

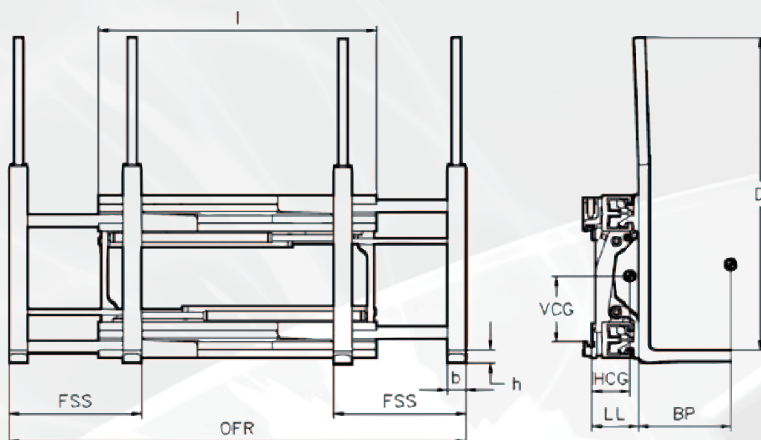
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Multi Pallet Handlers



Single/Double Pallet Handlers

Models DA-DS



- Single/double pallet handler for handling one or two pallets.
- These models offer the possibility to lift pallets on both sides, either singly or two at a time.
- Excellent visibility through the body.
- Separate sideshift provides constant sideshift range regardless of the fork opening (Model DS).
- Synchronized fork movement with flow divider valve.
- Gas-spring operated inner fork positioning.
- Incorporated load backrests.
- Self-lubricating polyamide sideshift bearing pads.
- Bolt-on forks with specially reinforced heel area.

Model	Capacity	Load Centre	Fork Set Spread	Opening Range	Fork Dimensions	Frame Width	Minimum Carriage Width	Height	Weight	Centre of Gravity Horizontal	Centre of Gravity Vertical	Effective Thickness	Mounting Class
	Q kg	BP mm	FSS mm	OFR mm	Lxbxh mm	I mm	FL mm	D mm	W kg	HCG mm	VCG mm	LL mm	ISO 2328
Non-sideshifting													
DA18FKA	1800	600	550	550 - 1930	1150x80x50	1200	690	1350	563	254	188	208	2 A
DA22FKA	2200	600	550	550 - 1930	1150x80x50	1200	690	1350	563	254	188	208	2 A
DA25FKB	2500	600	570	550 - 1930	1150x80x50	1200	650	1350	585	212	268	208	3 A
DA28FKB	2800	600	570	550 - 1930	1150x80x50	1200	650	1350	585	212	268	208	3 A
DA35FKB	3500	600	570	550 - 1930	1150x80x60	1200	650	1350	635	215	274	218	3 A
Sideshifting													
DS18FKA	1800	600	550	550 - 1930	1150x80x50	1200	810	1350	570	287	184	228	2 A
DS22FKA	2200	600	550	550 - 1930	1150x80x50	1200	810	1350	570	287	184	228	2 A
DS25FKB	2500	600	570	550 - 1930	1150x80x50	1200	900	1350	605	228	262	228	3 A
DS28FKB	2800	600	570	550 - 1930	1150x80x50	1200	900	1350	605	228	262	228	3 A
DS35FKB	3500	600	570	550 - 1930	1150x80x60	1200	900	1350	655	231	268	238	3 A

Notes:

Series DA – Non-sideshifting.

Series DS – Separate sideshift, with 100 + 100 mm stroke.

