Document Title:	Function Group:	Information Type:	Date:
Machine EC280, description	**000**	**Service Information**	**11/12/2025**
Profile:			

Machine EC280, description

Machine EC280 is a 360°-rotating tracked excavator with a service weight of 28 tonnes.
The machine is powered by a Volvo TD 73 KHE diesel engine specially adapted for this excavator model.
The diesel engine drives the machine's working pumps via a pump gearbox. Three pumps for the working hydraulics are provided on the standard version. A separate pump for the servo-hydraulic circuit is driven by the engine's timing gear.
The machine has a 3-circuit hydraulic system enabling all three pumps to be used for separate excavating movements. The circuits for excavation and travel functions are equipped with HLD (Heavy Lift Device).
Propulsion of the machine is achieved by means of 2-stage hydraulic axial piston motors and planetary gears.
The planetary gearboxes have hydraulic brakes which are negative, i.e. they are applied automatically by spring force and released by hydraulic pressure. The hydraulic pressure which releases the brakes is reduced working pressure, the reduction being achieved internally in the travel motors. The brakes are released when the pedals are activated.
The brakes are of the multi-disc type in oil bath and are maintenance-free.
Rollers and front idlers are permanently lubricated.
The superstructure is slewed by means of an axial piston motor via a 2-stage planetary gearbox with slewing pinion. The gearbox has a hydraulic slew brake which is negative, i.e. it is applied automatically by spring force and released by servo pressure.
The slewing pinion meshes with the internal teeth of the slewing ring. The slewing ring connects the superstructure with the undercarriage.
A centre passage connects the superstructure and the undercarriage hydraulically.
The cab is equipped with an ergonomically designed operator's seat, a ventilation and filter system and a computerized monitoring system for the diesel engine and hydraulic system. it is also prepared for air conditioning.
An electrical distribution box containing most of the fuses and relays is mounted above the batteries.
The boom cylinder circuit is provided with a float position.
Each boom cylinder is equipped with a hose rupture valve.
Different combinations of boom, dipper arm and attachment can be offered. This manual describes the most common standard alternatives.

Document Title:	Function Group:	Information Type:	Date:
Machine EC280, signs	**00**	**Service Information**	**11/12/2025**
Profile:			

Machine EC280, signs

The illustrations below show which signs and markings there are on the machine.
When ordering **spare parts** and in all enquiries by telephone or correspondence, the model designation and the machine's serial number should always be stated. Where applicable, the data stamped-in on individual parts should also be stated.

1. **Product identification sign** with model designation and **P**roduct **I**dentification **N**umber (**PIN**) is positioned on the outside of the cab below the left-hand rear window.

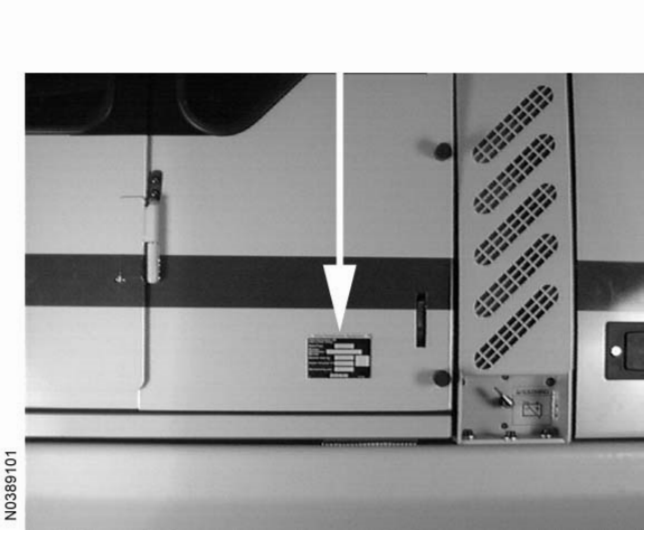


Figure 1
Product identification sign

2. The **bucket's nameplate** with article number, weight and volume is located on the top of the bucket to the left of the bucket hinge pin.

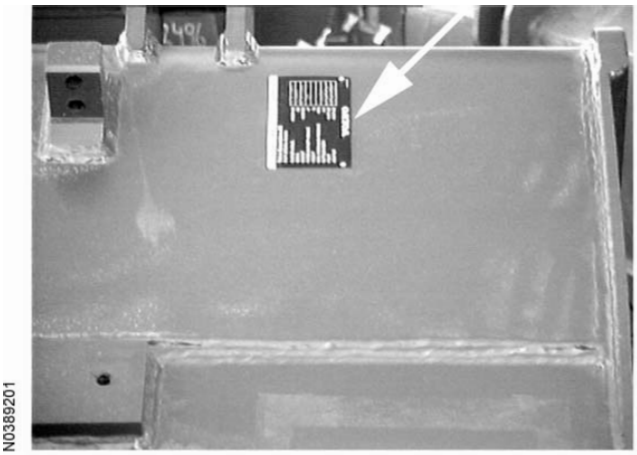


Figure 2
Bucket

3. The **diesel engine's type designation**, product and serial numbers are stamped on the left side of the engine at the top of the engine block.

