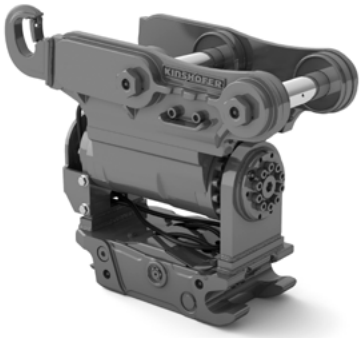
VOLVO

ATTACHMENTS CATALOGUE

VOLVO COMPACT EXCAVATORS



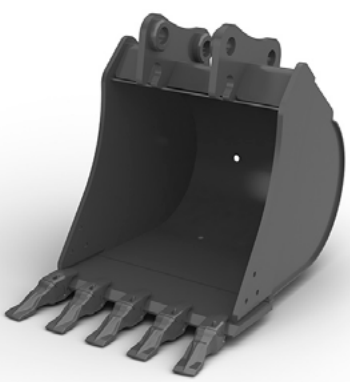
















For internal use only
Volvo Compact Excavator

Table of content

Section 1
Introduction

Introduction to Volvo attachments 6

International Standards , bucket capacities & Fill factors 6
Standards 6
Bucket capacity ISO 7451 6
Bucket fill factor 6
Breakout force 7
How bucket width effects the penetration force 7
How bucket tip radius effects the breakout force 7
Restrictions 7
Abbreviations 7
Unit conversions & CE mark 8
Weights and measures 8
CE mark
(Applies only to machines marketed within the EU/EEA) 8
Material densities 9

Volvo and Preferred attachments 10

Volvo attachments 10
Preferred attachments 10
Supplier contact list. 10

Attachment Selector Application 11

Section 2
Attachment descriptions

Quick couplers (QC) and interfaces 14

Volvo attachment systems overview 14
Pin on type quick couplers and interfaces 16
Volvo quick couplers, Pin grabber type, Mechanical & Hydraulic 16
Volvo quick couplers, Mechanical & Hydraulic comparison 17
Volvo, Pin on type, attachments system 18
Symmetrical type quick couplers and interfaces 19
Kinshofer quick couplers, Symmetrical type, Mechanical, description 19
Steelwrist® quick couplers, Symmetrical type, Hydraulic, description 20
Kinshofer Mechanical & Steelwrist® quick couplers Hydraulic comparison 21
Kinshofer Tilt quick couplers description 22
Volvo, Symmetrical type, attachments system 24
Lehnhoff® type quick couplers and interfaces 25
Lehnhoff® quick couplers, Lehnhoff type, Mechanical & Hydraulic, description 25
Lehnhoff® quick couplers, Mechanical & Hydraulic comparison 27
Volvo, Lehnhoff® type, attachments system 28
Quick Couplers naming system in MOM 29

Volvo buckets 30

Volvo buckets 30
Genuine attachments – Quality 30
Transport System 30
Universal Cut buckets (V4) 32
General purpose bucket (GP) 32
Ditch cleaning buckets (Ditch) 33
Aggressive Cut buckets (V6) 34
General purpose bucket (GPX) 34
Cable bucket (CAX) 35
Tiltrotator Grading bucket (TGX) 36
Volvo digging bucket overview. 37
Volvo grading & ditching bucket overview 38
Bucket naming system in MOM 39

Volvo hydraulic breakers 40

Volvo breakers & brackets 40
Volvo hydraulic breakers (HB) 40
Features and specifications quick check 41
Two speed valve (only available on HB08) 41
Volvo breaker brackets (BB) 42
Volvo breaker paste 42
Breaker naming system in MOM 43

Volvo Hydraulic Thumb 44

Volvo Hydraulic Thumb 44
Thumb naming system in MOM 45

Steelwrist® Tiltrotator and Volvo Control System 46

Tiltrotator and Control System Customer benefits 46
Tiltrotator Control system 47
Steelwrist® Tiltrotator 48
Tiltrotator configurations 49
Gripper cassette option. 49
Tiltrotator naming system in MOM 50

Section 3
Attachments ordering information

Volvo "Pin on type" attachment system 54

Volvo "Pin on type" attachment system overview 54
Volvo Pin grabber Quick Couplers 55
Volvo Pin kits 56
Volvo "Pin on type" buckets 57
EC15E, EC18E, ECR18E, EC18 Electric, ECR18 Electric 57
EC20E 58
ECR25D,ECR25 Electric ,EC27D 59
EC37F, ECR40F 60
ECR50F, ECR58F, EC60E, EW60E 61
ECR88D 62
Volvo Hydraulic Thumb 63

Volvo "Lehnhoff® type" attachment system 64

Volvo "Lehnhoff® type" attachment system overview. 64
Lehnhoff® Quick Couplers 65
Tilt Quick Couplers 2 x 90° (Lehnhoff® type) 66
Volvo "Lehnhoff® type" buckets 68
EC15E, EC18E, ECR18E, EC18 Electric, ECR18 Electric, EC20E 68
ECR25D, ECR25 Electric, EC27D, EC37F, ECR40F 69
ECR50F, ECR58F 70
EC60E, EW60E 71
ECR88D 72

Volvo "Symmetrical type" attachment system 73

Volvo "Symmetrical type" attachment system overview 73
"Symmetrical type" bucket Guide 74
Kinshofer Quick Coupler Mechanical 75
Steelwrist® Quick Coupler Hydraulic 76
Tilt Quick Couplers 2 x 90° (Symmetrical type) 77
Volvo "Symmetrical type" buckets. 79
EC15E, EC18E, ECR18E, EC18 Electric, ECR18 Electric, EC20E - (S30) 79
ECR25D, ECR25 Electric, EC27D - (S40) 80
EC37F, ECR40F - (S40) 81
ECR50F, ECR58F - (S40) 82
EC60E, EW60E - (S40) 83
ECR88D - (S50) 84

Volvo Hydraulic breakers 85

Tiltrotators and Volvo Control System 90

Steelwrist® tiltrotator models : Weight & Dimension 91

Section 4
Volvo Ground Engaging Tools

Volvo teeth and bolt on edge (for buckets) 94

Volvo teeth description 94
Volvo teeth for digging buckets part numbers 96
Bolt on edge for Ditch cleaning buckets part numbers 96

Volvo breaker tools 97

Tool application guide 97
Moils & Chisels 98
Blunts, Spade & Compacting blade. 99

Volvo Breaker paste 100

® : Steelwrist is a registered trademark from Steelwrist AB
® : Lehnhoff is a registered trademark from Lehnhoff Hartstahl GmbH

SECTION 1
INTRODUCTION


VOLVO
EC27D

Introduction to Volvo attachments

International Standards , bucket capacities & Fill factors

Standards

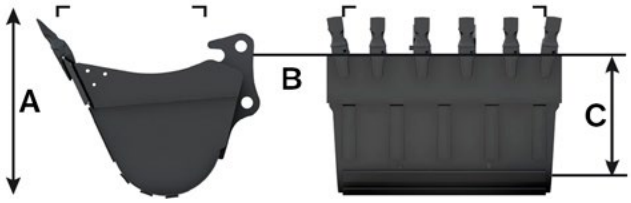
The standards and/or recommendations applied by Volvo Construction equipment refer to ISO, SAE and EN standards.

ISO – the International Standards Organization – is an international organization dedicated to standardization.

SAE – stands for the Society of Automotive Engineers, an American organization dedicated to standardization.

EN – stands for European Norm – a European standard within the framework of the EU machinery directive.

Depending on the application and various material densities, sizes of materials, etc. an alternative type/ capacity of attachment not indicated in this catalog may be chosen after consulting with Volvo Construction Equipment. Older attachments may be used on later Volvo compact excavator models provided the attachments have the same or smaller capacity than recommended for the new model, and if necessary, modifications regarding fitting are executed in compliance with recommendations.



A: Heaped capacity
B: Strike of plane
C: Struck capacity

Bucket capacity ISO 7451

The bucket capacity is specified according to ISO 7451 standard. The volume of the bucket is expressed in m^3 struck and heaped. In order to calculate the capacity of the different bucket forms, it is divided into simple geometrical bodies. By adding up the struck capacity and the capacity of the strike plane – see drawing – you get the nominal volume according to ISO standard in m^3. The stuck volume is the volume below the struck level. The volume of material above the strike plane refers to the heaped volume; the angle of repose ratio is 1:1.
Bucket capacity in this catalogue is calculated as heaped capacity.

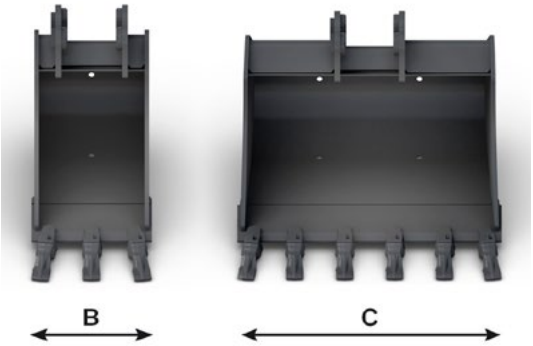
Bucket fill factor

Bucket volume alone is not an adequate measure of the capacity of the excavator. A large bucket can mean lower productivity because it is more difficult to fill, while a smaller bucket that is easier filled can increase the performance of a machine (see the diagrams on the effects of digging force). Generally, the more cohesive the material, the higher the fill factor will be. A number of factors have to be taken into account, such as the working environment, the ground conditions, the nature of the material being handled and its density, the condition of the machine and the operator's skills.

Generally, the more cohesive the material, the higher the fill factor will be. However, although fill factor can be high for materials such as clay, large voids can be evident, thus the actual volume is not necessarily high. As an example, in the table below you'll find that sand has a higher fill factor than shot rock for a given bucket capacity. If an undersized bucket is specified to extract well fragmented rock, high fill factors can still be attained.

Material	Bucket fill %	Material density ton/m^3	Material density lb/yd^3
Earth/Clay	~110	~1.60	~2.695
		~1.55	~2.610
		~1.50	~2.530
Sand/Gravel	~105	~1.70	~2.865
		~1.65	~2.780
		~1.60	~2.695
Aggregate	~100	~1.80	~3.035
		~1.70	~2.865
		~1.65	~2.780
Rock	≤100	~1.70	~2.865

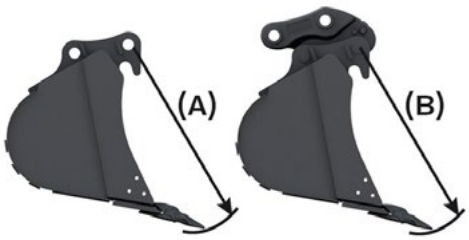
Breakout force



How bucket width effects the penetration force

Narrower buckets serve to maximize available digging forces in comparison to wider buckets and are mostly used in hard or compact materials.

$$\% \text{ loss in bucket penetration force} = \frac{(C - B)}{B} \times 100$$



How bucket tip radius effects the breakout force

The shorter the distance between the pivot point and bucket/tooth edge (tip radius) the greater the breakout force.

$$\% \text{ loss in bucket breakout force} = \frac{(B - A)}{B} \times 100$$

Restrictions

A loss of stability becomes more likely the further the loaded bucket is away from the centre line of the excavator. This is why the operator must select the attachment type and capacity so that the total combined weight of the attachments and the material being handled must never exceed the machine performance. Since all of these factors vary, a wide selection of attachments is required in order to achieve maximum productivity. The Volvo range offers such a wide selection.

Abbreviations

Buckets & Ground Engaging tools			
BOE	Bolt on edge	**GP**	General purpose
DF	Direct Fit	**B5**	5 Bolt on teeth
FD	Fixed Ditching	**TD**	Tilt-able Ditching
GET	Ground Engaging tools	**VTS**	Volvo tooth system
G5	5 General purpose teeth	**WOE**	Weld on edge

Quick Couplers	
LQC	Lehnhoff® Quick Coupler
VQC (PO)	Volvo Quick Coupler (pin on type)

Unit conversions & CE mark

Weights and measures

The following conversions are given to facilitate any necessary calculations. Standard International (SI) units are used throughout the catalog.

1 mm	0.03937 in	
1 m	3.281 ft	39.37 in
1 kg	2.205 lb	
1 t	1000 kg	2.205 lb
1 kN	102 kp	224.8 lbf
1 m^2	10.76 ft^2	
1 m^3	1.308 yd^3	
1 dm^3 (l)	61.02 in^3	
1 dm^3/min	1 l/min	0.2642 US gal/min
1 t/m^3	1.686 lb/yd^3	
1 kW	1.360 hp	
1 km/h	0.6214 mile/h	
1 MPa	10 bar	145 lbf/in^2 (psi)
1 kp	2.205 lbf	
1 Nm	0.7376 lbf ft	

CE mark (Applies only to machines marketed within the EU/EEA)

Attachments are classified either as "Tools" or as "Interchangeable equipment". Interchangeable equipment are attachments which can be controlled hydraulically or electrically and interchangeable by the operator. Interchangeable equipment is CE marked. This means, when it is delivered to the customer the interchangeable equipment meets the applicable "Essential Health and Safety Requirements" according to EU's Machine Safety Directive, 2006/42/EC. Any person carrying out changes which could influence the safety of the interchangeable equipment must also follow this directive.

As proof of compliance a declaration of Conformity is supplied with the attachment. These declarations are issued by Volvo CE for each individual interchangeable equipment. This is important documentation which should be kept safe and retained for at least ten years. The document should always accompany the interchangeable equipment when it is sold. The attachments which are classified as "Tools" do not require CE marking and therefore do not require a declaration of conformity.

Material densities

MATERIAL	Bank kg/bm³	Loose kg/lm³	Swell
Ashes, soft coal with slagg	600–900	500–800	1.1
Bauxite	1 900	1 400	1.3
Brick	–	1 600–1 900	–
Cement	1 750	1 450	1.2
Caliche	2 250	1 250	1.8
Clay: dry	1 700	1 300	1.3
Clay: wet	2 250	1 600	1.4
+ gravel, dry	1 700	1 400	1.2
+ gravel, wet	1 800	1 500	1.2
compacted	2 000	1 700	1.2
Coal:			
anthracite	1 300–1 550	1 000–1 200	1.3
bitumous	1 100	800	1.4
lignite	1 250	900	1.4
Concrete:			
dry	1 900–2 500	1 400–1 800	1.4
wet	-	2 150	-
Copper ore	1 900	1 600	1.2
Earth: dry	1 700	1 300	1.3
Earth: wet	1 900	1 600	1.2
+ sand and gravel	1 800	1 600	1.1
+ 25% stone	2 000	1 600	1.2
loam	1 500	1 250	1.2
Granite	2 600–3 000	1 650–1 800	1.6
Gravel: dry	1 700	1 500	1.1
Gravel: moist, wet	2 200	2 000	1.1
Gypsum: blasted	2 900	1 600	0.8
Gypsum: crushed	3 100	1 800	1.7
Iron ore:			
Hematite	2 800–3 900	2 300–3 200	1.2
Limonite	5 100–7 000	2 300–3 200	1.7-2.2
Magnetite	2 800–3 900	2 300–3 200	1.2
Kaolin	1 700	1 300	1.3
Lime	–	800	–
Limestone:			
blasted	2 600	1 600	1.6
loose, crushed	–	1 500	–
marble	2 700	1 600	1.7
Mud: dry	2 200–2 999	1 800–2 499	0.2
Mud: wet (moderately comp.)	3 000–3 500	2 500–2 900	1.2
Rock: well blasted	2 850	1 700	1.7
Rock: + stone crushed	2 850	1 700	1.7
Sandstone	2 500	1 500	1.7
Sand:			
dry	1 900	1 700	1.1
wet	2 100	1 900	1.1
+ gravel, dry	1 900	1 700	1.1
+ gravel, wet	2 200	2 000	1.1
Shale: soft rock	1 800	1 300	1.4
Shale: riprock	1 750	1 250	1.4
Slag	3 000	1 750	1.7
Slate	2 800	2 100	1.3
Top soil	1 400	1 000	1.4
Traprock-	3 000	2 000	1.5

Weights are approximate. Tests must be carried out to determine exact material characteristics.

