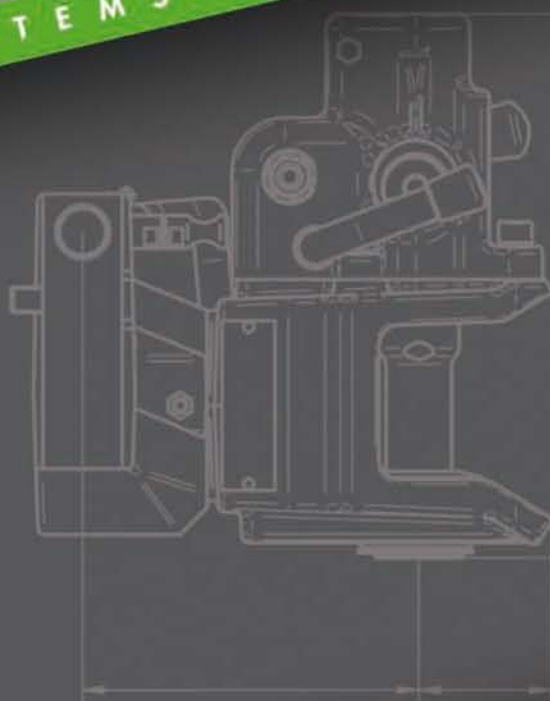




V. ORLANDI

TOWING SYSTEMS



Programma di produzione

Production programme

Sistemi di traino per macchine agricole
Towing system agriculture and forestry

since 1859

ed.05

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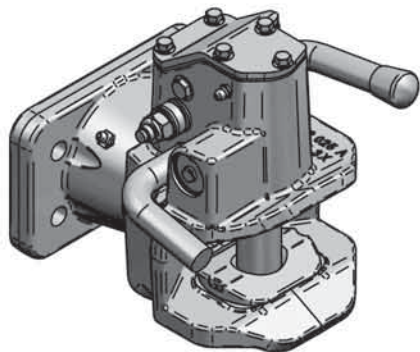
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PARAMETRI TECNICI - TECHNICAL PARAMETERS

METODOLOGIA DI CALCOLO - CALCULATION METHOD



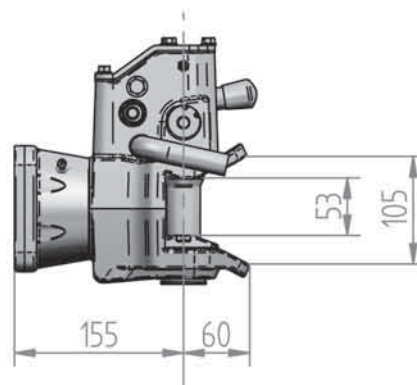
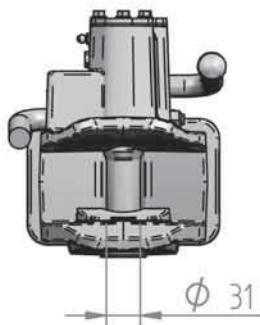
IH

Gancio automatico
perno cilindrico Ø31 / perno a botte Ø38
Automatic coupling
cylindrical pin Ø31 / barrel pin Ø38

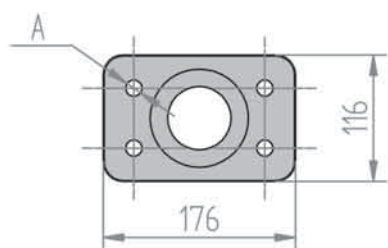
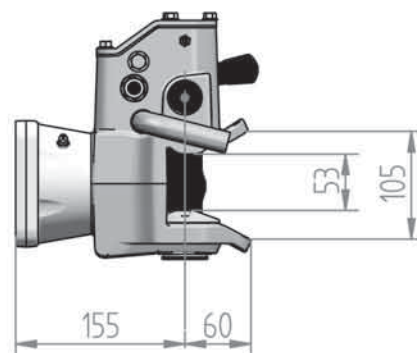
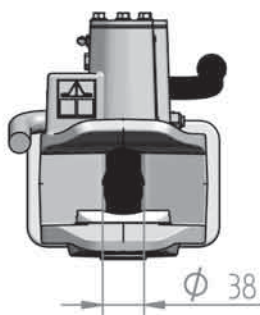
STANDARD DIMENSIONALI dimensional standards	DIN 11028 ; ISO 6489-2 ; 2009/144/CE
GIREVOLE swivel	 360°
per OCCHIONI for draw-bar eyes	Ø 40 ISO 5692-2 ; ISO 8755 ; DIN 11026 ; DIN 11043 ; DIN 74054

Dati tecnici - Technical data							
Tipo Type	Codice Article number	Flangia Hole pattern mm	Valore D D-Value kN	Massa S S-Load kg	Peso Weight kg	Dimensione "A" "A" dimension Ø mm	2009 / 144 / CE
							Omologazione Homologation
IH31	IH 31 0Y1	130 X 60	60	2000	17,5	19	e11*2191
	IH 31 0Y3	120 X 55				15	
	IH 31 0Y4	140 X 80				17	
IH38	IH 38 0X1	130 X 60				19	
	IH 38 0X3	120 X 55				15	
	IH 38 0X4	140 X 80				17	

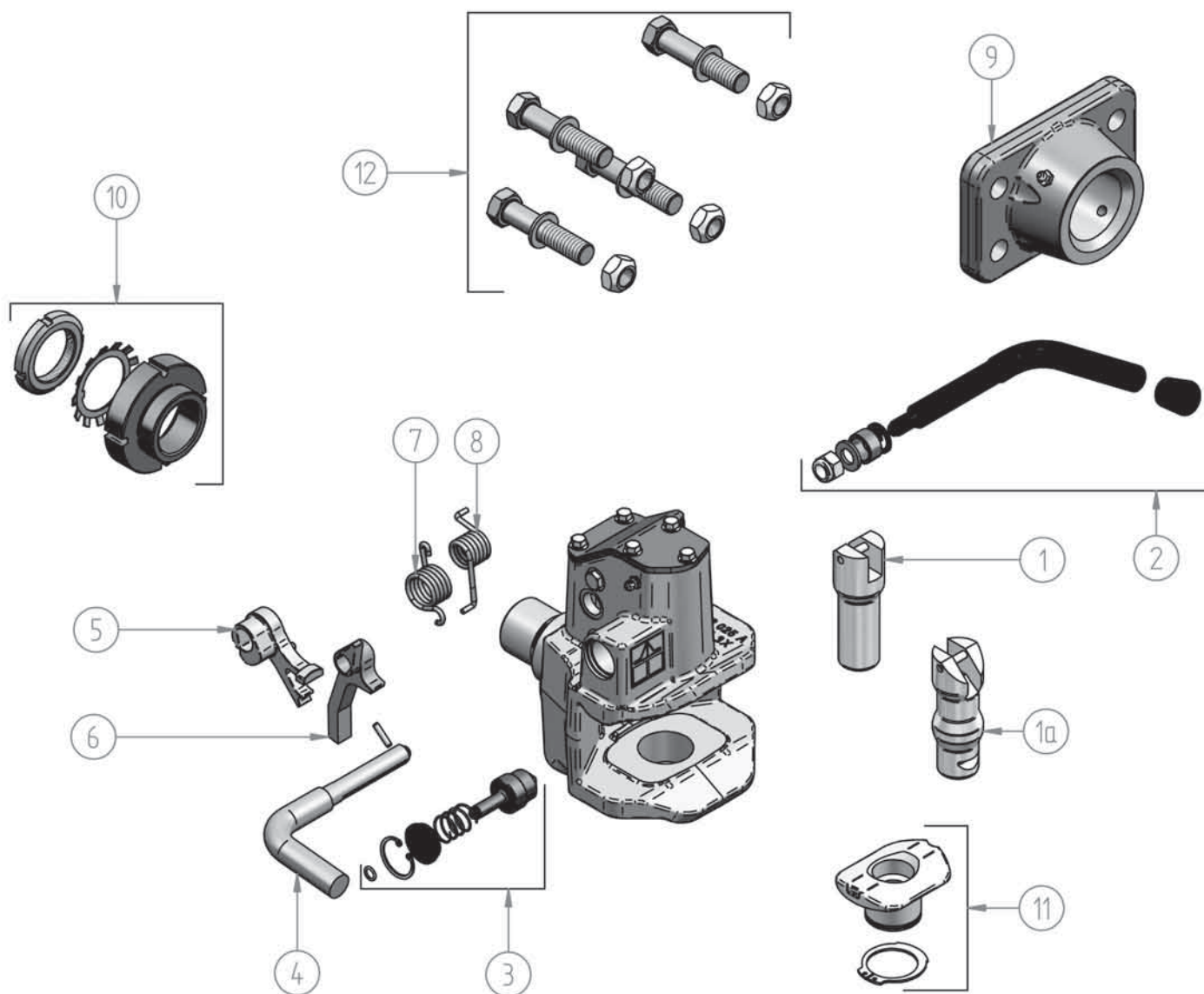
IH 31



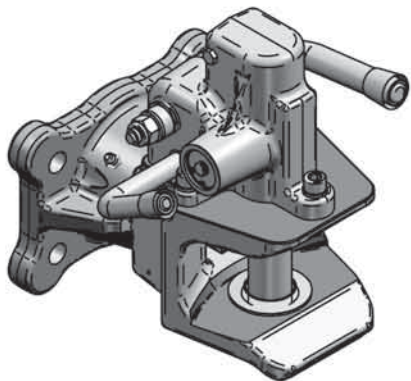
IH 38



Ricambi - Spare parts



POS.	Tutti i tipi All types	Codice - Article number					
		IH 31 0Y1	IH 31 0Y3	IH 31 0Y4	IH 38 0X1	IH 38 0X3	IH 38 0X4
1		RA 00 151	RA 00 151	RA 00 151			
1a					RA 00 150	RA 00 150	RA 00 150
2	RA 00 141						
3	RA 00 143						
4	RA 00 144						
5	RA 00 152						
6	RA 00 153						
7	RA 00 154						
8	RA 00 155						
9		RA 00 145	RA 00 199	RA 00 146	RA 00 145	RA 00 199	RA 00 146
10	RA 00 171						
11	RA 00 142						
12		RA 00 040	RA 00 133	RA 00 033	RA 00 040	RA 00 133	RA 00 033



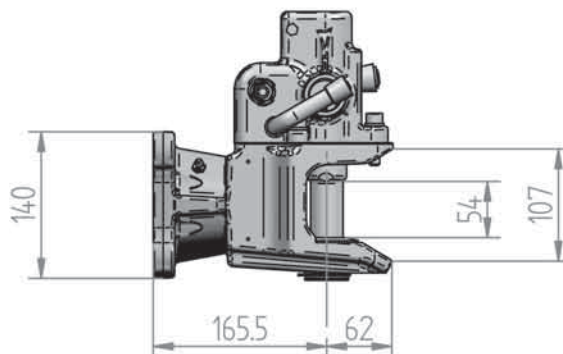
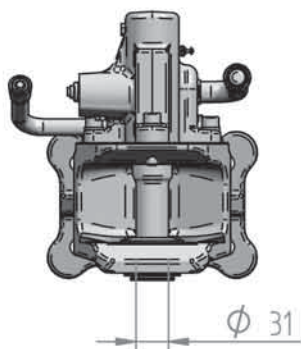
AH

Gancio automatico serie pesante
perno cilindrico Ø31 / perno a botte Ø38
Heavy duty automatic coupling
cylindrical pin Ø31 / barrel pin Ø38