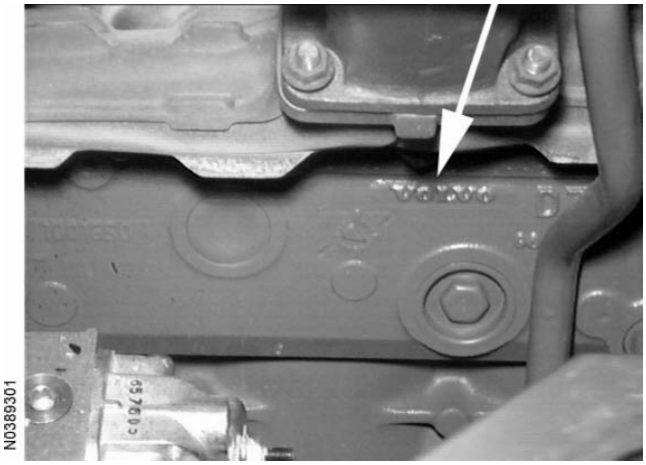


Figure 3
Diesel engine

4. The **superstructure's**article and change numbers and the machine's serial number are stamped on the right boom bracket.

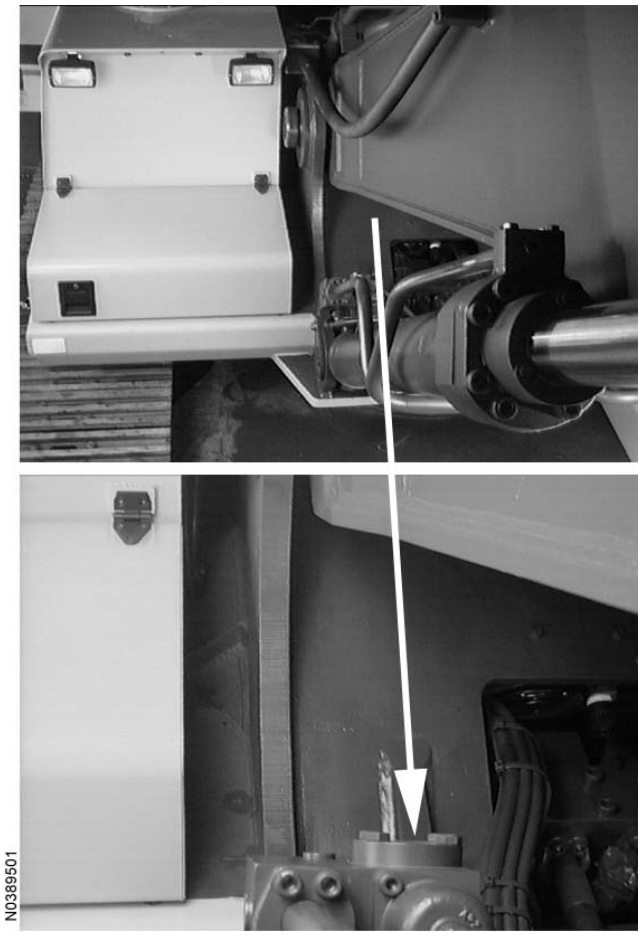


Figure 4
Superstructure

5. The **hydraulic cylinders'** article and change numbers are given on the cylinder barrel next to the oil connection on the piston rod side.

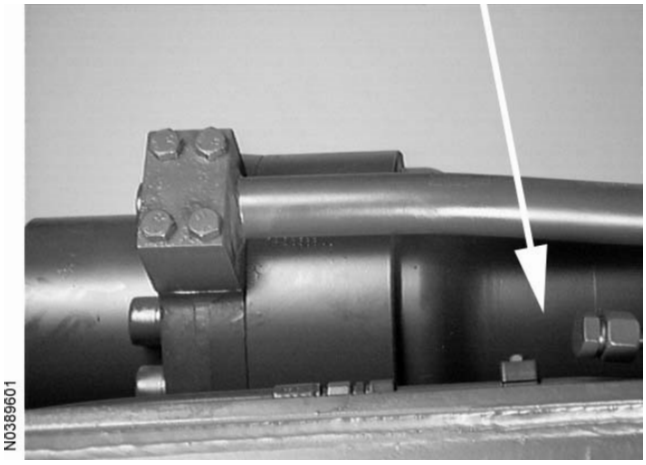


Figure 5
Hydraulic cylinder

6. The **undercarriage's**article number is stamped on the top of the undercarriage.

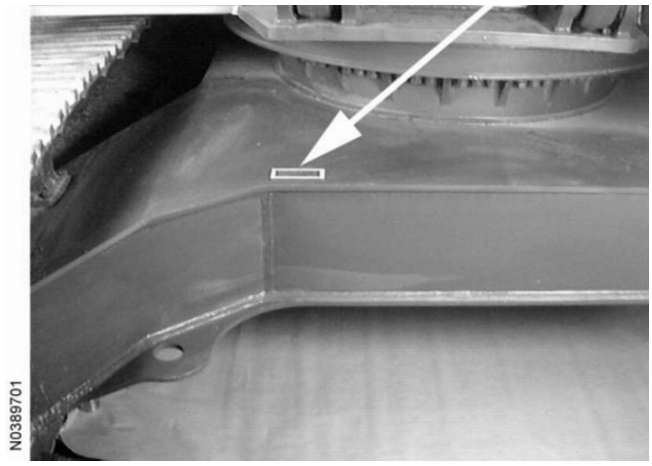


Figure 6
Undercarriage

Document Title: **Capacities**	Function Group: **030**	Information Type: **Service Information**	Date: **11/12/2025**
Profile:			

