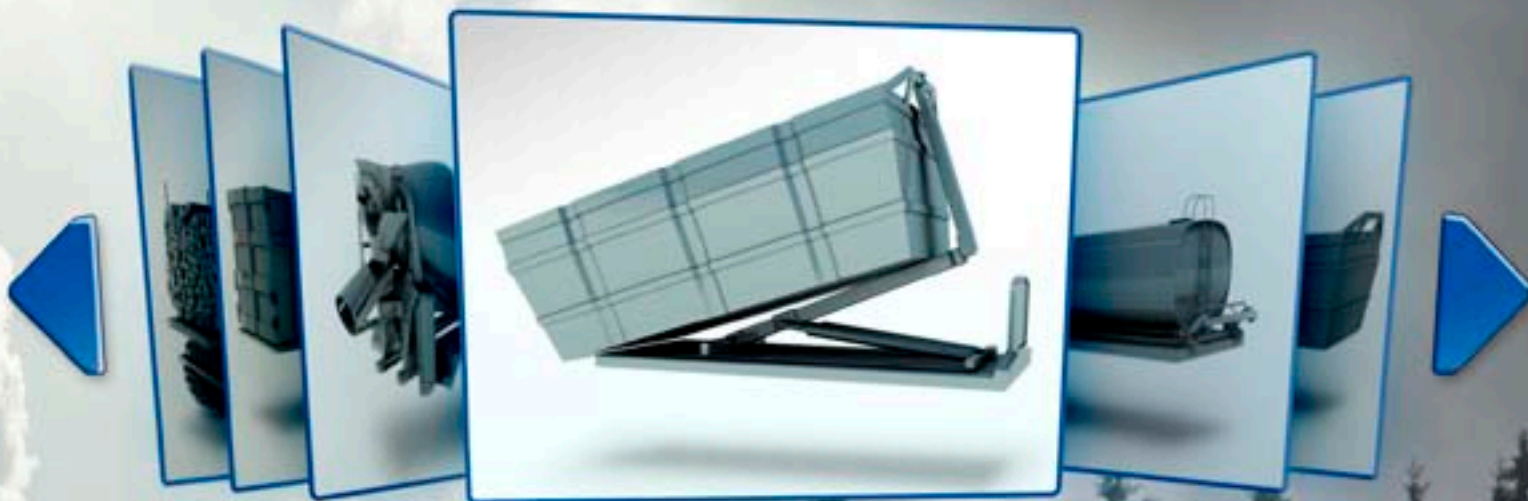


VOLVO ARTICULATED HAULERS

# HAULER CHASSIS



# ATTACH AND GO.

Handle your workload with Volvo's hauler chassis designed for ultimate performance, flexibility and versatility. This machine is the perfect solution for all your transport needs; it can be easily adapted to various superstructures for a wide range of applications across difficult terrains. Let Volvo give you more!

## Articulated steering

Unique self-compensating, hydro-mechanical steering system provides directional steering stability, steering force and maneuverability for ease of operation, increased safety and productivity – even in the toughest of operating conditions. The rotating hitch, with permanent greased tapered roller bearings, eliminates frame twist for improved off-road mobility.

## Off-road performance

Heavy-duty frames for off-road operations ensure maximum durability. Performance is enhanced with large, wide tires guaranteeing low ground pressure. 'Dog clutch' designed differential locks with 100% locking capability and a no-slip, no-wear design reduces operating costs. Three-point suspension provides excellent independent wheel movement.



## Perfectly matched Volvo components

Powerful Volvo diesel engine delivers high torque at low rpm for superior fuel efficiency. Volvo Powertronic full automatic planetary transmission, with lockup function, provides accurate and smooth gear shifting for productive operation. The in-line design of the dropbox ensures high ground clearance, machine stability and low power losses.

