



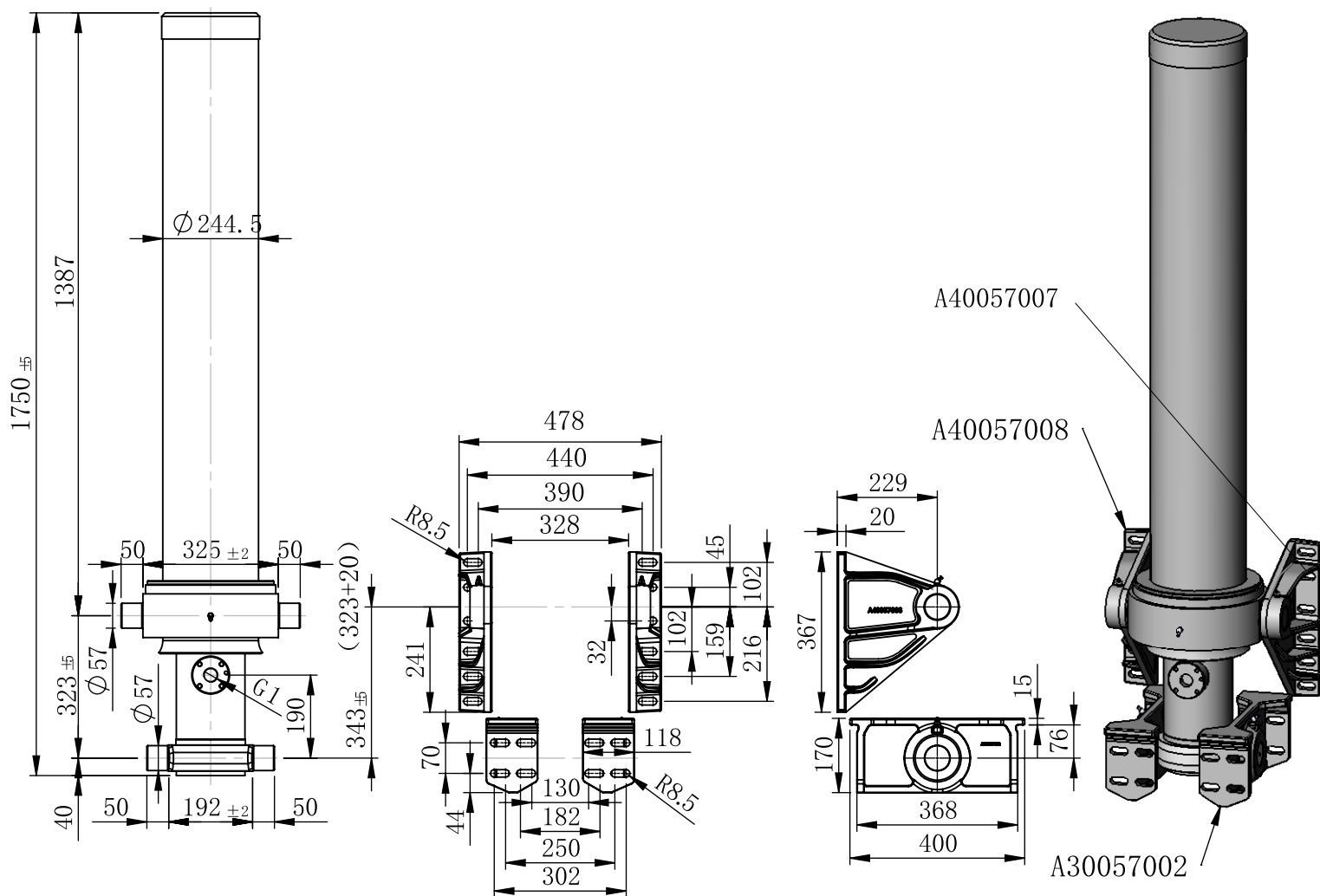
Front end cylinder with outer cover

Part Number

4216251353003W

Tipping weight

32-65 ton



mounting dimension	323 mm + 20 mm min pull out	total stroke	4241 mm	max pressure	220 bar
model:	PFC1625 4241 135 3	code:	4216251353003W	weight:	275kg
					1221 001689