Capacities

Fuel tank, gross	550 l
Hydraulic fuelling pump, capacity	approx. 90 l/min
Cooling system (incl. glycol)	46 l
Hydraulic system, total	405 l
Hydraulic oil tank	211 l
Diesel engine (lubricating oil), incl. filter	20 l
Pump gearbox	1.8 l
Slewing gear	6 l
Slewing ring	24 l

Document Title: **Cylinder data**	Function Group: **030**	Information Type: **Service Information**	Date: **11/12/2025**
Profile:			

Cylinder data

Cylinder	**Cylinder bore mm**	**Piston rod diameter mm**	**Stroke mm**	**Piston force, out kN**	**Piston force, out in HLD kN**
Boom cylinder	150	100	1 120	548	619
Dipper arm cylinder	160	110	1 360	623	704
Bucket cylinder	140	95	1 000	477	539

VOLVO

Service Information

Document Title: **Digging data**	Function Group: **030**	Information Type: **Service Information**	Date: **11/12/2025**
Profile:			

Digging data

WL (wide, long undercarriage)						
Boom length	**5.8 m**			**6.4 m**		
Dipper arm length	**2.3 m**	**2.7 m**	**3.2 m**	**2.3 m**	**2.7 m**	**3.2 m**
Max. reach	9.9 m	10.2 m	10.6 m	10.5 m	10.9 m	11.3 m
Max. reach at ground level	9.8 m	10.1 m	10.5 m	10.4 m	10.7 m	11.1 m
Max. digging depth	6.0 m	6.5 m	7.0 m	6.5 m	6.9 m	7.4 m
Max. height from ground level to tooth tip	10.6 m	10.7 m	10.8 m	11.1 m	11.2 m	11.3 m
Max. dump height	7.2 m	7.3 m	7.5 m	7.7 m	7.8 m	7.9 m
Max. practical dump height	4.7 m	4.6 m	4.35 m	5.2 m	5.05 m	4.8 m
Practical digging depth when the material's angle of repose is 45°	5.1 m	5.3 m	5.6 m	5.5 m	5.75 m	6.0 m
Max. vertical digging depth	5.1 m	5.4 m	5.7 m	5.6 m	6.0 m	6.3 m
Max. height from ground level to bucket attachment	8.9 m	9.1 m	9.2 m	9.4 m	9.5 m	9.7 m
Min. front slewing radius	3.1 m	3.0 m	2.96 m	3.5 m	3.4 m	3.4 m
Min. reach at ground level with bottom of bucket horizontal	3.3 m	2.9 m	2.3 m	3.9 m	3.5 m	3.0 m

NS (narrow, short undercarriage)						
Boom length	**5.8 m**			**6.4 m**		
Dipper arm length	**2.3 m**	**2.7 m**	**3.2 m**	**2.3 m**	**2.7 m**	**3.2 m**
Max. reach	9.9 m	10.2 m	10.6 m	10.5 m	10.9 m	11.25 m
Max. reach at ground level	9.8 m	10.1 m	10.5 m	10.4 m	10.7 m	11.1 m
Max. digging	6.0 m	6.5 m	7.0 m	6.6 m	7.0 m	7.5 m

depth						
Max. height from ground level to tooth tip	10.6 m	10.7 m	10.8 m	11.0 m	11.2 m	11.2 m
Max. dump height	7.1 m	7.3 m	7.4 m	7.6 m	7.8 m	7.9 m
Max. practical dump height	4.7 m	4.5 m	4.3 m	5.1 m	5.0 m	4.8 m
Practical digging depth when the material's angle of repose is 45°	5.1 m	5.4 m	5.8 m	5.6 m	5.8 m	6.1 m
Max. vertical digging depth	5.1 m	5.5 m	5.8 m	5.7 m	6.1 m	6.3 m
Max. height from ground level to bucket attachment	8.9 m	9.0 m	9.1 m	9.3 m	9.5 m	9.6 m
Min. front slewing radius	3.1 m	3.0 m	2.96 m	3.5 m	3.4 m	3.4 m
Min. reach at ground level with bottom of bucket horizontal	3.3 m	2.9 m	2.3 m	3.95 m	3.5 m	3.0 m

Document Title: **Electrical system**	Function Group: **030**	Information Type: **Service Information**	Date: **11/12/2025**
Profile:			

Electrical system

System voltage	24 V
Alternator	28 V/55 A
Alternator rating	1 540 W
Batteries, 2	12 V
Battery capacity	140 Ah

Document Title: **Main dimensions**	Function Group: **030**	Information Type: **Service Information**	Date: **11/12/2025**
Profile:			

Main dimensions

The data applies only to machines equipped according to factory standard. For machines equipped in any other way - see the respective specifications.
Machine equipped with narrow, short undercarriage (NS).
Machine equipped with wide, long undercarriage (WL).