Bank volume (**Bm³, Byd³**) is the undisturbed material in the ground (in-situ), i.e. before extraction.
Loose volume (**Lm³, Lyd³**) is the volume of the material when it is loaded. The loose volume is larger than the bank volume since the material expands when excavated. This difference is called swell.

Volvo and Preferred attachments

Volvo attachments

Designed by Volvo engineers to ensure the perfect match!
Volvo Construction Equipment offers a wide range of machinery and a wider range of attachments to meet almost any requirement. Not only do Volvo attachments cover a wide variety of applications, they also meet an array of different needs within an application.

How we fine tune the choice of attachment can allow the machine to perform optimally and save time, fuel and money while placing the customer in a perfect position to make a profit!

Preferred attachments

To further extend the versatility of Volvo Compact Excavators, we have adapted attachments made by other manufacturers to suit our products. This makes it easier for our costumers to select the attachment that yields the best results with Volvo Compact Excavators. Attachments matched to specific compact excavators guarantee an effective combination. Detailed specifications and other information can be obtained from the respective manufacturer or local distributor

Disclaimer – Preferred attachment
Aftermarket support of Preferred Attachments is not handled by Volvo CE Customer Support. In case of technical or service issues, warranty and spare parts, please contact the suppliers directly.

Supplier contact list

Lehnhoff® quick couplers:

Lehnhoff Hartstahl GmbH
Rungsstr. 10-15
D-76534 Baden-Baden
Germany
https://www.lehnhoff.com
Email: info@lehnhoff.de

Steelwrist quick couplers and tiltrotators:

Steelwrist AB
Titangatan 9
195 72 Rosersberg
Sweden
https://steelwrist.com
Email: support@steelwrist.com

Kinshofer quick couplers:

Kinshofer GmbH
Raiffeisenstrasse 12
83607 Holzkirchen
Germany
https://kinshofer.com
Email: info@kinshofer.com

Attachment Selector Application

The Attachment Selector tool is a free global mobile Sales Tool for iOS and Android smartphones allowing to rapidly choose the right attachments for Volvo CE machines. This is a global tool, in which users can easily choose any of the 10 available languages. Taking the user through a straightforward selection process, the search results provide key sales information for users such as technical specifications or sales references.

Truly a mobile app, wherever users are - online in the office or offline on site - they will be able to search for any attachment for a specific Volvo CE machine, or look for the right machine to match a specific reference.



Use the QR codes to get the free ATTACHMENT SELECTOR tool for IOS on App Store, for Android on Play Store.

Apple App Store
QR code

Google Play Store
QR code

SECTION 2
ATTACHMENT DESCRIPTIONS


VOLVO

Quick couplers (QC) and interfaces

Volvo attachment systems overview

		Direct Fit & Pin Grabber type			Symmetrical type S30/180- S40-S50				
Coupling system	Direct Fit	X						X	
	Quick Coupler type		Mechanical	Hydraulic	Mechanical	Hydraulic	Tiltable 2x90°	Direct Fit Tiltrotator 2x45° / 360°	Sandwich Tiltrotator 2x45° / 360°
	CEX range covering	From 1,5 t CEX	From 1,5 t CEX	From 3,5 t CEX	From 1,5t CEX	From 2,5 t CEX	From 1,8 t CEX	From 3,5 t CEX	From 3,5 t CEX
	Quick Coupler brand		Volvo	Volvo	Kinshofer	Steelwrist®	Kinshofer	Steelwrist®	Steelwrist®
Compatibility	Thumb compatibility		Yes						
	Tiltrotator compatibility	Yes				Yes			
Universal cut buckets	GP buckets with Volvo teeth	Yes	Yes (+ 1 Pin kit / bucket)		Yes				
	Fix Ditch buckets	Yes	Yes (+ 1 Pin kit / bucket)		Yes				
	Tilt-ditch buckets 2x45°	Yes	Yes (+ 1 Pin kit / bucket)		Yes				
Agressive cut buckets (Nordic markets mainly)	GPX bucket				Yes				
	Cable buckets CAX				Yes				
	Tiltrotator Grading buckets TGX							Yes	
Breaker range	Breaker brackets	Yes	Yes (+ 1 Pin kit / bracket)		Yes				
	Hydraulic Breakers	Yes			Yes			Yes (Not allowed to work with Tiltrotator)	

		Lehnhoff® type MS01 - MS03 - HS01 - HS03 - HS08 (German market mainly)		
Coupling system	**Direct Fit**			
	Quick Coupler type	Mechanical	Hydraulic	Tiltable 2x90°
	CEX range covering	From 1,5t to 4t CEX	From 2,5t CEX	From 1,8t CEX
	Quick Coupler brand	**Lehnhoff®**	**Lehnhoff®**	**Kinshofer**
Compatibility	**Thumb compatibility**			
	Tiltrotator compatibility			
Universal cut buckets	**GP buckets with Volvo teeth**	Yes		
	Fix Ditch buckets	Yes		
	Tilt-ditch buckets 2x45°	Yes		
Agressive cut buckets (Nordic markets mainly)	**GPX bucket**			
	Cable buckets CAX			
	Tiltrotator Grading buckets TGX			
Breaker range	**Breaker brackets**	Yes		
	Hydraulic Breakers	Yes		



Pin on type quick couplers and interfaces

Volvo quick couplers, Pin grabber type, Mechanical & Hydraulic



Direct fit



Mechanical quick coupler



Hydraulic quick coupler



Direct fit coupling

Direct fit is designed to fit directly to the excavator and excels when the machine is dedicated to one application.
This configuration provides the highest amount of breakout force.

Volvo pin grabber quick couplers (Mechanical and Hydraulic)

When requiring quick bucket changes manually or from the comfort of the cab, the range of Pin grabber (named Volvo Quick Coupler) also fits this bucket interface.
Please note additional Pin kit is required.

All Volvo Quick Couplers are supported by Volvo warranty and after sales
They are the corner stone of the Volvo range of Pin on type attachments (General purpose bucket, ditch cleaning buckets, hydraulic thumb, and Hydraulic breaker).

Volvo Quick Couplers, pin grabber, mechanical

Mechanical - 1.5-8 ton

Features and benefits :
- It enables the operator to change attachment quickly.
- Picks up the variety of different “Direct fit-Pin on type” Volvo attachments.
- Buckets can be attached in both normal and face mode positions.
- Shim free maintenance.

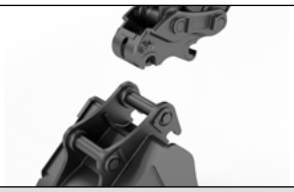
Volvo Quick Couplers, pin grabber, hydraulic, with lifting eye

Hydraulic - 3.5-8 ton

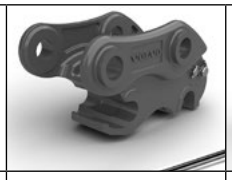
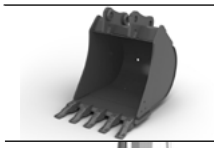
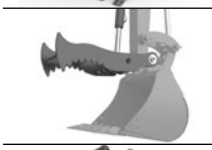
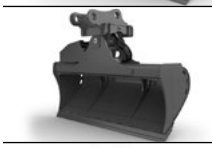
Sitting safe inside the cab, you have full management of the attachment and benefit from locking systems in line with the latest safety CE regulations and ISO standards.

Features and benefits :
- Its enables the operator to change attachment quickly and easily without leaving the cab.
- Both pin locks are fully opened & secured from the safety of the cab.
- Secured locking device to ensure that by default the locking is always “engaged”.
- Front and rear pin locking.
- The engagement of the safety lock is easily visible from the cab at all times.
- Hydraulic check valve enabling extra safety should there be a loss of hydraulic power.
- Lifting eye for more versatility.
- Compliant with the latest safety regulations ISO 13031 and EN474.

Volvo quick couplers, Mechanical & Hydraulic comparison

		Volvo Quick Coupler Mechanical Pin on type	Volvo Quick Coupler Hydraulic Pin on type
Quick Coupler Name			
Range	**Machine class**	1.5 to 8 t	3.5 to 8 t
	Model numbers	Mechanical Dedicated Volvo 1.5 t/ 2 t/ 2.5 t/ 3.5 t/ 5 t/ 8 t	Fully Hydraulic Volvo U04 (3.5 t), U05 (5 t), U08 (8 t)
Regulations		Complies with ISO 13031 and EN474	Complies with ISO 13031 and EN474
Technology	**Body**	Cast	3,5 t Cast, 5 & 8 t Welded
	Locking	Mechanical	Hydraulic
		Mechanical with lever	Both pin locks are fully opened & secured from the safety of the cab.
			Hydraulic check valve enabling extra safety should there be a loss of hydraulic power
	Lock indication	Safety pin that is inserted manually	Red latch locked on the pin
	Locking system	Rear pin locking	Front and rear pin locking
Attachment interface		**All Volvo Pin on type attachments**	**All Volvo Pin on type attachments**
			
Attachments compatibility	**Face mode position**	Buckets can be attached in both normal and face mode positions.	Buckets can be attached in both normal and face mode positions.
	Direct fit	Yes	Yes
	Volvo Bucket range	Yes	Yes
	Volvo Breaker	Yes	Yes
	Volvo Thumb	Yes	Yes
	Steelwrist® Tiltrotator	No	No
Lifting device		No	Lifting eye 1 ton (3.5 t) and 3 ton (5 t, 8 t)
QC Installation on machine		Quick and easy installation with 1 pin kit	Quick and easy installation with only two hydraulic lines and pin kit needed.
Maintenance		Greasing and visual check for wear	Greasing and visual check for wear
After sales support		After sales support from Volvo CE	After sales support from Volvo CE
Availability	**First fit**	Factory	Factory
	Loose (Europe)	Available from Volvo Loose Supply chain (Europe)	Available from Volvo Loose Supply chain (Europe)
Needed Machine options			Boom and arm hydraulic piping for the quick coupler to work on the machine
			Safety valves for the boom and arm because of lifting eye

Volvo, Pin on type, attachments system

			Volvo Pin on type attachment system		
					
			Direct fit	**Volvo QC mechanical**	**Volvo QC hydraulic**
Machine class			1.5 to 8 t		3.5 to 8 t
	Universal Cut buckets	**General Purpose Bucket (GP)**	•	•	•
		**Hydraulic Thumb**		3.5 / 5 / 8 t	3.5 / 5 / 8 t
		**Fixed Ditching Bucket (FD)**	•	•	•
		**Tiltable 45° Ditching Bucket (TD)**	•	•	•
	Aggressive Cut buckets	**General Purpose Bucket (GPX)**	-	-	-
		**Cable Bucket (CAX)**	-	-	-
		**Tiltrotator Grading Bucket (TGX)**	-	-	-
	Tiltrotator	**Steelwrist® Tiltrotator (TR)**	3.5 / 5 / 8 t Direct fit top	-	-
	Breaker	**Breaker Bracket (BB)**	•	•	•
		Hydraulic Breaker (HB)	•	•	•

Symmetrical type quick couplers and interfaces

Kinshofer quick couplers, Symmetrical type, Mechanical, description



Robust and reliable quick couplers, adaptable to all machine types.
The implement locks automatically but is loosened manually using the supplied shaft.
Compliant with the latest safety regulations ISO 13031 and EN474.

Kinshofer quick couplers S30/180 Mechanical
- Fits the S30/180 attachment interfaces standard only.
- Two versions:
  - 1.5 t: EC15E, EC18E, ECR18E, EC18 Electric, ECR18 Electric
  - 2 t: EC20E
- No lifting hook

Kinshofer quick couplers S40 Mechanical
- Fits the S40 attachment interfaces standard only.
- Three versions:
  - 2.5 t: ECR25D, ECR25Elec, EC27D
  - 3.5 t: EC37F, ECR40F
  - 5 t: EC50F, ECR58F, EC60E and EW60E
- No lifting hook

Kinshofer quick couplers S50 Mechanical for ECR88D
- Fits the S50 attachment interfaces standard only.
- S50 mechanical locking (not semi-automatic).
- No lifting hook

Kinshofer quick couplers Mechanical benefits include:
- Picks up the variety of different symmetrical S30/180, S40 or S50 Volvo attachments.
- Bucket utilization in both face shovel position and normal backhoe position.
- Shim free maintenance.
- Delivers high breakout force from low build hight.
- Tight fit between coupler and attachment.
- No lifting hook.

Kinshofer quick couplers Mechanical, from Volvo, presentation
- Kinshofer quick couplers Mechanical “from Volvo” are delivered Volvo grey, but with Kinshofer plating
- They are only available from Belley factory or Rotterdam depot .

Kinshofer quick couplers Mechanical After sales support
- Aftermarket support of Kinshofer QC Mechanical is not handled by Volvo CE Customer Support.
- In case of technical or service issues, warranty and spare parts, please contact the suppliers directly.

Kinshofer GmbH:
Raiffeisenstrasse 12
83607 Holzkirchen
Germany
https://kinshofer.com
Email: info@kinshofer.com

Volvo Symmetrical type attachment range
- A complete range of Volvo Attachments S30/180, S40 and S50 types, compatible with is Kinshofer quick couplers Mechanical available from factories and from attachment hub in Gent:
- All Volvo Attachments Symmetrical type are supported by Volvo CE Customer Support (Teeth, breaker tools, blade,..)

Steelwrist® quick couplers, Symmetrical type, Hydraulic, description

Steelwrist® QC S40FPH- Hydraulic for ECR25D, ECR25Elec, EC27D, EC37F, ECR40F, EC50F, ECR58F, EC60E and EW60E

- Fits the S40 attachment interfaces standard only.
- Three versions:
  - 2.5 t: ECR25D, ECR25Elec, EC27D
  - 3.5 t: EC37F, ECR40F
  - 5 t: EC50F, ECR58F, EC60E and EW60E
- Standard Lifting hook: 2 t capacity

Steelwrist® QC S50FPL – Hydraulic for ECR88D

- Fits the S50 attachment interfaces standard only.
- Standard Lifting hook: 5 t capacity

Benefits of Steelwrist® hydraulic quick-couplers:

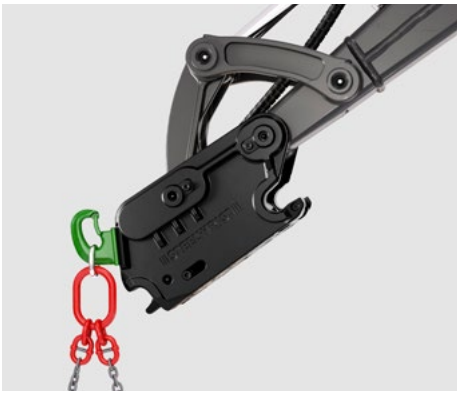
- Picks up the variety of different symmetrical S40 or S50 Volvo attachments.
- Bucket utilization in both face shovel position and normal backhoe position.
- The front pin is held to prevent the attachment from falling.
- A coloured indicator pin lets the operator know whether the quick coupler is locked (pin is in) or open (pin is out).
- Shim free maintenance.
- Delivers high breakout force from low build hight.
- Tight fit between coupler and attachment.
- Compatible with Tiltrotators.
- Fully Cast in steel. For best strength, lightweight and compact design.
- Standard lifting hook.



Front Pin Locking



Face shoveling



Lifting hook

Steelwrist® quick couplers After sales support

- Aftermarket support of STEELWRIST® quick couplers is not handled by Volvo CE Customer Support.
- In case of technical or service issues, warranty and spare parts, please contact the suppliers directly.

Steelwrist AB
Titangatan 9
195 72 Rosersberg
Sweden
https://steelwrist.com
Email: support@steelwrist.com

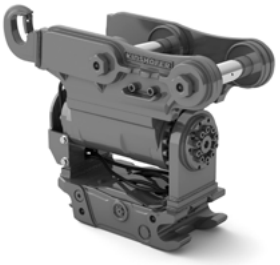
Volvo Symmetrical type attachment range

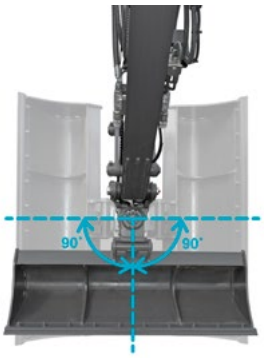
- A complete range of Volvo Attachments S40 and S50 types, compatible with Steelwrist® quick couplers is available from factories and from attachment hub in Gent:
- All Volvo Attachments Symmetrical type are supported by Volvo CE Customer Support (Teeth, breaker tools, blade,..)

