

single  
acting  
front-end  
cylinder

[binotto.com](http://binotto.com)

MF\_B3-RP CYLINDER TYPE



**Binotto**®  
THE TIPPING POWER



SINGLE ACTING FRONT-END CYLINDER / MF\_B3-RP

**CATALOGUE**





**B3** is an exclusive **TECHNOLOGY** of Binotto which sets a new benchmark in tipping hoist performance

A clever and unique design provides a momentary cushion effect at the end of the stroke of each stage.

- Less noise, friction and vibration
- Longer seal and wiper lifespan
- Greater hoist protection and durability
- Enhanced safety, even at high speed
- Greater vehicle efficiency

For more information  
[www.b3cylinder.com](http://www.b3cylinder.com)

## SINGLE ACTING FRONT-END CYLINDER / MF\_B3-RP

### INDEX

<b>Pag. 02</b>	Guidelines	<b>Pag. 06</b>	MF_B3-RP <b>165</b> series
<b>Pag. 03</b>	MF_B3-RP <b>107</b> series	<b>Pag. 08</b>	MF_B3-RP <b>187</b> series
<b>Pag. 04</b>	MF_B3-RP <b>126</b> series	<b>Pag. 09</b>	MF_B3-RP <b>210</b> series
<b>Pag. 05</b>	MF_B3-RP <b>145</b> series	<b>Pag. 10</b>	Other products

#### IMPORTANT

The user, through its own analysis and testing, is solely responsible for making the final selection of the cylinders and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met and that the use presents no health or safety hazards.

Before installation, maintenance, service and use of Binotto cylinders, make sure you have read carefully and understood all documents which are sent together with the products (User Manual and Mounting Instructions).

A digital version of the documents is available in our official website [www.binotto.com](http://www.binotto.com).

In case of service or spare part request, please contact your trusted Binotto sales&service point. A global and update overview of main Binotto official sales&service points is available online [network.binotto.com](http://network.binotto.com).

Even if you are at a considerable distance from the listed points, you should still contact your nearest one or contact your supplier of hydraulic equipment. Most distributors maintain their own network and can advise you of the most convenient for your work.



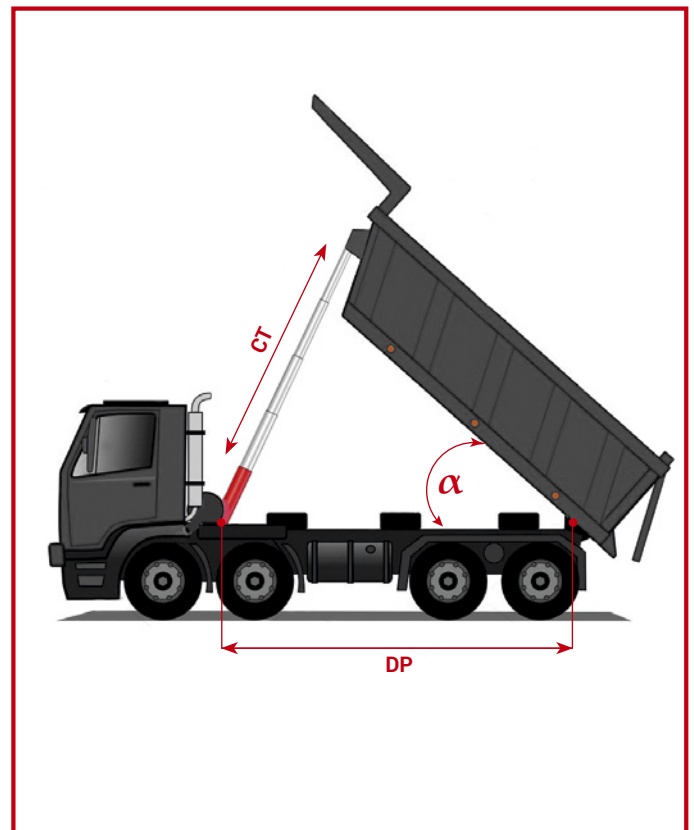
### SINGLE ACTING FRONT-END CYLINDER

### GUIDELINES FOR CYLINDER STROKE SELECTION

Select the hinge distance of your tipping vehicle (**DP**) and choose your target tipping angle (**α**). You will find the suitable stroke of the cylinder.

#### STROKE SELECTION TABLE

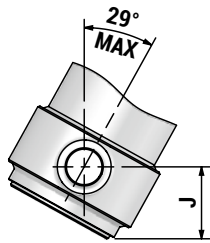
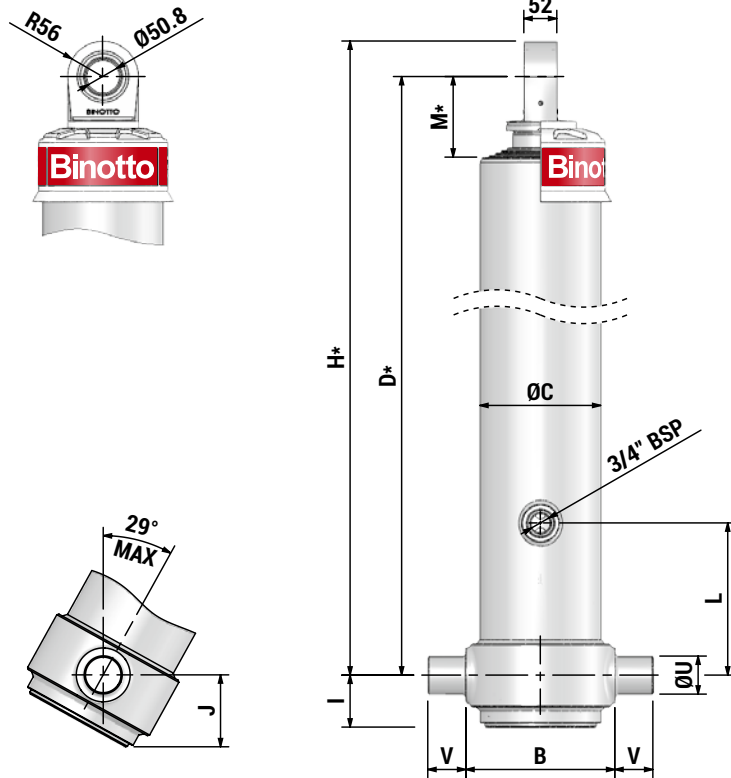
DP [mm]	CT at 45° [mm]	CT at 50° [mm]	CT at 55° [mm]
4000	3060	3380	3700
4200	3215	3550	3885
4400	3370	3720	4070
4600	3520	3890	4255
4800	3675	4060	4440
5000	3825	4225	4625
5200	3980	4395	4810
5400	4135	4565	4995
5600	4285	4735	5180
5800	4435	4900	5365
6000	4590	5070	5550
6200	4745	5240	5735
6400	4900	5410	5920
6600	5050	5580	6105
6800	5205	5750	6290
7000	5360	5915	6475
7200	5510	6085	6660
7400	5660	6255	6845
7600	5815	6425	7030
7800	5970	6590	7215
8000	6120	6760	7400
8200	6275	6930	7585
8400	6430	7100	7770
8600	6580	7270	7955
8800	6735	7440	8140
9000	6885	7605	8325