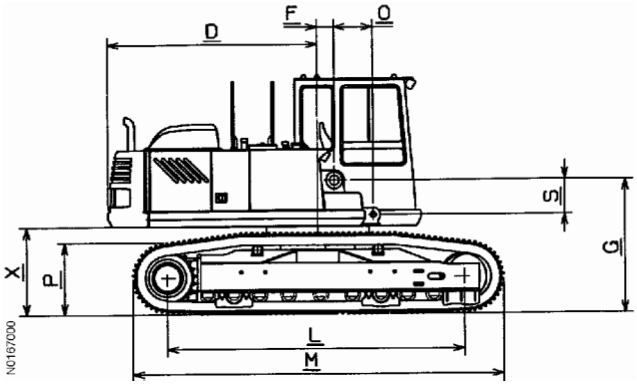


Figure 1

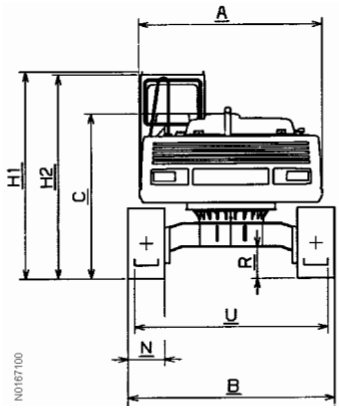


Figure 2
Main dimensions

	NS	**WL**
A	2.80 m	2.80 m
B	3.00 m	3.20 m
C	2.37 m	2.44 m
D	2.79 m	2.79 m
F	0.22 m	0.22 m
G	1.70 m	1.76 m
H1	3.09 m	3.15 m
H2	3.04 m	3.10 m
L	3.90 m	4.00 m

M	4.76 m	4.93 m
N	0.60 m	0.60 m
O	0.51 m	0.51 m
P	0.87 m	0.94 m
R	0.48 m	0.47 m
S	0.45 m	0.45 m
U	2.56 m	2.76 m
X	1.09 m	1.16 m

Document Title: **Transport data**	Function Group: **030**	Information Type: **Service Information**	Date: **11/12/2025**
Profile:			

Transport data

WL (wide, long undercarriage)						
Boom length	**5.8 m**			**6.4 m**		
Dipper arm length	**2.3 m**	**2.7 m**	**3.2 m**	**2.3 m**	**2.7 m**	**3.2 m**
Digging equipment at full reach with bucket, height	2.96 m	3.11 m	3.28 m	3.03 m	3.12 m	3.24 m
Digging equipment at full reach with bucket, total length	12.55 m	12.88 m	13.26 m	13.18 m	13.53 m	13.90 m
Retracted digging equipment with bucket, height	3.23 m	3.23 m	3.07 m	3.24 m	3.26 m	3.20 m
Retracted digging equipment with bucket, total length	9.70 m	9.70 m	9.69 m	10.30 m	10.3 m	10.30 m
Retracted digging equipment without bucket, height	3.10 m	3.15 m	3.07 m	3.21 m	3.22 m	3.20 m
Retracted digging equipment without bucket, total length	9.70 m	9.70 m	9.69 m	10.30 m	10.30 m	10.30 m

NOTE!
These heights apply to the digging equipment.

Cab height sometimes exceeds digging equipment height.

NS (narrow, short undercarriage)						
Boom length	**5.8 m**			**6.4 m**		
Dipper arm length	**2.3 m**	**2.7 m**	**3.2 m**	**2.3 m**	**2.7 m**	**3.2 m**
Digging equipment at full reach with bucket, height	2.92 m	3.07 m	3.24 m	2.98 m	3.08 m	3.19 m
Digging	12.54 m	12.88 m	13.26 m	13.20 m	13.53 m	13.90 m

equipment at full reach with bucket, total length						
Retracted digging equipment with bucket, height	3.20 m	3.21 m	3.06 m	3.21 m	3.23 m	3.15 m
Retracted digging equipment with bucket, total length	9.70 m	9.70 m	9.70 m	10.30 m	10.30 m	10.30 m
Retracted digging equipment without bucket, height	3.13 m	3.15 m	3.06 m	3.17 m	3.18 m	3.15 m
Retracted digging equipment without bucket, total length	9.70 m	9.70 m	9.70 m	10.30 m	10.30 m	10.30 m

NOTE!
These heights apply to the digging equipment.

Cab height sometimes exceeds digging equipment height.

Document Title: **Travel speed**	Function Group: **030**	Information Type: **Service Information**	Date: **11/12/2025**
Profile:			

Travel speed

WL (wide, long undercarriage)	
High speed	5.02 km/h
Low speed	3.51 km/h
NS (narrow, short undercarriage)	
High speed	5.00 km/h
Low speed	3.25 km/h

Document Title: **Weights**	Function Group: **030**	Information Type: **Service Information**	Date: **11/12/2025**
Profile:			

Weights

Superstructure, excl. digging equipment and operator	12 250 kg
Counterweight	5 200 kg
Diesel engine, incl. pump gearbox and pumps	1 240 kg
Boom cylinder	663 kg
Boom 5.8 m incl. dipper arm cylinder	2 570 kg
Boom 6.4 m incl. dipper arm cylinder	2 720 kg
Dipper arm 2.3 m incl. bucket cylinder and linkage	1 260 kg
Dipper arm 2.7 m incl. bucket cylinder and linkage	1 330 kg
Dipper arm 3.2 m incl. bucket cylinder and linkage	1 430 kg

Operating weights and ground pressure for WL (wide, long undercarriage):
Counterweight 5 200 kg, boom 6.4 m, dipper arm 2.3 m, quickfit 224 kg, bucket approx. 1 150 kg.