Kinshofer Mechanical & Steelwrist® quick couplers Hydraulic comparison

		Kinshofer QC Mechanical Symmetrical type	Steelwrist® QC Hydraulic Symmetrical type
Quick Coupler Name			
Range	**Machine class**	1.5 to 8 t	2.5 to 8 t
	Model numbers	Mechanical Dedicated Kinshofer S30 - S40 - S50	Fully Hydraulic Dedicated Steelwrist® S40/ S50
Regulations		Complies with ISO 13031 and EN474	Complies with ISO 13031 and EN474
Technology	**Body**	Welded	Cast Steel
	Locking	Mechanical	Hydraulic
		Mechanical with lever	Both pin locks are fully opened & secured from the safety of the cab
		Auto lock	Double safety functions - Built-in check valve in the cylinder - Mechanical locking system
	Lock indication	Visual check	Coloured indicator pin visible from the cab
	Locking system	Front and rear pin locking	Front and rear pin locking. Front safety locking
Attachment interface		**S30 - S40 - S50 attachments**	**S40 - S50 attachments**
			
Attachments compatibility	**Face mode position**	Buckets can be attached in both normal and face mode positions	Buckets can be attached in both normal and face mode positions
	Direct fit	No	No
	Volvo Bucket range	Yes	Yes
	Volvo Breaker	Yes	Yes
	Volvo Thumb	No	No
	Steelwrist® Tiltrotator	No	Yes
Lifting device		No Lifting Hook	Welded Hook 2 ton (S40) and 3 ton (S50)
QC Installation on machine		Quick and easy installation	Quick and easy installation with only two hydraulic lines needed
Maintenance		Greasing and visual check for wear	Greasing and visual check for wear
After sales support		After sales support from Kinshofer (Germany)	After sales support from Steelwrist® AB (Sweden)
Availability	**First fit**	Factory	Factory
Needed Machine options			Boom and arm hydraulic piping for the quick coupler to work on the machine
			Safety valves for the boom and arm because of hook

Kinshofer Tilt quick couplers description





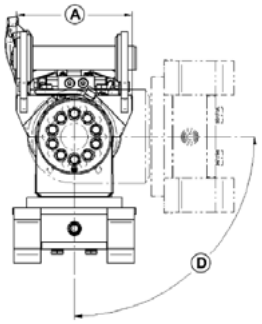
Transforms any standard bucket in tilting bucket, with 2 x 90° tilt angle

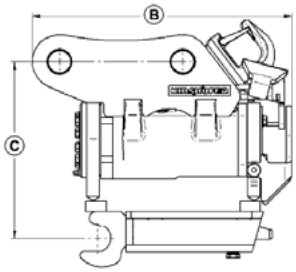
- Fits all range from 1.8 ton to 8 T
- Exists with built-in Symmetrical and Lehnhoff type Quick Couplers, mechanical or hydraulic
- Versions with and without lifting hooks
- Requires a dedicated control line (X3 on EC18E and EC20E, X4 on other models)

Key advantages of the Kinshofer "Tilting Quick Coupler"

- Volvo CEX dedicated linkage connection
  - Best linkage connectivity and digging performance
- VCE unique hose routing with dedicated hydraulic circuit
  - Durable and robust hose protection
- Hydraulic check valve "load holding valve" as standard
  - Allows a usage with heavy attachments like grapples
- Tilting angle on all sizes with 2x90°
  - Excellent work flexibility
- Unique low building height of the unit
  - Secures a strong machine stability and a proper digging performance

Kinshofer TiltQuick Coupler Technical specification





Motor type	Kinshofer TC02	Kinshofer TC03	Kinshofer TC045	Kinshofer TC07	Kinshofer TC07	Kinshofer TC10
CEX model	EC18E-EC20E	ECR25D-EC27D	EC37F-ECR40F	ECR50-58F	EC60E-EW60E	ECR88D
Weight* (kg)	38	48	80	115	115	171
Height C (mm)	255	270	299	343	343	405
Width A (mm)	167	167	260	310	310	330
Lenght B (mm)	289	360	419	358	358	520
Tilt angle °	2x90°	2x90°	2x90°	2x90°	2x90°	2x90°
Tilt torque (k Nm)	2.0	2.0	3,0	4.4	4.4	7.5
Retaining torque (k Nm)	5.8	5.8	8,4	12.3	12.3	21.0
Work pressure (bar)	170	220	220	220	145	145
Max. pressure (bar)	250	250	250	250	250	250
Oilflow (l/min.)	3 - 8	3 - 8	10-15	10 - 15	10 - 15	15 - 20
Load hook (t)	1	1	3	3	3	5
Breaker weight max. (kg)	140	140	145	350	350	450
Breaker lenght max. (mm)	900	900	900	1300	1300	1500
Load holding valve	Standard	Standard	standard	Standard	Standard	Standard

Comparison with POWERTILT (Proposed by Lehnhoff®, Martin, Steelwrist® and ACB, using HELAC motor)

- Unique low building height of the unit
- Bellow Kinshofer Tilt quick couplers comparison (Lehnhoff® type) versus Lehnhoff® Power Tilt



Important info about breaker use on Kinshofer Tilt quick couplers:

- Kinshofer confirms that hydraulic breakers can be intermittently used on Kinshofer Tilt Couplers. It must be ensured however that the breaker is suitable for the size of excavator the tilt quick coupler was mounted to.
- For further information, please refer to the operator's manual where max. weight and length of the breaker is specified.
- Though, we do not prohibit such use we however point out that Kinshofer does not recommend such use as impact forces applied to the tilt quick coupler will be higher than during its regular use and therefore some-what increase wear and tear.

Kinshofer Tilt Quick couplers, from Volvo, presentation

- Kinshofer Tilt quick couplers, from Volvo, are delivered Volvo grey, but with Kinshofer plating
- They are only available from Belley factory or Rotterdam depot.

Kinshofer Tilt Quick Couplers after sales support

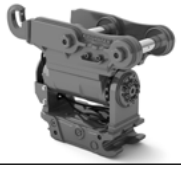
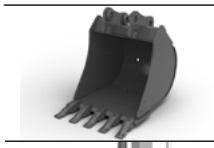
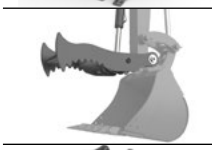
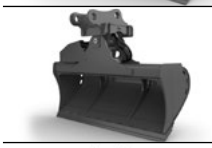
- Aftermarket support of Kinshofer Tilt quick couplers is not handled by Volvo CE Customer Support.
- In case of technical or service issues, warranty and spare parts, please contact the supplier directly.

Kinshofer GmbH:
Raiffeisenstrasse 12
83607 Holzkirchen
Germany
https://kinshofer.com
Email: info@kinshofer.com

Volvo Symmetrical type attachment range

- A complete range of Volvo Attachments, compatible with Kinshofer Tilt quick couplers is available from factories and from attachment hub in Gent: Symmetrical type (S30/S40/S50 in MOM designation)
- All Volvo Attachments Symmetrical type (S30/S40/S50) are supported by Volvo CE Customer Support (teeth, breaker tools, blade,..)

Volvo, Symmetrical type, attachments system

			Symmetrical type attachment system		
					
			Kinshofer Mechanical	**Steelwrist® Hydraulic**	**Kinshofer Tilt 2 x 90°**
Machine class			1.5 to 8 t	2.5 to 8 t	1.5 to 8 ton
	Universal Cut buckets	**General Purpose Bucket (GP)**	•	•	•
		**Hydraulic Thumb**	-	-	-
		**Fixed Ditching Bucket (FD)**	•	•	•
		**Tiltable 45° Ditching Bucket (TD)**	•	•	-
	Aggressive Cut buckets	**General Purpose Bucket (GPX)**	•	•	•
		**Cable Bucket (CAX)**	•	•	•
		**Tiltrotator Grading Bucket (TGX)**	•	•	•
	Tiltrotator	**Steelwrist® Tiltrotator (TR)**	-	•	-
	Breaker	**Breaker Bracket (BB)**	•	•	•
		Hydraulic Breaker (HB)	•	•	•

Lehnhoff® type quick couplers and interfaces

Lehnhoff® quick couplers, Lehnhoff type, Mechanical & Hydraulic, description

Lehnhoff® Quick Couplers Mechanical (MS01, MS03)



MS01-MS03
Lehnhoff®



MS08
Lehnhoff®

- With the mechanical Lehmatic quick coupler for mini excavators you are able to change your attachments fast and safe. The quick coupler is mounted quickly and is durable and reliable in function even in heavy duty operations.
- The locking is made by turning a socket wrench. The quick coupler is then safely locked over dead point

- Adjusting and readjusting the connection is not necessary
  - No setting or readjustment of the connection required
  - Self-locking locking mechanism, sealed in housing
  - Available with or without lifting hook (up to 3,5t CEX)
  - Available without hook (from 5t CEX)

Lehnhoff® quick coupler Hydraulic (HS01, HS03 DL, HS03H DL, HS08 DL) with new safety coupling Double Lock



Lehnhoff®

- Convenient, quick and safe locking from driver's cab at the touch of a button. The locking operation is carried out via a lockable push button.
- An Optical locking indicator, visible from driver's cab, indicates the right locking position of the locking pins. A constant pressurization and an integrated safety valve on the hydraulic cylinder ensure an always secure holding position of the lock.

NEW: All hydraulic quick couplers HS03 / HS03H / HS08 / have the new Lehnhoff ® **Double Lock as standard.** The system prevents the attachment from falling off in the event of incorrect locking, thanks to the centrally located additional claw.

- **EuroTest** certified
- BG BAU eligible
- Compliant with the latest safety regulations ISO 13031 and EN474

Lehnhoff®



Pick-up as usual for locking



Possibility of unintentional false locking



DL safety claw prevents falling off of the attachment



Attachment secure in every position of the bucket cylinder

Lehnhoff® Double Lock video clip :
https://www.youtube.com/watch?v=6b9kJRHvFzc

HS 03 DL for ECR25D, ECR25 Electric, EC27D, EC37F and ECR40F



Lehnhoff®

The quick coupler is always locked securely and without play through permanent spring pressure
- Unlocking hydraulically via a single-acting cylinder
- Available with lifting hook (2 t)

HS 03H (Hydroblock) DL for ECR50F, ECR58F, EC60E and EC60E



Lehnhoff®

- Operated via unlockable toggle switch
- Always secure locking through permanent spring pressure - with additional hydraulic -locking of the locking pins
- Available with **lifting hook** (3 t)

HS 08 DL for ECR88D



Lehnhoff®

- Driver activates the control valve and unlocks/locks the quick coupler at the touch of a button via lockable toggle switch
- The quick coupler is always secure and locked play free through permanent spring-force actuation
- A safety nonreturn valve and permanent pressurization ensure always safe locking
- High functional safety due to sealed locking mechanism/hydraulics
- Available with lifting hook (5 t)

Lehnhoff® Quick couplers, from Volvo, presentation



- Quick couplers “from Volvo” are delivered **Volvo grey**, but with Lehnhoff® plating
- They are only available from Belley factory or Rotterdam depot.

Lehnhoff® Quick Couplers after sales support

- Aftermarket support of Lehnhoff® quick couplers is not handled by Volvo CE Customer Support.
- In case of technical or service issues, warranty and spare parts, please contact the suppliers directly.

Lehnhoff Hartstahl GmbH
Rungsstr. 10-15
D-76534 Baden-Baden
Germany
https://www.lehnhoff.com
Email: info@lehnhoff.de (or gewaehrleistung@lehnhoff.de)

Volvo Lehnhoff® type attachment range

- A complete range of Volvo Attachments Lehnhoff® type (SW in MOM designation) is available from factories and from attachment hub in Gent including :
  - Digging buckets with Volvo teeth (VTS from 2,5t class) and transport hooks
  - Ditch cleaning buckets (with drain holes in sides)
  - Tiltable 2x45° ditch bucket with hydraulic hoses
  - Breaker brackets
  - Hydraulic breakers
- All Volvo Attachments Lehnhoff® type (SW) are supported by Volvo CE Customer Support (Volvo teeth, breaker tools)
- ® : Lehnhoff is a registered trademark from Lehnhoff Hartstahl GmbH

All pictures belong to Lehnhoff®

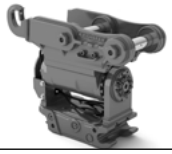
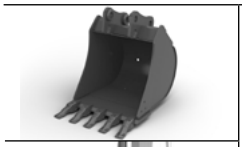
Lehnhoff® quick couplers, Mechanical & Hydraulic comparison

		Lehnhoff® QC Mechanical Lehmatic type	Lehnhoff® QC Hydraulic Lehmatic type
Quick Coupler Name			
Range	**Machine class**	1.5 t to 3.5 t	2.5t to 8t
	Model numbers	Mechanical Dedicated Lehnhoff® Lehmatic MS01 / MS03	Hydraulic Dedicated Lehnhoff® Lehmatic HS01 / HS03 / HS 08
Regulations		Complies with ISO 13031 and EN474	Complies with ISO 13031 and EN474
Technology	**Body**	Welded	Welded
	Locking	Mechanical	Hydraulic
		Mechanical with lever	Convenient, quick and safe locking from driver‘s cab
			The quickcoupler is always secure and locked playfree through permanent spring-force actuation
	Lock indication	Visual check	Coloured indicator pin visible from the cab
	Locking system	Rear locking pins	Rear locking pins

		Dedicated “SW type” attachments	Dedicated “SW type” attachments
Attachment interface			
Attachments compatibility	**Face mode position**	Buckets can only be attached in normal position.	Buckets can only be attached in normal position.
	Direct fit	No	No
	Volvo Bucket range	Yes	Yes
	Volvo Breaker	Yes	Yes
	Volvo Thumb	No	No
	Steelwrist® Tiltrotator	No	No

Lifting device		Hook 1 ton (1.5 t - 2 t), 2 ton (2.5 t), 3 ton (3.5 t)	Hook 1 ton (2 t), 2 ton (2.5 t), 3 ton (3.5 t - 5 t), 5 ton (8 t)
QC Installation on machine		Quick and easy installation	Quick and easy installation
Maintenance		Greasing and visual check for wear	Greasing and visual check for wear
After sales support		After sales support from Lehnhoff® Hartstahl GmbH (Germany)	After sales support from Lehnhoff® Hartstahl GmbH (Germany)
Availability	**First fit**	Factory	Factory
Needed Machine options			Boom and arm hydraulic piping for the quick coupler to work on the machine
		Safety valves for the boom and arm on hook variants	Safety valves for the boom and arm on hook variants

Volvo, Lehnhoff® type, attachments system

				Volvo Lehnhoff® type attachment system		
						
				Lehnhoff® QC Mechanical (MS01/MS03)	**Lehnhoff® QC Hydraulic (HS03/HS08)**	**Kinshofer Tilt QC 2 x 90°**
Machine class				1.5 - 3.5 ton	2 - 8 ton	1.8 to 8 ton
	Universal Cut buckets	General Purpose Bucket (GP)		•	•	•
		Hydraulic Thumb		-	-	-
		Fixed Ditching Bucket (FD)		•	•	•
		Tiltable 45° Ditching Bucket (TD)		•	•	-
	Aggressive Cut buckets	General Purpose Bucket (GPX)		-	-	-
		Cable Bucket (CAX)		-	-	-
		Tiltrotator Grading Bucket (TGX)		-	-	-
	Tiltrotator	Steelwrist® Tiltrotator (TR)		-	-	-
	Breaker	Breaker Bracket (BB)		•	•	•
		Hydraulic Breaker (HB)		•	•	•

Quick Couplers naming system in MOM

Quick coupler

VQC = Volvo Pin Grabber
SteelwQC = Steelwrist® QC
LehnhoffQC = Lehnhoff® QC
KinshQC = Kinshofer QC

Coupler control

Mech = Mechanical
Hyd = Hydraulic

Carrier type

1,5 t = 1,5 t CEX
2 t = 2 t CEX
2,5 t =2,5 t CEX
3,5 t =3,5 t CEX
5 t = 5 t CEX
6 t = 6 t CEX Korea
8 t = 8 t CEX Korea

VQC _Mech _U04 FPL _Eye _5t

Kinsh_Tilt_QC _Hydr _S40 _Hk_6t

Tilt_QC

= Tiltable quick coupler 2x90°

Coupler model

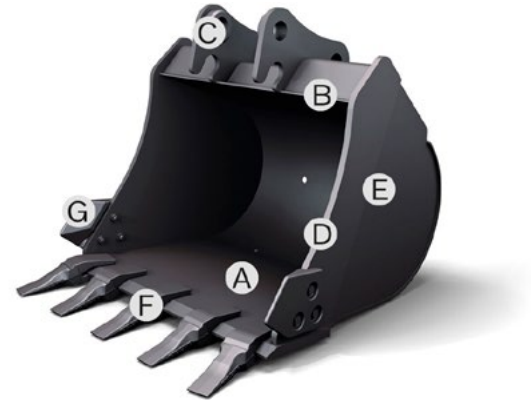
U01 to U08 = Pin on type
S30/180, S40, S50 = Symmetrical type
MS01,03,08 = Lehnhoff® type
HS01DL,03DL,03HDL ,08DL = Lehnhoff® type DL

Lifting device

Eye = Lifting eye
Hk = Lifting hook

Volvo buckets

Volvo buckets



Genuine attachments – Quality

The hard and abrasive materials that constitute normal working conditions require the use of high-grade steels. Since conditions are not only severe, but also varying, mere strength is not enough – flexibility is also required.
Through extensive testing, Volvo CE has developed a large number of buckets for materials of different densities that permit optimum utilization of the machine's lifting capacity.