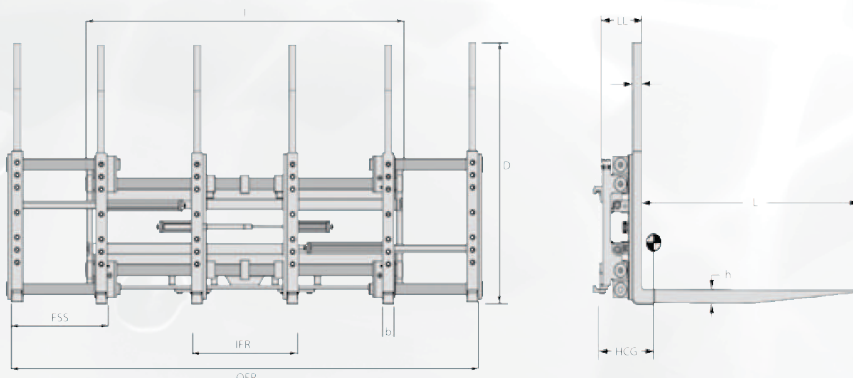
- Mountings: Standard ISO 2328 mounting. For special mountings, consult Bolzoni Auramo.
- Hydraulic functions: One (models DA) or two (models DS) hydraulic functions required.

Opening range: special widths and fork opening ranges are available. Consult Bolzoni Auramo.

Non-standard fork lengths and sections available.

Other load backrest heights available. Consult Bolzoni Auramo.

Note: These attachment models are designed for load handling on forks only. Not suitable for clamping!



- Bar type design.
- Triple pallet handler for handling one, two or three pallets.
- Excellent visibility through the body.
- Model DA is non-sideshifting.
- Model DS with separate sideshift, which provides constant sideshift range, regardless of the fork opening.
- Incorporated load backrest.
- Synchronized forks movement.
- Bolt-on forks with specially reinforced heel area.

Model	Capacity	Load Centre	Fork Set Spread	Outer Fork Range	Inner Fork	Fork Dimensions	Frame Width	Minimum Carriage Width	Height	Weight	Centre of Gravity Horizontal	Effective Thickness	Mounting Class	
	Q	BP	FSS	OFR	IFR	Lxbxh	I	FL	D	W	HCG	LL	ISO	
	kg	mm	mm	mm		mm	mm	mm	mm	kg	mm	mm	2328	EUR
Non-sideshifting														
DA 18 FT1 A	2000	600	500	560 - 2340	560	1150x60x50	1550	1100	1350	680	210	207	2	
DA 18 FT2 A	2000	600	500	560 - 2440	560	1150x60x50	1650	1100	1350	690	209	207	2	
DA 18 FT3 A	2000	600	500	560 - 2540	560	1150x60x50	1750	1100	1350	705	208	207	2	
DA 26 FT1 B	2600	600	500	560 - 2340	560	1150x60x50	1550	1100	1350	705	208	207	3	
DA 26 FT2 B	2600	600	500	560 - 2440	560	1150x60x50	1650	1100	1350	715	206	207	3	
DA 26 FT3 B	2600	600	500	560 - 2540	560	1150x60x50	1750	1100	1350	725	204	207	3	
DA 30 FT1 B	3000	600	500	560 - 2340	560	1150x60x50	1550	1100	1350	715	210	207	3	
DA 30 FT2 B	3000	600	500	560 - 2440	560	1150x60x50	1650	1100	1350	725	208	207	3	
DA 30 FT3 B	3000	600	500	560 - 2540	560	1150x60x50	1750	1100	1350	735	206	207	3	
DA 36 FT1 B	3600	600	500	560 - 2240	560	1150x60x60	1560	1100	1350	830	220	244	3	
DA 36 FT2 B	3600	600	500	560 - 2340	560	1150x60x60	1660	1100	1350	835	220	244	3	
DA 36 FT3 B	3600	600	500	560 - 2440	560	1150x60x60	1760	1100	1350	890	220	244	3	
DA 40 FT2 C	4000	600	500	560 - 2340	560	1150x60x60	1660	1300	1350	915	230	244	4	
DA 40 FT3 C	4000	600	500	560 - 2440	560	1150x60x60	1760	1300	1350	935	230	244	4	
Sideshifting														
DS 18 FT1 A	2000	600	500	560 - 2340	560	1150x60x50	1550	1100	1350	685	211	207	2	
DS 18 FT2 A	2000	600	500	560 - 2440	560	1150x60x50	1650	1100	1350	695	210	207	2	
DS 18 FT3 A	2000	600	500	560 - 2540	560	1150x60x50	1750	1100	1350	710	209	207	2	
DS 26 FT1 B	2600	600	500	560 - 2340	560	1150x60x50	1550	1100	1350	710	209	207	3	
DS 26 FT2 B	2600	600	500	560 - 2440	560	1150x60x50	1650	1100	1350	720	207	207	3	
DS 26 FT3 B	2600	600	500	560 - 2540	560	1150x60x50	1750	1100	1350	730	205	207	3	
DS 30 FT1 B	3000	600	500	560 - 2340	560	1150x60x50	1550	1100	1350	720	211	207	3	
DS 30 FT2 B	3000	600	500	560 - 2440	560	1150x60x50	1650	1100	1350	730	209	207	3	
DS 30 FT3 B	3000	600	500	560 - 2540	560	1150x60x50	1750	1100	1350	740	207	207	3	
DS 36 FT1 B	3600	600	500	560 - 2240	560	1150x60x60	1560	1100	1350	835	220	244	3	
DS 36 FT2 B	3600	600	500	560 - 2340	560	1150x60x60	1660	1100	1350	840	220	244	3	
DS 36 FT3 B	3600	600	500	560 - 2440	560	1150x60x60	1760	1100	1350	895	220	244	3	
DS 40 FT2 C	4000	600	500	560 - 2340	560	1150x60x60	1660	1300	1350	930	230	244	4	
DS 40 FT3 C	4000	600	500	560 - 2440	560	1150x60x60	1760	1300	1350	950	230	244	4	