Track width	**Ground pressure**	**Total weight**
500 mm	63.87 kPa/0.65 kgf/cm²	28 200 kg
600 mm	53.99 kPa/0.55 kgf/cm²	28 600 kg
700 mm	46.94 kPa/0.48 kgf/cm²	29 000 kg
800 mm	41.65 kPa/0.42 kgf/cm²	29 400 kg

Operating weights and ground pressure for NS (narrow, short undercarriage):
Counterweight 5 200 kg, boom 6.4 m, dipper arm 2.3 m, quickfit 224 kg, bucket approx. 1 000 kg.

Track width	**Ground pressure**	**Total weight**
500 mm	63.54 kPa/0.65 kgf/cm²	27 250 kg
600 mm	53.74 kPa/0.55 kgf/cm²	27 650 kg
700 mm	46.74 kPa/0.48 kgf/cm²	28 050 kg
800 mm	41.50 kPa/0.42 kgf/cm²	28 450 kg

Document Title:	Function Group:	Information Type:	Date:
Digging equipment	**03**	**Service Information**	**11/12/2025**
Profile:			

Digging equipment

Digging equipment, bearings

Bearing location								
	Degree of wear in mm							
	Shaft - Lug				**Total**			
	25%	**50%**	**75%**	**100%**	**25%**	**50%**	**75%**	**100%**
Boom - base machine	0.4	0.7	1.1	1.5	0.9	1.3	1.9	2.5
Dipper arm - Bucket	0.8	1.4	2.1	2.9	1.8	2.7	3.8	4.9
Boom - dipper arm	0.6	1.1	1.6	2.2	1.4	2.1	2.9	3.8
Hydraulic cylinders	0.6	1.1	1.6	2.2	1.4	2.1	2.9	3.8
Bucket link system	0.8	1.4	2.1	2.9	1.8	2.7	3.8	4.9

Measurements of new parts	
Shaft diameter (mm)	**Total theoretical maximum play (mm)**
80 - 100	0.26
110	0.28

Document Title:	Function Group:	Information Type:	Date:
Tightening torque, general	**03**	**Service Information**	**11/12/2025**
Profile:			

Tightening torque, general

Tightening must be carried out to the prescribed torque without stopping. This is to avoid the torque wrench being released at too low a torque by the higher static friction.
The tables below are taken from Volvo Excavator's standard. For complete information, see EXC 42071, 120 and EXC 42071, 130.
Before fitting pipe couplings, plugs and hoses:

- Make sure that the sealing surfaces are clean, free of pores and scratches and have the prescribed surface texture.
- Check elastic sealing rings for defects.
- Oil threads, tapers, sealing and contact surfaces.

Drawing specifications:
[Invalid linktarget]: Torques specified on drawings must be followed.
Torques may be higher or lower than "standard".
An extremely high degree of torque accuracy is required.
[Invalid linktarget]: A Pos balloon containing "Mv" for individual bolts or couplings means torque to EXC-standards and a high degree of torque accuracy.
Fig. 3: An "Mv-note" on a drawing, extent as in supplementary text, means torque to EXC-standards and that a high degree of torque accuracy is required in all bolted joints.

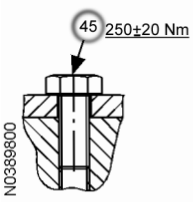


Figure 1

45 Tightening torque
250±20 Nm

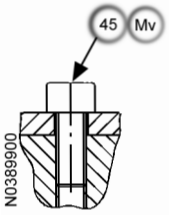


Figure 2

Mv 45

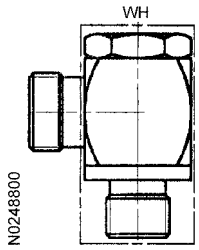
Mv Screws as per EXC 42071, 120
Mv Couplings and hose clips as per EXC 42071, 130
Fig. 3

Tightening torque in Nm

	5 - 10	11 - 50	51 - 100	101 - 200	201 - 400	401 - 1000	1001 -
Tolerance	± 1.5	± 4	± 10	± 20	± 40	± 80	± 100

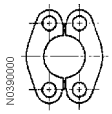
Document Title: **Tightening torques, banjo bolts**	Function Group: **03**	Information Type: **Service Information**	Date: **11/12/2025**
Profile:			

Tightening torques, banjo bolts

WH  **Figure 1**	**Thread (inch/mm)**	**Pressure class**	**Pipe o.d. (mm)**	**Across-flats width (mm)**	**Torque (Nm)**
14 026 430	G 1/4	Low	8	19	50
14 026 431	G 1/4	Low	10	19	50
14 026 152	G 1/2	Low	15	30	130
14 214 142	G 1/4	High	8	19	50
14 211 073	G 3/4	High	20	36	250
14 213 319	M 12x1.5	Low	8	19	50
14 213 320	M 14x1.5	Low	10	19	60
14 213 321	M 16x1.5	Low	12	24	90
14 026 454	M 18x1.5	Low	15	27	110
14 215 499	M 22x1.5	Low	18	30	150

Document Title: **Tightening torques, flange halves**	Function Group: **03**	Information Type: **Service Information**	Date: **11/12/2025**
Profile:			

Tightening torques, flange halves

 **Figure 1**	**SAE size**	**Pressure class (psi) [1]**	**Bolt size zinc-coated, chromated**	**Width across flats (mm)**	**Hex socket drive (mm)**	**Torque (Nm)**
14 053 650	3/4	6000	M10x35	16	8	45
14 048 189	1	6000	M12x40	18	10	80
14 024 055	1 1/4	6000	M12x45	18	10	80
14 236 931	1 1/4	6000	M14x50	21	12	125
14 211 121	1 1/2	6000	M16x60	24	14	190

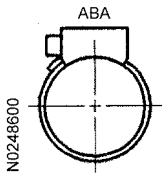
[1]6000 psi = 41.4 Mpa.

