



Volvo Trucks. Driving Progress

VNX SERIES COMPETITIVE ANALYSIS

POCKET GUIDE



Models	VOLVO VNX	KENWORTH T880	KENWORTH W900 S, B & L	PETERBILT 567	PETERBILT 389	FREIGHTLINER 122SD
Axle back	Yes	Yes	No	Yes	No	Yes
Set back dimension	53.7"	48.4"	n/a	46.9"	n/a	43"
Axle forward	No	Yes	Yes	Yes	Yes	Yes
Set forward dimension	n/a	28" - 29.5"	27.9" (S), 31.5" (B) & 30.0" (L)	29.4" & 31"	31"	30.9"
BBC	124"	116.5" & 122.5"	120" (S), 121.5" (B) & 130.1" (L)	115.1", 115.2" & 121.1"	123" & 131.6"	122"
Maximum frame length	480"	448"	448"	480"	480"	450"
Frame options						
Single rail	1.6 - 3.2M inch-lbs. RBM	1.8 - 2.6M inch-lbs. RBM	1.8 - 2.6M inch-lbs. RBM	1.8 - 3.0M inch-lbs. RBM	1.8 - 2.7M inch-lbs. RBM	1.8 - 3.2M inch-lbs. RBM
Double rail	3.25 - 4.2M inch-lbs. RBM	3.7 - 4.7M inch-lbs. RBM	3.7 - 4.7M inch-lbs. RBM	2.6 - 4.5M inch-lbs. RBM	2.8 - 4.5M inch-lbs. RBM	3.22 - 4.41M inch-lbs. RBM
Triple rail	n/a	5.8M inch-lbs. RBM	n/a	5.5M inch-lbs. RBM	5.5M inch-lbs. RBM	n/a
5th wheel						
Types	Fontaine, Holland & Jost	Holland & Jost	Holland & Jost	Holland & Jost	Holland & Jost	Fontaine, Holland & Jost
Slide length	12, 16, 24	12, 24, 36, 48, 60	16, 24, 36, 48, 60	12, 16, 18, 24, 30, 36, 42, 60, 72	12, 16, 18, 24, 30, 36, 42, 60, 72	12, 16, 24, 36, 48
Maximum vertical pull	70k	70k	70k	70k	70k	70k
Max signal axle capacity	20k	n/a	26k	30k	30k	23k
Max tandem rear axle capacity	52k	52k	70k	70k	60k	52k
Max tridem rear axle capacity	69k	69k	78k	78k	78k	69k
Sleeper options						
Low roof, 34-40" DOT	36"	40"	38"	No	44", 58"	34"
Mid roof	70"	52"	42", 62"	44", 58"	58", 72"	48", 58", 70"
High roof	No	76"	72", 86"	72", 80"	72", 78"	58", 70"
Interior/exterior						
Cab width	2.1 m	2.1 m	1.83 m	2.1 m	1.83 m	Unknown
Interior height	1.5 m	Unknown	1.6 m	Unknown	1.6 m	Unknown
Cab material	High strength steel	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Grille	Piano black	Stainless steel surround w/ Aluminum bug screen	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Headlights	LED w/icing mitigation system	Halogen	Halogen	Halogen	Halogen	Halogen
Windshield options	Heated	none	none	none	none	1 or 2 piece
Steering gears	TRW (TAS85, THP60)	Sheppard (SD110, HD94) or TRW (TAS85, THP60)	Sheppard (M100P), TRW (TAS65, TAS85)	Sheppard (SD110, HD94), TRW (TAS85, THP60)	Sheppard (M100, SD110, HD94), TRW (TAS65, TAS85, THP60)	TRW (TAS85, THP60)

