

**VOLVO ARTICULATED HAULERS**

# **A25E, A30E, A35E, A40E LOW PROFILE HAULER**



**MORE CARE. BUILT IN.**



# LOW PROFILE HAULER - THE OPTIMAL UNDERGROUND SOLUTION

Every other articulated hauler manufactured in the world today is a Volvo, and that of course is not by chance. It was Volvo that developed the hauler concept in the 1960s, and since then we have been the development leader. For transports under ground, Volvo's Low Profile Hauler is the perfect solution. It's just as fast, smooth, cost-effective, and safe as all our articulated haulers – but it has been tailored specifically to meet tough underground challenges.

## **Optimal underground hauler**

In mines and tunnels, manoeuvrability is crucial for safe and fast hauling. Volvo's Low Profile Hauler has a cab that is 270 millimetres lower than the standard cab. The front-end of the load body is also lowered 270 mm, without affecting load capacity.

This is the optimal transport solution with all the hauler advantages – rotating frame joint and frame steering giving unique manoeuvrability, high availability, and the minimal service need.

## **Tailored parts give you the whole advantage**

The drivetrain is the main reason behind the characteristics and special features of an articulated hauler. That's why we haven't left anything to chance – every part of the drivetrain has been developed by Volvo to create an effective and completely hauler-specific unit. Add the unique steering system, Volvo's patented Load & Dump brake, and the fast dump hydraulics for optimally efficient dump cycles, and you get a profitable equation – haul even more, even faster, at the lowest possible cost.

## **Comfort and safety**

Even with the low-profile cab, it's easy to recognize Volvo's special and award-winning operator's environment. In a Volvo articulated hauler the operator can stay focused on the job, even on those really long shifts, thanks to the quieter, cleaner, and roomier Volvo Care Cab.

A hauler from Volvo gives you both a machine and a partner to trust. Volvo Construction Equipment's global network of dealers and well-trained service technicians means that you always have a committed partner close to you and your operations. This gives peace-of-mind ownership, and a machine that always provides maximal profitability and productivity.



## **Volvo Care Cab**

Volvo's world class operator's environment features a larger, more spacious interior and large storage compartments.

The Volvo Care Cab pressurizes and filters all incoming air twice, promoting a clean interior and a healthy, happy operator.

Contronic Monitoring System alerts the operator of machine status and maintenance needs, providing maximum availability and protection during the shift.

Good visibility, from the wide windshield to the well placed rear view mirrors, allows for safe and productive work.





# A LOW-PROFILE PARTNER TO TRUST

## **Volvo's Unique Self-compensating Hydro-mechanical Steering**

- Powerful and accurate steering for safe operation and high productivity.

## **Excellent Operator Environment**

- Optimized for underground applications, cab height reduced 270 mm.
- A spacious and comfortable cab with centrally positioned operator contributes to high productivity throughout the shift.
- Ergonomically positioned controls, air conditioning, air suspension seat with tilt/ telescopic steering wheel, wide angle forward view for reduced operator fatigue and high safety.

## **Heavy Duty Axles**

- Purpose built with 100% dog clutch type diff-lock.

## **Exhaust Brake and Retarders**

- Easy to operate powerful retardation system reduces wear and operating cost.

## **Volvo Drive Train**

- Correctly matched Volvo-designed components, specifically developed for hauler applications. Low power losses and long service life.
- The transmission gives smooth shifting and high power at all times.

(6-speed: A25E and A30E, 9-speed: A35E and A40E)

## **6x4 and 6x6 with Five Operating Modes**

- Easy to use drive combinations for every type of operating condition, reduces fuel consumption, driveline and tire wear and increases off-road mobility.
- Automatic Traction Control (ATC) (A25E-A30E) simplifies operation, promotes longer tire life and reduced fuel consumption.

## **State-of-the-Art Hydraulic System**

- Variable displacement piston pumps consume power only when required.





### **Purpose-built dropbox**

- Proven in-line drop-box provides excellent ground clearance, gives stability and low internal power losses.

### **Serviceability**

- No daily or weekly greasing.

### **Swing Down Front Service Platform**

- Grouped engine filters and remote mounted drains reduce service time. Contronic System electronically monitors fluid levels and systems for ease of service and trouble shooting.

### **Maintenance Free Suspensions**

- The straddle mounted bogie beam gives large wheel movement and low frame stress. Low pivot point enhances stability.
- Front axle has independent wheel movement via a 3-point mounting system.