<b>extension</b>	1	2	3	-	-	-	-	-	-	-	<b>number of stages: 3</b>
<b>diameter [mm]</b>	135	116	98	--	--	--	--	--	--	--	
<b>stroke [mm]</b>	1406	1412	1423	--	--	--	--	--	--	--	<b>total: 4241 mm</b>
<b>thrust [kN]</b>	315	232	166	--	--	--	--	--	--	--	<b>max thrust admitted: 173kN</b>
<b>oil [dm³]</b>	20.2	14.9	10.7	--	--	--	--	--	--	--	<b>total: 45.8 dm3</b>

### TECHNICAL NOTES AND SPECIFICATIONS

- The normal application of telescopic cylinder is to lift up tipping bodies, loaded with different materials, and consequently discharge this material whilst the cylinder is extended all along its stroke.
- The body weight plus the max payload are the max tipping weight that can be raised by the cylinder. 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 the maximum thrust.
- Never exceed maximum pressure.
- The cylinder has been designed for loads along the longitudinal axis: the cylinder is a lifting device only and may not be used as structural member or be subject to side load.
- The ordinary use of telescopic cylinder does not require any coating as the telescopic stages are exposed to atmospheric agents only during the tip-up operation. Therefore telescopic cylinders will be supplied without any coating in absence of any specific requirements.
- H.S.PENTA warranty does not apply to any kind of corrosion of coated or non-coated parts. See terms of warranty.
- Maximum extension speed less than 0.2 m/s.
- Hydraulic oil temperature admitted between -40°C and +100°C.
- In case the cylinders must be stored, do not remove the package. Store them in a dry place, not exposed to rain. Do not store the cylinders for more than 6 (six) months.
- Further specifications see mounting instructions, hydraulic oil specification sheet, user & maintenance manual.

REMARKS	[2009.06.25]	[2009.07.09]
2009.06.25	All stage tubes chromed	

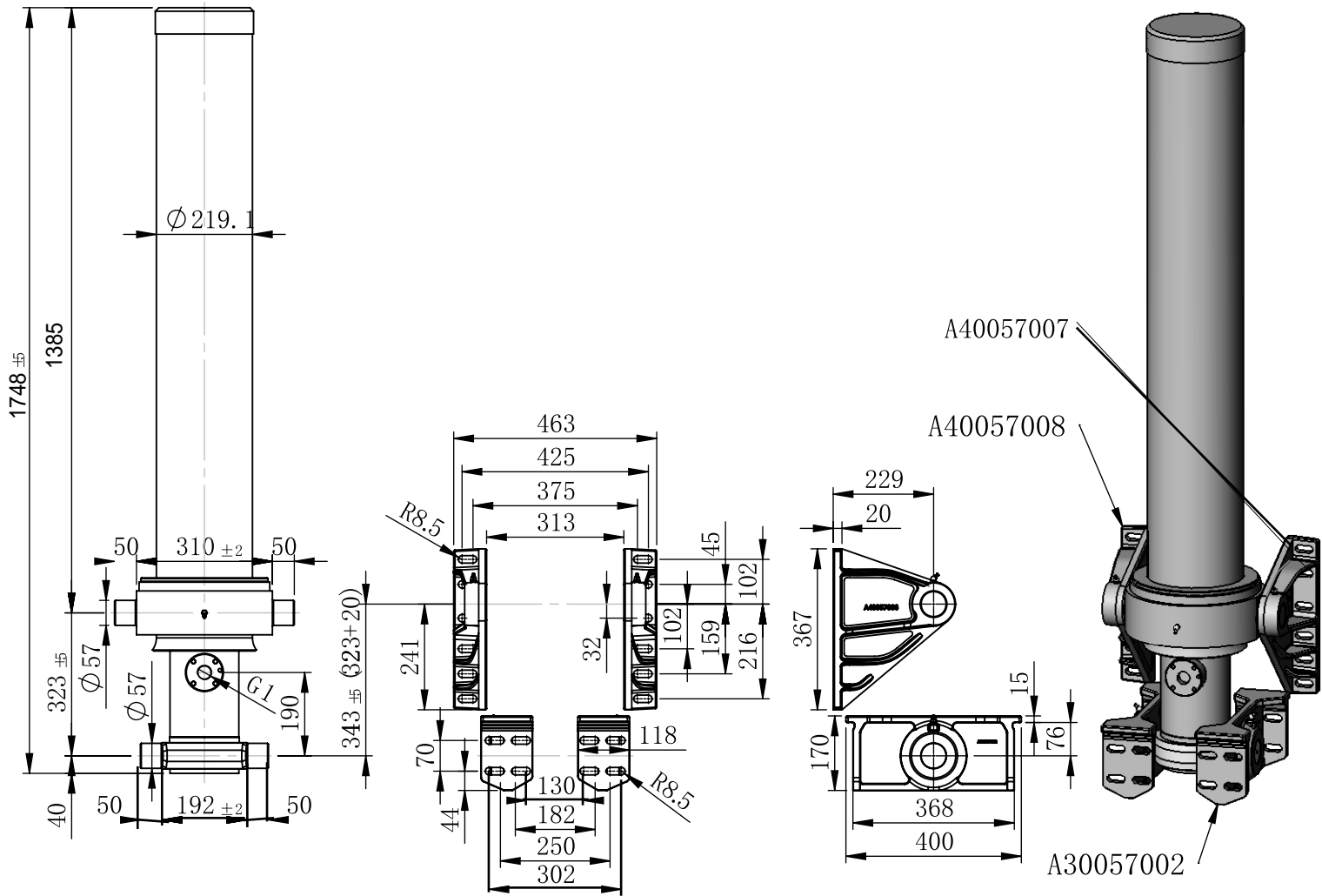
REVISIONS	
2009.06.29	Modificato collare camicia e coppia supporti inferiori
	02
	03
	04