As a shortcut you can also use this formula:

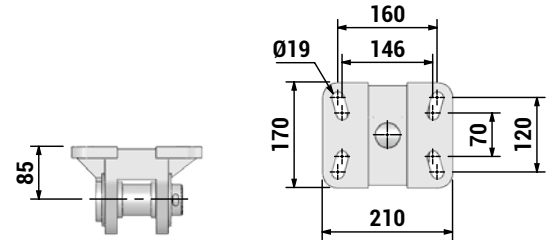
$$CT = \frac{DP \times \alpha}{59}$$

For detailed tipping calculations please refer to:  
<https://spinta.binotto.com>



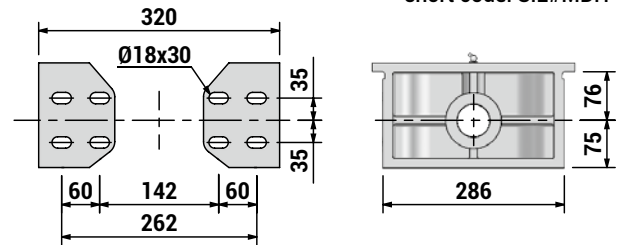
Upper brackets dimensions and chassis drilling template

short code: SSL#PFH



Lower brackets dimensions and chassis drilling template

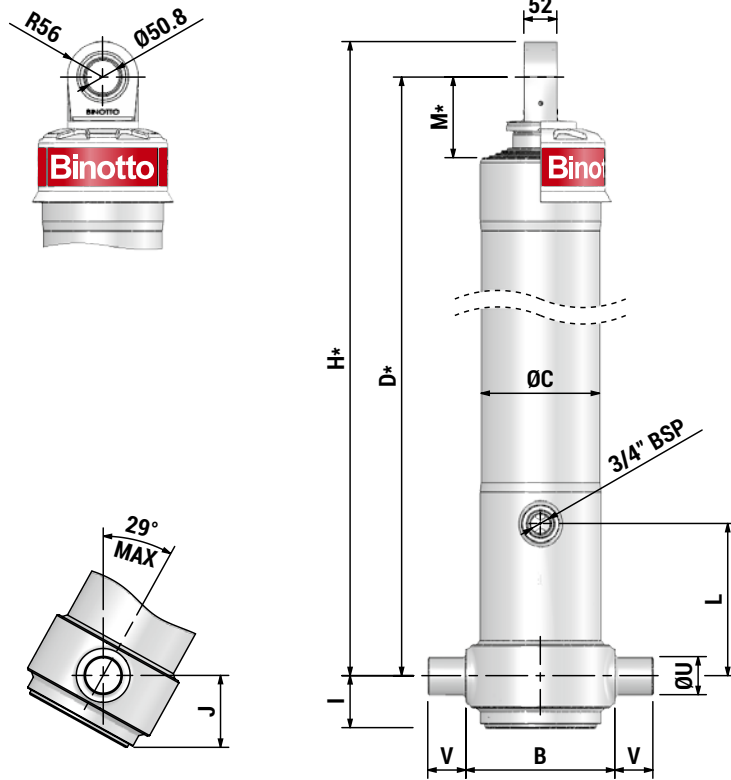
short code: SIL#MDH



\*Including 20 mm pull-out.

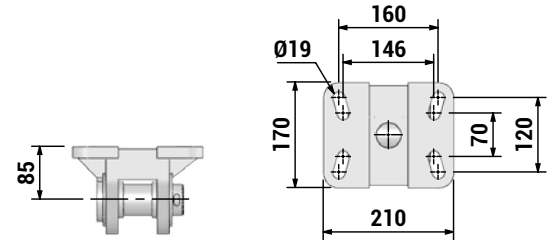
DESCRIPTION	STAGES	STROKE [mm]	B [mm]	Ø C [mm]	D* [mm]	H* [mm]	I [mm]	J [mm]	L [mm]	M [mm]	Ø U [mm]	V [mm]	VOL [L]	WEIGHT [kg]
MF_B3 107/3/2855-RP	3	2855	170	130	1262	1318	55	79	190	120	50	60	17,9	98
MF_B3 107/3/3115-RP	3	3115	170	130	1362	1418	55	79	190	120	50	60	19,5	106
MF_B3 107/3/3265-RP	3	3265	170	130	1412	1468	55	79	190	120	50	60	20,5	109
MF_B3 107/3/3415-RP	3	3415	170	130	1462	1518	55	79	190	120	50	60	21,4	113
MF_B3 107/3/3715-RP	3	3715	170	130	1562	1618	55	79	190	120	50	60	23,3	120

The application of a telescopic cylinder is to lift up tipping bodies, loaded with different materials, in order to discharge this material during its extension. • This cylinder is designed as a lifting device only for loads along the longitudinal axis. • It must not be used as a structural member or be subject to side load. • Hydraulic oil temperature allowable range between -40°C and +80°C. Chromed thickness: minimum 20 µm • For standard version, max. duration of extension is 2 hrs. • Cylinder is painted gray (RAL 7021) with a thickness conforming to the 480 hours neutral salt spray test as per ISO 9227 (ISO 10289, rating 9). • The max tipping weight that can be raised by the cylinder is the body weight plus the max payload. This value, calculated at the max pressure, is a rough indication of the tipping power of the cylinder and must be used as a first criteria for the selection of the cylinder. • The real tipping mass can only be calculated by the design engineer of the dump truck, and must take into account the geometry of the dump body and operating conditions. • Never exceed maximum cylinder load. • Never exceed maximum pressure. • Maximum working pressure 200 bar. • For Pump flow selection, contact the Binotto Technical Department. • Weights shown do not include brackets. • Keep always 2,5 mm clearance between lower brackets and cylinder to avoid friction. The cylinder must always be sold together with Quick Instructions (QI) and User Manual (MU). Make sure they are included and check them carefully before installation, usage, service or repair.