### **Frames and Chassis**

- Box type design frames provides strong, weight optimized, high quality frames for long service life.
- Rotating hitch and articulated steering provides good off-road mobility and less stress on the frames in tough applications. High positioned hitch provides high ground clearance and stability.

### **High strength steel 400 HB body**

- High chute and tipping joint with 70° or greater dump angle promotes load retention and ejection.
- Body optimized for underground applications, spill guard height reduced 270 mm.

### **High Capacity Cooling System**

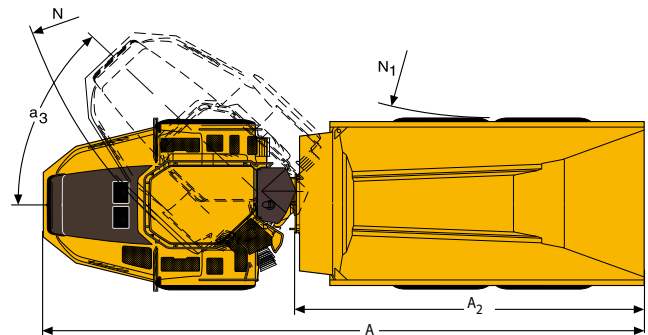
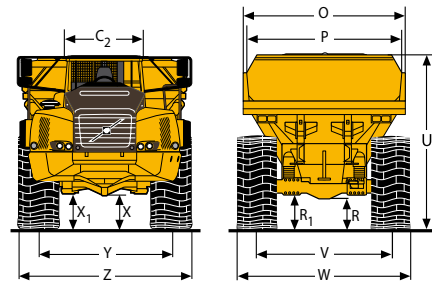
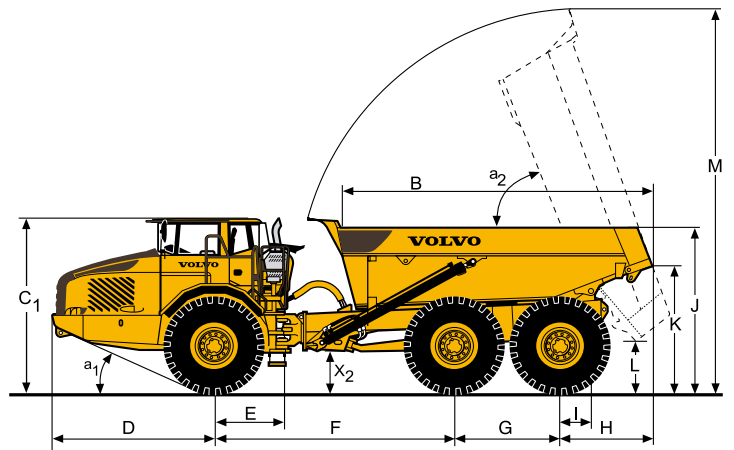
- Power and fuel saving, hydraulically driven, side mounted variable speed fan consumes power only when needed.