## Impressive rimpull

Reliable and expertly designed Volvo components are well matched in the drivetrain which has been specifically developed for heavy duty applications. Functioning together they ensure high rimpull, lower power losses and a long service life for reduced operating costs and environmental impact.



#### **Hauler chassis transport solutions**

Volvo's hauler chassis offers the opportunity to convert the proven articulated hauler concept for a range of uses, limited only by the imagination and physical laws. With support from local Volvo dealers and body builder companies, customers can turn this standard product into their ideal transport solution for maneuverability, productivity and profitability.

# SUPER SUPERSTRUCTURES.



## Superstructures

Your local Volvo dealer, together with a body builder company, can supply you with a hauler chassis fitted with a superstructure to meet your needs. These versatile vehicles can easily be rebuilt back to the original standard articulated hauler, increasing machine resale value.

The Volvo hauler chassis gives you more flexibility and versatility. It is part of a modular system and forms a platform for superstructures which convert the machine into several special purpose vehicles designed to fulfil your specific needs in the toughest operating conditions.

#### Hauler chassis compatibility

Volvo's hauler chassis features specific optional equipment as well as electrical and hydraulic interfaces to fit various superstructures. Get more uptime, productivity and profitability from quick and easy to attach superstructures.



#### Body Builder Instructions portal (BBI)

This key web tool supports the creation of hauler chassis transport solutions. It provides drawings, specifications and other technical information ensuring the machine performs safely, efficiently and economically – increasing uptime and profitability.



#### Bolt-on rear frame extensions

Achieve ultimate flexibility with the rear frame extension, available in two lengths: 1.2 m / 3'11" and 1.7 m / 5'7". Bolt-on capability allows the machine to be converted easily to a standard articulated hauler ensuring flexibility and higher resale value.

# ENDLESS OPPORTUNITIES.

Handle your workload in any application with Volvo's versatile hauler chassis. Fitted with one of many superstructures these smart machines will work hard to get the job done. Discover below eight successful applications and contact your local Volvo dealer to create your own efficient solution.

## Fifth wheel

A durable fifth wheel is mounted on the hauler chassis rear frame, allowing it to pull different types of trailers. For example, in the oil and gas industries this enables the transportation of pipes and heavy equipment on trailers in rough terrain. In forestry it allows for transporting of full length and cut-to length trees on trailers and pole trailers.



## Hook lift

A hook lift system is mounted on the hauler chassis to enable a variety of haulage uses from waste handling on landfill sites, to material transporting in steel mills, from industrial applications to loading/unloading operations in harbours and train stations.



## Platform

A flat platform can be used for off-road transportation of heavy and large objects. For example, in construction segment, a platform is used to move crawler excavators, dozers, tunnelling machines and service equipment.

## Water tank

Used, for example, to dampen down dusty areas on a construction sites, preparing the surface for road building, or in a quarries. Other common uses include dampening roads before sweeping to minimize dust and compressing landfills.

### Timber hauler

A special platform, stakes and protection grid are mounted on the rear frame of the hauler chassis to allow cut to length trees to be secured and transported off-road in the forestry industry.



### Container hauler

A special frame kit is mounted on the hauler chassis allowing secure transport and tipping the standard ISO containers. Typical jobsites: recycling and waste management facilities, harbours, train stations and goods terminals.



### Concrete mixer

The concrete mixer is mounted on the hauler chassis rear frame, allowing mixing and transporting concrete at heavy infrastructure and underground construction jobsites.



### Ejector body

The purpose-built ejector body enables horizontal unloading which is a key benefit when working in areas with reduced overhead clearance. It excels at precisely spreading material 'on-the-go' in rough terrain and soft ground conditions, ensuring productive and safe operation.

# BUILT TO TRANSPORT YOUR WORKLOAD.

## Excellent operator environment

Spacious, comfortable cab with centrally positioned operator station, excellent visibility and ergonomic controls for safe, highly productive operation. Meets ROPS / FOPS safety standards.