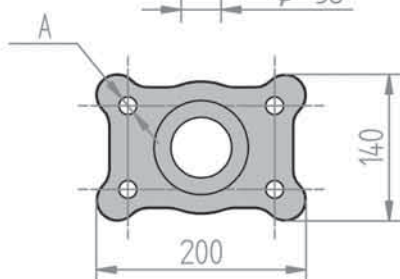
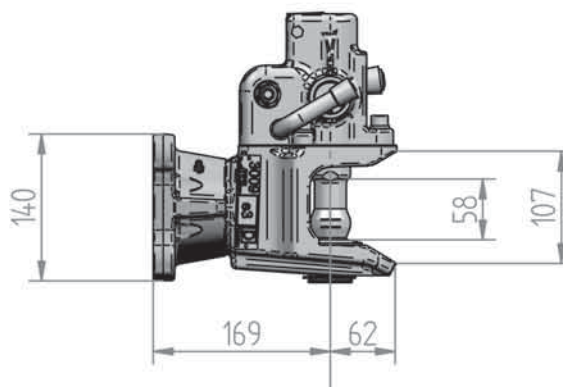
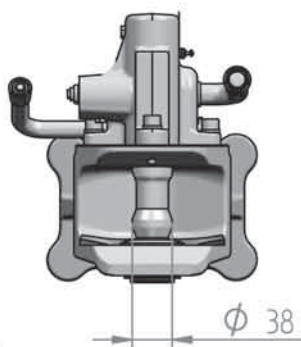
STANDARD DIMENSIONALI dimensional standards	DIN 11028 ; ISO 6489-2 ; 2009/144/CE
GIREVOLE swivel	 360°
per OCCHIONI for draw-bar eyes	Ø 40 ISO 5692-2 ; ISO 8755 ; DIN 11026 ; DIN 11043 ; DIN 74054

Dati tecnici - Technical data							
Tipo Type	Codice Article number	Flangia Hole pattern mm	Valore D D-Value kN	Massa S S-Load kg	Peso Weight kg	Dimensione "A" "A" dimension Ø mm	2009 / 144 / CE Omologazione Homologation
AH31	AH 31 HB1	130 X 60	100	2000	20	19	e3*3009
	AH 31 HB4	140 X 80				17	
	AH 31 HB5	160 X 100				21	
AH38	AH 38 HA1	130 X 60				19	
	AH 38 HA4	140 X 80				17	
	AH 38 HA5	160 X 100				21	

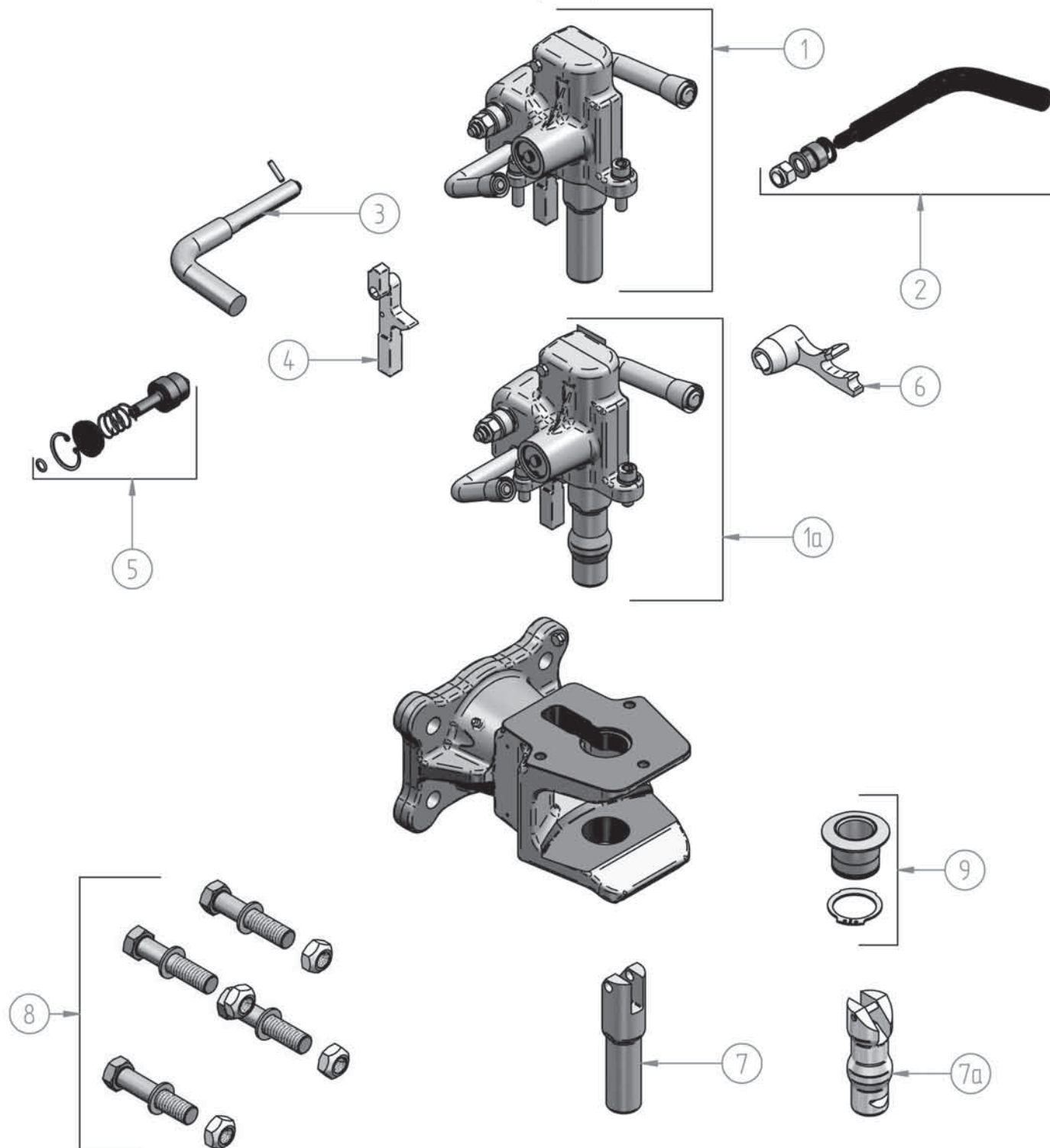
AH 31



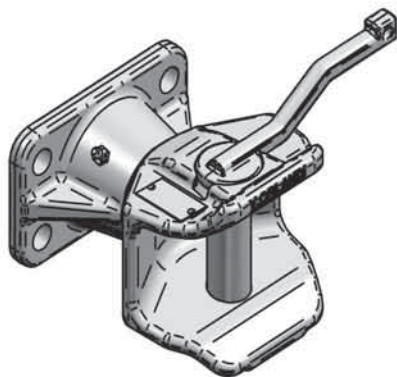
AH 38



Ricambi - Spare parts



POS.	Tutti i tipi All types	Codice - article number					
		AH 31 HB1	AH 31 HB4	AH 31 HB5	AH 38 HA1	AH 38 HA4	AH 38 HA5
1		RA 00 034	RA 00 034	RA 00 034			
1a					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 00 035	RA 00 035	RA 00 035			
7a					RA 00 029	RA 00 029	RA 00 029
8		RA 00 040	RA 00 033	RA 00 190	RA 00 040	RA 00 033	RA 00 190
9	RA 00 028						



MH

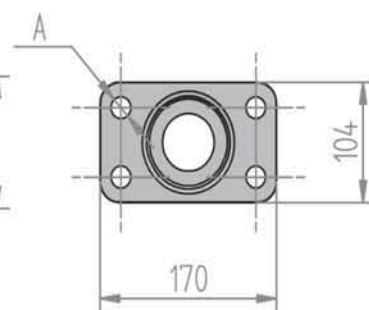
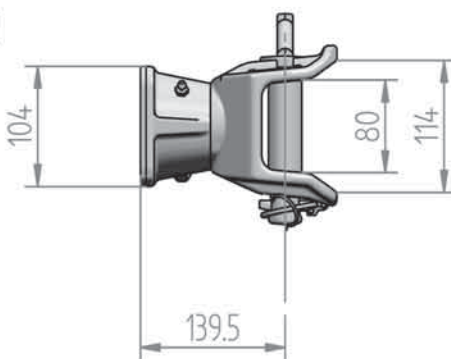
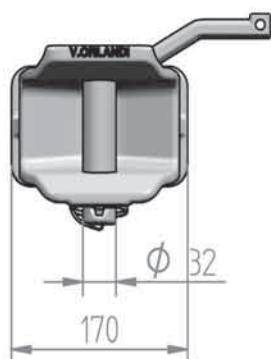
Gancio manuale - perno cilindrico Ø32

Manual coupling - cylindrical pin Ø32

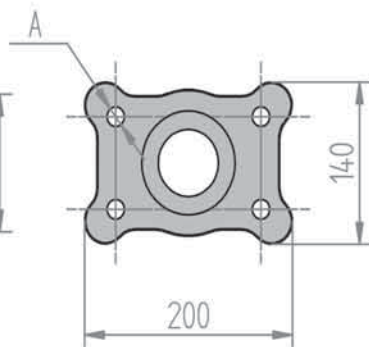
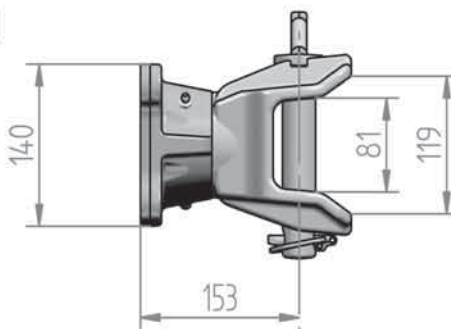
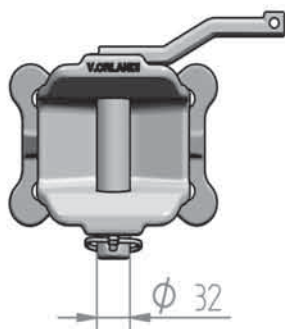
STANDARD DIMENSIONALI dimensional standards	DIN 11028 ; ISO 6489-2 ; 2009/144/CE
GIREVOLE swivel	 360°
per OCCHIONI for draw-bar eyes	Ø 40/50 ISO 5692-2 ; ISO 8755 ; DIN 11026 ; DIN 11043 ; DIN 74054

Dati tecnici - Technical data							
Tipo Type	Codice Article number	Flangia Hole pattern mm	Valore D D-Value kN	Massa S S-Load kg	Peso Weight kg	Dimensione "A" "A" dimension Ø mm	2009 / 144 / CE
							Omologazione Homologation
MH31	MH 31 0F1	130 X 60	60	2000	9,5	19	e11*2101
	MH 31 0F3	120 X 55				15	
MH31H	MH 31 HE1	130 X 60	100	2500	14,5	19	e3*3010
	MH 31 HE4	140 X 80				17	
	MH 31 HE5	160 X 100				21	