Front end cylinder with outer cover

Part Number 4216251354001D

Tipping weight 26-49 ton



mounting dimension	323 mm + 20 mm min pull out	total stroke	5665 mm	max pressure	220 bar
model:	PFC1625 5665 135 4	code:	4216251354001D	weight:	266 kg

extension	1	2	3	4	-	-	-	-	-	-	-	number of stages: 4
diameter(mm)	135	116	98	79	--	--	--	--	--	--	--	
stroke(mm)	1406	1412	1423	1428	--	--	--	--	--	--	--	total: 5665 mm
thrust(kN) at pmax	315	232	166	108	--	--	--	--	--	--	--	
oil(L)	20.2	14.9	10.7	7.0	--	--	--	--	--	--	--	total: 52.7 L

### TECHNICAL NOTES AND SPECIFICATIONS

The normal application of telescopic cylinder is to lift up tipping bodies, loaded with different materials, and consequently discharge this material whilst the cylinder is extended all along its stroke.

The body weight plus the max payload are the max tipping weight that can be raised by the cylinder. 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 the maximum thrust.

Never exceed maximum pressure.

The cylinder has been designed for loads along the longitudinal axis: the cylinder is a lifting device only and may not be used as structural member or be subject to side load.

Chrome coating type CRN (40 h corrosion test ISO 9227-rating 9 ISO 10289 / minimum thickness: 15mm) on all rod stage and piston rod

H.S.PENTA warranty does not apply to any kind of corrosion of coated or non-coated parts. See terms of warranty.

Maximum extension speed less than 0.2 m/s.

Hydraulic oil temperature admitted between -40°C and +100°C.

In case the cylinders must be stored, do not remove the package. Store them in a dry place, not exposed to rain. Do not store the cylinders for more than 6 (six) months.

Further specifications see mounting instructions, hydraulic oil specification sheet, user & maintenance manual.

Critical buckling load 205 kN fully extended cylinder.