## Service and maintenance

90 degree tilting hood and swing down front grill, with integrated steps, act as a service platform. All grease points and remote mounted drains are accessible from ground level or non-slip platforms. No daily or weekly greasing.

## Powerful hydraulics

Efficient load-sensing hydraulic system. Variable displacement pumps consume power only when required. Various hydraulic interfaces available for specific superstructures.



## Transport solutions

Volvo's hauler chassis is a versatile platform offering the opportunity to convert the proven articulated hauler concept for a range of applications.

## Articulated steering

Unique self-compensating, hydro-mechanical steering system provides directional stability, steering force and maneuverability for ease of operation, increased safety and productivity.

## Rimpull and traction

High rimpull is ensured through well matched, reliable and expertly designed Volvo components.





### Superstructures

Your local Volvo dealer, together with a body builder company, will deliver a hauler chassis fitted with a superstructure to meet your needs.

### Durable frames

Heavy-duty front and rear frames designed for severe-road operations and long service life.



### Rear frame extensions

Achieve ultimate flexibility with the bolted rear frame extension, available in two lengths: 1.2 m / 3'11" and 1.7 m / 5'7".



### Automatic Traction Control

ATC system provides automatic engagement and disengagement of 6x6 drive, simplifying operation, reducing fuel consumption and prolonging tire life.

### Tires for low ground pressure

Large wide tires excel in all kinds of applications and provide excellent terrain mobility as well as operator comfort.



### Web-based portal

This key web tool provides drawings, specifications and other technical information to support the integration of superstructures.

# HAVE IT YOUR WAY.

Volvo offers its customers the opportunity to customize the hauler chassis to meet their specific needs. Whether you are working in dusty conditions and require an additional engine air pre-cleaner to maintain engine performance, or you want to build a hooklift for long loads – we've got the right option.

## Rear frame extension

Durable bolt-on rear frame extension modules in 1.2 m / 3'11" and 1.7 m / 5'7" allow the machine to be extended for long containers and other loads – ensuring flexibility and increasing resale value as it is easily converted back to a standard articulated hauler.

## Auxiliary hydraulics

In addition to the standard machine hydraulics, auxiliary open or closed center system can be mounted. The hydraulic interface for superstructures is a block, located on the front part of the rear frame. It makes easy to connect without any modifications various external equipment.

## Rear windshield washer and wiper

Wiper and washer to keep the cab's rear window clear for improved visibility, work efficiency and safety. Designed specifically for hauler chassis applications.



## High engine idle speed

Increases the engine's idle speed. Used when power consuming equipment is mounted. Also facilitates faster engine warm-up at cold ambient temperature.

## Trailer brake valve

The optional converting valve enables the adaption from the hauler chassis fully hydraulic brake system to the trailer air brake system.

## Low profile tires

Wide, 65% profile tires ensure excellent off-road performance and operator comfort. They excel in applications demanding lower ground pressure, improved flotation and stability.

### Additional engine air pre-cleaners

An additional pre-cleaner is recommended for dusty operating conditions to maintain engine performance, minimize machine downtime and maintenance costs. An extra cyclone or high capacity oil-bath pre-cleaner catches the debris before the standard air filter.



### Automatic Climate Control (ACC)

The electronically controlled high-capacity heating and ventilation system provides excellent comfort, increasing productivity. The operator determines working environment in the cab by setting the preferred temperature.



### Electrical engine hood opener

This option allows to access the engine compartment easier and faster.

The electrically operated pump raises and lowers the hood, improving serviceability.



### Anti-theft system

Protect your machine from unauthorised use with Volvo's anti-theft system. A four digit pin code must be entered via the operator communication system to start the engine.



### Electric engine heater

Engine block coolant immersion heater facilitates starting in cold conditions, reducing wear of the engine, fuel consumption and exhaust emissions.