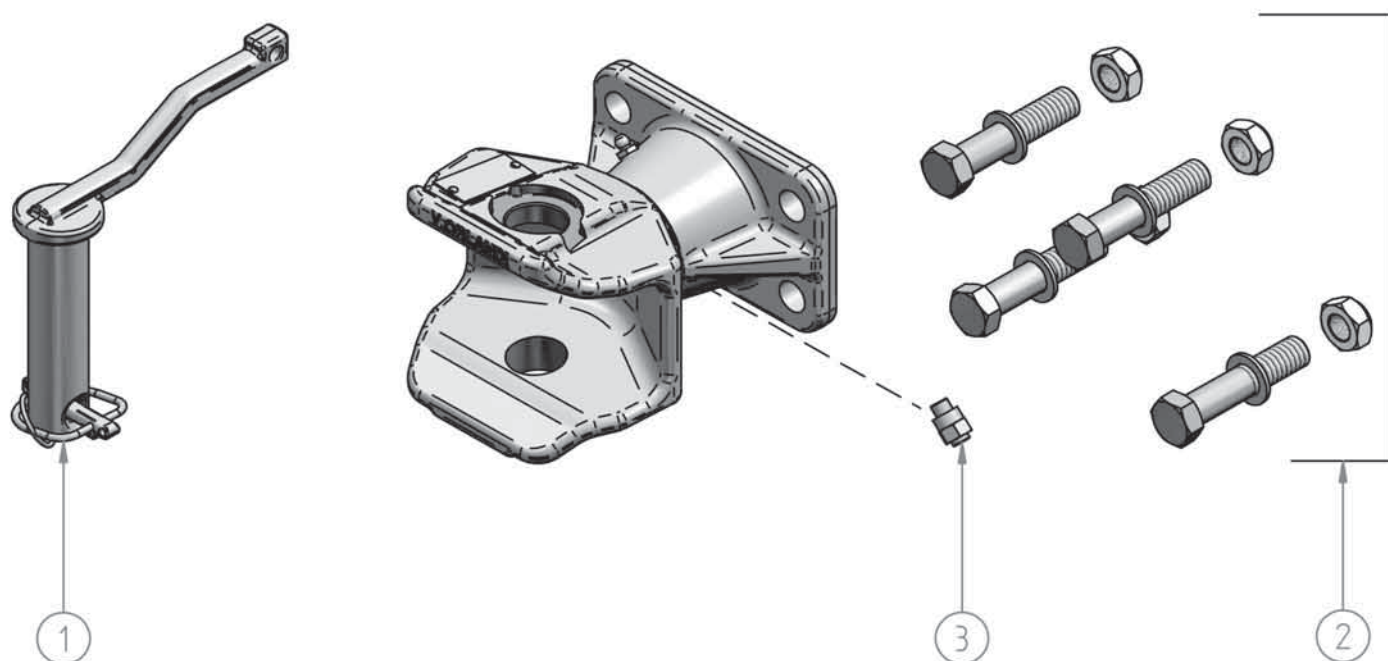
MH 31



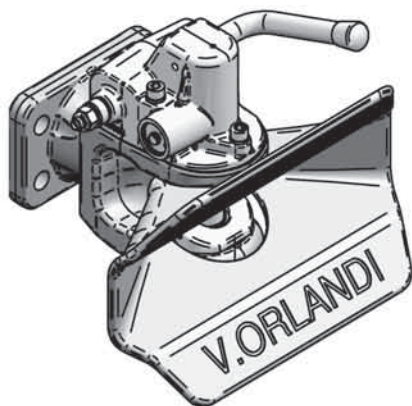
MH 31H



Ricambi - Spare parts



POS.	Tutti i tipi All types	Codice - Article number				
		MH 31 0F1	MH 31 0F3	MH 31 HE1	MH 31 HE4	MH 31 HE5
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					

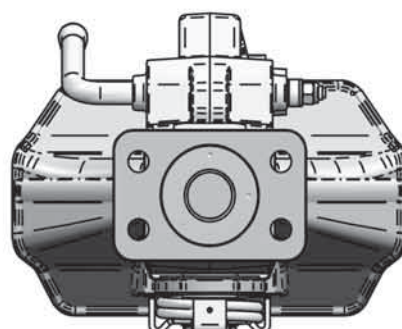
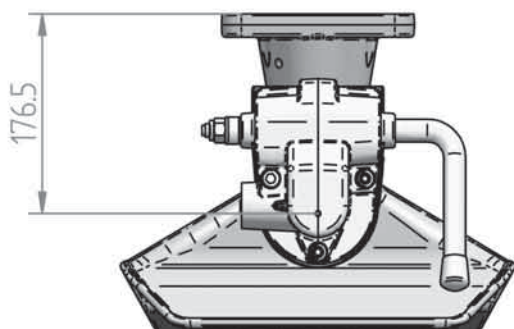
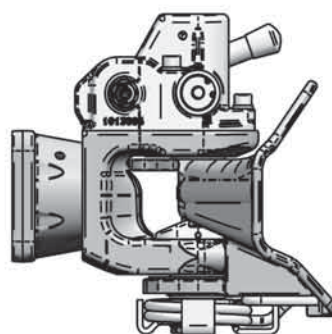
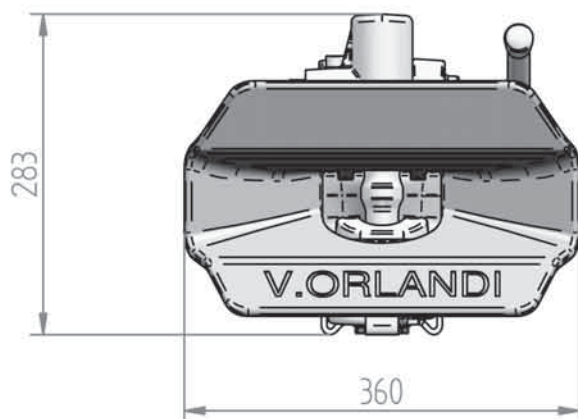


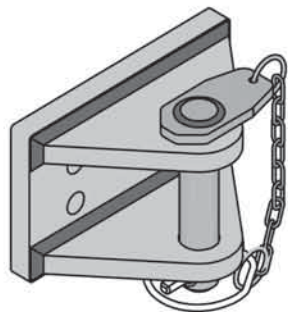
GF 40

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

STANDARD DIMENSIONALI dimensional standards	DIN 11028 ; ISO 6489-2 ; 2009/144/CE
GIREVOLE swivel	 360°
per OCCHIONI for draw-bar eyes	Ø 40 ISO 5692-2 ; ISO 8755 ; DIN 11026 ; DIN 11043 ; DIN 74054

Dati tecnici - Technical data						
Tipo Type	Codice Article number	Flangia Hole pattern mm	Valore D D-Value kN	Massa S S-Load kg	Peso Weight kg	2009 / 144 / CE
						Omologazione Homologation
GF 40	GF 00 003	120 X 55	100	1000	19	
	GF 00 001	130 X 60				
	GF 00 004	140 X 80				
	GF 00 005	160 X 100				





MH-A1

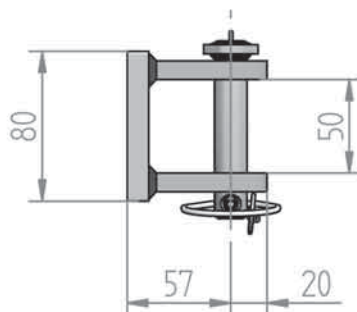
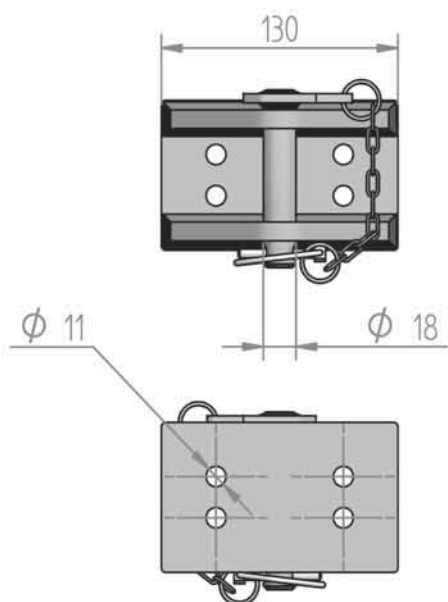
Gancio manuale - perno cilindrico Ø18

Manual coupling - cylindrical pin Ø18

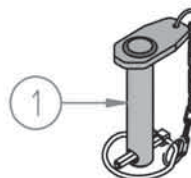
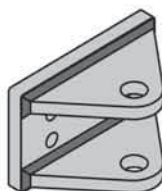
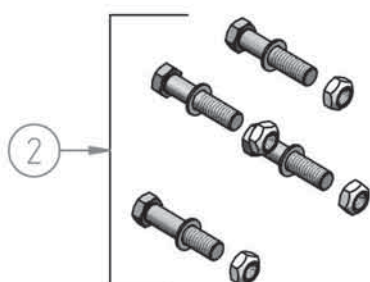
STANDARD DIMENSIONALI dimensional standards	CUNA 338.02 cat. A1 ; ISO 6489-5 shape w ; 2013/8/CEE
NON GIREVOLE non-swivel	
per OCCHIONI for draw-bar eyes	CUNA 438.06 cat. E1 ; ISO 5692-3 shape W

Dati tecnici - Technical data

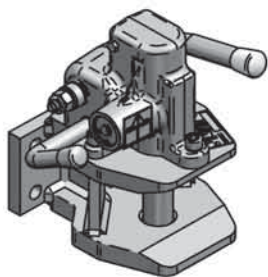
Tipo Type	Codice Article number	Flangia Hole pattern mm	Peso Weight kg	categoria class	peso rimorchiabile traile weight t	carico verticale static load daN	CUNA 338-02
							Omologazione Homologation DGM*3*4089GA
MHA1	MH 00 0RX	70 X 22	2	A1	3	250	



Ricambi - Spare parts



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



AH28

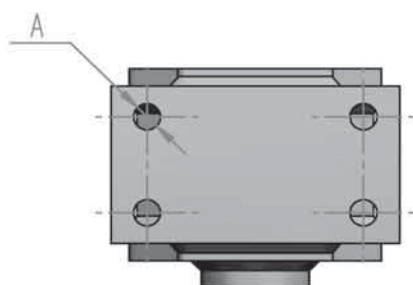
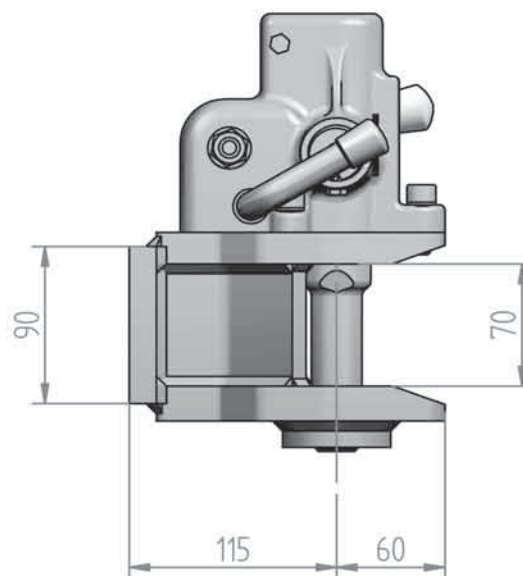
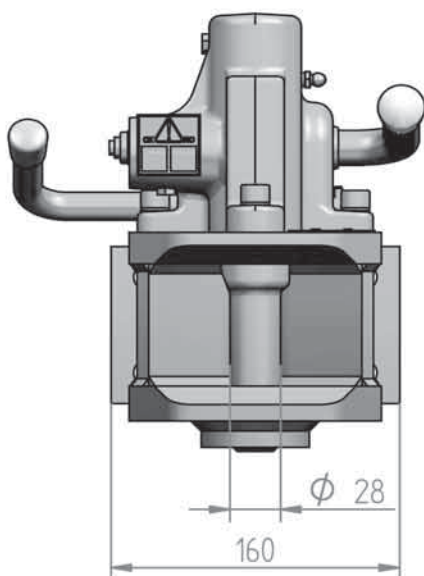
Gancio automatico - perno cilindrico Ø28