Letter	Parts Description
A	Bottom Plate
B	Roof
C	Lug
D	Side Cutting Edge
E	Side Plate
F	Side Wear Plate
G	Bottom Wear Strip



Transport System

Hooks integrated into the bucket design allows the machine to roam while carrying a complete bucket range at once.

Benefits:

- The Movement between excavation sites with multiple attachments becomes safe and quick.
- The machine can load or unload itself and its attachments from the car trailer.
- Anti theft – In the transport position the machine can trap the buckets against the frame.



The perfect match

Introducing the range of compact excavator buckets from Volvo. These durable attachments are designed to perform in perfect harmony with Volvo compact excavators – in the specific environments and applications machine owners operate in. Whether you're digging, trenching, grading or moving material, Volvo has the right bucket for the job.

Engineering to match

No manufacturer is better at designing buckets for Volvo machines than Volvo. The purpose-built buckets have been planned as an integrated part of the compact excavator for which they're intended – delivering precise control and superior productivity. From the bucket to the quick coupler, tiltrotator, hydraulics and factory installed control system, everything is engineered to match and is supplied by Volvo.

Wear Protection

Volvo' buckets are designed with high-tensile strength steel wear protection to meet specific job demands. Wear protection include front and side cutting edges, bottom wear strips (as well as side wear plates on V6 Aggressive Cut buckets).

Optimised shape

Volvo buckets are built strong and designed for optimized performance. The progressive radius makes it easier to dig and provides low resistance – increasing productivity. The flat top maintains breakout force and the long floor improves fuel efficiency by ensuring the bucket is easy to fill.

Volvo Tooth System

Volvo teeth are designed to withstand high force and extreme stress. With a perfect fit between the tooth and adapter, strength and wear resistance are built in for long change intervals. The high quality, robust and reliable tooth system features a patented vertical locking device – ensuring quick and easy mounting and removal.

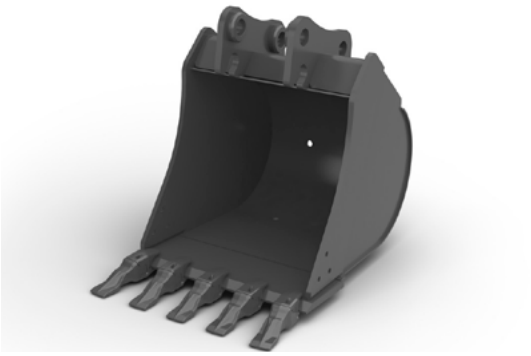
Volvo bucket transport system

Volvo's simple and effective bucket transportation system enables a grading bucket to safely carry either general purpose or cable buckets. Transportation hooks help to secure attachments against the blade at the end of the working day, acting as a theft deterrent.



Universal Cut buckets (V4)

General purpose bucket (GP)







General purpose buckets are designed to be used in a large variety of ground conditions for all digging jobs. Handles materials like soil, clay, sand and dirt as well as tougher grounds with gravel and stones.
To meet any work conditions or applications Volvo buckets has a profile and a radius design that is optimized for Volvo machines in capacity, filling factor and digging force for highest productivity and profitability. They have a reinforced cutting edge and welded wear strips to conquer hard and dense materials and stand up to bucket wear.

- Profile and kinematics for a perfect match to Volvo Compact Excavators.
- An integrated interface which retains more of the machine performance.
- Optimized capacity, penetration ability and digging force to meet highest productivity.
- Welded wear strips on the bottom and back for extended bucket life time.
- Drain holes to reduce weight and ease material release during operation.
- Side cutters available for units for 3,5 - 8 ton machines. Increases bucket penetration and loading capacity.
- Hooks for the transportation system. Use a ditching bucket to carry 2-3 GP buckets, and lock them against the machine blade at the end of the work day.
- The Cutting edge is made of high tensile steel for best wear life and performance.
- Flat bottom to ensure stability on the ground to easily pick up with the quick coupler.
- Volvo tooth system fitted as standard. Welded adapters and GPE teeth or bolted teeth.





Ditch cleaning buckets (Ditch)



FD – Fixed ditching buckets

Ditching buckets are designed for work like landscaping, cleaning ditches, grading, finishing and back filling. To meet these work conditions or applications Volvo buckets has a profile and a design that is optimized for Volvo machines in capacity, filling factor and digging force for highest productivity and profitability.

- Drain holes to reduce weight and ease material release during operation.
- Internal reinforcing plates gives added strength and rigidity to the bucket.
- Bolt on edge that is reversible on ditching bucket for 5-8 ton machines.



TD – Tiltable ditching buckets

Ditching buckets are designed for work like landscaping, cleaning ditches, grading, finishing and back filling. To meet these work conditions or applications Volvo buckets has a profile and a design that is optimized for Volvo machines in capacity, filling factor and digging force for highest productivity and profitability.

A tiltable ditching bucket is a very flexible and versatile solution and is designed to tilt laterally in both directions. The tilt function facilitates cleaning and leveling along ditches and banks in an easy way, and allows the machine to work parallel to the ditch.

- 45 degree tilting function in both directions for excellent precision.
- Well protected hydraulic cylinders that enables the bucket to tilt throughout the whole work process.
- Drain holes to reduce weight and ease material release during operation.
- Internal reinforcing plates gives added strength and rigidity to the bucket.
- Bolt on edge that is reversible on ditching bucket for 5-8 ton machines.



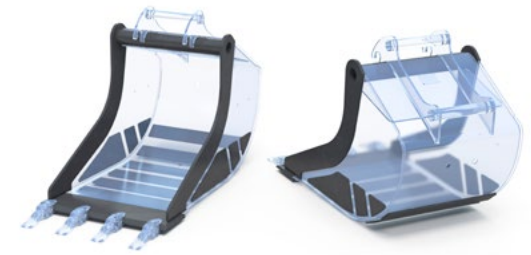


Aggressive Cut buckets (V6)

General purpose bucket (GPX)







This bucket is intended for general use in most digging applications. Handles materials like soil, clay, sand and dirt as well as grounds with more rocky content with gravel, stones and small to medium rocks. To meet any work conditions or applications Volvo buckets has a profile and a radius design that is optimized for Volvo machines in capacity, filling factor and digging force for highest productivity and profitability. High tensile steel is used in high wear areas like the front and side cutting edges and in other critical areas.

- Side and bottom wear protection for extended bucket life time
- Cutting Edge HB500 on 2.5-8 ton (S40/S50)
- Cutting Edge HB450 on 1.5-2 ton (S30)
- Side Cutting Edge HB450
- Bottom Wear Strips HB500
- Optional Volvo tooth system (Welded adapters and GPC teeth)
- Drain holes to reduce weight and ease material release during operation
- Shaped for better rock handling.
- Tubular top beam adds strength and durability.
- Profile and kinematics for a perfect match to Volvo Compact Excavators.
- Optimized capacity, penetration ability and digging force to meet highest productivity.
- Hooks for the transportation system. Use a grading bucket to carry 2-3 GP buckets, and lock them against the machine blade at the end of the work day
- Flat bottom to ensure stability on the ground to easily pick up with the quick coupler.

Cable bucket (CAX)



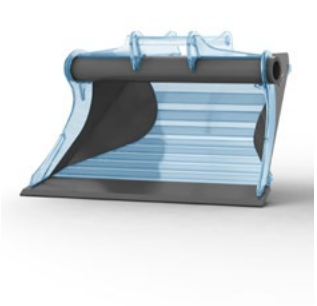
Designed for work in narrow trenches and commonly used when laying cables. The bucket's long profile allows it to work close to pipes, cables and other material. To meet any work conditions or applications Volvo buckets has a profile and a radius design that is optimized for Volvo machines in capacity, filling factor and digging force for highest productivity and profitability. High tensile steel is used in high wear areas like the front and side cutting edges and in other critical areas.

- Side and bottom wear protection for extended bucket life time
- Cutting Edge HB500 on 2.5-8 ton (S40/S50)
- Cutting Edge HB450 on 1.5-2 ton (S30)
- Side Cutting Edge HB450
- Bottom Wear Strips HB500
- Extended cutting edge.
- Narrow width.
- Drain holesto reduce weight and ease material release during operation.
- Very long front profile allows for easy manoeuvrability in tight spaces like trenches.
- Easily facilitates manipulation of cables, pipes and the materials used to fill in around them.
- The added height of the bucket allows for working in a trench with the bucket without causing the tilt rotator to hit the ground around it.
- Tubular top beam adds strength and durability.
- Profile and kinematics for a perfect match to Volvo Compact Excavators.
- Optimized capacity, penetration ability and digging force to meet highest productivity.
- Hooks for the transportation system. Use a grading bucket to carry 2-3 GP buckets, and lock them against the machine blade at the end of the work day
- Flat bottom to ensure stability on the ground to easily pick up with the quick coupler.

Tiltrotator Grading bucket (TGX)







The grading bucket has been optimized for use with a tiltrotator and is designed for accurate and precise digging, landscaping, finishing, cleaning ditches, grading, back filling and sloping jobs. Angled corners allow the bucket to work in close proximity to objects. The bucket easily rotates when full without spillage of material. To meet any work conditions or applications Volvo buckets has a profile and a radius design that is optimized for Volvo machines in capacity, filling factor and digging force for highest productivity and profitability. High tensile steel is used in high wear areas like the front and side cutting edges and in other critical areas.

- Side and bottom wear protection for extended bucket life time
- Cutting Edge HB500
- Side Cutting Edge HB450
- Bottom Wear Strips HB500
- Angled corners allow for smooth rotation without interfering with the tiltrotator
- Extended cutting edge for intricate landscaping
- Designed to work with tiltrotators
- Tubular top beam adds strength and durability.
- Profile and kinematics for a perfect match to Volvo Compact Excavators.
- Optimized capacity, penetration ability and digging force to meet highest productivity.
- Hooks for the transportation system. Use a grading bucket to carry 2-3 GP buckets, and lock them against the machine blade at the end of the work day
- Flat bottom to ensure stability on the ground to easily pick up with the quick coupler.

Volvo digging bucket overview

Volvo General Purpose buckets		General purpose buckets GP (V4)	General purpose buckets GPX (V6)	Cable buckets CAX (V6)
				
		Pin on type 	Symmetrical type 	Symmetrical type 
		SW / Lehnhoff® type 		
		Symmetrical type 		
Application		Handles materials like soil, clay, sand and dirt as well as tougher grounds with gravel and stones.	Handles materials like soil, clay, sand and dirt as well as grounds with more rocky content with gravel, stones and small to medium rocks.	Designed for work in narrow trenches and commonly used when laying cables. The bucket's long profile allows it to work close to pipes, cables and other material.
Design	**Shape**	Universal cut V4	Aggressive cut V6	
	Flat bottom	Standard		
	Drain holes	Standard		
	Welded wear parts	Standard from 5 t		
Volvo Teeth		Volvo Bolted teeth (From 1.5 to 2 t)	Optional Volvo teeth with welded adapter VTS	Extended cutting edge (no teeth)
		Volvo teeth with welded adapter VTS (From 2.5 to 8 t)		
Transport hooks		On side cutting edge (1.5 t)	On top adapter	
		On top adapter (From 2 to 8 t)		
Bolt on Side cutters		Option from 3.5 to 8 t	-	
Lifting device		-		
After sales support	**Parts**	From Volvo CE		
	Warranty			
Availability	**First fit**	From factory		
	Loose (Europe)	Available from Volvo CE Loose Supply chain (Europe)		

Volvo grading & ditching bucket overview

Volvo Grading and Ditching buckets		Fixed Ditching buckets FD (V4)	Tiltable Ditching buckets TD (V4)	Tiltrotator Grading buckets TGX (V6)
				
		Pin on type 	Pin on type 	Symmetrical type 
		SW / Lehnhoff® type 	SW / Lehnhoff® type 	
		Symmetrical type 	Symmetrical type 	
Application		Ditching buckets are designed for work like landscaping, cleaning ditches, grading, finishing and back filling.	Ditching buckets are designed for work like landscaping, cleaning ditches, grading, finishing and back filling. The tilt function facilitates cleaning and leveling along ditches and banks in an easy way, and allows the machine to work parallel to the ditch.	The grading bucket has been optimized for use with a tiltrotator and is designed for accurate and precise digging, landscaping, finishing, cleaning ditches, grading, back filling and sloping jobs. Angled corners allow the bucket to work in close proximity to objects.
Design	**Shape**	Universal cut	Universal cut	Aggressive cut with angled corners
	Flat bottom	Standard		
	Internal reinforcing plates	Standard 3.5 to 8 t	Standard 3.5 to 8 t	-
	Drain holes	Standard		
	Reversible Bolt on Edge	Standard 5 to 8 t Not available for Lehnhoff® type	Standard 5 to 8 t Not available for Lehnhoff® type	-
	Transport hooks	-	-	Standard
Tilting function	**Tilting angle**	-	45° both side	-
	Number of cylinders	-	1 cylinder	-
	2 Hydraulic connectors	-	Standard	-
	2 Hydraulic hoses	-	Standard	-
Machine mandatory option		-	X1-piping, relief valve, 2-flat face quick coupling	-
After sales support	**Operator manual**	-	From Volvo CE	-
	Parts	From Volvo CE		
	Warranty	From Volvo CE		
Availability	**First fit**	From factory		
	Loose (EMEA)	Available from Volvo CE Loose Supply chain (Europe)		

Bucket naming system in MOM

Bucket duty Level

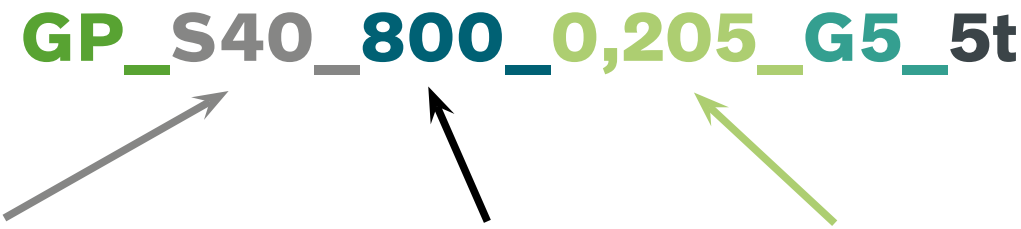
Universal cut buckets (V4)
GP = General Purpose
Fix D = Fixed Ditch cleaning
Tilt D = Tilt able Ditch cleaning
Agressive cut buckets (V6)
GPX = General purpose
CAX = Cable bucket
TGX = Tiltrotator Grading bucket

Number and type of teeth

Digging bucket
B = Bolt on teeth
G = GPE
4 = Number of teeth
WtT = Without teeth
Ditch cleaning bucket
BE = Bolt on edge

Carrier type

1,5 t = 1,5 t CEX
2 t = 2 t CEX
2,5 t = 2,5 t CEX
3,5 t = 3,5 t CEX
5 t = 5 t CEX
8 t = 8 t CEX



Coupler type

DF = Direct Fit /Pin on
S30 = S30 180 coupler type
S40 =S40 coupler type
S50 = S50 coupler type
SW = Lehnhoff®

Bucket width in mm

Bucket capacity in m³

Volvo hydraulic breakers

Volvo breakers & brackets

Volvo hydraulic breakers (HB)

Volvo propose a complete range of Volvo hydraulic breakers for Volvo compact Excavators from 1,5t to 8t.
Volvo Hydraulic breakers offer power, durability & breaking force to dispose a wide range of demanding materials.
They are engineered as well-matched extensions to the machines, with high impact on every blow.