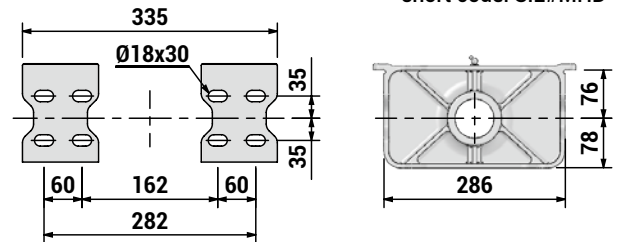
Upper brackets dimensions and chassis drilling template

short code: SSL#PFH



Lower brackets dimensions and chassis drilling template

short code: SIL#MHD

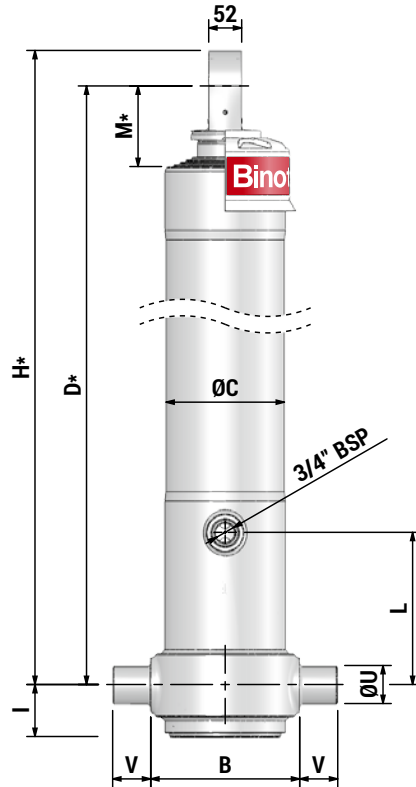
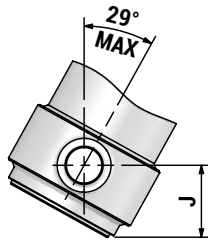


\*Including 20 mm pull-out.

DESCRIPTION	STAGES	STROKE [mm]	B [mm]	Ø C [mm]	D* [mm]	H* [mm]	I [mm]	J [mm]	L [mm]	M [mm]	Ø U [mm]	V [mm]	VOL [L]	WEIGHT [kg]
MF_B3 126/3/3230-RP	3	3230	190	145	1397	1453	72	99	250	120	60	60	29,6	135
MF_B3 126/3/3680-RP	3	3680	190	145	1547	1603	72	99	250	120	60	60	33,8	148
MF_B3 126/3/3830-RP	3	3830	190	145	1597	1653	72	99	250	120	60	60	35,1	152
MF_B3 126/4/4145-RP	4	4145	190	145	1351	1407	72	99	250	124	60	60	32,4	148
MF_B3 126/4/4545-RP	4	4545	190	145	1451	1507	72	99	250	124	60	60	35,5	158
MF_B3 126/4/4945-RP	4	4945	190	145	1551	1607	72	99	250	124	60	60	38,6	167
MF_B3 126/4/5145-RP	4	5145	190	145	1601	1657	72	99	250	124	60	60	40,2	172

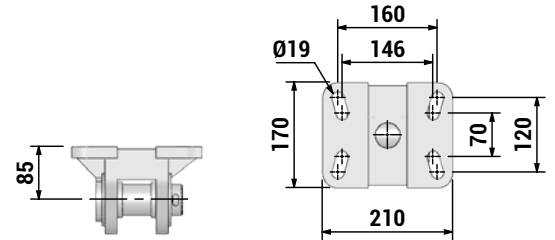
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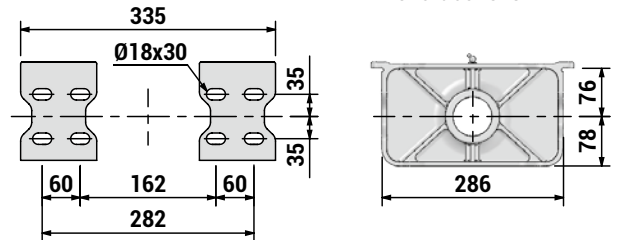
Upper brackets dimensions and chassis drilling template

short code: SSL#PFH



Lower brackets dimensions and chassis drilling template

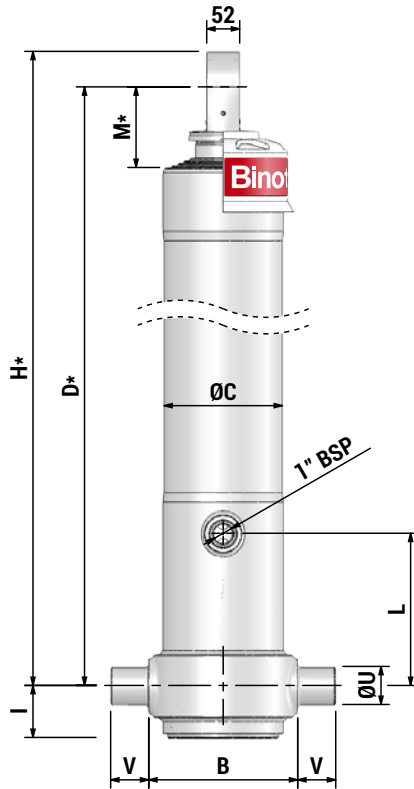
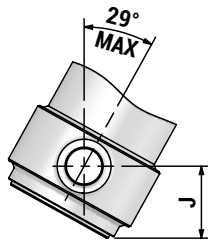
short code: SIL#MHD



\*Including 20 mm pull-out.