Automatic coupling - cylindrical pin Ø28

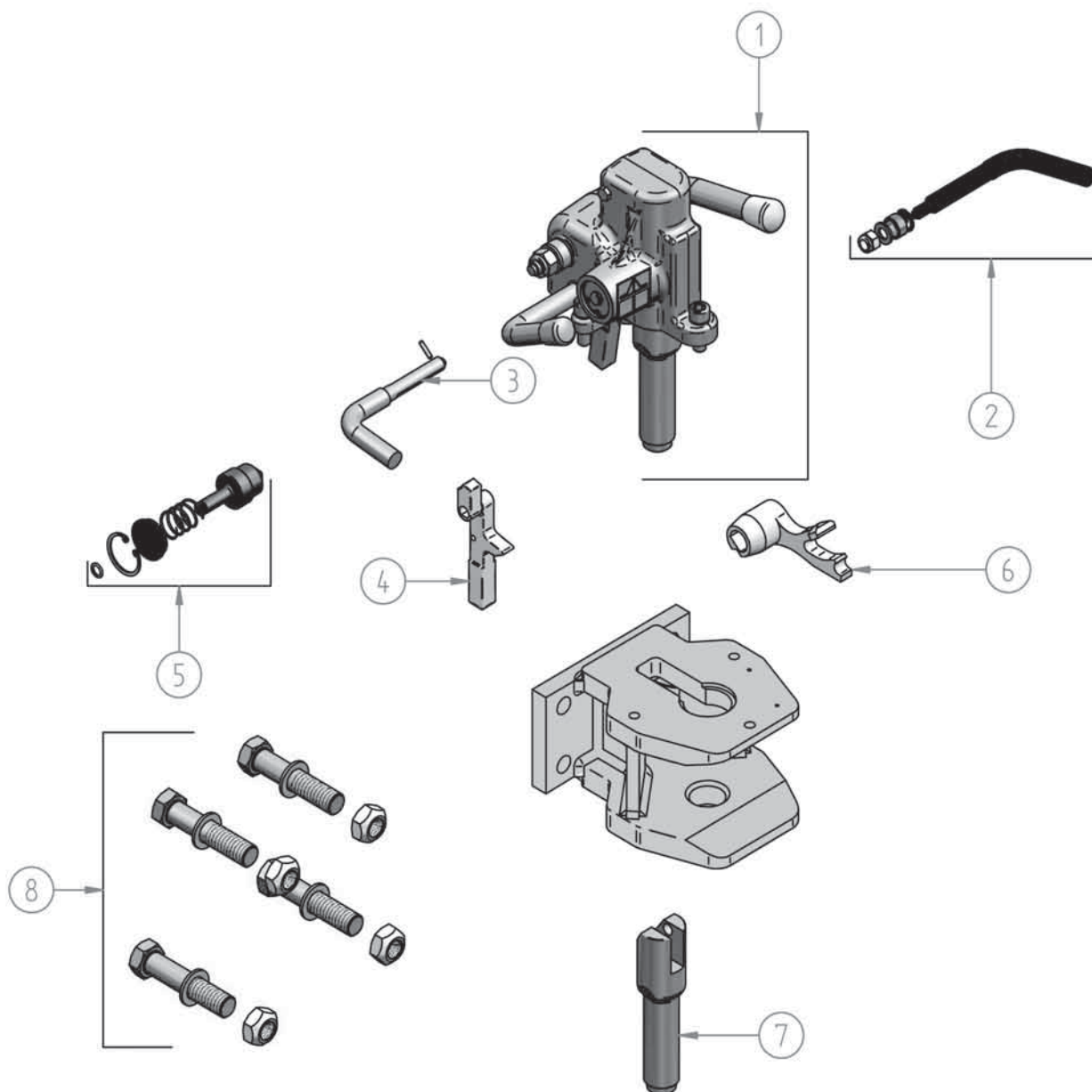
STANDARD DIMENSIONALI dimensional standards	CUNA 338.02 cat. C ; ISO 6489-5 shape x ; 2013/8/CEE
NON GIREVOLE non-swivel	 0°
per OCCHIONI for draw-bar eyes	CUNA 438.06 cat. E3 ; ISO 5692-3 shape X

Dati tecnici - Technical data

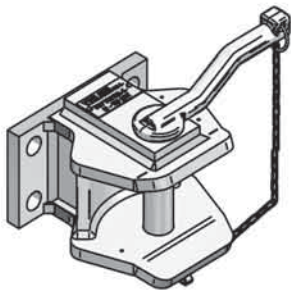
Tipo Type	Codice Article number	Flangia Hole pattern mm	Dimensione "A" "A" dimension Ø mm	Peso Weight kg	categoria class	peso rimorchiabile traile weight t	carico verticale static load daN	CUNA 338-02
								Omologazione Homologation
AH28	AH 00 0G1	130 X 60	19	13	C	6	1500	DGM*3*0013GA
	AH 00 0G3	120 X 55	15					
	AH 00 0G4	140 X 80	17					



Ricambi - Spare parts



POS.	Tutti i tipi All types	Codice - Article number		
		AH 00 0G1	AH 00 0G3	AH 00 0G4
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



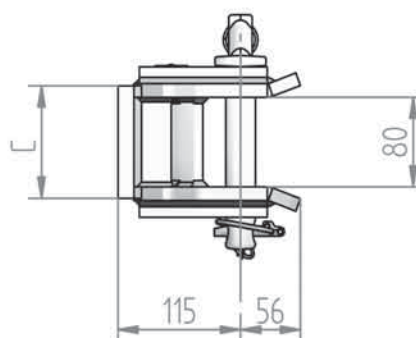
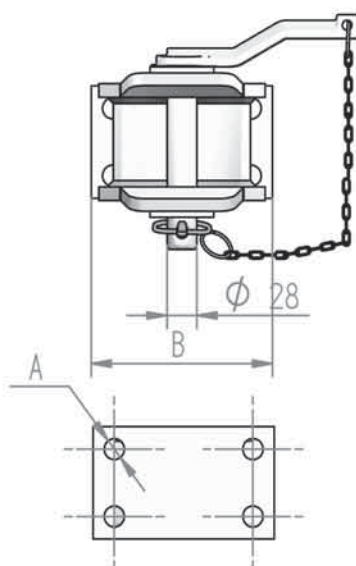
MHC

Gancio manuale
perno cilindrico Ø28
Manual coupling
cylindrical pin Ø28

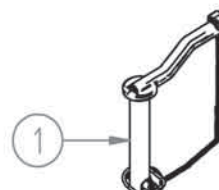
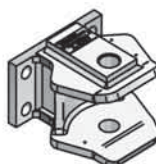
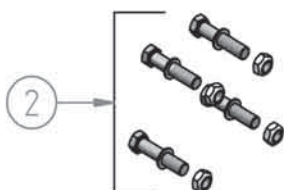
STANDARD DIMENSIONALI dimensional standards	CUNA 338.02 cat. C ; ISO 6489-5 shape x ; 2013/8/CEE
NON GIREVOLE non-swivel	
per OCCHIONI for draw-bar eyes	CUNA 438.06 cat. E3 ; ISO 5692-3 shape X

Dati tecnici - Technical data

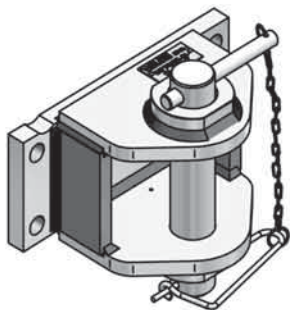
Tipo Type	Codice Article number	Flangia Hole pattern mm	Dimensione "A" "A" dimension Ø mm	Dimensione "B" "B" dimension mm	Dimensione "C" "C" dimension mm	Peso Weight kg	categoria class	peso rimorchiabile traile weight t	carico verticale static load daN	CUNA 338-02 Omologazione Homologation
MHC	MH 00 0G1	130 X 60	19	170	100	9,8	C	6	1500	DGM*3*0013GA
	MH 00 0G3	120 X 55	15	155	90					
	MH 00 0G4	140 X 80	17	180	90					
	MH 00 0G5	160x100	21	200	140					



Ricambi - Spare parts



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



MHD2

Gancio manuale - perno cilindrico Ø43

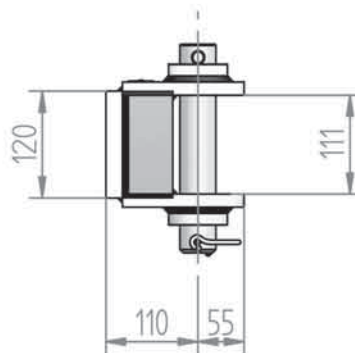
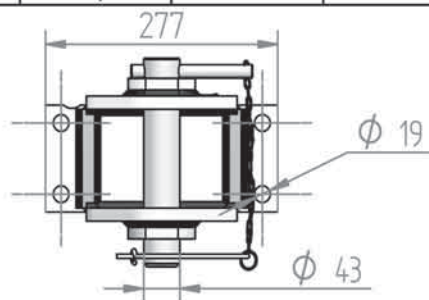
Manual coupling - cylindrical pin Ø43

STANDARD DIMENSIONALI dimensional standards	CUNA 338.02 cat. D2 ; ISO 6489-5 shape y ; 2013/8/CEE
NON GIREVOLE non-swivel	
per OCCHIONI for draw-bar eyes	CUNA 438.06 cat. F2 ; ISO 5692-3 shape Y

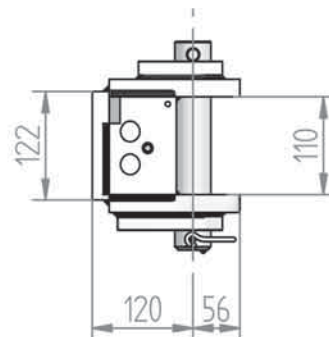
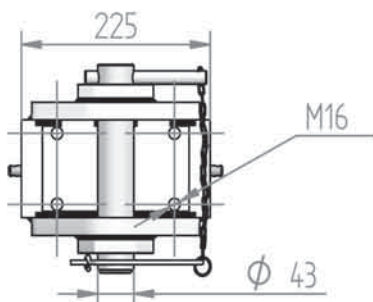
Dati tecnici - Technical data

Tipo Type	Codice Article number	Flangia Hole pattern mm	Peso Weight kg	categoria class	peso rimorchiabile traile weight t	carico verticale static load daN	CUNA 338-02
							Omologazione Homologation
MHD2	MH 00 011	130 X 60	15,5	D2	14	2000	DGM*3*0019GA
	MH 00 012	240 X 80	15,5	D2	14	2000	DGM*3*0011GA
MHD2-M	MH 00 014	140 X 80	26,5	D2	14	2000	DGM 4658 GA

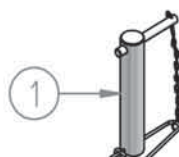
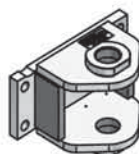
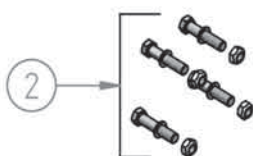
MHD2



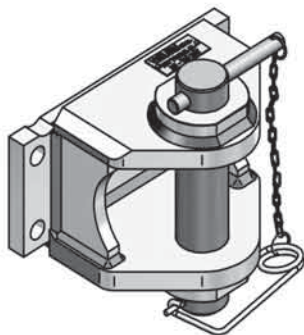
MHD2-M



Ricambi - Spare parts



POS.	Tutti i tipi All types	Codice - Article number		
		MH 00 011	MH 00 012	MH 00 014
1	RA 00 023			
2		RA 00 040	RA 00 040	RA 00 033



MHD3

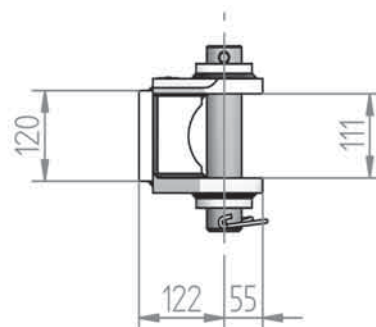
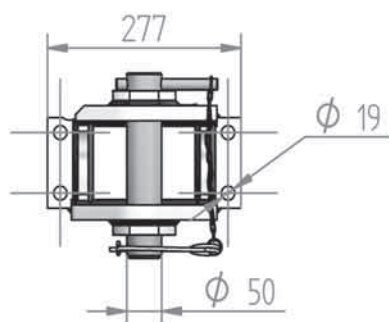
Gancio manuale - perno cilindrico Ø50

Manual coupling - cylindrical pin Ø50

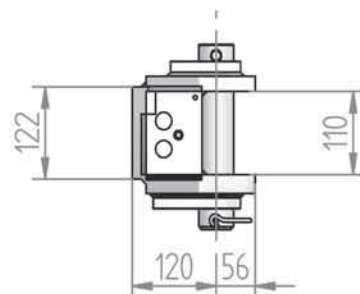
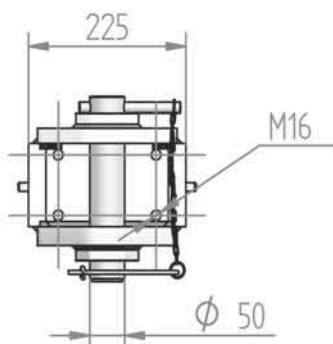
STANDARD DIMENSIONALI dimensional standards	CUNA 338.02 cat. D3 ; ISO 6489-5 shape z; 2013/8/CEE
NON GIREVOLE non-swivel	
per OCCHIONI for draw-bar eyes	CUNA 438.06 cat. F3 ; ISO 5692-3 shape Z