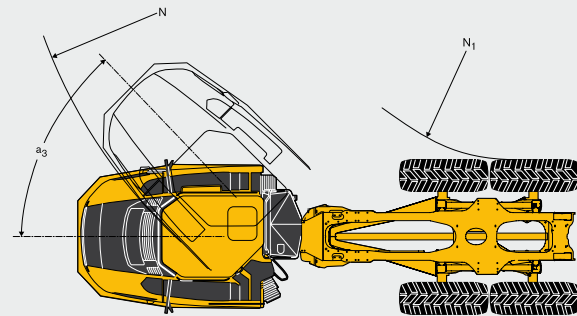
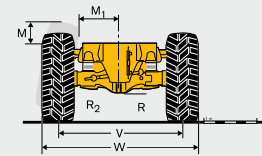
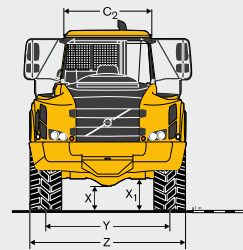
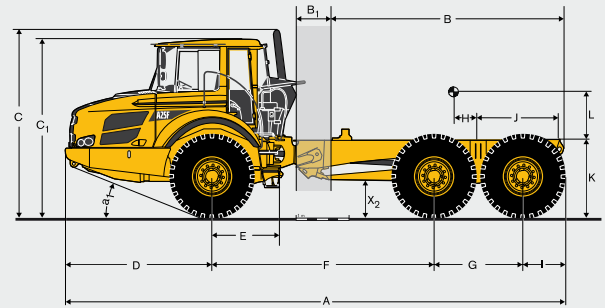
### Engine auto shut down

The engine shuts down automatically after 15 minutes of idle time which reduces fuel consumption and environmental impact.

# SPECIFICATIONS.

## Dimensions

Pos	A25F					
	HC42 Chassis		HC54 Chassis		HC59 Chassis	
	Standard Chassis		incl. 1.2 m / 3'11" extension		incl. 1.7 m / 5'7" extension	
	mm	ft in	mm	ft in	mm	ft in
A	9 410	30'10"	10 600	34'9"	11 107	36'5"
B	4 435	14'7"	5 635	18'6"	6 135	20'2"
B <sub>1</sub>	4 335	14'3"	5 535	18'2"	6 035	19'10"
C	3 451	11'4"	3 451	11'4"	3 451	11'4"
C <sub>1</sub>	3 318	10'11"	3 318	10'11"	3 318	10'11"
C <sub>2</sub>	1 772	5'10"	1 772	5'10"	1 772	5'10"
D	2 763	9'1"	2 763	9'1"	2 763	9'1"
E	1 209	4'0"	1 209	4'0"	1 209	4'0"
F	4 175	13'8"	5 375	17'8"	5 875	19'3"
G	1 670	5'6"	1 670	5'6"	1 670	5'6"
H	431	1'5"	539	1'9"	438	1'5"
I	609	2'0"	609	2'0"	609	2'0"
J	1 444	4'9"	1 444	4'9"	1 444	4'9"
K	1 400	4'7"	1 400	4'7"	1 400	4'7"
L	940	3'1"	940	3'1"	940	3'1"
M	365	1'2"	365	1'2"	365	1'2"
M <sub>1</sub>	720	2'4"	720	2'4"	720	2'4"
N	8 091	26'7"	9 731	31'11"	10 436	34'3"
N <sub>1</sub>	4 065	13'4"	5 264	17'3"	5 762	18'11"
R	513	1'8"	513	1'8"	513	1'8"
R <sub>1</sub>	629	2'1"	629	2'1"	629	2'1"
V	2 258	7'5"	2 258	7'5"	2 258	7'5"
W	2 859	9'5"	2 859	9'5"	2 859	9'5"
X	458	1'6"	458	1'6"	458	1'6"
X <sub>1</sub>	586	1'11"	586	1'11"	586	1'11"
X <sub>2</sub>	659	2'2"	659	2'2"	659	2'2"
Y	2 258	7'5"	2 258	7'5"	2 258	7'5"
Z	2 859	9'5"	2 859	9'5"	2 859	9'5"
o	o	o	o	o	o	o
a <sub>1</sub>	23.5	23.5	23.5	23.5	23.5	23.5
a <sub>3</sub>	45	45	45	45	45	45