VOLVO

Service Information

Document Title: **Tightening torques, hose clips**	Function Group: **03**	Information Type: **Service Information**	Date: **11/12/2025**
Profile:			

Tightening torques, hose clips

 **Figure 1**	**For outside diameter (mm)**	**Width across flats (mm)**	**Torque (Nm)**	**Torque "2" after warming-up (Nm)**
943 469	10 - 13	7	2.5 - 3.5	-
943 470	(13) - 16	7	2.5 - 3.5	-
-	(16) - 19	7	4 - 5	-
943 472	(19) - 23	7	4 - 5	-
943 473	(23) - 27	7	4 - 5	-
943 474	(27) - 30	7	4 - 5	-
943 475	(30) - 36	7	4 - 5	-
943 476	(36) - 43	7	5 - 6	-
943 477	(43) - 49	7	5 - 6	-
943 478	(49) - 54	7	5 - 6	-
943 479	(54) - 64	7	5 - 6	-
943 480	(64) - 73	7	5 - 6	-
943 481	(73) - 83	7	5 - 6	-
943 482	(83) - 93	7	5 - 6	-
943 483	(93) - 110	7	5 - 6	-
943 484	(110) - 136	7	5 - 6	-
943 485	(136) - 163	7	5 - 6	-
14 016 541	(163) - 180	7	5 - 6	-
14 042 985	(205) - 231	7	5 - 6	-
PA -RI				
14 261 827	(39) - 45	5	5	5
14 261 828	(49) - 55	5	5	5
14 261 829	(61) - 67	5	5	5
14 261 830	(73) - 79	5	5	5

VOLVO

Service Information

Document Title: **Tightening torques, nuts and bolts**	Function Group: **03**	Information Type: **Service Information**	Date: **11/12/2025**
Profile:			

Tightening torques, nuts and bolts

Across-flats width Flange	**Across-flats width Hexagonal (mm/inch)**	**Across-flats width Hex socket (mm/inch)**	**Thread**	**Torque (Nm) qual.: 8.8 zinc-coated chromated dry**	**Torque (Nm) qual.: 10.9 untreated oiled**	**Torque(Nm) qual.: 10.9 zinc-coat oiled**	**Torque (Nm) qual.: 12.9 untreated oiled**
8			M5				
10	10	5	M6	10	15	13	20
12	13	6	M8	25	35	32	40
14	16	8	M10	45	65	62	80
17	18	10	M12	80	120	109	140
18	21	12	M14	125	180	174	220
21	24	14	M16	190	280	266	340
	30	17	M20	370	540	370	650
	36	19	M24	640	940	898	1120
	41	-	M27	830	1350	1296	1620
	46	22	M30	1260	1840	1765	2210
	55		M36	2190	3210	3082	3850
	7/16	3/16	1/4	10	15	14	20
	1/2	1/4	5/16	20	30	30	40
	9/16	5/16	3/8	35	55	52	70
	3/4	3/8	1/2	90	130	125	170
	15/16	1/2	5/8	180	260	249	330
	1 1/8	5/8	3/4	310	460	437	570
	1 5/16	-	7/8	500	730	700	910
	1 1/5	3/4	1	740	1090	1046	1360

Document Title: **Tightening torques, pipe couplings and hoses with DKO-fittings**	Function Group: **03**	Information Type: **Service Information**	Date: **11/12/2025**
Profile:			

Tightening torques, pipe couplings and hoses with

Tighten DKO connections with open-ended torque wrench.

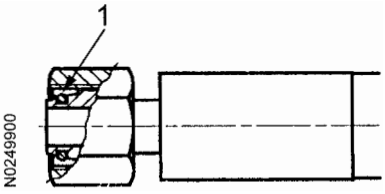
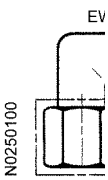
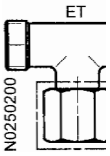
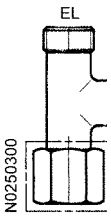
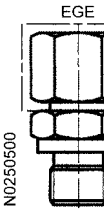
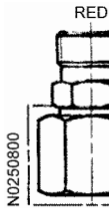
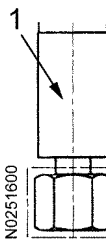