Dati tecnici - Technical data							
Tipo Type	Codice Article number	Flangia Hole pattern mm	Peso Weight kg	categoria class	peso rimorchiabile traile weight t	carico verticale static load daN	CUNA 338-02
							Omologazione Homologation
MHD3	MH 00 0K2	240 X 80	19,5	D3	20	2500	DGM*3*0010GA
MHD3-M	MH 00 0K4	140 X 80	28,5	D3	20	2500	DGM 4659 GA

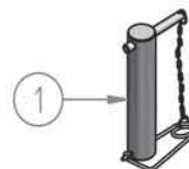
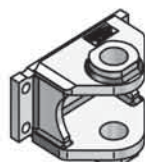
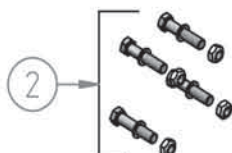
MHD3



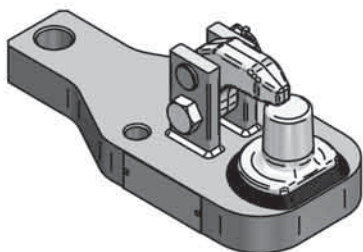
MHD3-M



Ricambi - Spare parts



POS.	Tutti i tipi All types	Codice - Article number	
		MH 00 0K2	MH 00 0K4
1	RA 00 024		
2		RA 00 040	RA 00 033

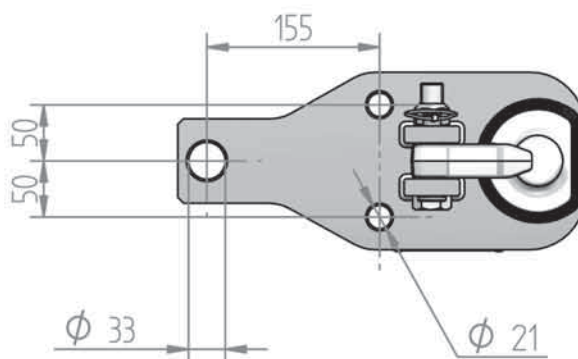
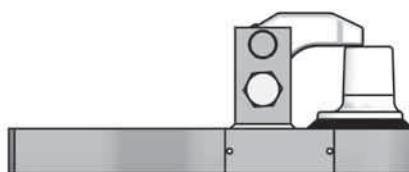
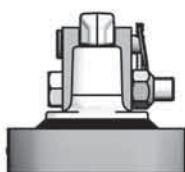


SP

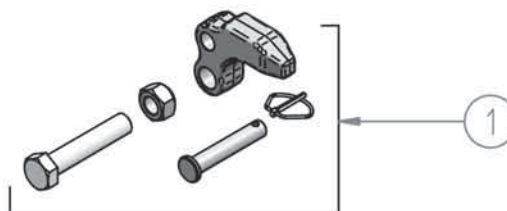
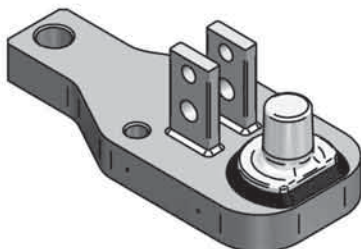
Supporto con piton fixe
Piton fixe support

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

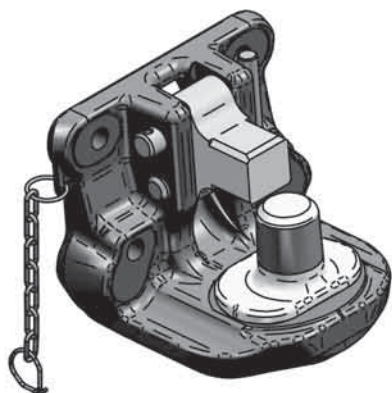
Dati tecnici - Technical data						
Tipo Type	Codice Article number	Flangia Hole pattern mm	Valore D D-Value kN	Massa S S-Load kg	Peso Weight kg	2009 / 144 / CE
SP	SP 00 PSC	-	40	1200	17,5	Omologazione Homologation e11*2225



Ricambi - Spare parts



POS.	Tutti i tipi All types
1	RA 00 065



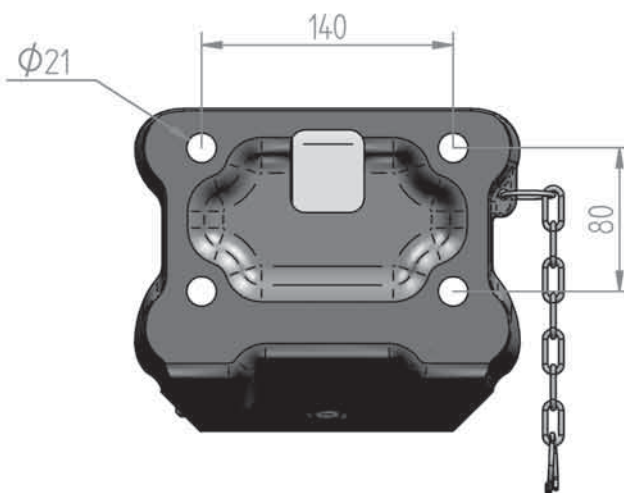
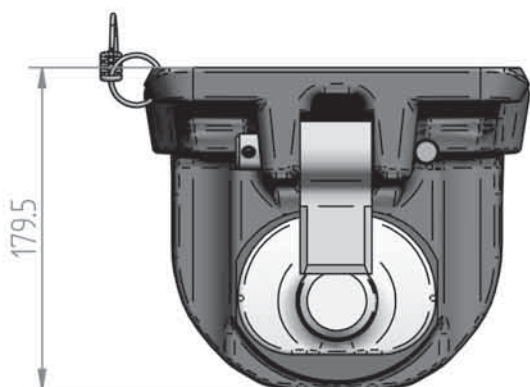
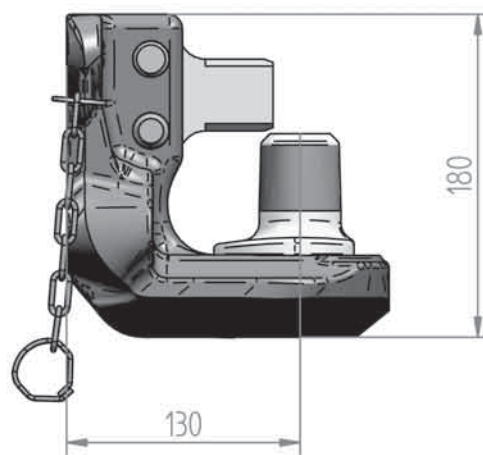
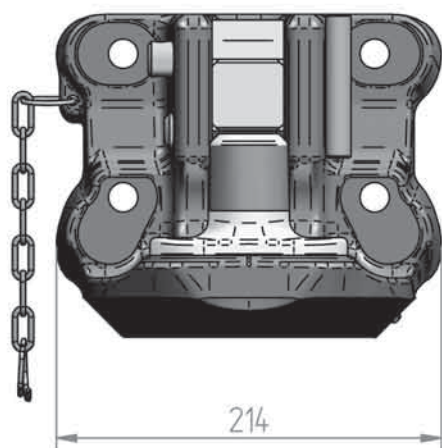
GP

Gancio flangiabile con piton fixe

Flanged trailer coupling clevis type with piton fixe

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

Dati tecnici - Technical data					
Tipo Type	Codice Article number	Valore D D-Value kN	Massa S S-Load kg	Peso Weight kg	2009 / 144 / CE Omologazione Homologation
GP	GP 00 004	89,3	3000	15	e4*0196





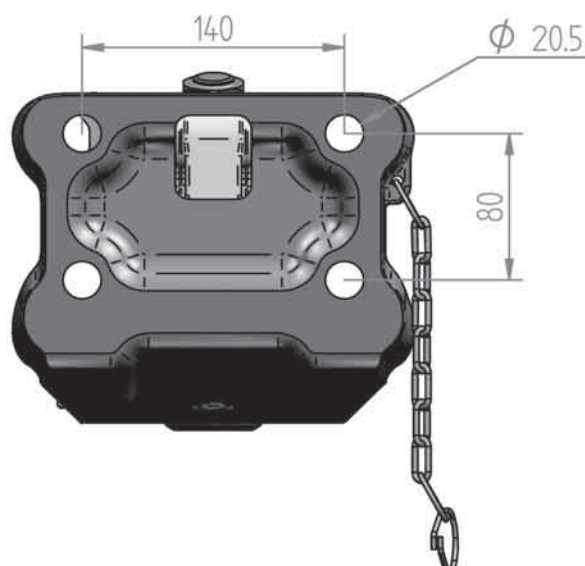
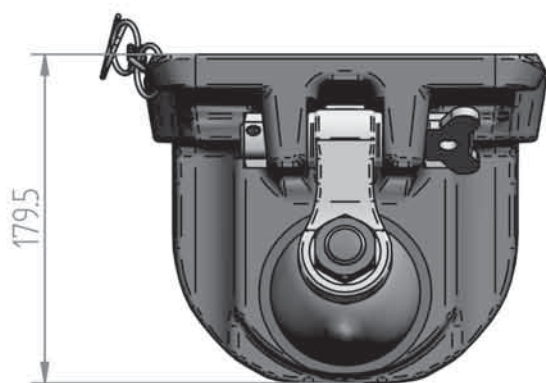
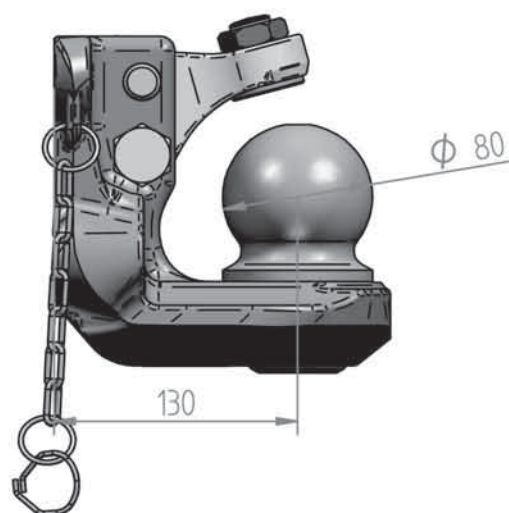
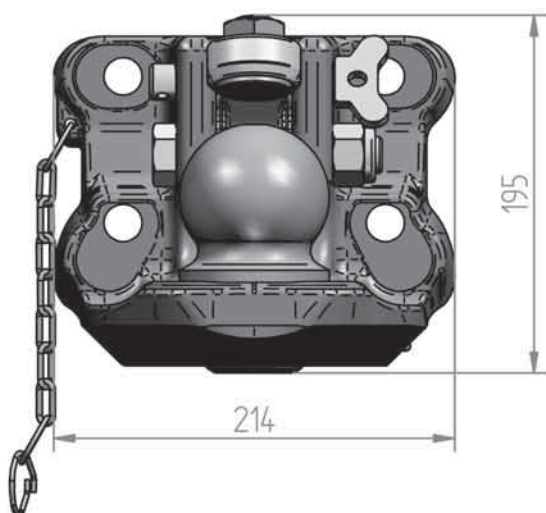
GS

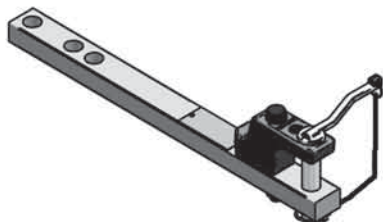
Gancio a sfera flangiabile

Flanged Sphere trailer coupling clevis type

STANDARD DIMENSIONALI dimensional standards	ISO 6489-4 ; 2013/8/CEE
NON GIREVOLE non-swivel	 0°
per OCCHIONI for draw-bar eyes	Ø80 ISO 24347

Dati tecnici - Technical data					
Tipo Type	Codice Article number	Valore D D-Value kN	Massa S S-Load kg	Peso Weight kg	2009 / 144 / CE
GS	GS 81 004	89,3	3000	15	Omologazione Homologation e4*0123