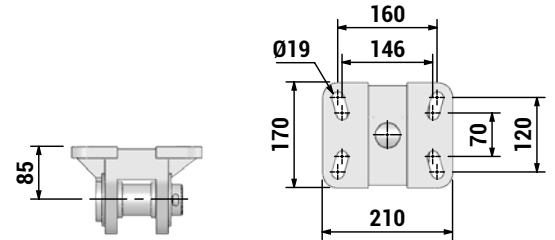
DESCRIPTION	STAGES	STROKE [mm]	B [mm]	Ø C [mm]	D* [mm]	H* [mm]	I [mm]	J [mm]	L [mm]	M [mm]	Ø U [mm]	V [mm]	VOL [L]	WEIGHT [kg]
MF_B3 145/3/3230-RP	3	3230	193	165	1397	1453	72	102	250	120	60	60	40,9	170
MF_B3 145/3/3680-RP	3	3680	193	165	1547	1603	72	102	250	120	60	60	46,6	185
MF_B3 145/3/3830-RP	3	3830	193	165	1597	1653	72	102	250	120	60	60	48,5	190
MF_B3 145/4/4110-RP	4	4110	193	165	1351	1407	72	102	250	124	60	60	45,2	175
MF_B3 145/4/4310-RP	4	4310	193	165	1401	1457	72	102	250	124	60	60	47,4	180
MF_B3 145/4/4510-RP	4	4510	193	165	1451	1507	72	102	250	124	60	60	49,6	186
MF_B3 145/4/4710-RP	4	4710	193	165	1501	1557	72	102	250	124	60	60	51,8	192
MF_B3 145/4/4910-RP	4	4910	193	165	1551	1607	72	102	250	124	60	60	54,1	198
MF_B3 145/4/5110-RP	4	5110	193	165	1601	1657	72	102	250	124	60	60	56,3	203
MF_B3 145/4/5310-RP	4	5310	193	165	1651	1707	72	102	250	124	60	60	58,5	209
MF_B3 145/5/4310-RP	5	4310	193	165	1155	1211	72	102	250	128	60	60	41,2	152
MF_B3 145/5/4750-RP	5	4750	193	165	1255	1311	72	102	250	128	60	60	45,4	163

The application of a telescopic cylinder is to lift up tipping bodies, loaded with different materials, in order to discharge this material during its extension. • This cylinder is designed as a lifting device only for loads along the longitudinal axis. • It must not be used as a structural member or be subject to side load. • Hydraulic oil temperature allowable range between -40°C and +80°C. Chromed thickness: minimum 20 µm • For standard version, max. duration of extension is 2 hrs. • Cylinder is painted gray (RAL 7021) with a thickness conforming to the 480 hours neutral salt spray test as per ISO 9227 (ISO 10289, rating 9). • The max tipping weight that can be raised by the cylinder is the body weight plus the max payload. This value, calculated at the max pressure, is a rough indication of the tipping power of the cylinder and must be used as a first criteria for the selection of the cylinder. • The real tipping mass can only be calculated by the design engineer of the dump truck, and must take into account the geometry of the dump body and operating conditions. • Never exceed maximum cylinder load. • Never exceed maximum pressure. • Maximum working pressure 200 bar. • For Pump flow selection, contact the Binotto Technical Department. • Weights shown do not include brackets. • Keep always 1 mm clearance between lower brackets and cylinder to avoid friction. The cylinder must always be sold together with Quick Instructions (QI) and User Manual (MU). Make sure they are included and check them carefully before installation, usage, service or repair.



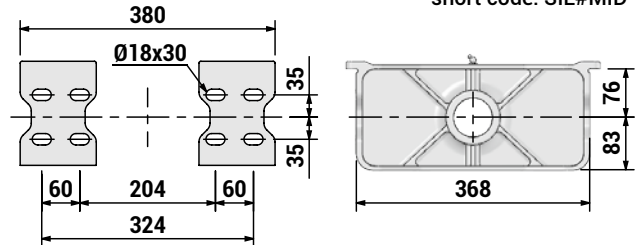
Upper brackets dimensions and chassis drilling template

short code: SSL#PFH



Lower brackets dimensions and chassis drilling template

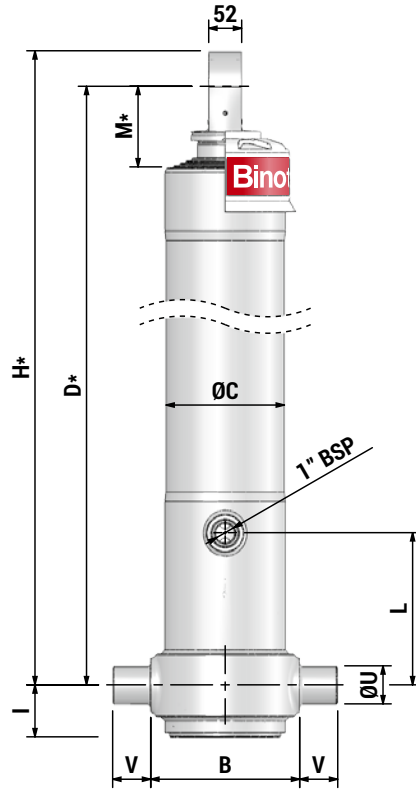
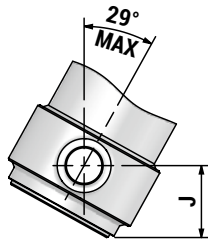
short code: SIL#MID



\*Including 20 mm pull-out.

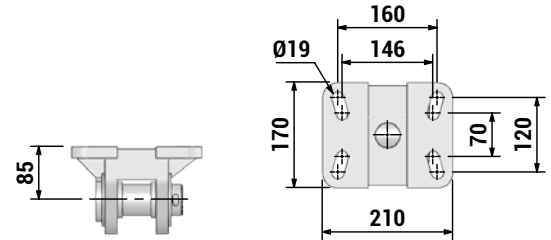
DESCRIPTION	STAGES	STROKE [mm]	B [mm]	Ø C [mm]	D* [mm]	H* [mm]	I [mm]	J [mm]	L [mm]	M [mm]	Ø U [mm]	V [mm]	VOL [L]	WEIGHT [kg]
MF_B3 165/4/4110-RP	4	4110	235	187	1341	1397	82	116	250	124	60	60	61,0	190
MF_B3 165/4/4510-RP	4	4510	235	187	1441	1497	82	116	400	124	60	60	66,9	204
MF_B3 165/4/4710-RP	4	4710	235	187	1491	1547	82	116	400	124	60	60	69,9	210
MF_B3 165/4/4910-RP	4	4910	235	187	1541	1597	82	116	400	124	60	60	72,8	217
MF_B3 165/4/5110-RP	4	5110	235	187	1591	1647	82	116	400	124	60	60	75,8	224
MF_B3 165/4/5310-RP	4	5310	235	187	1641	1697	82	116	400	124	60	60	78,8	231
MF_B3 165/4/7160-RP	4	7160	235	187	2141	2197	82	116	400	124	60	60	106,2	301
MF_B3 165/4/7360-RP	4	7360	235	187	2191	2247	82	116	400	124	60	60	109,2	308
MF_B3 165/5/4735-RP	5	4735	235	187	1245	1301	82	116	400	128	60	60	61,9	194
MF_B3 165/5/5135-RP	5	5135	235	187	1345	1401	82	116	250	128	60	60	67,2	208
MF_B3 165/5/5385-RP	5	5385	235	187	1395	1451	82	116	400	128	60	60	70,5	215