Figure 1
O-ring

EW  **Figure 2**	**ET**  **Figure 3**	**EL**  **Figure 4**	**EGE**  **Figure 5**	**RED**  **Figure 6**	 **Figure 7**	**Thread (inch/ mm)**	**Pressure class [1]**	**Pipe o.d. (mm)**	**Width across flats (mm)**	**Torque (Nm)**
14 012 391	14 012 387	14 012 383	[2]	[3]	[4]	M14x1.5	L	8	17	30
14 012 393	14 012 388	14 052 740	[5]	[6]	[7]	M16x1.5	L	10	19	45
14 012 395	14 012 389	14 012 384	[8]	[9]	[10]	M22x1.5	L	15	27	75
14 012 397	14 043 552	14 043 547	-	[11]	[12]	M30x2.0	L	22	36	110
14 012 392	-	14 215 487	-	-	[13]	M16x1.5	S	8	19	40
14 310 009	-	-	-	[14]	-	M18x1.5	S	10	22	50
14 214 854	14 341 817	14 341 816	-	-	-	M24x1.5	S	16	30	80
14 012 396	14 211 064	14 211 065	[15]	[16]	[17]	M30x2.0	S	20	36	120
14 012 398	14 024 423	14 012 385	[18]	[19]	-	M36x2.0	S	25	46	170
-	-	-	-	-	[20]	M36x2.0	S	25	41	170
14 012 399	14 012 390	14 012 386	[21]	[22]	[23]	M42x2.0	S	30	50	250
14 016	-	14 016	[24]	[25]	[26]	M52x2.0	S	38	60	350

972	554

[1]L = Low, S = High

[2]Several different art. nos. exist for each nominal pipe size.

[3]Several different art. nos. exist for each nominal pipe size.

[4]Several different art. nos. exist for each nominal pipe size.

[5]Several different art. nos. exist for each nominal pipe size.

[6]Several different art. nos. exist for each nominal pipe size.

[7]Several different art. nos. exist for each nominal pipe size.

[8]Several different art. nos. exist for each nominal pipe size.

[9]Several different art. nos. exist for each nominal pipe size.

[10]Several different art. nos. exist for each nominal pipe size.

[11]Several different art. nos. exist for each nominal pipe size.

[12]Several different art. nos. exist for each nominal pipe size.

[13]Several different art. nos. exist for each nominal pipe size.

[14]Several different art. nos. exist for each nominal pipe size.

[15]Several different art. nos. exist for each nominal pipe size.

[16]Several different art. nos. exist for each nominal pipe size.

[17]Several different art. nos. exist for each nominal pipe size.

[18]Several different art. nos. exist for each nominal pipe size.

[19]Several different art. nos. exist for each nominal pipe size.

[20]Several different art. nos. exist for each nominal pipe size.

[21]Several different art. nos. exist for each nominal pipe size.

[22]Several different art. nos. exist for each nominal pipe size.

[23]Several different art. nos. exist for each nominal pipe size.

[24]Several different art. nos. exist for each nominal pipe size.

[25]Several different art. nos. exist for each nominal pipe size.

[26]Several different art. nos. exist for each nominal pipe size.

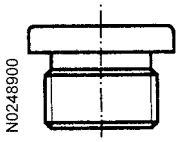
Document Title: **Tightening torques, pipe nuts**	Function Group: **03**	Information Type: **Service Information**	Date: **11/12/2025**
Profile:			

Tightening torques, pipe nuts

Thread (mm)	Pressure class	Pipe o.d. (mm)	Across-flats width	Torque (Nm)
M12x1.5	Low	6	14	25
M14x1.5	Low	8	17	35
M16x1.5	Low	10	19	45
M18x1.5	Low	12	22	75
M22x1.5	Low	15	27	110
M26x1.5	Low	18	32	180
M30x2.0	Low	22	36	280
M36x2.0	Low	28	41	300
M45x2.0	Low	35	50	450
M52x2.0	Low	42	60	680
M14x1.5	High	6	17	45
M16x1.5	High	8	19	65
M18x1.5	High	10	22	80
M20x1.5	High	12	24	100
M22x1.5	High	14	27	140
M24x1.5	High	16	30	160
M30x2.0	High	20	36	350
M36x2.0	High	25	46	450
M42x2.0	High	30	50	650
M52x2.0	High	38	60	800

Document Title: **Tightening torques, pipe plugs**	Function Group: **03**	Information Type: **Service Information**	Date: **11/12/2025**
Profile:			

Tightening torques, pipe plugs

VS  **Figure 1**	**Thread (inch/mm)**	**Pressure class (bar) [1]**	**Hex socket drive (mm)**	**Torque (Nm)**
14 023 406	G 1/8	400	5	15
14 023 407	G 1/4	400	6	33
14 023 408	G 3/8	400	8	70
14 023 409	G 1/2	400	10	90
14 023 410	G 3/4	400	12	150
14 023 411	G 1	400	17	250
14 215 723	G 1 1/4	400	22	600
14 215 724	G 1 1/2	400	24	800
14 023 412	G 1 1/4	250	22	500
14 023 413	G 1 1/2	250	24	500
14 024 363	M 10x1.0	400	5	13
14 211 624	M 12x1.5	400	6	30
14 211 623	M 14x1.5	400	6	40
14 211 625	M 16x1.5	400	8	60
14 024 814	M 18x1.5	400	8	70
14 024 233	M 22x1.5	400	10	100
14 340 607	M 26x1.5	400	12	120
14 266 484	M 27x2.0	400	12	150
14 267 223	M 33x2.0	400	17	250
14 212 167	M 42x2.0	250	22	400

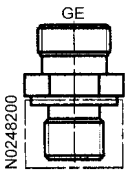
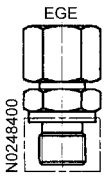
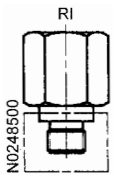
[1]250 bar = 25 MPa, 400 bar = 40 MPa.