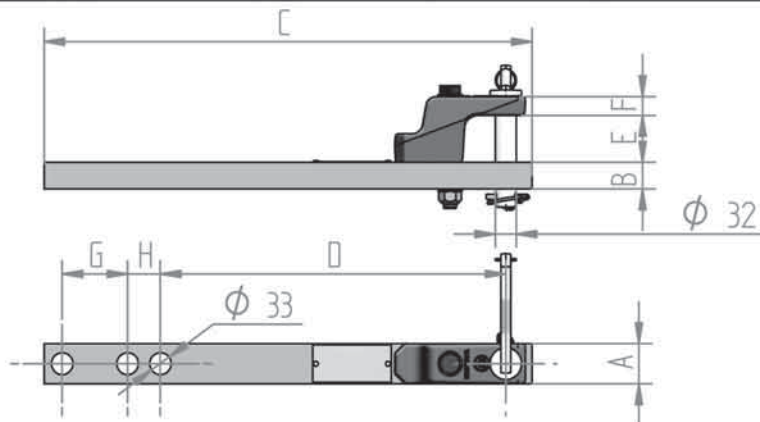


BT

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

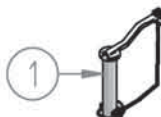
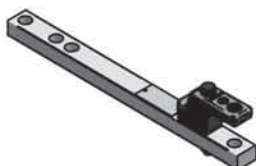
STANDARD DIMENSIONALI dimensional standards	ISO 6489-2 ; 2009/144/CEE
GIREVOLE swivel	
per OCCHIONI for draw-bar eyes	Ø 40/50 ISO 5692-2 ; ISO 8755 ; DIN 11026 ; DIN 11043 ; DIN 74054

Dati tecnici - Technical data					
Tipo Type	Codice Article number	peso rimorchiabile trailer weight ↑	carico verticale static load daN	Peso Weight kg	- Omologazione Homologation
BT	BT 01 SDE	11	600		STe11*2061EG37
		12	800		
		13	900		
	BT 02 SDE	10	1350		STe11*1569EG30
		13,5	1815		
		17	2090		
	BT 03 SDE	32	2000		STe11*2124
	BT 04 SDE				
	BT 05 SDE				

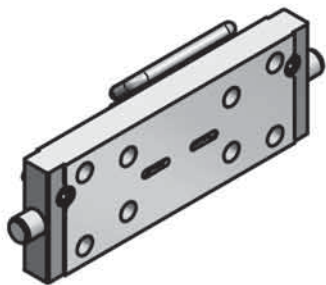


DATI DIMENSIONALI - DIMENSIONAL DATA									
tipo - type	codice - code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
BT	BT 01 SDE	60	40	745	525	70	28	100	50
	BT 02 SDE	70		1206	963	80	30	113	
	BT 03 SDE	80		1444,5	504	65	34	566,5	-
	BT 04 SDE			546	470			-	-
	BT 05 SDE			735,5	659,5			-	-

Ricambi - Spare parts



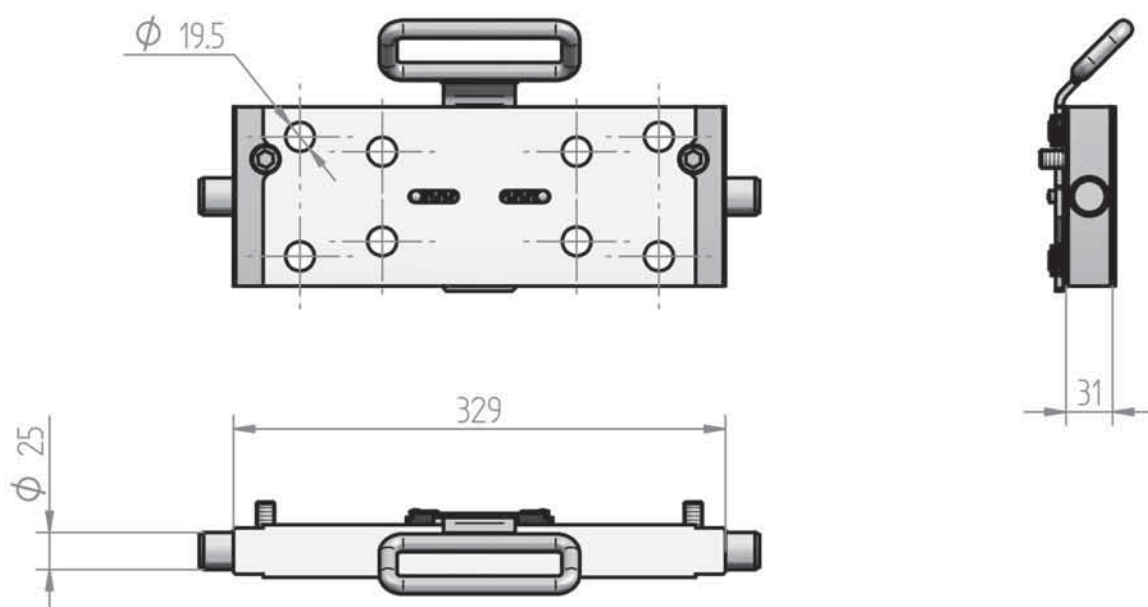
POS.	Tutti i tipi All types
1	RA 00 214



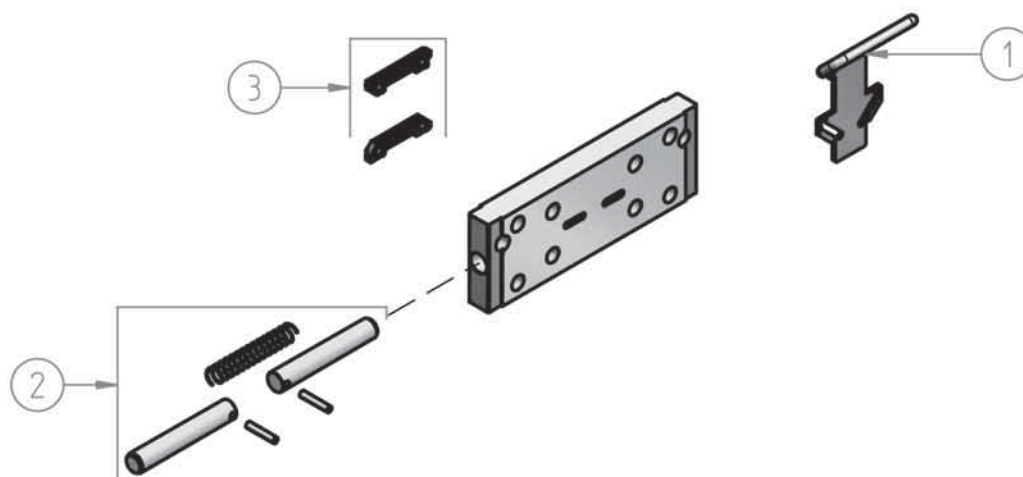
LB 30

slitta scorrevole flangiata
Flanged lift bearing

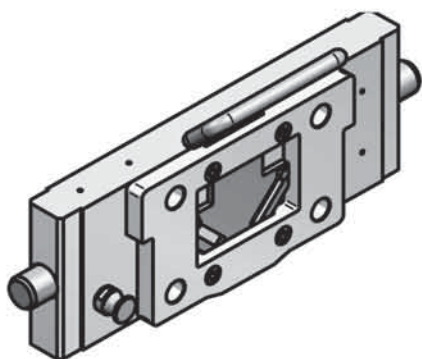
Dati tecnici - Technical data			
Tipo Type	Codice Article number	Flangia Hole pattern mm	Peso Weight kg
LB30	LB 30 B00	130 X 60	10,5
		240 X 80	



Ricambi - Spare parts



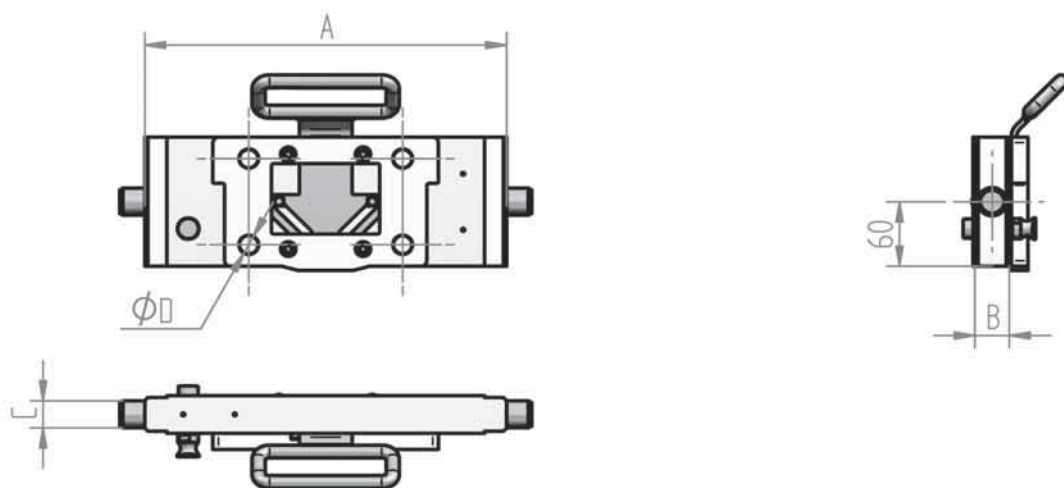
POS.	Tutti i tipi All types
1	RA 00 135
2	RA 00 232
3	RA 00 281



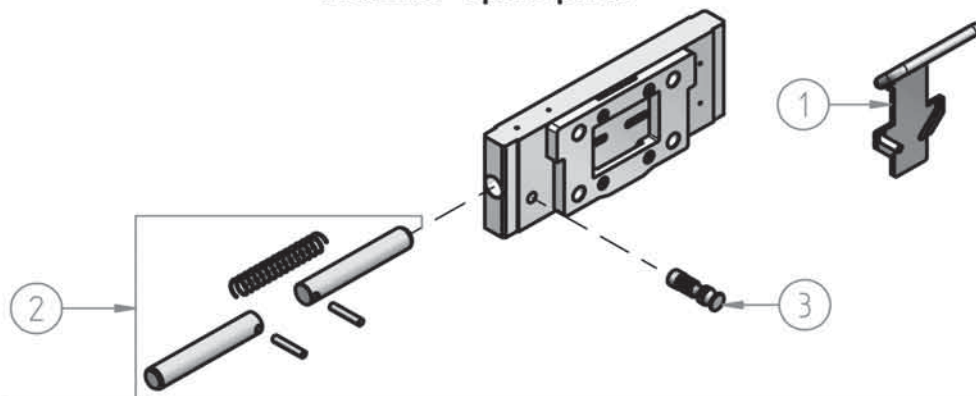
LB 32

slitta scorrevole flangiata
Flanged lift bearing

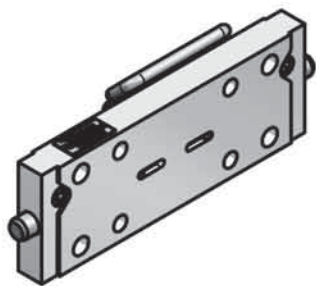
Dati tecnici - Technical data							
Tipo Type	Codice Article number	Flangia Hole pattern mm	Dimensione "A" "A" dimension mm	Dimensione "B" "B" dimension mm	Dimensione "C" "C" dimension ø mm	Dimensione "D" "D" dimension ø mm	Peso Weight kg
LB 32	LB 32 B04	140 X 80	329	31,6	25	17	12,6
	LB 32 G04		311	30,4	22		12
	LB 32 F04		241	30,3			11
LB 3B	LB 3B B04	140 X 80	329	31,6	25	21	12,6
	LB 3B G04		311	30,4	22		12
	LB 3B F04		241	30,3			11