# SPECIFICATIONS

Pos	Metric (mm)				Imperial (Feet)			
	A25E	A30E	A35E	A40E	A25E	A30E	A35E	A40E
A	10 220	10 297	11 182	11 265	33'6"	33'9"	36'8"	37'0"
A <sub>2</sub>	5 764	6 002	6 242	6 404	18'11"	19'8"	20'6"	21'0"
B	5 152	5 339	5 531	5 820	16'11"	17'6"	18'2"	19'1"
C <sub>1</sub>	3 048	3 048	3 275	3 326	10'0"	10'0"	11'8"	11'10"
C <sub>2</sub>	1 827	1 827	1 827	1 827	6'0"	6'0"	6'0"	6'0"
D	2 764	2 764	3 101	3 101	9'1"	9'1"	10'2"	10'2"
E	1 210	1 210	1 278	1 278	4'0"	4'0"	4'2"	4'2"
F	4 175	4 175	4 578	4 518	13'8"	13'8"	15'0"	14'10"
G	1 670	1 670	1 820	1 940	5'6"	5'6"	6'0"	6'4"
H	1 610	1 688	1 683	1 706	5'3"	5'6"	5'6"	5'7"
I	608	608	650	495	2'0"	2'0"	2'2"	1'7"
J	2 778	2 856	2 939	3 152	9'1"	9'4"	9'8"	10'4"
K	2 102	2 181	2 314	2 455	6'11"	7'2"	7'7"	8'1"
L	677	686	899	841	2'3"	2'3"	2'11"	2'9"
M	6 399	6 404	7 246	7 284	21'0"	21'0"	23'9"	23'11"
N	8 105	8 105	8 826	8 885	26'7"	26'7"	28'11"	29'2"
N <sub>1</sub>	4 079	4 037	4 423	4 335	13'5"	13'3"	14'6"	14'3"
O	2 700	2 900	3 106	3 374	8'10"	9'6"	10'2"	11'1"
P	2 490	2 706	2 870	3 074	8'2"	8'11"	9'5"	10'1"
R	512	513	580	628	1'8"	1'8"	1'11"	2'1"
R <sub>1</sub>	634	635	668	716	2'1"	2'1"	2'2"	2'4"
U	2 983	3 036	3 247	3 292	9'9"	10'0"	10'8"	10'10"
V	2 258	2 216	2 534	2 636	7'5"	7'3"	8'4"	8'8"
V*	-----	2 258	2 625	-----	-----	7'5"	8'7"	-----
W	2 859	2 941	3 258	3 432	9'5"	9'8"	10'8"	11'3"
W*	-----	2 859	3 410	3 570	-----	9'5"	11'2"	11'9"
X	456	456	521	576	1'6"	1'6"	1'9"	1'11"
X <sub>1</sub>	581	582	602	657	1'11"	1'11"	2'0"	2'2"
X <sub>2</sub>	659	659	754	806	2'2"	2'2"	2'6"	2'8"
Y	2 258	2 216	2 534	2 636	7'5"	7'3"	8'4"	8'8"
Y*	-----	2 258	2 625	-----	-----	7'5"	8'7"	-----
Z	2 859	2 941	3 258	3 432	9'5"	9'8"	10'8"	11'3"
Z*	-----	2 859	3 410	3 570	-----	9'5"	11'2"	11'9"
a <sub>1</sub>	23,5°	23,5°	23,3°	24,3°	-----	-----	23,3°	24,3°
a <sub>2</sub>	74°	70°	70°	72°	-----	-----	70°	72°
a <sub>3</sub>	45°	45°	45°	45°	-----	-----	45°	45°

A25E: Unloaded machine with 23,5R25  
A30E: Unloaded machine with 750/65R25  
A35E: Unloaded machine with 26,5R25  
A40E: Unloaded machine with 29,5R29  
\*) With optional tires. A30E: 23,5 R25  
A35E: 775/65R29  
A40E: 875/65R29



### Low profile Cab

Cab height reduced 270 mm. Ergonomically designed. Unobstructed wide angle forward view. Operator centrally positioned above the front axle. Ergonomically positioned controls. Air conditioning. Adjustable operators seat with retractable seat belt. Filtered fresh air and four speed fan. Operator Communication System: Contronic, user-friendly and easy-to-understand information, all vital machine functions are constantly monitored. Standard: ROPS/FOPS approved according to (ISO3471, SAE J1040) / (ISO3449, SAE J231).

### Low profile Body

Low profile body for underground operation, front spill guard height reduced 270 mm. Load and dump brake: With the engine running, the service brakes on the rear axle are applied and transmission is shifted to neutral. Dumping Cylinders: Two single stage double acting cylinders.

Low Profile	A25E	A30E	A35E	A40E
<b>Tipping angle</b>	74° A	70° A	70° A	70° A
<b>Tipping time with load</b>	12 s	12 s	12 s	12 s
<b>Lowering time</b>	9 s	9 s	10 s	10 s