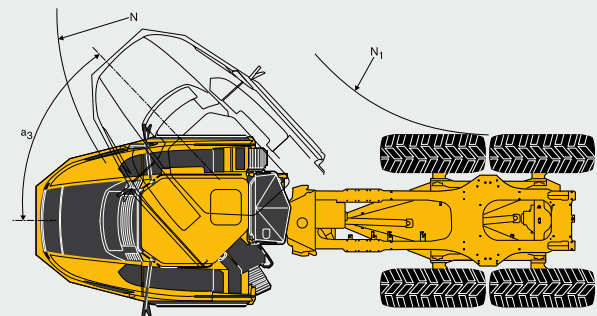
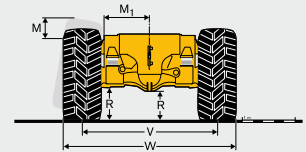
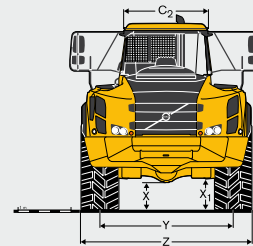
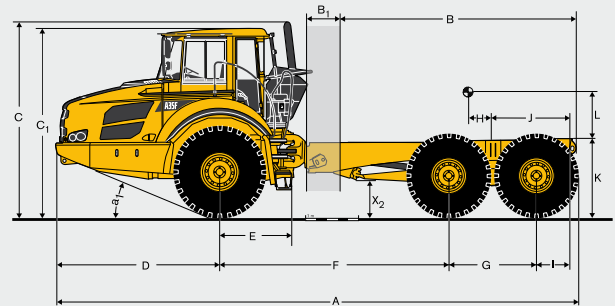
## A25F with 23.5R25 tires

### Total weight

	A25F					
	HC42 Chassis		HC54 Chassis		HC59 Chassis	
	Standard Chassis		incl. 1.2 m / 3'11" extension		incl. 1.7 m / 5'7" extension	
	kg	lb	kg	lb	kg	lb
Chassis weight (excl. superstructure)						
Front	12 143	26,771	12 244	26,993	12 257	27,022
Rear	5 804	12,796	6 258	13,797	6 407	14,125
Total	17 947	39,566	18 502	40,790	18 664	41,147
Payload incl. superstructure	27 953	61,626	27 398	60,402	27 236	60,045
Total weight (incl. superstructure and payload)						
Front	14 550	32,077	14 550	32,077	14 550	32,077
Rear	31 350	69,115	31 350	69,115	31 350	69,115
Total	45 900	101,192	45 900	101,192	45 900	101,192