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Engines						
Available Engines	D13, X15	MX-13, X15	MX-13, ISX15	MX-13, X15	MX-13, X15	DD13, DD15, DD16, X15
Radiator	1240 sq. inch	1330 sq. inch	1240, 1300, & 1670 sq. inch	1438 sq. inch	1669 sq. inch	1500 & 1700 sq. inch
Proprietary 13L	Yes	Yes	Yes	Yes	Yes	Yes
Proprietary 13L repto ratio	1.26:1	1.2:1	1.2:1	1.2:1	1.2:1	1.217:1 (Only available with SAE flange)
Proprietary 15-16L	No	No	No	No	No	Yes (DD15 & DD16)
Proprietary 15-16L repto ratio	n/a	n/a	n/a	n/a	n/a	No
Cummins x15	Yes	Yes	Yes	Yes	Yes	Yes
Total horsepower band	455 - 605 hp	350 - 565 hp	355 - 605 hp	320 - 605 hp	405 - 605 hp	350 - 605 hp
Total torque band	1750 - 2050 lb-ft	1150 - 2050 lb-ft	1250 - 2050 lb-ft	1000 - 2050 lb-ft	1450 - 2050 lb-ft	1250 - 2080 lb-ft
Transmissions						
AMT proprietary	Yes	Yes	No	Yes	No	No
AMT proprietary gears	14	12	n/a	12	n/a	n/a
AMT proprietary PTO openings	4-bolt	8-bolt & 4-bolt	n/a	8-bolt	n/a	n/a
AMT Eaton	UltraShift Plus	Endurant	Advantage, UltraShift Plus	UltraShift Plus	Advantage, UltraShift Plus	UltraShift Plus
Manual Eaton	13 - 18 Speed	9 - 18 Speed	9 - 18 Speed	10 - 18 Speed	10 - 18 Speed	10 - 18 Speed
Allison 4000	No	Yes	Yes	Yes	Yes	Yes
Allison 4500	No	Yes	Yes	Yes	Yes	Yes
Allison 4700	No	Yes	Yes	Yes	Yes	Yes
Auxiliary transmissions	No	Yes	Yes	Yes	Yes	No
Transfer case	No	Yes (Fabco 142, 143)	No	Yes (Fabco TC-142, 270; Marmon-Herrington MVG-1600SD)	No	No
PTO & pump						
FEPTO	No	Yes	No	Yes	No	No
REPTO	Yes (D13)	Yes (PX-9, MX-11, MX-13, ISX12)	Yes (PX-9, MX-11, MX-13, ISX12)	Yes (PX-9, MX-11, MX-13, ISX12)	Yes (MX-13)	Yes (DD13)
Factory installed transmission PTO	Yes	Yes	No	Yes	No	No
Factory installed repto pump	Yes (D13)	No	No	No	No	No
Factory installed transmission pump	Yes	No	No	No	No	No
Factory installed split shaft PTO	No	Yes (Namco 174C)	No	Yes (Fabco PTO-180; Namco various)	Yes (Fabco PTO-180 & Namco 463)	No

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Active safety						
Forward collision system	Yes	Yes	No	Yes	Yes	No
Blind spot integration	Yes	Yes	No	Yes	Yes	No
Side object detection	Yes	Yes	No	Yes	Yes	No
Lane departure	Yes	Yes	No	Yes	Yes	No
Automatic headlights w/ wipers	Yes	Yes	No	Yes	No	No
Automatic wipers	Yes	No	No	No	No	No
Wipers adjust for rate of rain fall	Yes	No	No	No	No	No
Auto-off high beam	Yes	No	No	No	No	No
Forward video	Yes	Yes	No	Yes	No	No
Operator video	Yes	Yes	No	Yes	No	No
Adaptive cruise	Yes	Yes	No	Yes	Yes	No
Active brake assist	Yes	Yes	No	Yes	Yes	No
Passive safety						
Driver side airbag	Yes	No	No	No	No	No
Front axle						
Steer axles	16,000 - 20,000 lbs. (Volvo)	12,500 - 22,800 lbs. (Paccar, Meritor, Dana)	12,000 -22,800 lbs. (Meritor, Dana)	12,000 - 22,800 (Paccar, Meritor, Dana, Hendrickson)	12,000 - 22,800 lbs. (Dana, PACCAR)	12,500 - 23,000 lbs. (Meritor, Hendrickson, Detroit)
Front drive axle	No	Yes (22k Marmon)	No	Yes (22k Marmon)	No	No
Twin steer	No	Yes (40k Dana, Meritor, Paccar)	No	Yes (20k, 22k Paccar; 20k Meritor)	No	Yes (20k Meritor and Detroit)
Twin steer prep	No	No	No	Yes	No	Yes (Simard)
Rear axle						
Single	No	21 - 26,000 lbs. (Dana, Meritor)	23 - 26,000 lbs. (Dana, Meritor)	21 - 30,000 lbs. (Dana, Meritor)	21 - 30,000 lbs. (Dana, Meritor)	23,000 lbs. (Detroit, Meritor)
Tandem	46 - 52,000 lbs. (Meritor)	34 - 70,000 lbs. (Dana, Meritor, Sisu)	34 - 70,000 lbs. (Dana, Meritor)	40 - 70,000 lbs. (Dana, Meritor, Paccar, Sisu)	40 - 60,000 lbs. (Dana, Meritor, Paccar)	40 - 52,000 lbs. (Dana, Detroit, Meritor)
Tandem spacing	54, 60"	52, 54, 60, 72"	52, 54, 60, 72"	54", 60", 72"	52, 54, 55, 60, 72"	51, 52, 54, 55, 56, 59, 60, 72.5"
Tridem	69,000 lbs. (Meritor)	69 - 78,000 lbs. (Dana, Meritor)	58 - 78,000 lbs. (Dana, Meritor)	69 - 78,000 lbs. (Dana)	69 - 78,000 lbs. (Dana)	69,000 lbs. (Meritor)
Planetary	No	Yes	No	Yes	No	No
Double reduction	No	Yes	Yes	Yes	No	No
Rear suspensions	Hendrickson (Primaxx), Newaway (ADZ), Volvo (T-Ride)	Chalmers (800 Series), Hendrickson (HAS, Haulmaax, Primaxx, RT, Ultimaax), Neway (AD, ADZ), Paccar (Airglide), Reyco	Chalmers (800 Series), Hendrickson (HAS, Haulmaax, Primaxx, RT, Ultimaax), Neway (AD, ADZ), Paccar (Airglide), Reyco	Chalmers (800 Series), Hendrickson (Haulmaax, HN, R, RS, RT), Neway (ADZ), Paccar (Air Trac, Air Leaf), Reyco	Chalmers (800 Series), Henderickson (Haulmaax, HN, RT) , Neway (ADZ), Paccar (Air Trac, Air Leaf, Flex Air), Reyco	Chalmers (800 Series), Daimler (Airliner, Tuftrac), Hendrickson (Haulmaax, Primaax), Newway (AD, ARD, ADZ)