Excavator model	HB01	HB02	HB03	HB06	HB08
EC15, EC18, ECR18, EC20	●				
EC15, EC18, EC20, ECR25, EC27		●			
EC27, ECR25, EC35, EC37, ECR35, ECR40			●		
ECR50, EC55, ECR58, EW60, EC60				●	
ECR88					●

SPECIFICATIONS

Description		Unit	HB01	HB02	HB03	HB06	HB08
Operating weight*		kg	79	132	169	312	605
ID plate weight **		kg	65	113	148	245	499
Overall length with direct fit bracket and tool		mm	1 116	1 200	1 442	1 610	2 121
Tool diameter		mm	40	45	57	70	90
Sound power level (Directive2000/14/EC)		dB(A)	114	110	110	117	118
Operating pressure		Mpa	6 - 13	6,5 - 12,5	9 - 12	11 - 16,5	14 - 17
Oil flow		lpm	15 - 38	13 - 30	23 - 70	29 - 65	42 - 94
Blow rate	Long stroke	bpm	800 - 1 200	760 -1 460	600 - 1 500	380 - 1 000	380 - 900
	Short stroke	bpm	-	-	-	-	490 - 1 010
Automatic Lubrication			No	No	No	No	No
Suitable carrier		ton	0.5-2.0	0.8-2.8	2.5-4.0	3.0-6.5	6.0-10.0

* : Operating weight including breaker body (breaker weight), breaker bracket, hose, tool, pins
** : ID plate weight: Operating weight excluding breaker bracket and pins

Features and specifications quick check



Performance
- Hybrid firing system
- Easy Start
- Work mode selection (HB08)

Low Noise
- Fully sealed housing
- Cushion damper
- Less vibration and efficient dampening
- Among the quietest hydraulic breakers

Breaker and carrier durability
- Floating power cell, no holding bolt
- Large capacity gas chamber
- Fully enclosed lower bush and front head block
- Heat treated tools

Easy maintenance
- Gas charging kit, tool box and a bush measuring jig supplied with the breaker
- Easy access to gas charging port and grease points
- Easy tool replacement



Two speed valve (only available on HB08)

Concept
• Speed mode
  - Suitable for secondary light limestone breaking
• Power mode
  - Suitable for occasional hard rock breaking

Benefits
• Easy to start, No delayed response time
• Easy to shift model in the field
• Higher productivity
• Still prevent breaker failure risks from blank fire when running at power mode.

Volvo breaker brackets (BB)

Volvo breakers can be fitted with various brackets to ensure they fit the different quick couplers.







Three ranges of breaker bracket are available :

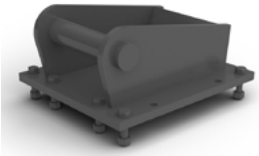
- Volvo **Pin on** type : 1,5t, 2t, 2,5t, 3,5t, 5t ,8t (Don't forget Pin kit))
- **Symmetrical** type : S30-180 / S40 / S50
- **Lehnhoff®** type : SW01, SW03, SW08



Pin on type



Symmetrical type



Lehnhoff® type



Volvo breaker paste

It is very important that only dedicated breaker paste is used for Volvo Hydraulic Breakers to ensure appropriate lubrication, protection and optimal lifetime of the wear parts.

For this purpose Volvo recommends Volvo Breaker Paste.

Breaker paste provides superior shock load protection, ensuring suitable lubrication of the breaker.

The characteristics of paste ensure the lubricant adheres to the tool even under the high temperatures generated during the breaking process.

Volvo breaker paste Push-Pull type for manual grease guns: **VOE 54556016**

Breaker naming system in MOM

Breaker model

HB = Hydraulic Breaker
01/02/03/06/08 = Breaker model
T = Top mounted
LN = Low noise (Box housing)

Carrier type

1,5 t - 2 t CEX = 1,5 t & 2 t CEX
2,5 t - 3,5 t CEX =2,5 t & 3,5 t CEX
5 t CEX = 5 t CEX
8 t CEX = 8 t CEX

EC = Breaker body only
1TL = Breaker body + hoses with hydraulic flat-face connectors + 1 pyramid moil

HB02TLN_1.5-2T_CEX_1TL

BB_S30/180_CEX1.5-2T_HB02

BB = Breaker bracket

Coupler type

DF = Direct Fit /Pin on
S30/180 = S30/180 coupler type
S40 =S40 coupler type
S50 = S50 coupler type
SW = Lehnhoff®

Carrier type

CEX 1,5 t - 2 t = 1,5 t & 2 t CEX
CEX 2,5 t - 3,5 t =2,5 t & 3,5 t CEX
CEX 5 t = 5 t CEX
CEX 8 t = 8 t CEX

Breaker model

HB = Hydraulic Breaker
01/02/03/06/08 = Breaker model

Volvo Hydraulic Thumb

Volvo Hydraulic Thumb

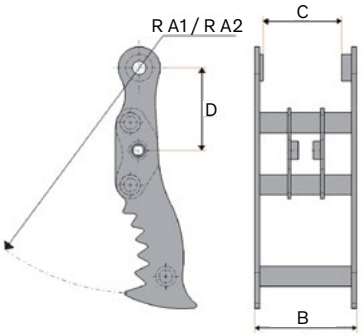


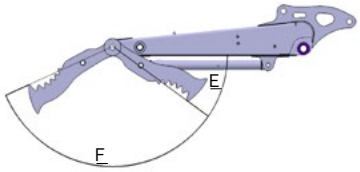


Volvo Hydraulic Thumb / Pin on

- The Volvo hydraulic thumb has been designed to match the Volvo compact excavators and the different attachment options which they carry.
- Operated by hydraulic cylinder and controlled with electro proportional joystick, the thumb can be fully retracted against the dipper arm for full unobstructed use of the bucket.

- The Volvo hydraulic thumb will provide the operator more opportunities to get the most from the machine. Some work may include piling, lifting, carrying, placing and loading various types of materials with ease.
- Plugged with hydraulic quick couplings to the main auxiliary line (X1).
- Compatible with other single - or double - acting attachments.
- 3-way valve to switch X1 circuit between attachment and thumb control
- Add a grab function to the machine for landscaping, forestry, light demolition.Enhanced machine versatility.
- Volvo Hydraulic Thumb is compatible with:
  - Volvo Pin grabber type QC (3,5t / 5t / 8t in both mechanical & hydraulic) and dedicated Universal cut buckets.





		EC37F ECR40F	ECR50F ECR58F	EC60E EW60E	ECR88D
A1	mm	670	780	780	911
A2	mm	811	864	864	1041
B	mm	302	370	370	370
C	mm	232	265	265	291
D	mm	245	268	145	255
E	deg	35	36	36	25
F	deg	121	120	121	124

A¹ - Short clamp for direct fit
A² - Long clamp for Volvo quick coupler

Thumb naming system in MOM

Thumb QC

Thumb = Hydraulic thumb
QC = Compatible with Volvo Pin grabber QC
DF = Direct Fit only

Carrier type

3,5 t = 3,5 t CEX
5 t = ECR50F & ECR58F
6 t = EC60E & EW60E
8 t = ECR88D

Thumb QC_3way valve_5t

Valve on arm

3 way valve = Fitted with 3 way valve
No valve = Without valve on arm

Steelwrist® Tiltrotator and Volvo Control System

Tiltrotator and Control System Customer benefits



A Volvo compact excavator and bucket together with a factory fitted quick coupler and Steelwrist® tiltrotator delivers the ultimate combination of high productivity, safety, precise control and reduced fuel consumption.

Factory fitted solution

Volvo is the only manufacturer to offer a factory fitted tiltrotator and Volvo control system for its compact crawler excavators. The Volvo fitted system provides superior quality and is fully supported in terms of parts and warranty.

Compact design

The compact design of the tiltrotator results in improved digging performance and fuel efficiency. The vertical tilt cylinder design of the tiltrotator enables effective digging in narrow trenches.

One-piece casting

Designed to withstand increased forces when using a tiltrotator, the quick coupler is cast in one piece from high tensile strength steel – providing maximum durability. This delivers a lightweight design and unrivalled performance.

Single quick coupler switch

The factory fit control system automatically prevents the opening of the top quick coupler if a tiltrotator is attached – increasing safety when changing attachments.

Tiltrotator Control system



Factory fitted control system complete with two joysticks and a touchscreen. The control system is a needed option to be able to use a tiltrotator.

- The unique tuning feature optimizes the hydraulic flow to preserve fuel.
- Ergonomic joysticks with three rollers allow the operator to control multiple functions simultaneously.
- Index finger roller to enable simultaneous operation of many functions.
- Perfect ergonomics to avoid strain and allow long working days without problems.
- Easy to use color touchscreen.
- Great bucket manoeuvrability and high end precision.
- Volvo control system means it is fully supported by Volvo aftersales support.
- Factory ready option means Zero installation time in dealer workshops.



Steelwrist® Tiltrotator

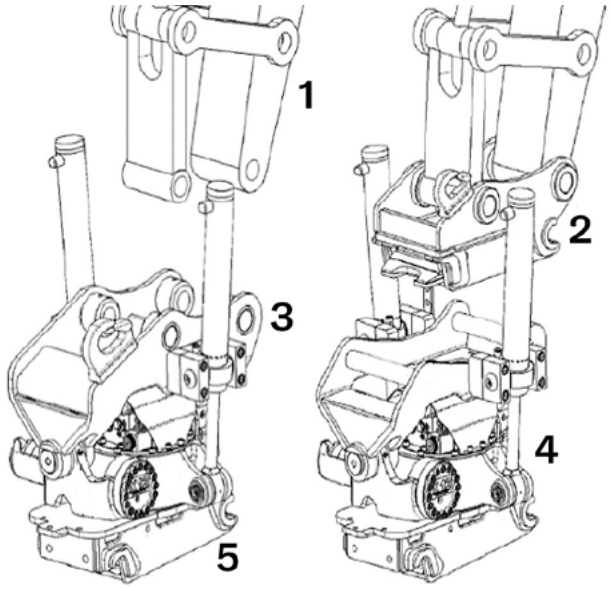
Steelwrist® tiltrotators provide a superior tilt angle for greater flexibility with maximum strength and durability.
The compact design boasts the lowest build height on the market – resulting in improved digging performance and higher fuel efficiency. Get more done with your machine, without changing attachment or machine position.

- The front pin is held to prevent the attachment from falling.
- A coloured indicator pin lets the operator know whether the quick coupler is locked or open.
- Fully cast in steel gearbox and bottom – Strong, compact and lightweight.
- 45° tilt angle for higher productivity.
- Vertical tilt cylinders – Reach into narrow trenches.
- Factory fitted control system – All installed on the Volvo machine from factory.
- Low building height and low weight – thanks to a combination of casting and truss structure design the Steelwrist® tiltrotators give you an optimised digging geometry and improved fuel efficiency.
- Central lubrication.
- Zero installation time in dealer workshops.

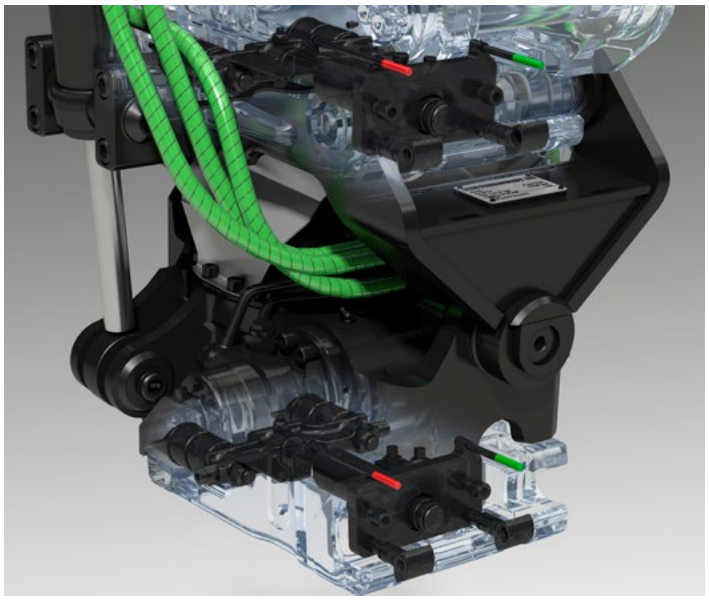
Required machine options for using a tiltrotator: X1 piping and Tiltrotator Control System.

NOTE: A tiltrotator is an attachment that in combination with a bucket and quick coupler, may affect machine stability.

NOTE: All aftersales support for the tiltrotator is taken by Steelwrist®.



1. Excavator dipper arm
2. Excavator quick coupler
3. Tiltrotator coupling interface (Top).
Varies between direct fit or S40/S50
4. Tiltrotator gearbox and manifold
5. Tiltrotator coupling interface (Bottom) S40/S50



The lock indication system shows the operator whether the quick-release is locked or open.

Tiltrotator configurations

All tiltrotators are equipped with a symmetrical quick-coupling to which buckets or other attachments can be connected. But when it comes to connecting the compact excavator's dipper arm to the tiltrotator, there are 2 possible configurations: "Direct Fit" or "Sandwich".



Direct Fit

The tiltrotator is directly connected to the end of the dipper arm. This means that the tiltrotator will always remain on the machine.



Sandwich

The tiltrotator is connected to the machine by an upper symmetrical type quick coupler.

More flexible in use, it allows the operator to remove the tiltrotator and connect attachments directly to the upper quick coupler for:

- Maximum breakout force
- Use in narrow trench
- Use of high-flow hydraulic tools
- Higher lifting capacity

Gripper cassette option





Steelwrist tiltrotators can also be equipped with gripper cassette (with 3 or 4 fingers) that will make the excavator more versatile, handling objects with precision. The gripper opens widely, closes almost entirely, has robust cylinder covers and does not interfere with excavation. The gripper cassette can be retrofitted (via Steelwrist directly).