The application of a telescopic cylinder is to lift up tipping bodies, loaded with different materials, in order to discharge this material during its extension. • This cylinder is designed as a lifting device only for loads along the longitudinal axis. • It must not be used as a structural member or be subject to side load. • Hydraulic oil temperature allowable range between -40°C and +80°C. Chromed thickness: minimum 20 µm • For standard version, max. duration of extension is 2 hrs. • Cylinder is painted gray (RAL 7021) with a thickness conforming to the 480 hours neutral salt spray test as per ISO 9227 (ISO 10289, rating 9). • The max tipping weight that can be raised by the cylinder is the body weight plus the max payload. This value, calculated at the max pressure, is a rough indication of the tipping power of the cylinder and must be used as a first criteria for the selection of the cylinder. • The real tipping mass can only be calculated by the design engineer of the dump truck, and must take into account the geometry of the dump body and operating conditions. • Never exceed maximum cylinder load. • Never exceed maximum pressure. • Maximum working pressure 200 bar. • For Pump flow selection, contact the Binotto Technical Department. • Weights shown do not include brackets. • Keep always 1 mm clearance between lower brackets and cylinder to avoid friction. The cylinder must always be sold together with Quick Instructions (QI) and User Manual (MU). Make sure they are included and check them carefully before installation, usage, service or repair.



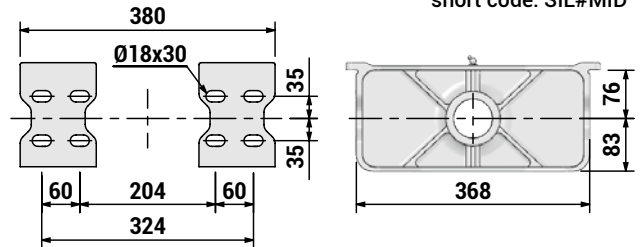
Upper brackets dimensions and chassis drilling template

short code: SSL#PFH



Lower brackets dimensions and chassis drilling template

short code: SIL#MID



\*Including 20 mm pull-out.

DESCRIPTION	STAGES	STROKE [mm]	B [mm]	Ø C [mm]	D* [mm]	H* [mm]	I [mm]	J [mm]	L [mm]	M [mm]	Ø U [mm]	V [mm]	VOL [L]	WEIGHT [kg]
MF_B3 165/5/5635-RP	5	5635	235	187	1445	1501	82	116	400	128	60	60	73,7	222
MF_B3 165/5/5885-RP	5	5885	235	187	1495	1551	82	116	400	128	60	60	77	229
MF_B3 165/5/6135-RP	5	6135	235	187	1545	1601	82	116	400	128	60	60	80,3	235
MF_B3 165/5/6385-RP	5	6385	235	187	1595	1651	82	116	400	128	60	60	83,5	242
MF_B3 165/5/6825-RP	5	6825	235	187	1695	1751	82	116	400	128	60	60	89,3	257
MF_B3 165/5/7075-RP	5	7075	235	187	1745	1801	82	116	400	128	60	60	92,6	265
MF_B3 165/5/7325-RP	5	7325	235	187	1795	1851	82	116	400	128	60	60	95,8	272
MF_B3 165/5/7575-RP	5	7575	235	187	1845	1901	82	116	400	128	60	60	99,1	280
MF_B3 165/5/7825-RP	5	7825	235	187	1895	1951	82	116	400	128	60	60	102,4	287
MF_B3 165/5/8185-RP	5	8185	235	187	1995	2051	82	116	400	128	60	60	107,1	302
MF_B3 165/6/4360-RP	6	4360	235	187	999	1055	82	116	250	132	60	60	50,3	190

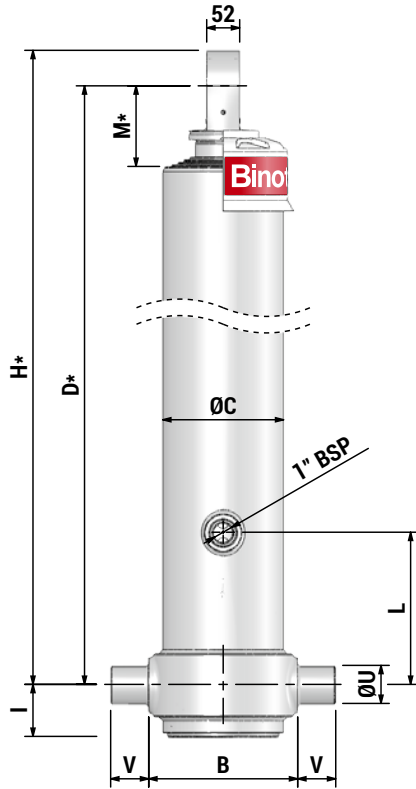
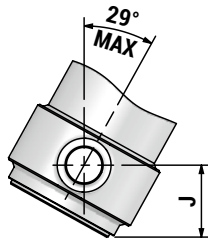
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### SINGLE ACTING FRONT-END CYLINDER

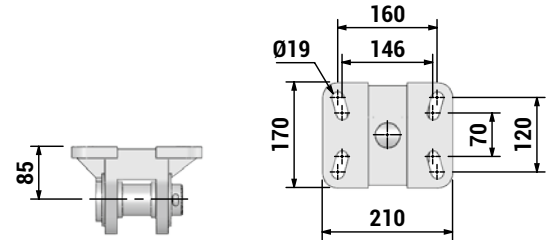
### MF\_B3 - RP (187 SERIES)

International Catalogue • Rev 01.2019 • Subject to change without notice.