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Lift axle options						
Pusher qty	1	3	3	3	3	3
Pusher non-steering	20,000 lbs. (Hendrickson)	21 - 23,000 lbs. (Watson-Chalin)	21 - 23,000 lbs. (Watson-Chalin)	10 - 23,000 lbs. (Hendrickson, Watson-Chalin)	10 - 23,000 lbs. (Hendrickson, Watson-Chalin)	20,000 - 22,000 lbs. (Hendrickson)
Pusher steerable	13.5 - 20,000 lbs. (Hendrickson)	8 - 23,000 lbs. (Watson-Chalin)	8 - 20,000 lbs. (Watson-Chalin)	8 - 20,000 lbs. (Hendrickson, Watson-Chalin)	8 - 20,000 lbs. (Hendrickson, Watson-Chalin)	8 - 22,000 lbs. (Hendrickson, Watson-Chalin)
Tag	N/A	8 - 23,000 lbs. (Watson-Chalin)	8 - 23,000 lbs. (Watson-Chalin)	8 - 23,000 lbs. (Hendrickson, Watson-Chalin)	8 - 23,000 lbs. (Hendrickson, Watson-Chalin)	8 - 22,000 lbs. (Hendrickson, Watson-Chalin)
Brakes						
Disc	Yes (Volvo/Meritor)	Yes (Bendix)	Yes (Bendix)	Yes (Bendix)	Yes (Bendix)	Yes (Bendix, Wabco and Meritor)
Electrical						
Circuit breakers	No	Yes	Yes	Yes	Yes	Yes
Body builder module	PTO 1 - 4 w/ remote throttle	PTO 1 & 2 w/ remote throttle	PTO 1 w/ remote throttle (Optional)	PTO 1 & 2 w/ remote throttle	PTO 1 & 2 w/ remote throttle (Optional)	PTO 1 & 2 w/ remote throttle (Optional)
Aux. circuits	3 aux. switches	5 aux. switches	2 aux switches w/ spare 20+ amp relays	12 aux. switches	6 aux. switches at 10 amps and 2 spare 20+ amp relays	4 aux. switches

The Volvo VNX

Our Volvo VNX series is built specifically for the needs of heavy-haul trucking operations. Available with up to 605 hp and 2,050 lb-ft of torque, the VNX provides the power and performance demanded for heavy-haul applications such as logging, machinery transport, and long combination vehicles.



VOLVO

Volvo Trucks

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Some vehicles shown with optional equipment.

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