Ricambi - Spare parts



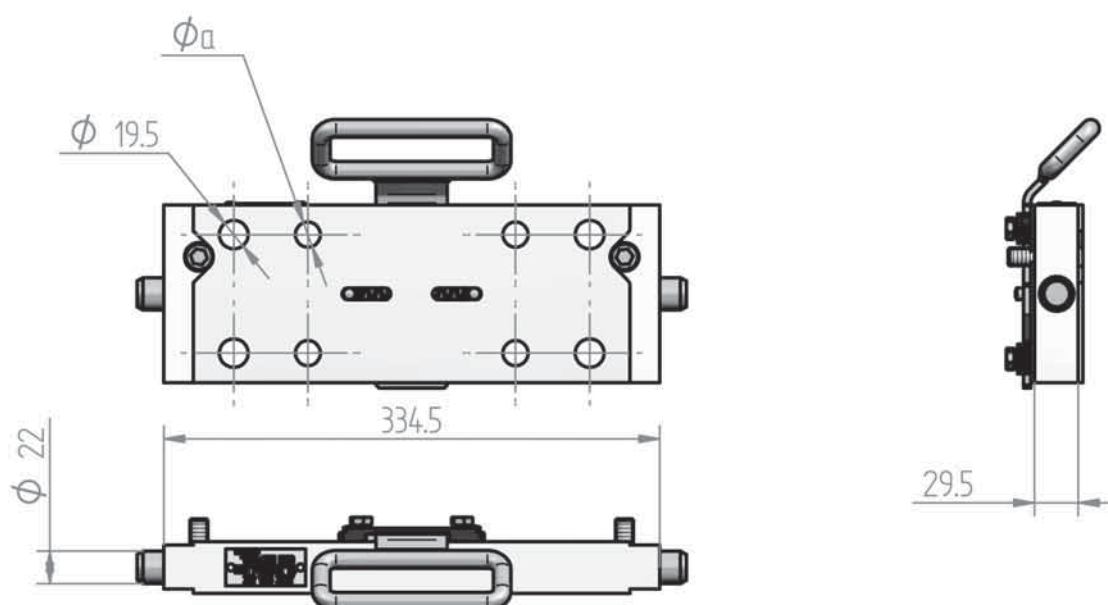
POS.	Tutti i tipi All types	Codice - Article number		
		LB 32/3B B04	LB 32/3B G04	LB 32/3B F04
1	RA 00 135			
2		RA 00 232	RA 00 234	RA 00 233
3	RA 00 217			



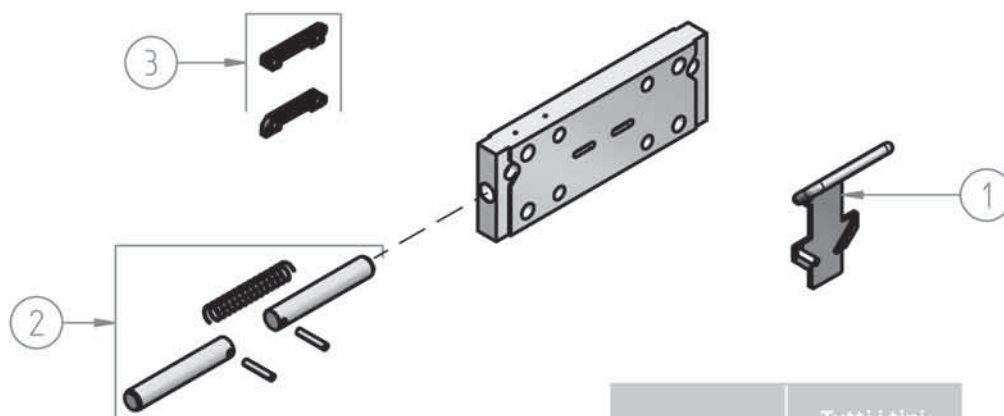
LB 33

slitta scorrevole flangiata
Flanged lift bearing

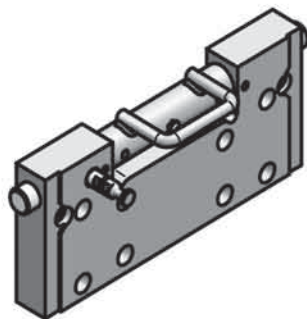
Dati tecnici - Technical data				
Tipo Type	Codice Article number	Flangia Hole pattern mm	Diametro fori Hole dimension ømm	Peso Weight kg
LB33	LB 33 D00	140 X 80	(a)17	11
		240 X 80		
LB3C	LB 3C D00	140 X 80	(a)21	11
		240 X 80		



Ricambi - Spare parts



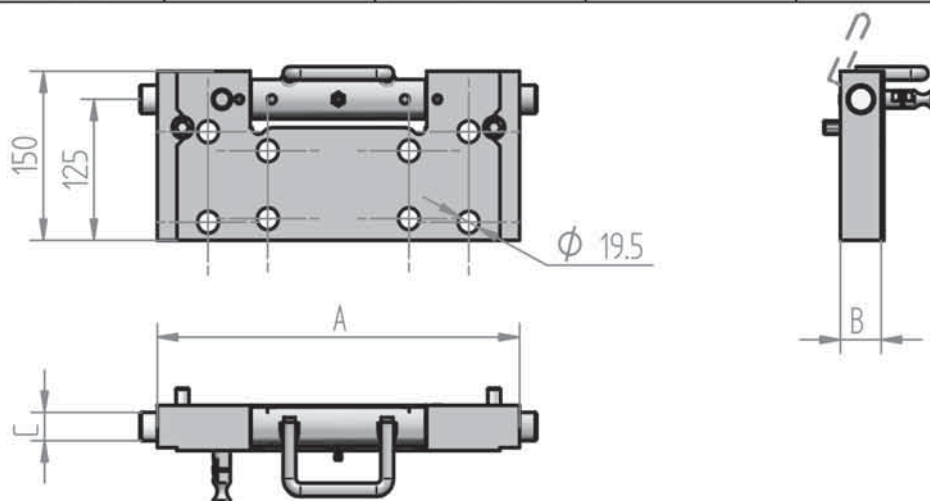
POS.	Tutti i tipi All types
1	RA 00 135
2	RA 00 268
3	RA 00 281



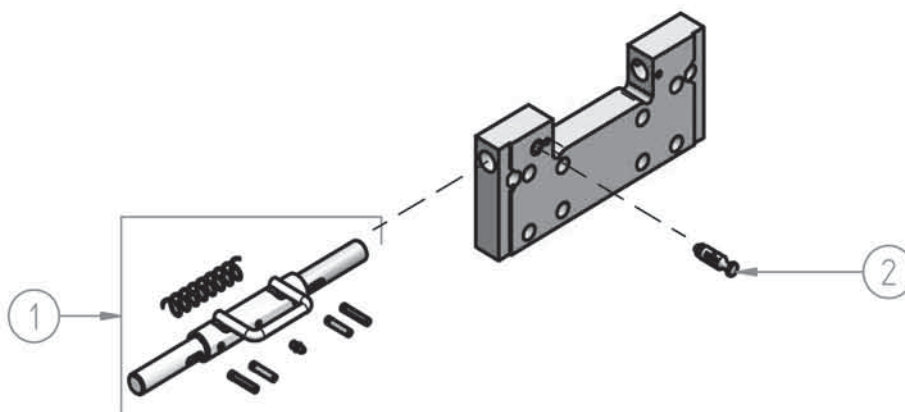
LB 40

slitta scorrevole flangiata
Flanged lift bearing

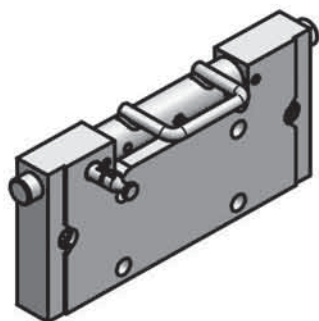
Dati tecnici - Technical data						
Tipo Type	Codice Article number	Flangia Hole pattern mm	Dimensione "A" "A" dimension mm	Dimensione "B" "B" dimension mm	Dimensione "C" "C" dimension Ø mm	Peso Weight kg
LB 40	LB 40 100	130 X 60 240 X 80	333,5	37,5	25	13,5
	LB 40 200		320			13,2
	LB 40 300		310			12,8
	LB 40 500		260			10,3



Ricambi - Spare parts



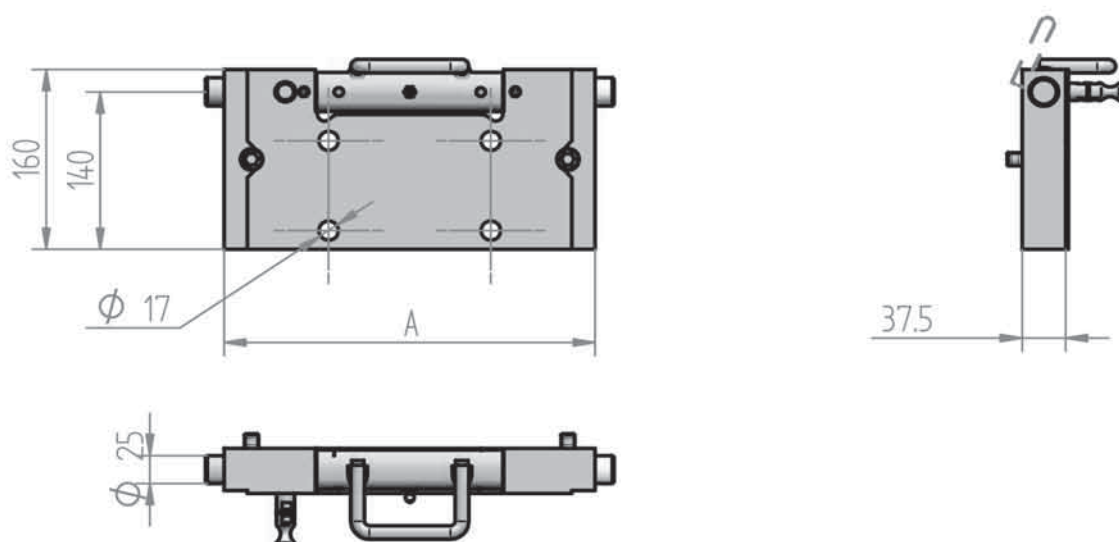
POS.	Tutti i tipi All types	Codice - Article number			
		LB 40 100	LB 40 200	LB 40 300	LB 40 500
1		RA 00 041	RA 00 042	RA 00 043	RA 00 045
2	RA 00 002				



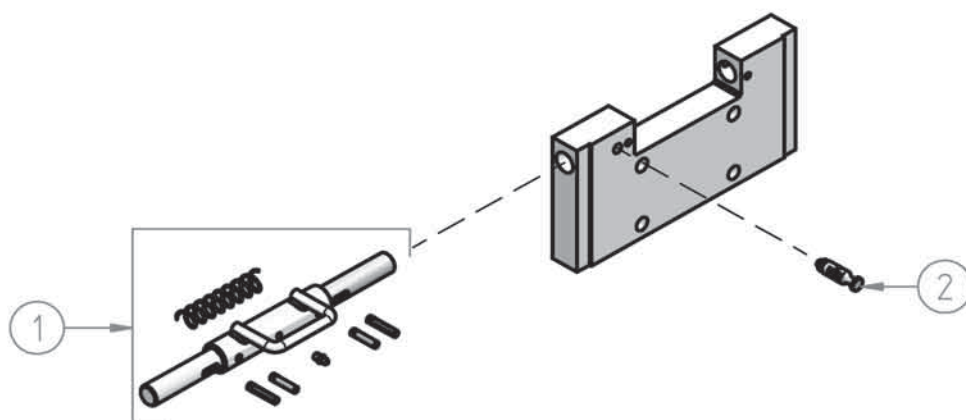
LB 41

slitta scorrevole flangiata
Flanged lift bearing

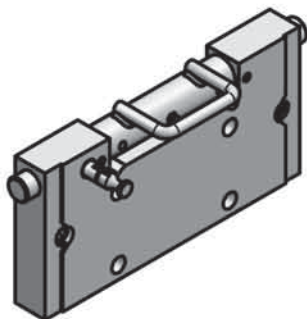
Dati tecnici - Technical data				
Tipo Type	Codice Article number	Flangia Hole pattern mm	Dimensione "A" "A" dimension mm	Peso Weight kg
LB 41	LB 41 100	140 X 80	333,5	15
	LB 41 200		320	14,3
	LB 41 300		310	13,8