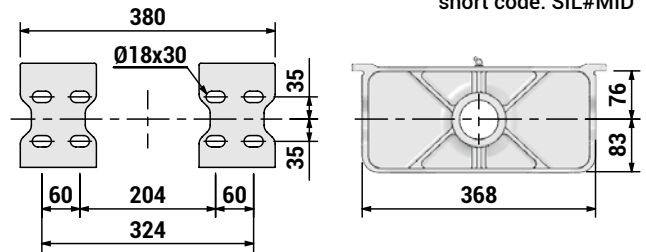
#### Upper brackets dimensions and chassis drilling template

short code: SSL#PFH



#### Lower brackets dimensions and chassis drilling template

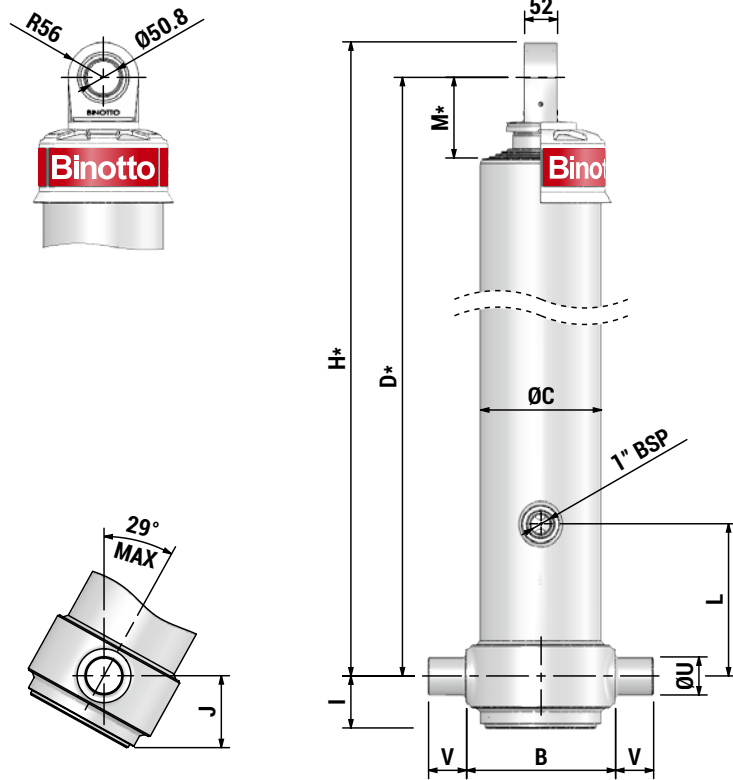
short code: SIL#MID



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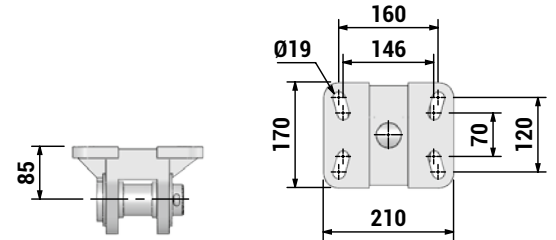
DESCRIPTION	STAGES	STROKE [mm]	B [mm]	Ø C [mm]	D* [mm]	H* [mm]	I [mm]	J [mm]	L [mm]	M [mm]	Ø U [mm]	V [mm]	VOL [L]	WEIGHT [kg]
MF_B3 187/5/5135-RP	5	5135	235	216	1345	1401	82	123	250	128	60	60	89,1	248
MF_B3 187/5/5385-RP	5	5385	235	216	1395	1451	82	123	400	128	60	60	93,5	257
MF_B3 187/5/5635-RP	5	5635	235	216	1445	1501	82	123	400	128	60	60	97,8	268
MF_B3 187/5/5885-RP	5	5885	235	216	1495	1551	82	123	400	128	60	60	102,2	276
MF_B3 187/5/6135-RP	5	6135	235	216	1545	1601	82	123	400	128	60	60	106,5	286
MF_B3 187/5/6385-RP	5	6385	235	216	1595	1651	82	123	400	128	60	60	110,8	295
MF_B3 187/5/6825-RP	5	6825	235	216	1695	1751	82	123	400	128	60	60	118,5	314
MF_B3 187/5/7075-RP	5	7075	235	216	1745	1801	82	123	400	128	60	60	122,8	324
MF_B3 187/5/7325-RP	5	7325	235	216	1795	1851	82	123	400	128	60	60	127,2	334
MF_B3 187/5/7575-RP	5	7575	235	216	1845	1901	82	123	400	128	60	60	131,5	343
MF_B3 187/5/7825-RP	5	7825	235	216	1895	1951	82	123	400	128	60	60	135,8	353
MF_B3 187/5/8185-RP	5	8185	235	216	1995	2051	82	123	400	128	60	60	142,1	362
MF_B3 187/5/8435-RP	5	8435	235	216	2045	2101	82	123	400	128	60	60	146,4	381
MF_B3 187/5/9185-RP	5	9185	235	216	2195	2251	82	123	400	128	60	60	159,5	418
MF_B3 187/6/6765-RP	6	6765	235	216	1449	1505	82	123	400	132	60	60	104,7	275
MF_B3 187/6/7665-RP	6	7665	235	216	1599	1655	82	123	400	132	60	60	118,6	306
MF_B3 187/6/8190-RP	6	8190	235	216	1699	1755	82	123	400	132	60	60	126,8	326
MF_B3 187/6/8490-RP	6	8490	235	216	1749	1805	82	123	400	132	60	60	131,3	337

The application of a telescopic cylinder is to lift up tipping bodies, loaded with different materials, in order to discharge this material during its extension. • This cylinder is designed as a lifting device only for loads along the longitudinal axis. • It must not be used as a structural member or be subject to side load. • Hydraulic oil temperature allowable range between -40°C and +80°C. Chromed thickness: minimum 20 µm • For standard version, max. duration of extension is 2 hrs. • Cylinder is painted gray (RAL 7021) with a thickness conforming to the 480 hours neutral salt spray test as per ISO 9227 (ISO 10289, rating 9). • The max tipping weight that can be raised by the cylinder is the body weight plus the max payload. This value, calculated at the max pressure, is a rough indication of the tipping power of the cylinder and must be used as a first criteria for the selection of the cylinder. • The real tipping mass can only be calculated by the design engineer of the dump truck, and must take into account the geometry of the dump body and operating conditions. • Never exceed maximum cylinder load. • Never exceed maximum pressure. • Maximum working pressure 200 bar. • For Pump flow selection, contact the Binotto Technical Department. • Weights shown do not include brackets. • Keep always 1 mm clearance between lower brackets and cylinder to avoid friction. The cylinder must always be sold together with Quick Instructions (QI) and User Manual (MU). Make sure they are included and check them carefully before installation, usage, service or repair.