REMARKS [2009.06.25] [2009.07.09]

REVISIONS


2009.06.29 - Modificato collare camicia e coppia supporti inferiori	01
	02
	03
	04



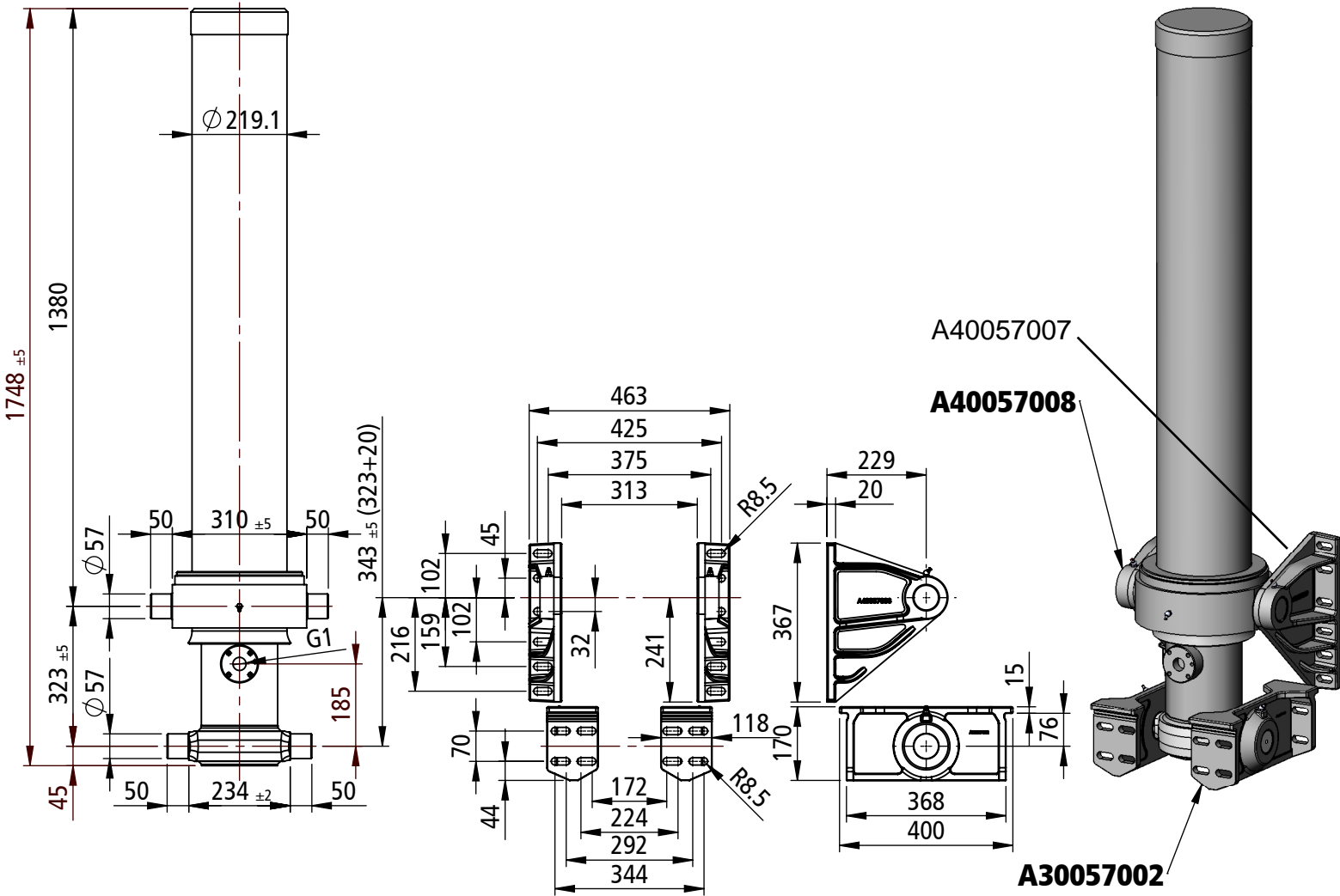
Front end cylinder with outer cover

Part Number

4216251543001D

Tipping weight

43-90 ton



mounting dimension	<b>323 mm + 20 mm min pull out</b>	total stroke	<b>4212 mm</b>	max pressure	<b>220 bar</b>
model: PFC1625 4212 154 3	code: 4216251543001D	weight: 275 kg	1222 000970		