Notes:

Model DA: Non-sideshifting. One hydraulic function required.

Model DS: Separate sideshift, with 100 + 100 mm. Two hydraulic functions required.

Interchangeable bolt-on forks.

It is possible to bring 2 and 3 pallet closer, as standard.

Mountings: standard ISO 2328 mounting. For special mountings, consult Bolzoni Auramo.

On request:

Opening range: special frame widths and fork opening ranges are available. Consult Bolzoni Auramo.

Non-standard fork lengths and sections available.

Other load backrest heights available. Consult Bolzoni Auramo.

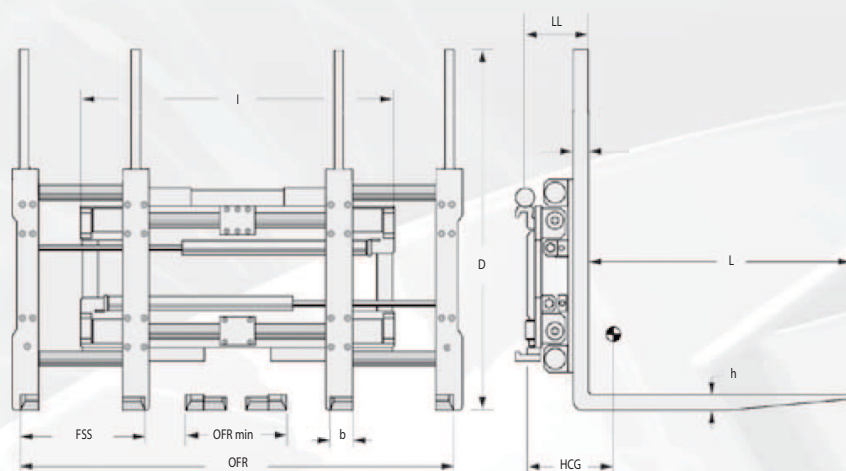
Possibility of model with load extender.

Quick disconnect lower hooks.

Automatic lubrication system.

Attention: these attachment models are designed for load handling on forks only. Not suitable for clamping!

2-4 Multiple Pallet Handler Sideshifting, bar type Model DS-FS



- Bar type design.
- Pallet handler for handling two or four pallets in depth.
- These models offer the possibility to lift pallets on both sides, either two or four at a time.
- Excellent visibility through the body.
- Separate sideshift provides constant sideshift range regardless of the fork opening.
- Incorporated load backrest.
- Synchronized forks movement.
- Bolt-on forks with specially reinforced heel area.
- Forks are hydraulically adjusted with a single lever.