Tiltrotator naming system in MOM

Steelwrist® Tiltrotator

TR = Tilrotator
X04/X07/X12 = Tiltrotator model

GR = Gripper

SteelwristTR_X07_DF-S40FPL_GR

Upper Coupling

Direct Fit
DF = Direct Fit
Sandwich configuration
S40 = S40 FPH coupler type
S50 = S50 FPL coupler type

Bellow coupler type

S40 FPH = S40 FPH coupler type
S50 FPL = S50 FPL coupler type

SECTION 3

ATTACHMENTS ORDERING INFORMATION


VOLVO
EC18E

Volvo "Pin on type" attachment system

Volvo "Pin on type" attachment system overview



VOLVO CEX Machines		EC15E EC/ECR18E EC/ECR18 Electric	EC20E	EC27D ECR25D ECR25 Electric	EC37F ECR40F	ECR50F ECR58F	EC60E EW60E	ECR88D
Volvo Quick Coupler (Pin on type)	Mechanical	1.5 t	2 t	2.5 t	3.5 t	5 t	5 t	8 t
	Hydraulic	-	-	-	3.5 t	5 t	5 t	8 t
Volvo GP buckets with transport system (Pin on type)	Teeth	Bolted teeth		Teeth and welded adapters				
	Side cutters	-	-	-	Option			
	200 mm	•						
	250 mm	•	•	•				
	300 mm	•	•	•	•	•		•
	355 mm					•	•	
	400 mm	•	•	•	•			•
	450 mm	•		•	•	•	•	•
	500 mm	•	•	•	•			
	600 mm	•	•	•	•	•	•	•
	700 mm			•				
	750 mm				•	•	•	•
	800 mm							•
	900 mm					•	•	•
Volvo Hydraulic Thumb	GP bucket compatibility				•	•	•	•
Volvo Fixed Ditching Buckets	Edges	-	-	-	-	Bolt on edge		
	1 000 mm	•	•					
	1 200 mm			•				
	1 300 mm				•	•		
	1 500 mm					•	•	
	1 800 mm							•
Volvo Tiltable Ditching Buckets	850 mm	•	•					
	1 200 mm			•	•			
	1 300 mm					•	•	
	1 500 mm					•	•	•
Volvo Hydraulic Breakers	Pin on type brackets	1.5 t	2 t	2.5 t	3.5 t	5 t		8 t
	Hydraulic Breaker	HB01/HB02		HB02/HB03	HB03	HB06		HB08

Volvo Pin grabber Quick Couplers



Volvo QC pin on type - Mechanical and hydraulic

Mechanical Quick Couplers

Machine	MOM code	Description	Weight (no pins) kg	Pin diameter Ø mm	Pin distance mm	Build height mm	Base width mm
EC15E **EC/ECR18E - EC/ECR18 Electric**	CX11839691	VQC_Mech_U01_1,5t	13	30	106	85	105
EC20E	CX11871083	VQC_Mech_U02_2t	18	35	150	90	122
EC27D **ECR25D - ECR25 Electric**	CX11839692	VQC_Mech_U03_2,5t	20	35	165	85	122
EC37F - ECR40F	CX11839702	VQC_Mech_U04_3,5t	28	40	190	90	122
ECR50F - ECR58F	CX8289326	VQC_Mech_U05_5t	39	45	220	105	158
EC60E - EW60E	CE8309378	VQC_Mech_U05_5t	39	45	220	105	158
ECR88D	CE8289325	VQC_Mech_U08_8t	63	60	290	140	170

Hydraulic Quick Couplers

Machine	MOM code	Description	Weight (no pins) kg	Pin diameter Ø mm	Pin distance mm	Build height mm	Base width mm	Lifting eye (Rated Lifting Load) kg
EC37- ECR40F	CX54171327	VQC_Hyd_U04FPL_ Eye_3,5t	38	35-40	173-218 178-218	155	120	1 000
ECR50F - ECR58F	CX54482569	VQC_Hyd_U05_Eye_5t	55	45	218-220	150	158	3 000
EC60E - EW60E	CE8309382	VQC_Hyd_U05 FPL _Eye_6t	55	45	218-220	150	158	3 000
ECR88D	CE8309379	VQC_Hyd_U08_Eye_8t	91	60	285-303	190	170	3 000

Safety valves needed for the boom and arm because of lifting eye on the quick coupler. EU markets.

Required machine options Hydraulic Quick Couplers

CEX	EC37F ECR40F	ECR50F ECR58F	EC60E EW60E	ECR88D
CX80002 Or **CX80005** Safety Valve (for lifting eye)	•	•		
CE65001 Or **CE 66001** Safety Valve (for lifting eye)			•	
CE65005 Or **CE66006** Safety Valve (for lifting eye)				•
CX62002 Double Acting Circuit QC	•	•		
CE64002 Double Acting Circuit QC			•	•

Volvo Pin kits



Includes 2 pins, washers and locking pins. A machine ordered without a coupler from the factory will automatically be equipped with pins which connect the attachment to the arm.

By adding either of the pin grabber type couplers after machine delivery will require a repositioning of the original pins so that they are now fixed to the attachment allowing for it and the coupler to latch together. Subsequently a new set of pins will be required to attach the coupler to the arm which is included in this kit.

A Pin kit is required for the Pin on system on buckets and breaker brackets when you want to equip the machine with a Volvo mechanical or hydraulic quick coupler.





EC15E EC/ECR18E EC/ECR18 Electric	MOM code	Weight	Diameter
Pin kit	CX11839854	2.2 kg	Ø30 mm

EC20E	MOM code	Weight	Diameter
Pin kit	CX11839855	3.3 kg	Ø35 mm

EC27D ECR25D ECR25 Electric	MOM code	Weight	Diameter
Pin kit	CX11839856	3.5 kg	Ø35 mm

EC37F - ECR40F	MOM code	Weight	Diameter
Pin kit	CX11839573	4.9 kg	Ø40 mm

ECR50F - ECR58F	MOM code	Weight	Diameter
Pin kit	CX11839572	7.5 kg	Ø45 m

EC60E - EW60E	MOM code	Weight	Diameter
Pin kit	CE11839572	7.5 kg	Ø45 m

ECR88D	MOM code	Weight	Diameter
Pin kit	CE11839857	14 kg	Ø60 mm

Volvo "Pin on type" buckets

EC15E, EC18E, ECR18E, EC18 Electric, ECR18 Electric



Bucket type	MOM code	Cutting width	Capacity	Weight	Drain holes	Teeth		Bottom wear protection	Bolt-on Side Cutters
		mm	L	kg		Type	Number		
General Purpose	CX11839763	200	14	21	•	5Bolted	2	-	-
	CX11839765	250	19	23	•	5Bolted	2	-	-
	CX11839766	300	23	26	•	5Bolted	3	-	-
	CX11839768	400	32	31	•	5Bolted	4	-	-
	CX11839769	450	36	33	•	5Bolted	4	-	-
	CX11839770	500	41	36	•	5Bolted	4	-	-
	CX11839771	600	51	41	•	5Bolted	5	-	-

Bucket type	MOM code	Cutting width	Capacity	Weight	Drain holes	Cylinder		Reversible Bolt on edge
		mm	L	kg		Tilting angle	Number	
Fixed Ditching	CX11871239	1 000	76	56	•	-	-	-
Tiltable Ditching	CX11871481*	850	59	83	•	45°	1	-

* Not applicable for EC15

EC20E



Bucket type	MOM code	Cutting width	Capacity	Weight	Drain holes	Teeth		Bottom wear protection	Bolt-on Side Cutters
		mm	L	kg		Type	Number		
General Purpose	CX11839782	250	28	32	•	5Bolted	2	-	-
	CX11839783	300	32	34	•	5Bolted	2	-	-
	CX11839785	400	47	41	•	5Bolted	3	-	-
	CX11839787	500	63	48	•	5Bolted	4	-	-
	CX11839788	600	78	53	•	5Bolted	5	-	-

Bucket type	MOM code	Cutting width	Capacity	Weight	Drain holes	Cylinder		Reversible Bolt on edge
		mm	L	kg		Tilting angle	Number	
Fixed Ditching	CX11871372	1 000	76	57	•	-	-	-
Tiltable Ditching	CX11871479	850	59	83	•	45°	1	-

ECR25D,ECR25 Electric ,EC27D



Bucket type	MOM code	Cutting width	Capacity	Weight	Drain holes	Teeth		Bottom wear protection	Bolt-on Side Cutters
		mm	L	kg		Type	Number		
General Purpose	CX11872379	250	34	40	•	5GPC	2	•	-
	CX11872380	300	42	44	•	5GPC	2	•	-
	CX11872382	400	56	50	•	5GPC	3	•	-
	CX11872383	450	65	54	•	5GPC	3	•	-
	CX11872384	500	74	59	•	5GPC	4	•	-
	CX11872385	600	92	65	•	5GPC	4	•	-
	CX11872386	700	110	74	•	5GPC	5	•	-

Bucket type	MOM code	Cutting width	Capacity	Weight	Drain holes	Cylinder		Reversible Bolt on edge
		mm	L	kg		Tilting angle	Number	
Fixed Ditching	CX11839385	1 200	125	90	•	-	-	-
Tiltable Ditching	CX11871534	1 200	125	131	•	45°	1	-

EC37F, ECR40F





Bucket type	MOM code	Cutting width	Capacity	Weight	Drain holes	Teeth		Bottom wear protection	Bolt-on Side Cutters
		mm	L	kg		Type	Number		Optional from Factory
General Purpose	CX11839669	300	52	56	•	5GPC	2	•	CX11839570
	CX11839671	400	68	62	•	5GPC	3	•	CX11839570
	CX11839672	450	80	68	•	5GPC	4	•	CX11839570
	CX11839673	500	91	72	•	5GPC	4	•	CX11839570
	CX11839674	600	114	90	•	5GPC	5	•	CX11839570
	CX11839676	750	148	96	•	5GPC	5	•	CX11839570

Bucket type	MOM code	Cutting width	Capacity	Weight	Drain holes	Cylinder		Reversible Bolt on edge
		mm	L	kg		Tilting angle	Number	
Fixed Ditching	CX11839390	1 300	150	118	•	-	-	-
Tiltable Ditching	CX11871984	1 200	125	133	•	45°	1	-

ECR50F, ECR58F, EC60E, EW60E





ECR50F, ECR58F

Bucket type	MOM code	Cutting width	Capacity	Weight	Drain holes	Teeth		Bottom wear protection	Bolt-on Side Cutters
		mm	L	kg		Type	Number		Optional from factory
General Purpose	CX11872927	300	62	79	•	8GPC	2	•	CX11839570
	CX11839704	355	80	91	•	8GPC	2	•	CX11839570
	CX11839706	450	99	93	•	8GPC	3	•	CX11839570
	CX11839708	600	144	113	•	8GPC	5	•	CX11839570
	CX11839710	750	190	131	•	8GPC	5	•	CX11839570
	CX11839713*	900	235	149	•	8GPC	6	•	CX11839570

* ECR50F : Stability may be affected with fully loaded bucket.

Bucket type	MOM code	Cutting width	Capacity	Weight	Drain holes	Cylinder		Reversible Bolt on edge
		mm	L	kg		Tilting angle	Number	
Fixed Ditching	CX8290221	1 300	190	170	•	-	-	X
	CX8284753*	1 500	221	189	•	-	-	X
Tiltable Ditching	CX11839347	1 300	190	290	•	45°	1	X
	CX11839346*	1 500	221	189	•	45°	1	X

* ECR50F : Stability may be affected with fully loaded buckets.

EC60E, EW60E

Bucket type	MOM code	Cutting width	Capacity	Weight	Drain holes	Teeth		Bottom wear protection	Bolt-on Side Cutters
		mm	L	kg		Type	Number		
General Purpose	CE11839704	355	80	91	•	8GPC	2	•	-
	CE11839706	450	99	93	•	8GPC	3	•	-
	CE11839708	600	144	113	•	8GPC	5	•	-
	CE11839710	750	190	131	•	8GPC	5	•	-
	CE11839713	900	235	149	•	8GPC	6	•	-

Bucket type	MOM code	Cutting width	Capacity	Weight	Drain holes	Cylinder		Reversible Bolt on edge
		mm	L	kg		Tilting angle	Number	
Fixed Ditching	CE8293478	1 500	221	189	•	-	-	•
Tiltable Ditching	CE11839346	1 500	221	315	•	45°	1	•

ECR88D





Bucket type	MOM code	Cutting width	Capacity	Weight	Drain holes	Teeth		Bottom wear protection	Bolt-on Side Cutters
		mm	L	kg		Type	Number		
General Purpose	CE11839743	300	79	111	•	8GPC	2	•	-
	CE11839744	400	122	132	•	8GPC	3	•	-
	CE11839745	450	143	139	•	8GPC	3	•	-
	CE11839747	600	200	162	•	8GPC	5	•	-
	CE11839749	750	266	182	•	8GPC	5	•	-
	CE11839750	800	288	189	•	8GPC	5	•	-
	CE11839752	900	333	205	•	8GPC	6	•	-

Bucket type	MOM code	Cutting width	Capacity	Weight	Drain holes	Cylinder		Reversible Bolt on edge
		mm	L	kg		Tilting angle	Number	
Fixed Ditching	CE54544618	1 800	356	274	•	-	-	•
Tiltable Ditching	CE11871318	1 500	270	385	•	45°	1	•

Volvo Hydraulic Thumb

All Volvo thumbs for european market are compatible with Volvo Quick Coupler (Pin grabber type, Mehanical, and Hydraulic). The 3-way valve block is standard on all thumbs from 5 t to 8 t.

Machine	MOM code	Description	3 way valve	Weight	Clamp length	
EC37F - ECR40F	CX11871993	Thumb QC_3.5t	No	67 kg	811 mm	With QC
ECR50F - ECR58F	CX54748434	Thumb QC_3 way valve_5t	Yes	91 kg	864 mm	With QC
EC60E - EW60E	CE11839666	Thumb QC_3 way valve_6t	Yes	92 kg	864 mm	With QC
ECR88D	CE11871091	Thumb QC_3 way valve_8t	Yes	124 kg	1 041 mm	With QC

Mandatory Machine options

- Arm with thumb bracket

Machines	MOM code	Dedicated arm description
EC37F - ECR40F	CX11023	Short arm + Thumb bracket
	CX11024	Long arm + Thumb bracket
ECR50F - 58F	CX11023	Short arm + Thumb bracket
	CX11025	Long arm + Thumb bracket + Counterweight
EC60E - EW60E	CE13012	Short arm + Thumb bracket
	CE13015	Long arm + Thumb bracket
ECR88D	CE13018	Short arm + Thumb bracket
	CE13019	Long arm + Thumb bracket

- EC37F - ECR58F Main auxiliary line (X1) CX61006 or breaker and clamshell auxiliaries CX61004.
- EC60E / EW60E Main auxiliary line (X1) CE62009..
- ECR88D Main auxiliary line, Breaker/Shear piping (X1) CE62015.
- On ECR50F up to ECR88D, the thumb option includes X1 accessories / thumb change over valves.

Volvo "Lehnhoff® type" attachment system

Volvo "Lehnhoff® type" attachment system overview



VOLVO CEX Machines		EC15E EC/ECR18E EC/ECR18 Electric	EC20E	EC27D ECR25D ECR25 Electric	EC37F ECR40F	ECR50F ECR58F	EC60E EW60E	ECR88D
Lehnhoff® Quick Coupler	Mechanical MS type	MS01		MS03				
	Hydraulic HS type		HS01		HS03			HS08
Volvo GP buckets with transport system	Teeth	Bolted teeth		Teeth and welded adapters				
	Side cutters		N/A		Option		Aftermarket	
	300 mm	•	•	•	•	•	•	•
	400 mm	•	•	•	•	•	•	•
	500 mm	•	•	•	•	•	•	•
	600 mm		•	•	•	•	•	•
	700 mm			•	•	•	•	•
	800 mm					•	•	•
	900 mm					•	•	•
Volvo Fixed ditching buckets	Bolt on edge						Aftermarket	
	1 000 mm	•	•					
	1 200 mm			•				
	1 300 mm				•			
	1 500 mm					•	•	
	1800 mm							•
Volvo Tiltable Ditching buckets	850 mm	•	•					
	1 200 mm			•	•			
	1 500 mm					•	•	•
Volvo Hydraulic Breakers	Lehnhoff® type brackets	SW1			SW3			SW8
	Hydraulic Breaker	HB01/HB02		HB02/HB03	HB03	HB06		HB08

Lehnhoff® Quick Couplers



Lehnhoff® QC - Mechanical and Hydraulic - Dedicated

NOTE : please refer to page "Volvo and Preferred attachments".