<b>extension</b>	1	2	3	-	-	-	-	-	-	-	-	<b>number of stages: 3</b>
<b>diameter [mm]</b>	154	135	116	--	--	--	--	--	--	--	--	
<b>stroke [mm]</b>	1396	1404	1412	--	--	--	--	--	--	--	--	<b>total: 4212 mm</b>
<b>thrust [kN]</b>	373	286	211	--	--	--	--	--	--	--	--	<b>max thrust admitted: 233 kN</b>
<b>oil [dm³]</b>	26.0	20.1	14.9	--	--	--	--	--	--	--	--	<b>total: 61.0 dm³</b>

### TECHNICAL NOTES AND SPECIFICATIONS

- The normal application of telescopic cylinder is to lift up tipping bodies, loaded with different materials, and consequently discharge this material whilst the cylinder is extended all along its stroke.
- The body weight plus the max payload are the max tipping weight that can be raised by the cylinder. 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 the maximum thrust.
- Never exceed maximum pressure.
- The cylinder has been designed for loads along the longitudinal axis: the cylinder is a lifting device only and may not be used as structural member or be subject to side load.
- Chrome coating type CRN (40 h corrosion test ISO 9227-rating 9 ISO 10289 / minimum thickness: 20 um) on all telescopic stage .
- H.S.PENTA warranty does not apply to any kind of corrosion of coated or non-coated parts. See terms of warranty.
- Maximum extension speed less than 0.2 m/s.
- Hydraulic oil temperature admitted between -40°C and +100°C.
- In case the cylinders must be stored, do not remove the package. Store them in a dry place, not exposed to rain. Do not store the cylinders for more than 6 (six) months.
- Further specifications see mounting instructions, hydraulic oil specification sheet, user & maintenance manual.