Model	Capacity		Load Centre	Fork Set Spread	Outer Fork Range	Fork Dimensions		Frame Width	Minimum Carriage Width	Height	Weight	Centre of Gravity Horizontal	Effective Thickness	Mounting Class	
	Q kg	BP mm				FSS mm	OFR mm								
DS 10 FS A	1000	1200	550	550	550 - 1930	2350	80x50	1200	980	1350	719	536	207	2	
DS 13 FS B	1300	1200	550	550	550 - 1930	2350	80x50	1200	980	1350	775	514	207	3	
DS 25 FS B	2500	1200	540	540	540 - 1920	2350	80x60	1310	1100	1350	987	505	244	3	
DS 30 FS C	3000	1200	540	540	540 - 2020	2350	80x60	1410	1300	1350	1030	496	244	4	
DS 35 FS C	3500	1200	560	560	560 - 1960	2350	80x60 / 90x55	1420	1500	1350	1325	435	292	4	
DS 45 FS C	4500	1200	560	560	560 - 1960	2350	80x70 / 100x60	1420	1500	1350	1380	460	292	4	
DS 56 FS C	5600	1200	560	560	560 - 1960	2350	80x75 / 100x70	1420	1500	1350	1520	490	324	4	

Notes:

Two hydraulic functions required.
Separate sideshift: Class II & III with 100 + 100 mm;
Class IV 160 + 160 mm.
Class II & III models have interchangeable bolt-on forks.
It is possible to bring the pallet closer, as standard.
Mountings: standard ISO 2328 mounting. For special mountings, consult Bolzoni Auramo.

On request:

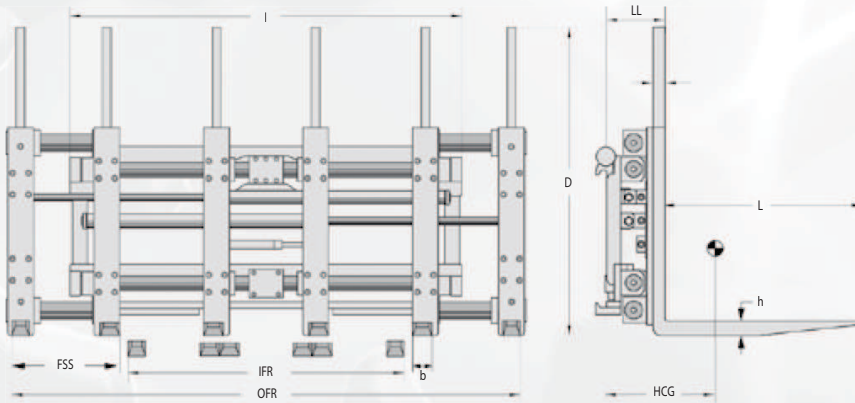
Opening range: special frame widths and fork opening ranges are available. Consult Bolzoni Auramo.
Non-standard fork lengths and sections available.
Other load backrest heights available. Consult Bolzoni Auramo.
Single arm adjustment.
Automatic lubrication system available for models DS 10, DS 13, DS 25, DS 30.

Attention: these attachment models are designed for load handling on forks only. Not suitable for clamping!

2 - 4 - 6 Multiple Pallet Handler

Sideshifting, bar type

Models DS-F6



- Bar type design.
- Pallet handler for handling two, four or six pallets at a time.
- Excellent visibility through the body.
- Built-in sideshift provides constant sideshift.
- Incorporated load backrest.
- Synchronized forks movement.
- Bolt-on forks.
- Forks are hydraulically adjusted with a single lever.