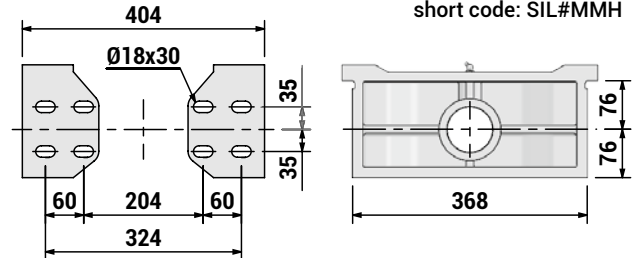
Upper brackets dimensions and chassis drilling template

short code: SSL#PFH



Lower brackets dimensions and chassis drilling template

short code: SIL#MMH



\*Including 20 mm pull-out.

DESCRIPTION	STAGES	STROKE [mm]	B [mm]	Ø C [mm]	D* [mm]	H* [mm]	I [mm]	J [mm]	L [mm]	M [mm]	Ø U [mm]	V [mm]	VOL [L]	WEIGHT [kg]
MF_B3 210/5/6135-RP	5	6135	260	238	1545	1601	82	128	400	128	70	60	138,0	358
MF_B3 210/5/6825-RP	5	6825	260	238	1695	1751	82	128	400	128	70	60	153,5	390
MF_B3 210/5/7075-RP	5	7075	260	238	1745	1801	82	128	400	128	70	60	159,1	401
MF_B3 210/5/7325-RP	5	7325	260	238	1795	1851	82	128	400	128	70	60	164,7	412
MF_B3 210/5/7825-RP	5	7825	260	238	1895	1951	82	128	400	128	70	60	176,0	434
MF_B3 210/5/9185-RP	5	9185	260	238	2195	2251	82	128	400	128	70	60	206,6	500

The application of a telescopic cylinder is to lift up tipping bodies, loaded with different materials, in order to discharge this material during its extension. • This cylinder is designed as a lifting device only for loads along the longitudinal axis. • It must not be used as a structural member or be subject to side load. • Hydraulic oil temperature allowable range between -40°C and +80°C. Chromed thickness: minimum 20 µm • For standard version, max. duration of extension is 2 hrs. • Cylinder is painted gray (RAL 7021) with a thickness conforming to the 480 hours neutral salt spray test as per ISO 9227 (ISO 10289, rating 9). • The max tipping weight that can be raised by the cylinder is the body weight plus the max payload. This value, calculated at the max pressure, is a rough indication of the tipping power of the cylinder and must be used as a first criteria for the selection of the cylinder. • The real tipping mass can only be calculated by the design engineer of the dump truck, and must take into account the geometry of the dump body and operating conditions. • Never exceed maximum cylinder load. • Never exceed maximum pressure. • Maximum working pressure 200 bar. • For Pump flow selection, contact the Binotto Technical Department. • Weights shown do not include brackets. • Keep always 1 mm clearance between lower brackets and cylinder to avoid friction. The cylinder must always be sold together with Quick Instructions (QI) and User Manual (MU). Make sure they are included and check them carefully before installation, usage, service or repair.



OTHER PRODUCTS YOU MAY BE INTERESTED IN:

### COMPLETE HYDRAULIC SYSTEM FOR DUMP TRUCK

#### FRONT-END SINGLE ACTING CYLINDERS



MFC



SHORT COVER



TFC



MF-RO



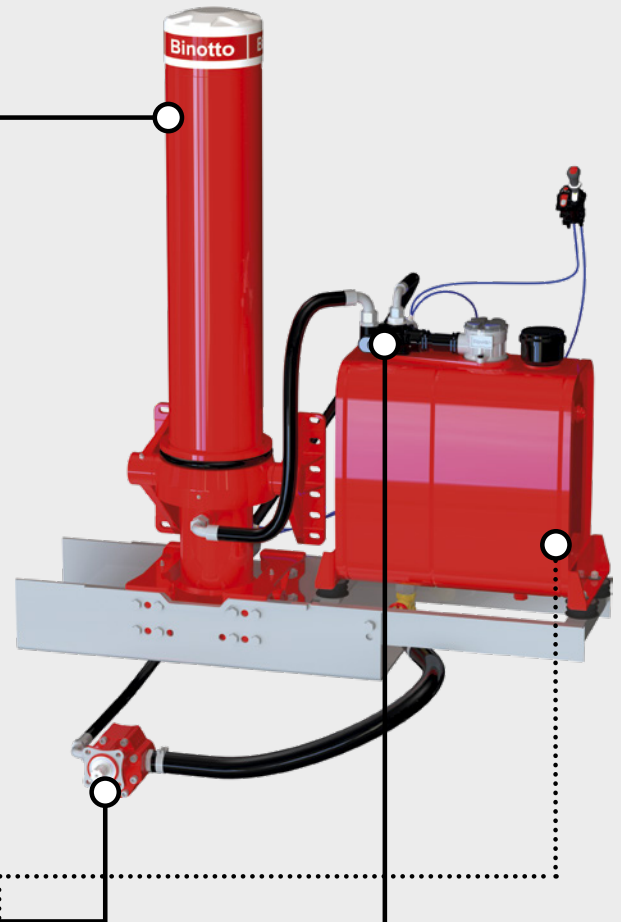
MFR-RP



MFR-SP



MF-HP RR



#### GEAR PUMPS



ISO 4-HOLE



UNI 3-HOLE



BENTAXIS TYPE



STRAIGHT TYPE

#### PISTON PUMPS

#### WET KIT HYDRAULIC OIL TANKS WIDE RANGE



CHASSIS MOUNTED



SIDE MOUNTED



REAR MOUNTED

#### TIPPING VALVES



150 TIPPING VALVE SIDE PORT



150 TIPPING VALVE CARTRIDGE



150 TIPPING VALVE DIRECT



250 TIPPING VALVE (HD APPLICATIONS AND SEMITRAILERS)





### OTHER PRODUCTS YOU MAY BE INTERESTED IN:

#### CAB CONTROL DEVICES



B-POWER



MECHANICAL LEVER



SANDWICH TYPE



SWITCH

#### END OF STROKE VALVES



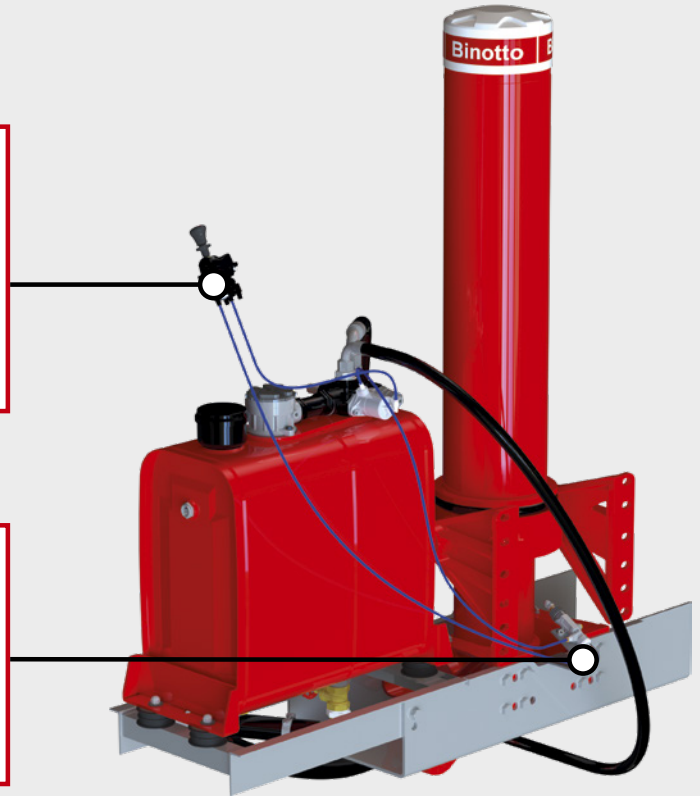
PNEUMATIC END OF STROKE



HEAVY DUTY-PULL TYPE



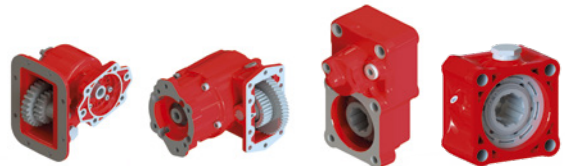
PUSH TYPE



#### OTHER ACCESSORIES



BODY FIX, THE BINOTTO TIPPER BODY LOCK SYSTEM



EXTENSIVE SELECTION OF POWER TAKE-OFFS FOR TRUCKS



QUICK COUPLINGS



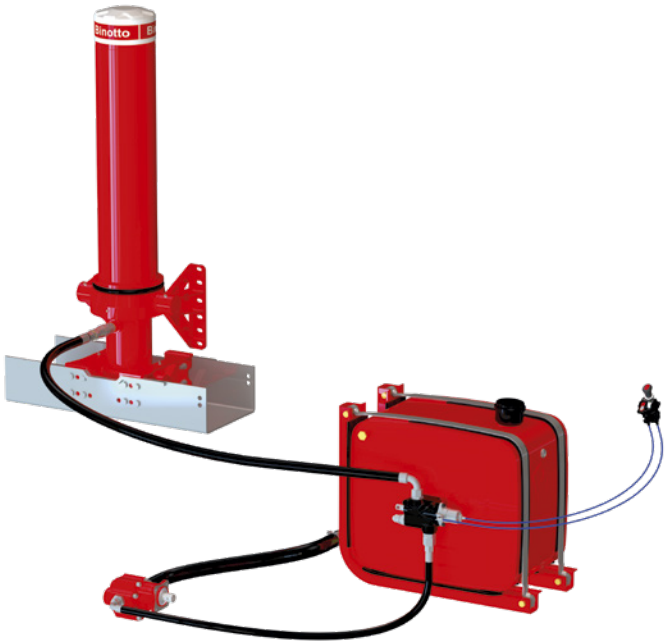
SUCTION, PRESSURE AND HIGH-PRESSURE HOSES AND FITTINGS



OTHER PRODUCTS YOU MAY BE INTERESTED IN:

### BINOTTO HYDRAULICS WET KIT

#### SIDE WET KIT WITH MFC\_B3 CYLINDER

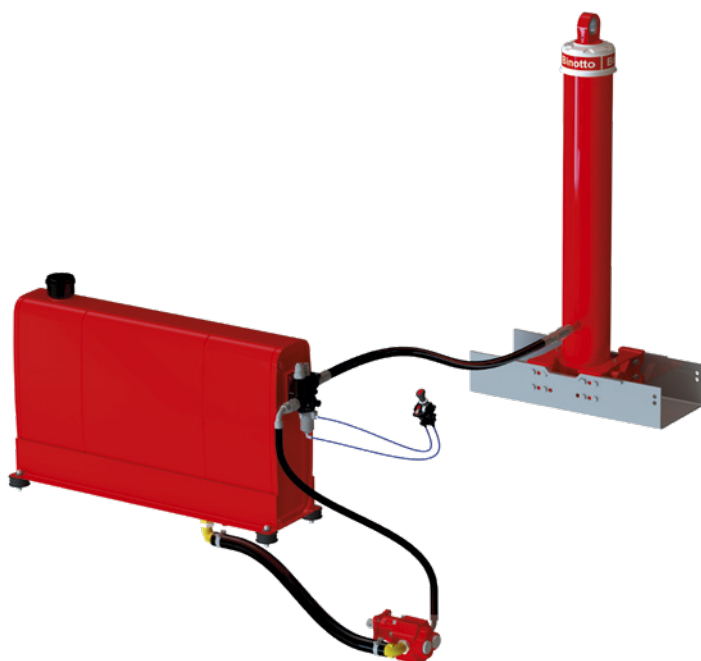


Binotto wet kits are available for all tipping semitrailer applications.

Numerous configuration possibilities to match all customer requests.

All components are specially designed, selected and tested for ensuring maximum performance and compatibility:

#### REAR WET KIT WITH MF\_B3-RP CYLINDER



- Easy to fit
- Light weight
- Endurance
- Low maintenance costs





# Binotto®

THE TIPPING POWER

SINGLE ACTING FRONT-END CYLINDER



International Catalogue • Rev 01.2019

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into the  
future

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