Mechanical Quick Couplers

Machine	MOM code	Description	Model name	Weight (no pins) kg	Pin diameter Ø mm	Base width mm	Hook kg
EC15E - EC/ECR18E EC/ECR18 Electric	CX11839358	Lehnhoff_QC_Mech_MS01_1,5t	MS01	15	40	180	No
EC15E - EC/ECR18E EC/ECR18 Electric	CX11872835	Lehnhoff_QC_Mech_MS01_Hk_1,5t	MS01 Hk	16	40	180	1 000
EC20E	CX11839357	Lehnhoff_QC_Mech_MS01_2t	MS01	15	40	180	No
EC20E	CX11872836	Lehnhoff_QC_Mech_MS01_Hk_2t	MS01 Hk	16	40	180	1 000
EC27D - ECR25D ECR25 Electric	CX11839356	Lehnhoff_QC_Mech_MS03_2,5t	MS03	30	50	200	No
EC27D - ECR25D ECR25 Electric	CX11872837	Lehnhoff_QC_Mech_MS03_Hk_2,5t	MS03 Hk	31	50	200	2 000
EC37F - ECR40F	CX11872838	Lehnhoff_QC_Mech_MS03_Hk_3,5t	MS03 Hk	30	50	200	3 000

Hydraulic Quick Couplers

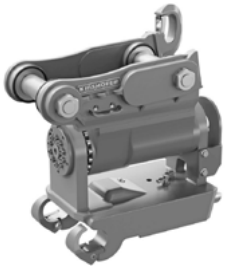
Machine	MOM code	Description	Model name	Weight (no pins) kg	Pin diameter Ø mm	Base width mm	Hook kg
EC27D - ECR25D ECR25 Electric	CX54872123	Lehnhoff_QC_Hyd_HS03_DL_Hk_2,5t	HS03 Hk	30	50	200	2 000
EC37F, ECR40F	CX54171302	Lehnhoff_QC_Hyd_HS03_DL_Hk_3,5t	HS03 Hk	30	50	200	3 000
ECR50F, ECR58F	CX54482619	Lehnhoff_QC_Hyd_HS03H_DL_Hk_5t	HS03 H Hk	30	50	200	3 000
EC60E, EW60E	CE11872847	Lehnhoff_QC_Hyd_HSO3_DL_Hk_5t	HS03 Hk	30	50	200	3 000
ECR88D	CE55014996	Lehnhoff_QC_Hyd_HS08_DL_Hk_8t	HS08 Hk	85	60	290	5 000

Required machine options Hydraulic Quick Couplers and Hook option

CEX	EC15E - EC/ECR18E - EC/ECR18 Electric EC20E - EC27D - ECR25D - ECR25 Electric EC37F - ECR40F - ECR50F - ECR58F	EC60E EW60E	ECR88D
CX62001 Single Acting Circuit QC	●		
CE64001 Single Acting Circuit QC		●	
CE64002 Double Acting Circuit QC			●
CX80002 Or CX80005 Safety Valve (for hook)	●		
CE65001 Or CE 66001 Safety Valve (for hook)		●	
CE65005 Or CE66006 Safety Valve (for hook)			●

CX11839354

Tilt Quick Couplers 2 x 90° (Lehnhoff® type)



Kinshofer Mechanical Tilt Quick couplers 2 x 90°

Machine	MOM code	Description	Tilt Kinshofer Motor
EC18E , EC18 Electric	CX54316150	KSH_TiltQC/02_Mec_MS01_1t5	R02 with load holding valve
EC20E	CX54316137	KSH_TiltQC/02_Mec_MS01_2t	R02 with load holding valve
ECR25D, EC27D	CX54315414	KSH_TiltQC/03_Mec_MS03_2t5	R03 with load holding valve
ECR25D, EC27D	CX54461837	KSH_TiltQC/03_Mec_MS03_Hk_2t5	R03 with load holding valve

Kinshofer hydraulic Tilt Quick couplers 2 x 90° with lifting hook

Machine	MOM code	Description	Tilt Kinshofer Motor
EC20E	CX54120414	KSH_TiltQC/02_Hyd_HS01_Hk_2t	R02 with load holding valve
ECR25D, EC27D	CX54120606	KSH_TiltQC/03_Hyd_HS03_Hk_2t5	R03 with load holding valve
EC37F,ECR40F	CX54123321	KSH_TiltQC/045_Hyd_HS03_Hk_3t5	R045 with load holding valve
ECR50F, ECR58F	CX54120629	KSH_TiltQC/07_Hyd_HS03_Hk_5t	R07 with load holding valve
EC60E, EW60E	CE8306275	KSH_TiltQC/07_Hyd_HS03_Hk_6t	R07 with load holding valve
ECR88D	CE8306501	KSH_TiltQC/10_Hyd_HS08_Hk_8t	R10 with load holding valve

See technical specifications under "Kinshofer Tilt Quick Coupler, Symmetrical type, description - Kinshofer TiltQuick Coupler Technical specification" in this document.

Required machine configuration for the use of tilting quick couplers (arm length and hydraulic controls)

Options	EC18E, EC20E	ECR25D, EC27D	EC37F, ECR40F, ECR50F, ECR58F	EC60E, EW60E	ECR88D
Arm configurations	CX11020 (short arm only)	CX11020 CX11022	CX11020 CX11022	CE13026 CE13028	CE13027 CE13029
Hydraulic line X3	CX67001	-	-	-	-
Hydraulic line X4	-	CX67002	CX67002	CE63003	CE63003
or Hydraulic line X3-X4	-	CX67003	CX67003	CE63003	CE63003

Volvo "Lehnhoff® type" buckets

EC15E, EC18E, ECR18E, EC18 Electric, ECR18 Electric, EC20E



EC15E, EC18E, ECR18E, EC18 Electric, ECR18 Electric

Bucket type	MOM code	Cutting width	Capacity	Weight	Drain holes	Teeth		Bottom wear protection	Bolt-on Side Cutters
		mm	L	kg		Type	Number		
General Purpose	CX11839367	300	23	28	•	5Bolted	3	-	-
	CX11839368	400	32	33	•	5Bolted	4	-	-
	CX11839369	500	41	37	•	5Bolted	4	-	-

Bucket type	MOM code	Cutting width	Capacity	Weight	Drain holes	Cylinder		Reversible Bolt on edge
		mm	L	kg		Tilting angle	Number	
Fixed Ditching	CX11871375	1 000	76	58	•	-	-	-
Tiltable Ditching	CX11871480*	850	59	86	•	45°	1	-

* Not applicable for EC15

EC20E

Bucket type	MOM code	Cutting width	Capacity	Weight	Drain holes	Teeth		Bottom wear protection	Bolt-on Side Cutters
		mm	L	kg		Type	Number		
General Purpose	CX11839370	300	32	35	•	5Bolted	2	-	-
	CX11839371	400	42	42	•	5Bolted	2	-	-
	CX11839372	500	49	49	•	5Bolted	4	-	-
	CX11839373	600	54	54	•	5Bolted	4	-	-

Bucket type	MOM code	Cutting width	Capacity	Weight	Drain holes	Cylinder		Reversible Bolt on edge
		mm	L	kg		Tilting angle	Number	
Fixed Ditching	CX11871375	1 000	76	58	•	-	-	-
Tiltable Ditching	CX11871480	850	59	86	•	45°	1	-

ECR25D, ECR25 Electric, EC27D, EC37F, ECR40F



ECR25D, ECR25 Electric, EC27D

Bucket type	MOM code	Cutting width	Capacity	Weight	Drain holes	Teeth		Bottom wear protection	Bolt-on Side Cutters
		mm	L	kg		Type	Number		
General Purpose	CX11872388	300	43	50	•	5GPC	2	•	-
	CX11872389	400	56	56	•	5GPC	3	•	-
	CX11872390	500	77	65	•	5GPC	4	•	-
	CX11872391	600	92	72	•	5GPC	4	•	-
	CX11872392	700	111	81	•	5GPC	5	•	-

Bucket type	MOM code	Cutting width	Capacity	Weight	Drain holes	Cylinder		Reversible Bolt on edge
		mm	L	kg		Tilting angle	Number	
Fixed Ditching	CX11839389	1 200	125	96	•	-	-	-
Tiltable Ditching	CX11871535	1 200	125	138		45°	1	-

EC37F, ECR40F

Bucket type	MOM code	Cutting width	Capacity	Weight	Drain holes	Teeth		Bottom wear protection	Bolt-on Side Cutters
		mm	L	kg		Type	Number		Optional from Factory
General Purpose	CX11839379	300	52	66	•	5GPC	2	•	CX11839570
	CX11839380	400	68	73	•	5GPC	3	•	CX11839570
	CX11839381	500	91	77	•	5GPC	4	•	CX11839570
	CX11839382	600	114	89	•	5GPC	5	•	CX11839570
	CX11839383	700	137	96	•	5GPC	5	•	CX11839570

Bucket type	MOM code	Cutting width	Capacity	Weight	Drain holes	Cylinder		Reversible Bolt on edge
		mm	L	kg		Tilting angle	Number	
Fixed Ditching	CX11839392	1 300	150	120	•	-	-	-
Tiltable Ditching	CX11871535	1 200	125	138	•	45°	1	-

ECR50F, ECR58F



Bucket type	MOM code	Cutting width	Capacity	Weight	Drain holes	Teeth		Bottom wear protection	Bolt-on Side Cutters
		mm	L	kg		Type	Number		Optional from Factory
General Purpose	CX54849300	300	62	97	•	8GPC	2	•	CX11839570
	CX11839361	400	93	106	•	8GPC	3	•	CX11839570
	CX11839362	500	114	118	•	8GPC	4	•	CX11839570
	CX11839363	600	144	134	•	8GPC	5	•	CX11839570
	CX11839364	700	174	145	•	8GPC	5	•	CX11839570
	CX11839365 *	800	205	159	•	8GPC	5	•	CX11839570
	CX11839366 *	900	235	175	•	8GPC	6	•	CX11839570

* For ECR50F stability may be affected with fully loaded buckets.

Bucket type	MOM code	Cutting width	Capacity	Weight	Drain holes	Cylinder		Reversible Bolt on edge
		mm	L	kg		Tilting angle	Number	
Fixed Ditching	CX8290220 **	1 500	221	163	•	-	-	VOE15642643 *
Tiltable Ditching	CX11839350**	1 500	221	287	•	45°	1	VOE15671534 *

* Bolt on edge is available through Aftermarket. This reference does not include tightening nuts and bolts.
** For ECR50F stability may be affected with fully loaded buckets for 1 500 mm.

EC60E, EW60E



Bucket type	MOM code	Cutting width	Capacity	Weight	Drain holes	Teeth		Bottom wear protection	Bolt-on Side Cutters
		mm	L	kg		Type	Number		Optional from Factory
General Purpose	CE54849300	300	62	97	•	8GPC	2	•	CE11839570
	CE11839361	400	93	106	•	8GPC	3	•	CE11839570
	CE11839362	500	114	118	•	8GPC	4	•	CE11839570
	CE11839363	600	144	134	•	8GPC	5	•	CE11839570
	CE11839364	700	174	145	•	8GPC	5	•	CE11839570
	CE11839365	800	205	159	•	8GPC	5	•	CE11839570
	CE11839366	900	235	175	•	8GPC	6	•	CE11839570

Bucket type	MOM code	Cutting width	Capacity	Weight	Drain holes	Cylinder		Reversible Bolt on edge
		mm	L	kg		Tilting angle	Number	
Fixed Ditching	CE8290220	1 500	221	163	•			VOE15642643 *
Tiltable Ditching	CE11839350	1 500	221	287		45°	1	VOE15671534 *

* Bolt on edge is available through Aftermarket. This reference does not include tightening nuts and bolts.

ECR88D



Bucket type	MOM code	Cutting width	Capacity	Weight	Drain holes	Teeth		Bottom wear protection	Bolt-on Side Cutters
		mm	L	kg		Type	Number		
General Purpose	CE11871322	500	156	154	•	8GPC	4	•	-
	CE11871323	600	200	170	•	8GPC	5	•	-
	CE11871324	700	244	185	•	8GPC	5	•	-
	CE11839352	800	288	198	•	8GPC	5	•	-
	CE11839359	900	333	215	•	8GPC	6	•	-

Bucket type	MOM code	Cutting width	Capacity	Weight	Drain holes	Cylinder		Reversible Bolt on edge
		mm	L	kg		Tilting angle	Number	
Fixed Ditching	CE54544620	1 800	356	248	•	-	-	VOE54479824 *
Tiltable Ditching	CE11871320	1 500	270	345	•	45°	1	VOE15671534 *

* Bolt on edge is available through Aftermarket. This reference does not include tightening nuts and bolts.

Volvo "Symmetrical type" attachment system

Volvo "Symmetrical type" attachment system overview



VOLVO CEX Machines		EC15E EC/ECR18E EC/ECR18 Electric EC20E	EC27D ECR25D ECR25 Electric	EC37F ECR40F	ECR50F ECR58F EC60E EW60E	ECR88D
Kinshofer Quick Coupler	Mechanical no hook	S30	S40			S50
Steelwrist® Quick Couplers	Hydraulic, Front Pin Lock, Hook		S40			S50
Volvo GP buckets with transport system	250 mm	• (1)	• (1)			
	300 mm	• (1)	• (1)	• (1)	• (1)	
	350 mm					• (1)
	400 mm	•	•	•	•	•
	450 mm	•	•	•	•	•
	500 mm	•	•	•	•	•
	600 mm	•	•	•	•	•
	700 mm		•	•	•	•
	800 mm				•	•
	900 mm				•	•
Volvo General Purpose GPX buckets with teeth	550 mm	• (1)	• (1)	• (1)		
	700 mm				• (1)	• (1)
Volvo Cable CAX buckets	350 mm	•	•	•		
	450mm				•	•
Volvo Tiltrotator Grading TGX buckets	1100 mm		•	•		
	1 240 mm				•	
	1 340 mm					•
Volvo Fixed Ditching bucket	1 000 mm	•				
	1 200 mm		•			
	1300 mm			•		
	1 500 mm				•	
	1 800 mm					•
Volvo Tiltable Ditching buckets	1 000 mm	•				
	1 200 mm		•	•		
	1 500 mm				•	•
Steelwrist® Tiltrotators				X04	X07	X12
Volvo Hydraulic Breakers	Symmetrical type brackets	S30	S40			S50
	Hydraulic Breaker	HB01/HB02	HB02/HB03	HB03		HB08

(1) available without teeth

"Symmetrical type" bucket Guide

Symmetrical type Bucket Guide								1.5-2 t	2.5 t	3.5 t	5 t	8 t
Machine Model								EC15E, EC18 Electric, ECR18 Electric, EC20E	EC27D, ECR25D, ECR25 Electric	EC37F, ECR40F	ECR50F, EC60E, ECR58F, EW60E	ECR88D
	Bucket Width	Cutting edge width	Volume	Weight	Teeth VTS*		Interface					
Units	mm	mm	l	kg	No	Type	Type					
GPX General Purpose Bucket with teeth	515	550	55	65	4	5GPC	S30	■				
	515	550	95	113	4	8GPC	S40		■	■	■	
	515	550	155	138	4	8GPC	S40		■	■	■	
	670	700	260	185	4	8GPC	S40		■	■	■	
	670	700	320	203	4	8GPC	S50					■
* Volvo Tooth System												
GPX General Purpose Bucket No teeth	515	550	55	62			S30	■				
	515	550	95	100			S40		■	■	■	
	515	550	155	125			S40		■	■	■	
	670	700	260	170			S40		■	■	■	
	670	700	320	187			S50					■
CAX Cable Bucket	315	350	25	41			S30	■				
	315	350	50	74			S40		■	■	■	
	315	350	85	95			S40		■	■	■	
	420	450	145	133			S40		■	■	■	
	420	450	180	145			S50					■
TGX Tiltrotator Grading Bucket	1 075	1 100	120	124			S40		■	■	■	
	1 075	1 100	180	127.5			S40		■	■	■	
	1 210	1 240	250	177			S40		■	■	■	
	1 320	1 340	340	205			S50					■
Fixed ditching bucket	964	1 000	76	58			S30	■				
Tiltable ditching bucket	964	1 000	76	81			S30	■				
	1 164	1 200	125	136			S40		■	■	■	
	1 164	1 200	125	136			S40		■	■	■	
	1 250	1 300	190	296			S40		■	■	■	
	1 450	1 500	221	303			S40				■	
	1 450	1 500	270	385			S50					■

■ Compatible
■ Standard, recommended
■ Compatible, but not recommended for performance & stability issue

Kinshofer Quick Coupler Mechanical



RF-Kinshofer QC - Mechanical Symmetrical type

NOTE: please refer to page "Volvo and Preferred attachments".