Model	Capacity		Load Centre	Fork Set Spread		Outer Fork Range	Fork Dimensions		Frame Width	Minimum Carriage Width	Height	Weight	Centre of Gravity Horizontal Effective Thickness Mounting Class		
	Q	BP	FSS	OFR		Lxbxh	I	FL	D	W	HCG	LL	ISO		
	kg	mm	mm	mm		mm	mm	mm	mm	kg	mm	mm	2328		
outer-inner															
DS 15 F61 B	1500	1200	500-560	560 - 2340	2350	60x60	1560	1120	1350	975	600	258	3		
DS 15 F62 B	1500	1200	500-560	560 - 2540	2350	60x60	1760	1120	1350	1000	580	258	3		
DS 48 F6 C	4800	1200	760	760 - 3360	2000	80x65 / 90x55	2350	2250	1500	1770	370	285	4		
DS 56 F61 C	5600	1200	560	1300 - 2360	2380	80x70 / 90x60	1700	1600	1500	1830	490	280	4		
DS 56 F62 C	5600	1200	560	1300 - 2860	2380	80x70 / 90x60	2200	1620	1500	1955	475	280	4		

Notes:

Two hydraulic functions required.
 Built-on sideshift: Class III with 100 + 100 mm;
 Class IV 160 + 160 mm.

DS 15 - can handle 6/4/2 Euro pallets (1200 x 800 mm), from the 800 mm side.

DS 48 - can handle 6/4/2 standard pallets (1000 x 1200 mm).

DS 56 F61C - can handle 6/4 Euro pallets (1200 x 800 mm).

DS 56 F62C - can handle 6/4 pallets (1100 x 1070 mm), such as water pallets.

Mountings: standard ISO 2328 mounting. For special mountings, consult Bolzoni Auramo.

On request:

Opening range: special frame widths and fork opening ranges are available. Consult Bolzoni Auramo.
 Non-standard fork lengths and sections available.
 Other load backrest heights available. Consult Bolzoni Auramo.

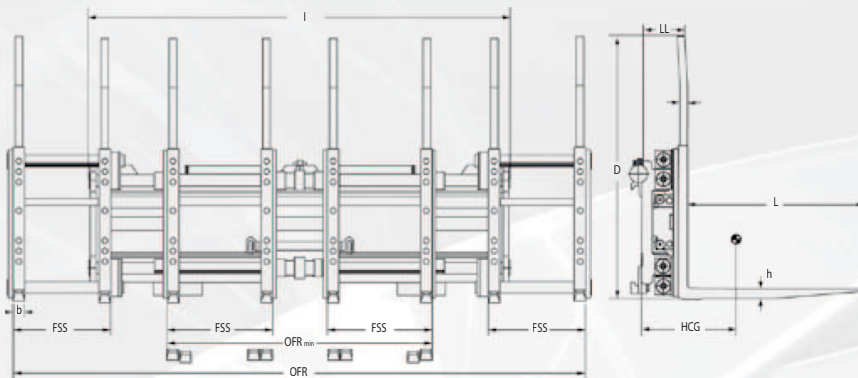
Notes:

Only following models can handle 2 pallets:

- capacity 1500 Kg @ 1200 mm
- capacity 4800 Kg @ 1000 mm

Attention: these attachment models are designed for load handling on forks only. Not suitable for clamping!

2 - 3 - 4 Multiple Pallet Handler Sideshifting, bar type Model DS-F4



- Bar type design.
- Pallet handler for handling two, three or four Europallets at a time, from the 800 mm side.
- Excellent visibility through the body.
- Built-in sideshift provides constant sideshift.
- Incorporated load backrest.
- Synchronized forks movement.
- Bolt-on forks with specially reinforced heel area.
- Forks are hydraulically adjusted by the drivers seat.
- High quality interchangeable bolt-on forks.