## Dimensions

Pos	A30F					
	HC42 Chassis		HC54 Chassis		HC59 Chassis	
	Standard Chassis		incl. 1.2 m / 3'11" extension		incl. 1.7 m / 5'7" extension	
	mm	ft in	mm	ft in	mm	ft in
A	9 410	30'10"	10 600	34'9"	11 107	36'5"
B	4 435	14'7"	5 635	18'6"	6 135	20'2"
B <sub>1</sub>	4 335	14'3"	5 535	18'2"	6 035	19'10"
C	3 451	11'4"	3 451	11'4"	3 451	11'4"
C <sub>1</sub>	3 318	10'11"	3 318	10'11"	3 318	10'11"
C <sub>2</sub>	1 772	5'10"	1 772	5'10"	1 772	5'10"
D	2 762	9'1"	2 762	9'1"	2 762	9'1"
E	1 209	4'0"	1 209	4'0"	1 209	4'0"
F	4 175	13'8"	5 375	17'8"	5 875	19'3"
G	1 670	5'6"	1 670	5'6"	1 670	5'6"
H	455	1'6"	557	1'10"	466	1'6"
I	608	2'0"	608	2'0"	608	2'0"
J	1 444	4'9"	1 444	4'9"	1 444	4'9"
K	1 400	4'7"	1 400	4'7"	1 400	4'7"
L	1 005	3'4"	1 005	3'4"	1 005	3'4"
M	380	1'3"	380	1'3"	380	1'3"
M <sub>1</sub>	615	2'0"	615	2'0"	615	2'0"
N	8 092	26'7"	9 771	32'1"	10 500	34'5"
N <sub>1</sub>	4 023	13'2"	5 240	17'2"	5 740	18'10"
R	514	1'8"	514	1'8"	514	1'8"
R <sub>1</sub>	630	2'1"	630	2'1"	630	2'1"
V	2 216	7'3"	2 216	7'3"	2 216	7'3"
W	2 941	9'8"	2 941	9'8"	2 941	9'8"
X	456	1'6"	456	1'6"	456	1'6"
X <sub>1</sub>	585	1'11"	585	1'11"	585	1'11"
X <sub>2</sub>	659	2'2"	659	2'2"	659	2'2"
Y	2 216	7'3"	2 216	7'3"	2 216	7'3"
Z	2 941	9'8"	2 941	9'8"	2 941	9'8"
o	o	o	o	o	o	o
a <sub>1</sub>	23.5	23.5	23.5	23.5	23.5	23.5
a <sub>3</sub>	45	45	45	45	45	45



## A30F with 750/65R25 tires

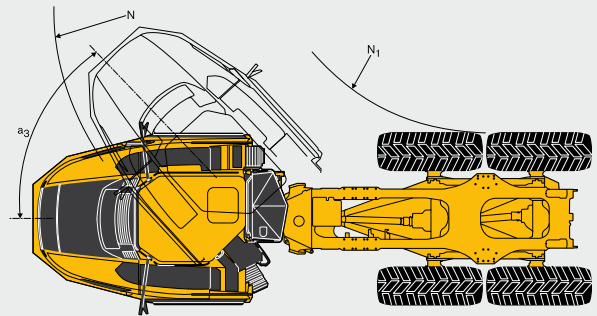
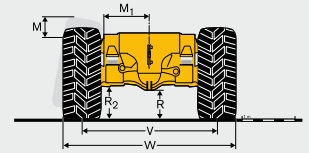
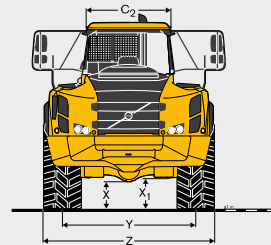
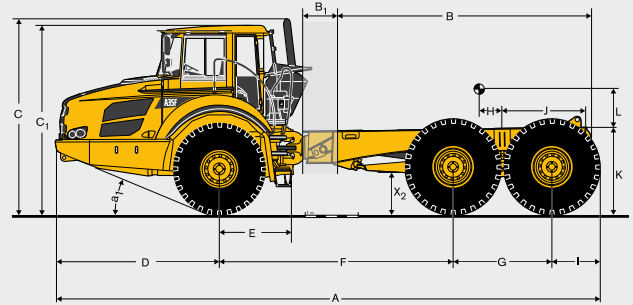
### Total weight

	A30F					
	HC42 Chassis		HC54 Chassis		HC59 Chassis	
	Standard Chassis		incl. 1.2 m / 3'11" extension		incl. 1.7 m / 5'7" extension	
Chassis weight (excl. superstructure)	kg	lb	kg	lb	kg	lb
Front	12 425	27,392	12 621	27,825	12 629	27,842
Rear	6 575	14,495	6 938	15,296	7 092	15,635
Total	19 000	41,888	19 559	43,120	19 721	43,477
Payload incl. superstructure	32 200	70,989	31 641	69,756	31 479	69,399
Total weight (incl. superstructure and payload)						
Front	15 350	33,841	15 350	33,841	15 350	33,841
Rear	35 850	79,036	35 850	79,036	35 850	79,036
Total	51 200	112,877	51 200	112,877	51 200	112,877