REMARKS
All stage chromed

REVISIONS	
	01
	02
	03
	04



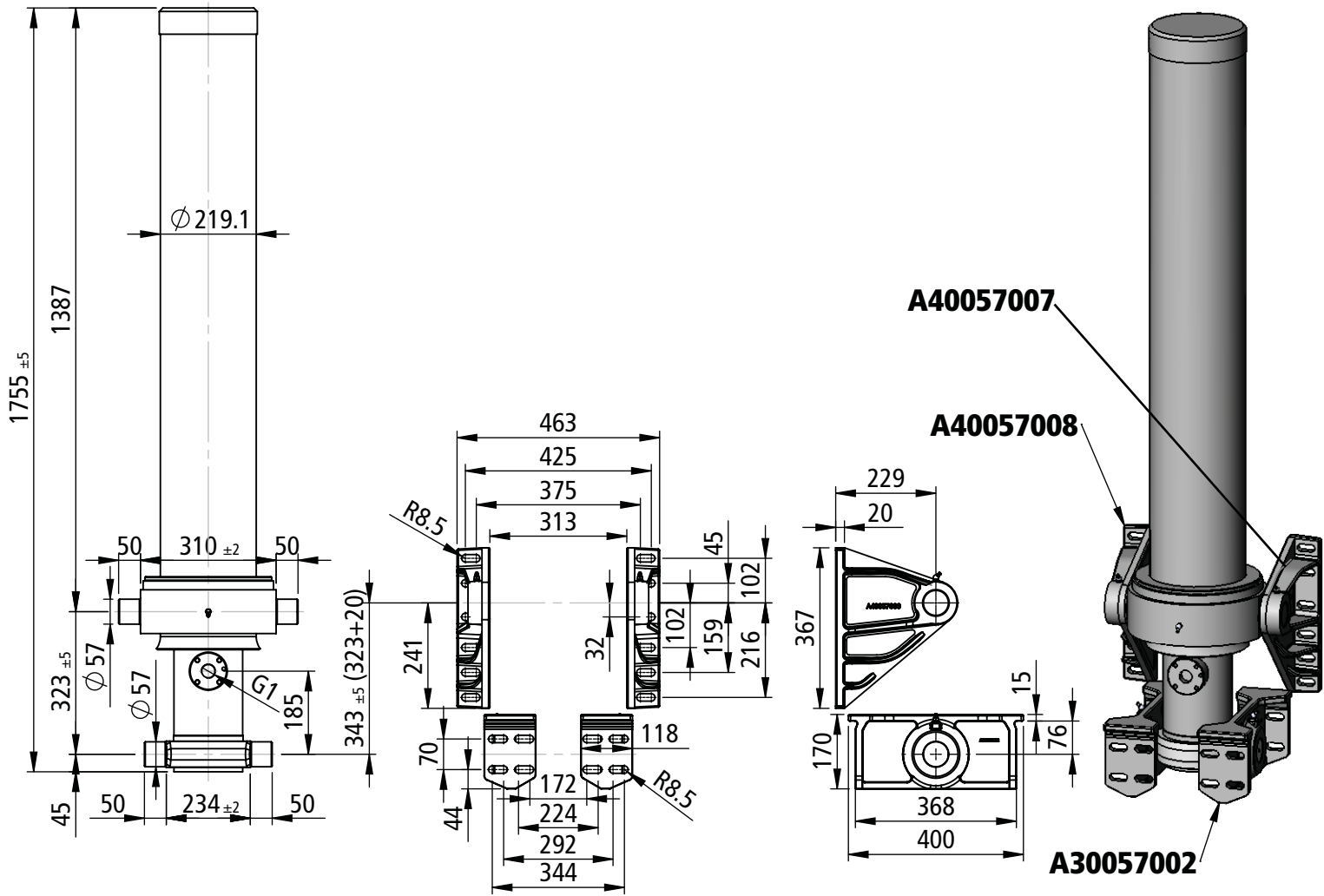
Front end cylinder with outer cover

Part Number

4216251544001D

Tipping weight

37-69 ton



mounting dimension	323 mm + 20 mm min pull out	total stroke	5635 mm	max pressure	220 bar
model: PFC1625 5635 154 4	code: 4216251544001D	weight: 323 kg			

extension	1	2	3	4	-	-	-	-	-	-	-	number of stages: 4
diameter [mm]	154	135	116	98	--	--	--	--	--	--	--	
stroke [mm]	1396	1404	1412	1423	--	--	--	--	--	--	--	total: 5635 mm
thrust [kN]	410	315	233	166	--	--	--	--	--	--	--	max thrust admitted: 199 kN
oil [dm <sup>3</sup> ]	26.0	20.2	14.9	10.7	--	--	--	--	--	--	--	total: 71.8 dm <sup>3</sup>

### TECHNICAL NOTES AND SPECIFICATIONS

- The normal application of telescopic cylinder is to lift up tipping bodies, loaded with different materials, and consequently discharge this material whilst the cylinder is extended all along its stroke.
- The body weight plus the max payload are the max tipping weight that can be raised by the cylinder. 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 the maximum thrust.
- Never exceed maximum pressure.
- The cylinder has been designed for loads along the longitudinal axis: the cylinder is a lifting device only and may not be used as structural member or be subject to side load.
- The ordinary use of telescopic cylinder does not require any coating as the telescopic stages are exposed to atmospheric agents only during the tip-up operation. Therefore telescopic cylinders will be supplied without any coating in absence of any specific requirements.
- H.S.PENTA warranty does not apply to any kind of corrosion of coated or non-coated parts. See terms of warranty.
- Maximum extension speed less than 0.2 m/s.
- Hydraulic oil temperature admitted between -40°C and +100°C.
- In case the cylinders must be stored, do not remove the package. Store them in a dry place, not exposed to rain. Do not store the cylinders for more than 6 (six) months.
- Further specifications see mounting instructions, hydraulic oil specification sheet, user & maintenance manual.

REMARKS	[2009.06.25]	[2009.07.09]

REVISIONS	
	01
	02
	03
	04