### Load capacity

Low Profile	A25E	A30E	A35E	A40E
<b>Low profile body</b>				
Load capacity	24 000 kg 26.5 sh tn	28 000 kg 31.0 sh tn	33 500 kg 37 sh tn	39 000 kg 43 sh tn
Body, struck	11.7 m <sup>3</sup> 15.3 yd <sup>3</sup>	13.6 m <sup>3</sup> 17.5 yd <sup>3</sup>	16.0 m <sup>3</sup> 20.9 yd <sup>3</sup>	18.4 m <sup>3</sup> 24.1 yd <sup>3</sup>
Body, heaped	15.0 m <sup>3</sup> 19.6 yd <sup>3</sup>	17.5 m <sup>3</sup> 22.9 yd <sup>3</sup>	20.5 m <sup>3</sup> 26.8 yd <sup>3</sup>	24.0 m <sup>3</sup> 31.4 yd <sup>3</sup>
<b>With underhung tailgate</b>				
Body, struck	12.0 m <sup>3</sup> 15.7 yd <sup>3</sup>	13.8 m <sup>3</sup> 18 yd <sup>3</sup>	--	--
Body, heaped	15.3 m <sup>3</sup> 20 yd <sup>3</sup>	18.0 m <sup>3</sup> 23.5 yd <sup>3</sup>	22.7 m <sup>3</sup> 29.6 yd <sup>3</sup>	23.7 m <sup>3</sup> 31.0 yd <sup>3</sup>
<b>With overhung tailgate</b>				
Body, struck	12.1 m <sup>3</sup> 15.8 yd <sup>3</sup>	14.0 m <sup>3</sup> 18.3 yd <sup>3</sup>	16.4 m <sup>3</sup> 21.5 yd <sup>3</sup>	18.8 m <sup>3</sup> 24.6 yd <sup>3</sup>
Body, heaped	15.6 m <sup>3</sup> 20.4 yd <sup>3</sup>	18.1 m <sup>3</sup> 23.7 yd <sup>3</sup>	21.4 m <sup>3</sup> 28.0 yd <sup>3</sup>	24.7 m <sup>3</sup> 32.3 yd <sup>3</sup>
<b>With over and under hung tailgate</b>				
Body, struck	12.1 m <sup>3</sup> yd <sup>3</sup>	--	--	--
Body, heaped	15.6 m <sup>3</sup> yd <sup>3</sup>	--	--	--

### Weights

Low Profile	A25E	A30E	A35E	A40E
<b>Tires</b>	<b>23,5R25</b>	<b>750/65R25</b>	<b>26,5R25</b>	<b>29,5R25</b>
<b>Operating weight unloaded</b>				
Front	12 160 kg 26 808 lb	12 500 kg 27 558 lb	14 700 kg 32 408 lb	15 700 kg 34 613 lb
Rear	9 400 kg 20 723 lb	10 560 kg 23 281 lb	13 400 kg 29 542 lb	14 500 kg 31 967 lb
Total	21 560 kg 47 532 lb	23 060 kg 50 839 lb	28 100 kg 61 950 lb	30 200 kg 66 580 lb
Payload	24 000 kg 52 911 lb	28 000 kg 61 729 lb	33 500 kg 73 855 lb	39 000 kg 85 980 lb
<b>Total weight</b>				
Front	14 140 kg 31 173 lb	14 990 kg 33 047 lb	17 700 kg 39 022 lb	19 650 kg 43 321 lb
Rear	31 420 kg 69 269 lb	36 070 kg 79 521 lb	43 900 kg 96 783 lb	49 550 kg 109 239 lb
Total	45 560 kg 100 443 lb	51 060 kg 112 568 lb	61 600 kg 135 805 lb	69 200 kg 152 560 lb

Operating weight includes all fluids and operator.

\*) A35E with tires 775/65R29, add 200 kg (441 lb)/axle

A40E with tires 875/65R29, add 300 kg (661 lb)/axle

### Ground Pressure

Low Profile	A25E	A30E	A35E	A40E
<b>Tires</b>	<b>23,5R25</b>	<b>750/65R25</b>	<b>26,5R25</b>	<b>29,5R25</b>
<b>Unloaded</b>				
Front	123 kPa 17.8 psi	101 kPa 14.6 psi	123 kPa 17.8 psi	110 kPa 16.0 psi
Rear	48 kPa 7.0 psi	43 kPa 6.2 psi	56 kPa 8.1 psi	51 kPa 7.4 psi
<b>Loaded</b>				
Front	144 kPa 20.9 psi	121 kPa 17.6 psi	148 kPa 21.5 psi	138 kPa 20.0 psi
Rear	159 kPa 23.1 psi	146 kPa 21.2 psi	184 kPa 26.7 psi	174 kPa 25.2 psi

### STANDARD EQUIPMENT

Body	A25E	A30E	A35E	A40E
Underground body	•	•	•	•
Cab	A25E	A30E	A35E	A40E
Underground cab (lowered 270 mm)	•	•	•	•

### OPTIONAL EQUIPMENT

Engine	A25E	A30E	A35E	A40E
External emergency engine stop	•	•	•	•
Electrical	A25E	A30E	A35E	A40E
Work lights, roof mounted	•	•	•	•
Work lights, fender mounted	•	•	•	•
Rear-vision system	•	•	•	•
Cab	A25E	A30E	A35E	A40E
Electrically heated rear-view mirrors	•	•	•	•
Body	A25E	A30E	A35E	A40E
Wear plates, 450 HB, 8 mm	•	•	•	•



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. And we're proud of what makes Volvo different – **More care. Built in.**



*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**

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