# SPECIFICATIONS.

## Dimensions

Pos	A35F		A35FFS	
	HC45 Chassis		HC45 Chassis	
	Standard Chassis		Standard Chassis	
	mm	ft in	mm	ft in
A	10 375	34'0"	10 375	34'0"
B	4 850	15'11"	4 850	15'11"
B <sub>1</sub>	4 760	15'7"	4 760	15'7"
C	3 716	12'2"	3 716	12'2"
C <sub>1</sub>	3 546	11'8"	3 546	11'8"
C <sub>2</sub>	1 772	5'10"	1 772	5'10"
D	3 101	10'2"	3 101	10'2"
E	1 277	4'2"	1 277	4'2"
F	4 578	15'0"	4 578	15'0"
G	1 820	6'0"	1 820	6'0"
H	506	1'8"	506	1'8"
I	650	2'2"	650	2'2"
J	1 560	5'1"	1 560	5'1"
K	1 602	5'3"	1 602	5'3"
L	882	2'11"	882	2'11"
M	355	1'2"	355	1'2"
M <sub>1</sub>	785	2'7"	785	2'7"
N	8 853	29'1"	8 853	29'1"
N <sub>1</sub>	4 395	14'5"	4 395	14'5"
R	579	1'11"	579	1'11"
R <sub>1</sub>	668	2'2"	604	2'0"
V	2 534	8'4"	2 534	8'4"
W	3 258	10'8"	3 258	10'8"
X	521	1'9"	521	1'9"
X <sub>1</sub>	607	2'0"	617	2'0"
X <sub>2</sub>	754	2'6"	754	2'6"
Y	2 534	8'4"	2 534	8'4"
Z	3 258	10'8"	3 258	10'8"
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a <sub>1</sub>	23.6	23.6	23.6	23.6
a <sub>3</sub>	45	45	45	45



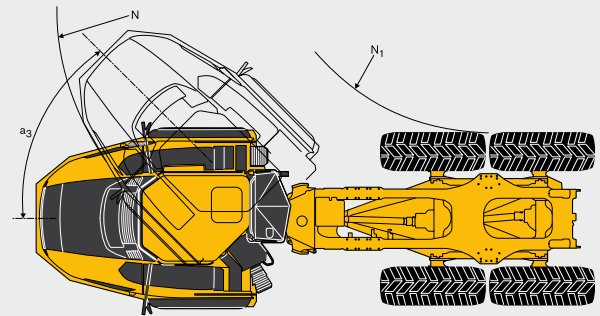
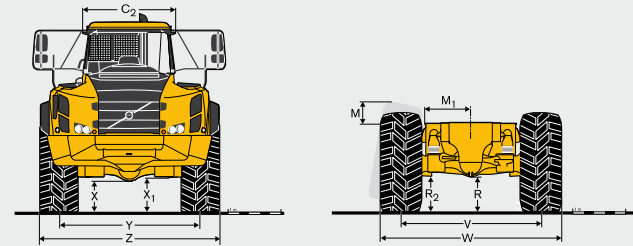
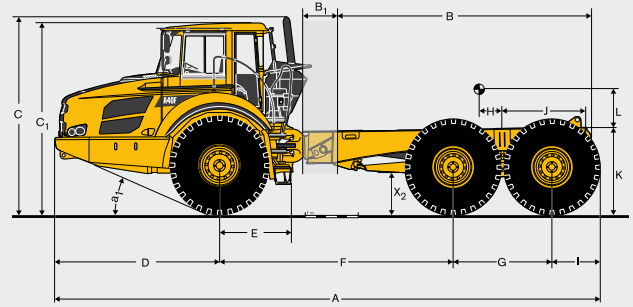
## A35F with 26.5R25 tires