VOLVO

Service Information

Document Title: **Tightening torques, tapped threads**	Function Group: **03**	Information Type: **Service Information**	Date: **11/12/2025**
Profile:			

Tightening torques, tapped threads

GE  **Figure 1**	**EGE**  **Figure 2**	**RI**  **Figure 3**	**Thread (inch/mm)**	**Pressure class**	**Pipe o.d. (mm)**	**Width across flats (mm)**	**Torque (Nm)**
14 012 413	14 023 056	[1]	G 1/4	Low	8	19	40
14 012 418	14 023 611	[2]	G 1/4	Low	10	19	40
14 012 423	14 012 381	[3]	G 1/2	Low	15	27	100
14 012 431	-	[4]	G 3/4	Low	22	32	200
14 215 486	-	-	G 1/4	High	8	19	60
14 012 428	14 211 062	[5]	G 3/4	High	20	32	200
14 012 432	14 012 382	[6]	G 1	High	25	41	350
14 012 433	14 042 775	[7]	G 1 1/4	High	30	50	500
14 012 436	14 023 190	[8]	G 1 1/2	High	38	55	600
14 025 136	-	-	M 12x1.5	Low	8	17	30
14 100 430	14 341 573	-	M 14x1.5	Low	10	19	50
14 213 266	14 340 537	-	M 16x1.5	Low	12	22	60
14 012 424	14 263 962	-	M 18x1.5	Low	15	24	80
14 012 430	-	-	M 26x1.5	Low	22	32	200
14 012 416	-	-	M 14x1.5	High	8	19	60
14 211 561	-	-	M 16x1.5	High	10	22	80
14 266 715	14 266 716	-	M 22x1.5	High	16	27	150
14 211 250	14 211 244	-	M 27x2.0	High	20	32	200
14 025 324		-	M 33x2.0	High	25	41	350
14 016 814	14 016 813	-	M 42x2.0	High	30	50	500
-	-	-	M 48x2.0	High	38	55	600

[1]Several different art. nos. and across-flats widths exist for each nominal pipe size.

[2]Several different art. nos. and across-flats widths exist for each nominal pipe size.

[3]Several different art. nos. and across-flats widths exist for each nominal pipe size.

[4]Several different art. nos. and across-flats widths exist for each nominal pipe size.

[5]Several different art. nos. and across-flats widths exist for each nominal pipe size.

[6]Several different art. nos. and across-flats widths exist for each nominal pipe size.

[7]Several different art. nos. and across-flats widths exist for each nominal pipe size.

[8]Several different art. nos. and across-flats widths exist for each nominal pipe size.

VOLVO

Service Information

Document Title:	Function Group:	Information Type:	Date:
NET 00001 Puller	**080**	**Service Information**	**11/12/2025**
Profile:			

NET 00001 Puller

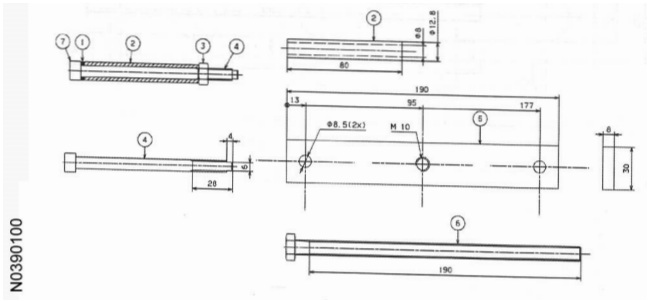


Figure 1

Item	Quantity	Name
1	2	O-ring 13.1 x 2.4
2	2	Round bar Ø 16 Steel 2172 - 00
3	4	Nut M8
4	2	Bolt MC6S 10 x 110
5	1	Flat bar 30 x 8 Steel 1312 - 00
6	1	Bolt M6S 10 x 200

Document Title: **NET 00002 Dismantling tools**	Function Group: **080**	Information Type: **Service Information**	Date: **11/12/2025**
Profile:			

NET 00002 Dismantling tools

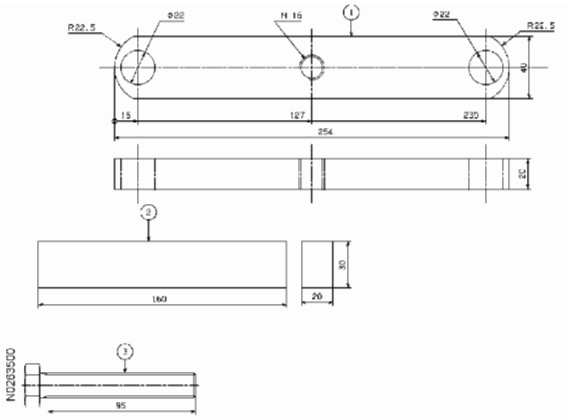


Figure 1

Item	Quantity	Name
1	1	Flat bar 40 x 20 Steel 1312 - 00
2	1	Flat bar 30 x 20 Steel 1312 - 00
3	1	Bolt M6S 16 x 100