4

Model	Capacity		Load Centre	Fork set Spread	Outer Fork Range	Fork Dimensions	Frame Width	Minimum Carriage Width	Height	Weight	Centre of Gravity Horizontal	Effective Thickness	Mounting Class
	Q kg	BP mm		FSS mm outer-inner	OFR mm	Lxbxh mm	I mm	FL mm	D mm	W kg	HCG mm	LL mm	ISO 2328
DS 30 F4 B	3000	600		500 - 540	1360 - 2940	1150x60x50	2150	1750	1350	1050	235	255	3
DS 36 F4 C	3600	600		500 - 540	1360 - 2940	1150x60x50	2250	1640	1350	1230	245	255	4

Notes:

Two hydraulic functions required.
Separate sideshift: 100 + 100 mm.
Mountings: standard ISO 2328 mounting. For special mountings, consult Bolzoni Auramo.

On request:

Opening range: special frame widths and fork opening ranges are available. Consult Bolzoni Auramo.

Non-standard fork lengths and sections available.
Load backrest available. Consult Bolzoni Auramo.

Notes:

Pallets have to be close, without space between them.

Attention: these attachment models are designed for load handling on forks only. Not suitable for clamping!

Oil flow rate recommendations

Model	Oil Flow Rate, Clamp			Oil Flow Rate, Sideshifter		
	Minimum l/min	Recommended l/min	Maximum l/min	Minimum l/min	Recommended l/min	Maximum l/min
1 -2 Pallet Handlers						
DA 18-22-25-28-35	15	25	40	-	-	-
DS 18-22-25-28	15	25	40	4	10	15
DS 35	15	25	40	6	12	20
1-2-3 Pallet Handlers, non-sideshifting						
DA 18-26-30 FT	25	30	35	25	30	35
DA 36-40 FT	35	40	45	35	40	45
1-2-3 Pallet Handlers, sideshifting						
DS 18-26-30 FT	25	30	35	25	30	35
DS 36-40 FT	35	40	45	35	40	45
2-4 Pallet Handlers						
DS 10-13 FS	25	30	35	25	30	35
DS 25-30-35-45-56 FS	35	40	45	35	40	45
2-4-6 Pallet Handlers						
DS 15 F6	35	40	45	35	40	45
DS 48-56 F6	35	40	45	35	40	45
2-3-4 Pallet Handlers						
DS 30 F4	35	40	45	35	40	45
DS 36 F4	45	50	55	45	50	55

Hydraulic functions and hydraulic pressure recommendations

	Model	Clamping Pressure		Distributor Pressure	Sideshifting Pressure		Distributor Pressure	Hydraulic Functions
		Minimum MPa	Maximum MPa	Maximum MPa	Minimum MPa	Maximum MPa	Maximum MPa	
1-2 Pallet Handlers								
DA 18-22-25-28-35		5,0	18,0	23,0	-	-	-	1
DS 18-22-25-28		5,0	18,0	23,0	12,0	22,0	25,0	2
DS 35		5,0	18,0	23,0	12,0	22,0	25,0	2
1-2-3 Pallet Handlers, non-sideshifting								
DA 18-26-30 FT		10,0	12,0	15,0	10,0	12,0	15,0	1
DA 36-40 FT		10,0	12,0	15,0	10,0	12,0	15,0	1
1-2-3 Pallet Handlers, sideshifting								
DS 18-26-30 FT		10,0	12,0	15,0	10,0	12,0	15,0	2
DS 36-40 FT		10,0	12,0	15,0	10,0	12,0	15,0	2
2-4 Pallet Handlers								
DS 10-13 FS		10,0	12,0	15,0	10,0	12,0	15,0	2
DS 25-30-35-45-56 FS		10,0	12,0	15,0	10,0	12,0	15,0	2
2-4-6 Pallet Handlers								
DS 15 F6		10,0	12,0	15,0	10,0	12,0	15,0	2
DS 48-56 F6		10,0	12,0	15,0	10,0	12,0	15,0	2
2-3-4 Pallet Handlers								
DS 30 F4		10,0	12,0	15,0	10,0	12,0	15,0	2
DS 36 F4		10,0	12,0	15,0	10,0	12,0	15,0	2

ISO 2328 lower quick disconnect hooks

the lower quick disconnect hooks can be manually opened and are available for models DA-DS

Model

ISO 2328 2/3