### Total weight

	A35F		A35FFS	
	HC45 Chassis		HC45 Chassis	
	Standard Chassis		Standard Chassis	
	kg	lb	kg	lb
Chassis weight (excl. superstructure)				
Front	15 131	33,358	15 131	33,358
Rear	8 804	19,409	8 804	19,409
Total	23 935	52,768	23 935	52,768
Payload incl. superstructure	38 665	85,242	38 665	85,242
Total weight (incl. superstructure and payload)				
Front	18 700	41,226	18 700	41,226
Rear	43 900	96,783	43 900	96,783
Total	62 600	138,009	62 600	138,009

**Dimensions**

Pos	A40F		A40FFS	
	HC45 Chassis		HC45 Chassis	
	Standard Chassis		Standard Chassis	
	mm	ft in	mm	ft in
A	10 500	34'5"	10 500	34'5"
B	4 850	15'11"	4 850	15'11"
B <sub>1</sub>	4 665	15'4"	4 665	15'4"
C	3 768	12'4"	3 768	12'4"
C <sub>1</sub>	3 597	11'10"	3 597	11'10"
C <sub>2</sub>	1 772	5'10"	1 772	5'10"
D	3 101	10'2"	3 101	10'2"
E	1 277	4'2"	1 277	4'2"
F	4 518	14'10"	4 518	14'10"
G	1 940	6'4"	1 940	6'4"
H	563	1'10"	563	1'10"
I	445	1'6"	445	1'6"
J	1 465	4'10"	1 465	4'10"
K	1 660	5'5"	1 660	5'5"
L	1 045	3'5"	1 045	3'5"
M	441	1'5"	441	1'5"
M <sub>1</sub>	801	2'8"	801	2'8"
N	8 967	29'5"	8 967	29'5"
N <sub>1</sub>	4 307	14'2"	4 307	14'2"
R	635	2'1"	635	2'1"
R <sub>1</sub>	722	2'4"	644	2'1"
V	2 636	8'8"	2 636	8'8"
W	3 433	11'3"	3 433	11'3"
X	571	1'10"	571	1'10"
X <sub>1</sub>	658	2'2"	671	2'2"
X <sub>2</sub>	807	2'8"	807	2'8"
Y	2 636	8'8"	2 636	8'8"
Z	3 433	11'3"	3 433	11'3"
o	o	o	o	o
a <sub>1</sub>	25	25	25	25
a <sub>3</sub>	45	45	45	45



**A35F with 26.5R25 tires**

**Total weight**

	A40F		A40FFS	
	HC45 Chassis		HC45 Chassis	
	Standard Chassis		Standard Chassis	
	kg	lb	kg	lb
Chassis weight (excl. superstructure)				
Front	15 927	35,113	15 927	35,113
Rear	9 322	20,551	9 322	20,551
Total	25 249	55,665	25 249	55,665
Payload incl. superstructure	44 551	98,218	44 551	98,218
Total weight (incl. superstructure and payload)				
Front	20 500	45,195	20 500	45,195
Rear	49 300	108,688	49 300	108,688
Total	69 800	153,883	69 800	153,883

# VOLVO CONSTRUCTION EQUIPMENT

Volvo Construction Equipment is different. Our machines are designed, built and supported in a different way. That difference comes from an engineering heritage of over 175 years. A heritage of thinking first about the people who actually use the machines. About how to help them be safer, more comfortable, more productive. About the environment we all share. The result of that thinking is a growing range of machines and a global support network dedicated to helping you do more. People around the world are proud to use Volvo.

Not all products are available in all markets. Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice. The illustrations do not necessarily show the standard version of the machine.

# **VOLVO**

**Volvo Construction Equipment**  
**[www.volvoce.com](http://www.volvoce.com)**

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