Ricambi - Spare parts



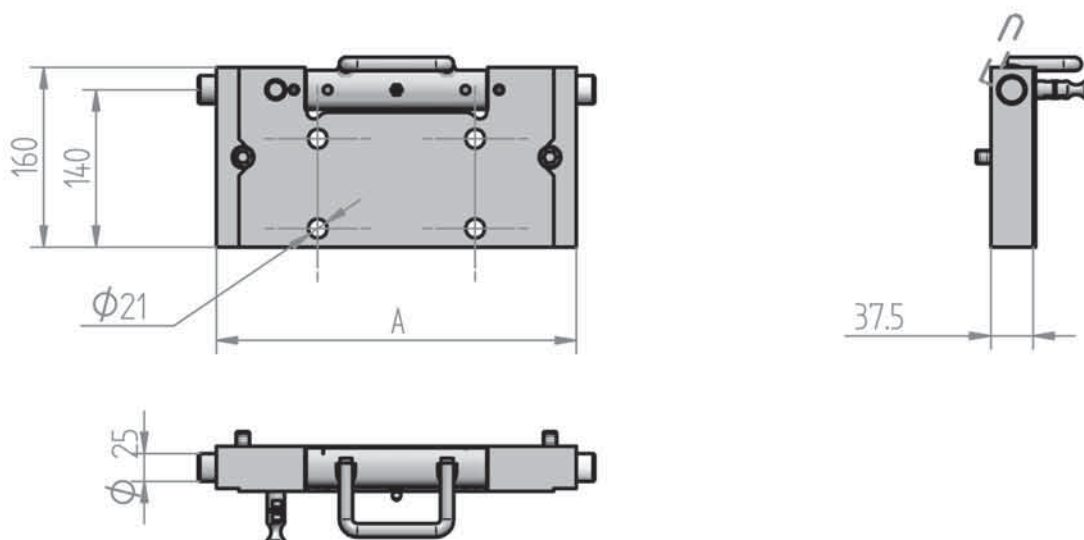
POS.	Tutti i tipi All types	Codice - Article number		
		LB 41 100	LB 42 200	LB 41 300
1		RA 00 041	RA 00 042	RA 00 043
2	RA 00 002			



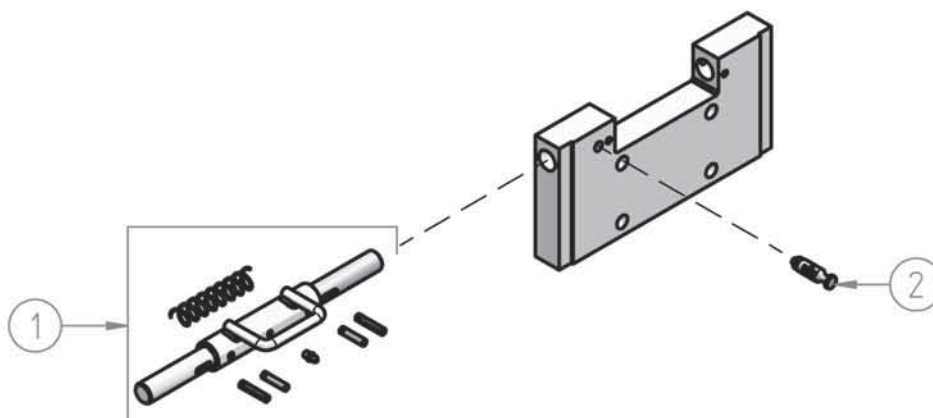
LB 42

slitta scorrevole flangiata
Flanged lift bearing

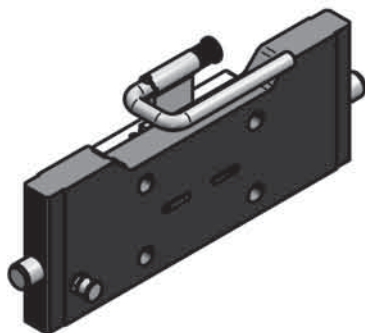
Dati tecnici - Technical data				
Tipo Type	Codice Article number	Flangia Hole pattern mm	Dimensione "A" "A" dimension mm	Peso Weight kg
LB 42	LB 42 100	140 X 80	333,5	15,1
	LB 42 200		320	14,4
	LB 42 300		310	13,9



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			

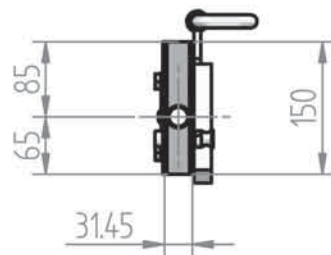
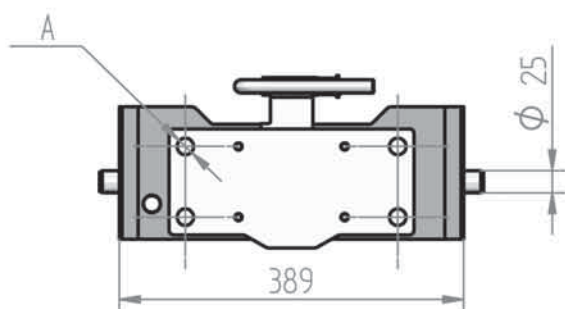


LB 50

slitta scorrevole flangiata
Flanged lift bearing

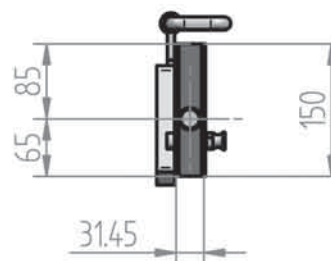
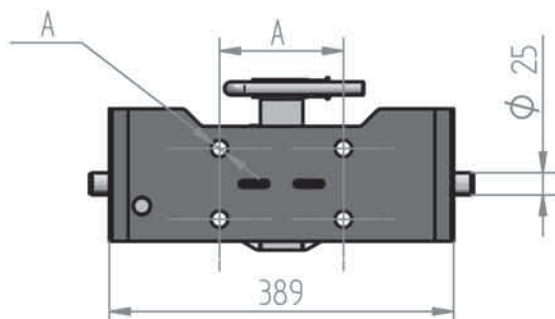
Dati tecnici - Technical data				
Tipo Type	Codice Article number	Flangia Hole pattern mm	Dimensione "A" "A" dimension Ø mm	Peso Weight kg
LB 50-2	LB 00 E02	240 X 80	19	20
LB 50-4	LB 00 E04	140 X 80	17	
LB 5B-4	LB 0B E04	140 X 80	21	

LB50-02

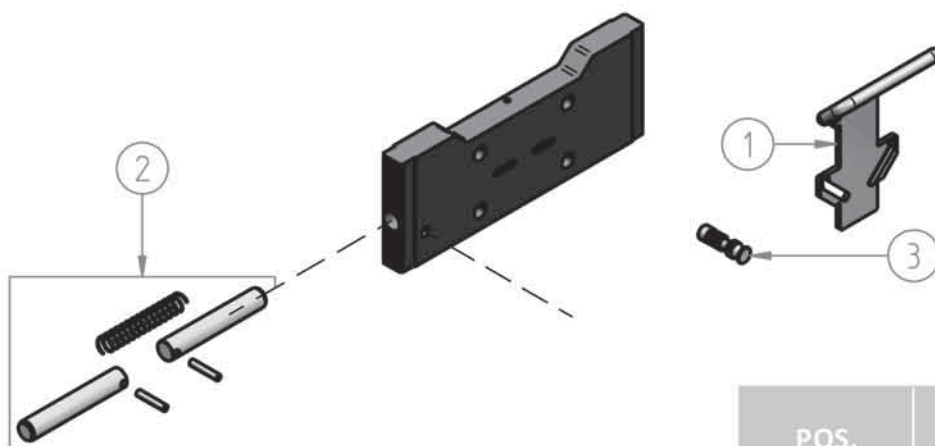


LB50-04

LB5B-04



Ricambi - Spare parts



POS.	Tutti i tipi All types
1	RA 00 216
2	RA 00 218
3	RA 00 217

Note

[illegible]

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;

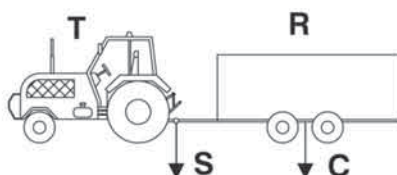
R = rappresenta la massa massima tecnicamente ammissibile del rimorchio espressa in ton.

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

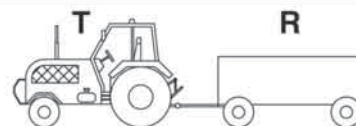
$$Dc = \frac{9.81 \times (12 \times 18)}{12 + 18} = 70,7 \text{ kN}$$

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;

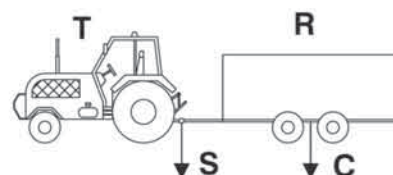
R = Technically admissible maximum weight of the trailer in tons.

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

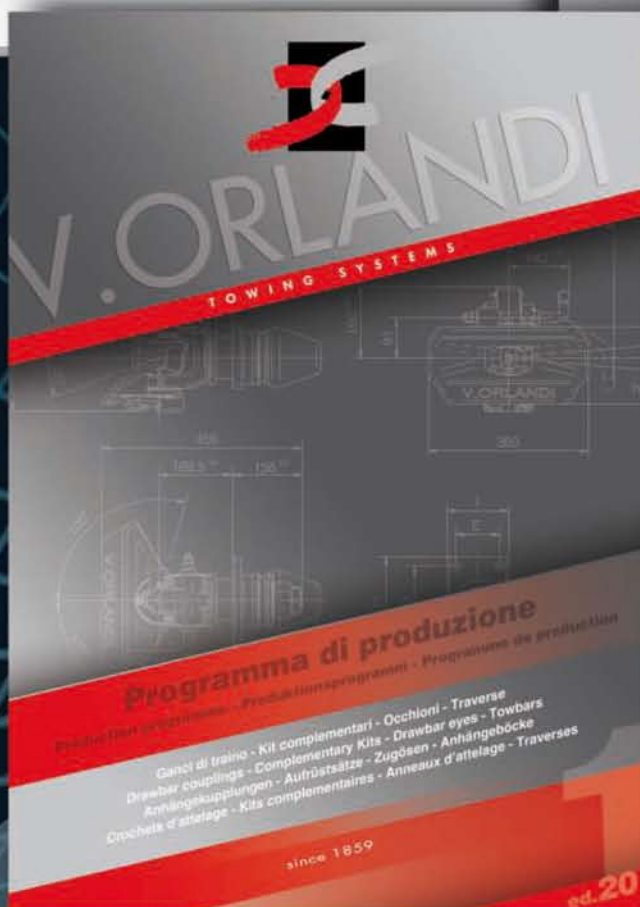
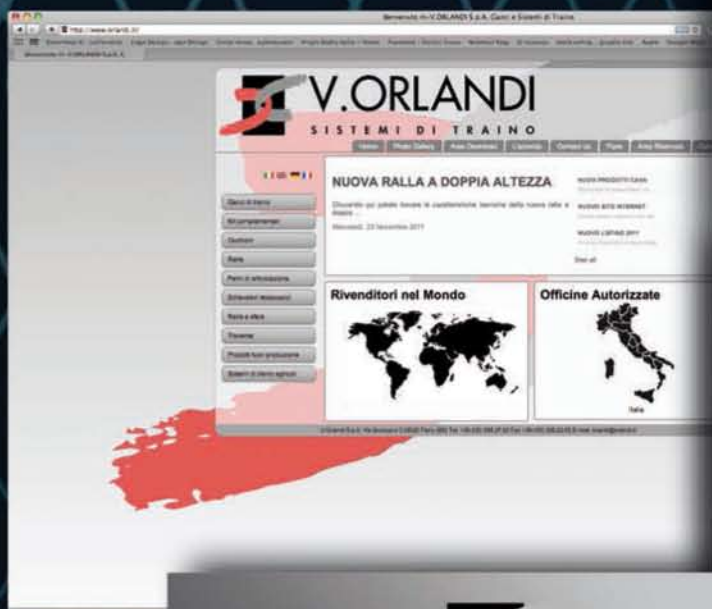
For the determination of the Dc-value the weight of the towing vehicle is calculated as follows:

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

and therefore

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

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