RF-Kinshofer Mechanical Quick Couplers

Machine	MOM Code	Description	Model	Weight kg	Pin diameter mm	Pin distance mm
EC15E, EC18 Electric, ECR18 Electric	CX54744945	Kinsh_QC_Mec_ S30_1.5T	S30	14	30	180
EC20E	CX54748018	Kinsh_QC_Mec_ S30_2T	S40	13	40	300
ECR25D, EC27D, ECR25 electric	CX54748022	Kinsh_QC_Mec_ S40_2.5T	S40	28	40	300
EC37F, ECR40F	CX54748026	Kinsh_QC_Mec_ S40_3.5T	S40	29	40	300
ECR50F, ECR58F	CX54748030	Kinsh_QC_Mec_ S40_5T	S40	31	40	300
EC60E, EW60E	CE54748030	Kinsh_QC_Mec_ S40_5T	S40	31	40	300
ECR88D	CE54748034	Kinsh_QC_Mec_ S50_8T	S50	69	50	430

Steelwrist® Quick Coupler Hydraulic



Steelwrist® Quick Coupler - Hydraulic Symmetrical type - Dedicated S40/S50

NOTE: please refer to page "Volvo and Preferred attachments".

Steelwrist® Hydraulic Quick Couplers

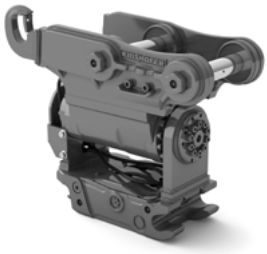
Machine	MOM code	Description	Model name	Weight (no pins/ hoses)	Weight (with pins/ hoses)	Pin diameter	Pin distance	Build height	Base width	Hook (Rated Lifting Load)
				kg	kg	Ø mm	mm	mm	mm	t
EC27D ECR25D ECR25 Electric	CX53252813	Steelw_QC_Hyd_S40FPH_Hk_2t5	S40FPH	30	35	40	300	100	232	2
EC37F ECR40F	CX53253082	Steelw_QC_Hyd_S40FPH_Hk_3t5	S40FPH	30	35	40	300	100	232	2
ECR50F ECR58F	CX53253086	Steelw_QC_Hyd_S40FPH_Hk_5t	S40FPH	30	35	40	300	100	232	2
EC60E EW60E	CE53253086	Steelw_QC_Hyd_S40FPH_Hk_5t	S40FPH	30	35	40	300	100	232	2
ECR88D	CE54179068	SteelwQC_Hyd_S50FPL_Hk_8t	S50FPL	80	95	50	430	120	350	5

Safety valves needed for the boom and arm because of hook on the quick coupler.

Required machine options

CEX	EC27D ECR25D ECR25 Electric	EC37F ECR40F	ECR50F ECR58F	EC60E EW60E	ECR88D
CX62002 Double Acting Circuit QC	●	●	●		
CX80002 Or **CX80005** Safety Valve	●	●	●		
CE64002 Double Acting Circuit QC				●	●
CE65001 Or **CE66001** Safety Valve				●	
CE65006/CE65005 Or **CE66006** Safety Valve					●

Tilt Quick Couplers 2 x 90° (Symmetrical type)



Kinshofer Mechanical Tilt Quick couplers 2 x 90°

Machine	MOM code	Description	Model name	Tilt Kinshofer Motor
EC18E, EC18 Electric	CX54316153	KSH_TiltQC/02_Mec_S30/180_1t5		R02 with load holding valve
EC20E	CX54316142	KSH_TiltQC/02_Mec_S30/180_2t		R02 with load holding valve
ECR25D, EC27D (Diesel only)	CX54315494	KSH_TiltQC/03_Mec_ S40_ 2t5	Tilt S40/03 Mecha	R03 with load holding valve
EC37F, ECR40F	CX54123376	KSH_TiltQC/045_Mec_ S40_ 3t5		R045 with load holding valve

Kinshofer Hydraulic Tilt Quick couplers 2 x 90° with lifting hook

Machine	MOM code	Description	Model name	Tilt Kinshofer Motor
ECR25D, EC27D (Diesel only)	CX54315445	KSH_TiltQC/03_Hyd_ S40_ Hk_2t5	Tilt S40/03 Hydrau-Hook	R03 with load holding valve
EC37F, ECR40F	CX54123367	KSH_TiltQC/045_Hyd_S40_ Hk_3t5		R045 with load holding valve
ECR50F, ECR58F	CX54297990	KSH_TiltQC/07_ Hyd_ S40_ Hk_5t	Tilt S40/07 Hydrau-Hook	R07 with load holding valve
EC60E, EW60E	CE8306272	KSH_TiltQC/07_ Hyd_ S40_ Hk_5t	Tilt S40/07 Hydrau-Hook	R07 with load holding valve
ECR88D	CE8306500	KSH_TiltQC/10_ Hyd_ S50_ Hk_8t	Tilt S50/10 Hydrau-Hook	R10 with load holding valve

See technical specifications under "Kinshofer Tilt QC, Symmetrical type, description - Kinshofer TiltQuick Coupler Technical specification" in this document.

Required machine configuration for the use of tilting quick couplers (arm length and hydraulic controls)

Options	EC18E, EC18 Electric, EC20E	ECR25D, EC27D	EC37F, ECR40F, ECR50F, ECR58F	EC60E, EW60E	ECR88D
Arm configurations	CX11020 (short arm only)	CX11020 CX11022	CX11020 CX11022	CE13026 CE13028	CE13027 CE13029
Hydraulic line X3	CX67001	-	-	-	-
Hydraulic line X4	-	CX67002	CX67002	CE63003	CE63003
or Hydraulic line X3-X4	-	CX67003	CX67003	CE63003	CE63003

Volvo "Symmetrical type" buckets

EC15E, EC18E, ECR18E, EC18 Electric, ECR18 Electric, EC20E - (S30)



Bucket Type	MOM code	Shape	Cutting width	Capacity	Weight	Drain holes	Teeth		Bottom wear protection	Bolted side cutters	Interface
			mm	L	kg		Type	Number			
General Purpose Bucket GP	CX11872903	V4	250	19	25		5Bolted	2	-	-	S30
	CX11872910	V4	250	19	22	•	-	0	-	-	S30
	CX11872904	V4	300	23	28	•	5Bolted	3	-	-	S30
	CX11872911	V4	300	23	23	•	-	0	-	-	S30
	CX11872905	V4	400	32	33	•	5Bolted	4	-	-	S30
	CX11872906	V4	450	36	35	•	5Bolted	4	-	-	S30
	CX11872907	V4	500	41	38	•	5Bolted	4	-	-	S30
	CX11872908	V4	600	51	43	•	5Bolted	4	-	-	S30
General Purpose GPX	CX11871972	V6	550	55	65	•	5GPC	4	•	-	S30
	CX11871971	V6	550	55	62	•	-	0	•	-	S30
Cable Bucket CAX	CX11871970	V6	350	25	41	•	-	0	•	-	S30

Bucket Type	MOM code	Shape	Cutting width	Capacity	Weight	Drain holes	Cylinder		Reversible bolt on edge	Interface
			mm	L	kg		Tilting angle	Number		
Fixed Ditching FD	CX11871973	V4	1000	76	58	•	-	-	-	S30
Tiltable Ditching TD	CX11871974	V4	1000	76	81	•	45°	1	-	S30

ECR25D, ECR25 Electric, EC27D - (S40)



Bucket Type	MOM code	Shape	Cutting width	Capacity	Weight	Drain holes	Teeth		Bottom wear protection	Bolted side cutters	Interface
			mm	L	kg		Type	Number			
General Purpose Bucket GP	CX11872889	V4	250	34	39	•	5GPC	2	•	-	S40
	CX11872891	V4	250	34	45	•	-	0	•	-	S40
	CX11871550	V4	300	42	50	•	5GPC	2	•	-	S40
	CX11872892	V4	300	42	48	•	-	0	•	-	S40
	CX11871551	V4	400	56	56	•	5GPC	4	•	-	S40
	CX11872890	V4	450	65	60	•	5GPC	4	•	-	S40
	CX11871552	V4	500	74	64	•	5GPC	4	•	-	S40
	CX11871553	V4	600	92	72	•	5GPC	4	•	-	S40
	CX11871554	V4	700	110	80	•	5GPC	5	•	-	S40
General Purpose GPX	CX11871888	V6	550	95	113	•	8GPC	4	•	-	S40
	CX11871887	V6	550	95	100	•	-	0	•	-	S40
Cable Bucket CAX	CX11871886	V6	350	50	74	•	-	0	•	-	S40
Tiltrotator Grading Bucket TGX	CX11871889	V6	1100	120	124	-	-	0	•	-	S40

Bucket Type	MOM code	Shape	Cutting width	Capacity	Weight	Drain holes	Cylinder		Reversible bolt on edge	Interface
			mm	L	kg		Tilting angle	Number		
Fixed Ditching FD	CX11872930	V4	1200	125	97	•	-	-	-	S40
Tiltable Ditching TD	CX11871981	V4	1200	125	136	•	45°	1	-	S40

EC37F, ECR40F - (S40)



Bucket Type	MOM code	Shape	Cutting width	Capacity	Weight	Drain holes	Teeth		Bottom wear protection	Bolted side cutters	Interface
			mm	L	kg		Type	Number			
General Purpose Bucket GP	CX11871555	V4	300	68	55	•	5GPC	2	•	Option	S40
	CX11872887	V4	300	68	53	•	-	0	•	Option	S40
	CX11871556	V4	400	89	62	•	5GPC	3	•	Option	S40
	CX11872888	V4	450	105	66	•	5GPC	4	•	Option	S40
	CX11871557	V4	500	119	71	•	5GPC	4	•	Option	S40
	CX11871558	V4	600	149	81	•	5GPC	5	•	Option	S40
	CX11871559	V4	700	179	89	•	5GPC	5	•	Option	S40
General Purpose GPX	CX11872726	V6	550	155	125	•	8GPC	4	•	-	S40
	CX11872725	V6	550	155	138	•	-	0	•	-	S40
Cable Bucket CAX	CX11871885	V6	350	85	95	•	-	0	•	-	S40
Tiltrotator Grading Bucket TGX	CX11871722	V6	1 100	180	128	-	-	0	•	-	S40

Bucket Type	MOM code	Shape	Cutting width	Capacity	Weight	Drain holes	Cylinder		Reversible bolt on edge	Interface
			mm	L	kg		Tilting angle	Number		
Fixed Ditching FD	CX11872929	V4	1 300	150	121	•	-	-	-	S40
Tiltable Ditching TD	CX11871981	V4	1 200	125	136	•	45°	1	-	S40

ECR50F, ECR58F - (S40)



Bucket Type	MOM code	Shape	Cutting width	Capacity	Weight	Drain holes	Teeth		Bottom wear protection	Bolted side cutters	Interface
			mm	L	kg		Type	Number			
General Purpose Bucket GP	CX11872878	V4	300	62	84	•	8GPC	2	•	Option	S40
	CX11872886	V4	300	62	77	•	-	0	•	Option	S40
	CX11872879	V4	400	93	98	•	8GPC	3	•	Option	S40
	CX11872880	V4	450	99	100	•	8GPC	4	•	Option	S40
	CX11872881	V4	500	114	109	•	8GPC	4	•	Option	S40
	CX11872882	V4	600	144	125	•	8GPC	5	•	Option	S40
	CX11872883	V4	700	174	135	•	8GPC	5	•	Option	S40
	CX11872884	V4	800	205	147	•	8GPC	5	•	Option	S40
	CX11872885	V4	900	235	161	•	8GPC	6	•	Option	S40
General Purpose GPX	CX11871729	V6	700	260	185	•	8GPC	4	•	-	S40
	CX11871718	V6	700	260	170	•	-	0	•	-	S40
Cable Bucket CAX	CX11871717	V6	450	145	133	•	-	0	•	-	S40
Tiltrotator Grading Bucket TGX	CX11871719	V6	1240	250	177	-	-	0	•	-	S40

Bucket Type	MOM code	Shape	Cutting width	Capacity	Weight	Drain holes	Cylinder		Reversible bolt on edge	Interface
			mm	L	kg		Tilting angle	Number		
Fixed Ditching FD	CX11872928	V4	1500	221	180	•	-	-	•	S40
Tiltable Ditching TD	CX11872274	V4	1500	221	303	•	45°	1	•	S40

EC60E, EW60E - (S40)



Bucket Type	MOM code	Shape	Cutting width	Capacity	Weight	Drain holes	Teeth		Bottom wear protection	Bolted side cutters	Interface
			mm	L	kg		Type	Number			
General Purpose Bucket GP	CE11872878	V4	300	62	84	•	8GPC	2	•	Option	S40
	CE11872886	V4	300	62	77	•	-	0	•	Option	S40
	CE11872879	V4	400	93	98	•	8GPC	3	•	Option	S40
	CE11872880	V4	450	99	100	•	8GPC	4	•	Option	S40
	CE11872881	V4	500	114	109	•	8GPC	4	•	Option	S40
	CE11872882	V4	600	144	125	•	8GPC	5	•	Option	S40
	CE11872883	V4	700	174	135	•	8GPC	5	•	Option	S40
	CE11872884	V4	800	205	147	•	8GPC	5	•	Option	S40
	CE11872885	V4	900	235	161	•	8GPC	6	•	Option	S40
General Purpose GPX	CE11871729	V6	700	260	185	•	8GPC	4	•	-	S40
	CE11871718	V6	700	260	170	•	-	0	•	-	S40
Cable Bucket CAX	CE11871717	V6	450	145	133	•	-	0	•	-	S40
Tiltrotator Grading Bucket TGX	CE11871719	V6	1240	250	177	-	-	0	•	-	S40

Bucket Type	MOM code	Shape	Cutting width	Capacity	Weight	Drain holes	Cylinder		Reversible bolt on edge	Interface
			mm	L	kg		Tilting angle	Number		
Fixed Ditching FD	CE11872928	V4	1500	221	180	•	-	-	•	S40
Tiltable Ditching TD	CE11872274	V4	1500	221	303	•	45°	1	•	S40

ECR88D - (S50)



Bucket Type	MOM code	Shape	Cutting width	Capacity	Weight	Drain holes	Teeth		Bottom wear protection	Bolted side cutters	Interface
			mm	L	kg		Type	Number			
General Purpose Bucket GP	CE11872893	V4	350	106	134	•	8GPC	2	•	Option	S50
	CE11872901	V4	350	106	127	•	-	0	•	Option	S50
	CE11872894	V4	400	122	137	•	8GPC	3	•	Option	S50
	CE11872895	V4	450	143	145	•	8GPC	4	•	Option	S50
	CE11872896	V4	500	156	152	•	8GPC	4	•	Option	S50
	CE11872897	V4	600	200	169	•	8GPC	5	•	Option	S50
	CE11872898	V4	700	244	183	•	8GPC	5	•	Option	S50
	CE11872899	V4	800	288	196	•	8GPC	5	•	Option	S50
	CE11872900	V4	900	333	214	•	8GPC	6	•	Option	S50
General Purpose GPX	CE11871859	V6	700	320	203	•	8GPC	4	•	-	S50
	CE11871858	V6	700	320	187	•	-	0	•	-	S50
Cable Bucket CAX	CE11871857	V6	450	180	145	•	-	0	•	-	S50
Tiltrotator Grading Bucket TGX	CE11871860	V6	1340	340	205	-	-	0	•	-	S50

Bucket Type	MOM code	Shape	Cutting width	Capacity	Weight	Drain holes	Cylinder		Reversible bolt on edge	Interface
			mm	L	kg		Tilting angle	Number		
Fixed Ditching FD	CE54544632	V4	1800	356	221	•	-	-	•	S50
Tiltable Ditching TD	CE11871930	V4	1500	270	385	•	45°	1	•	S50

Volvo Hydraulic breakers

Volvo propose a complete range of Volvo hydraulic breakers for Volvo compact Excavators.

Breaker solution for a wide range

Excavator model	HB01	HB02	HB03	HB06	HB08
EC15, EC18, ECR18, EC20	•				
EC15, EC18, EC20, ECR25, EC27		•			
EC27, ECR25, EC35, EC37, ECR35, ECR40,			•		
ECR50, EC55, ECR58, EW60, EC60				•	
ECR88					•

Two channels to order Volvo Hydraulic breakers

- Factory fitted breakers with new machines (from Belley factory or, Rotterdam depot): Kits, Configurable and, Ready to work.

	Kit (in box) from Belley	Ready to work from Belley	Kit (in box) from Rotterdam	Configurable (in box) from Rotterdam
HB01	•	•		
HB02	•	•		
HB03	•	•		
HB06	•	•	•	
HB08				•

- Loose supplied breakers (from Gent attachment warehouse): Kits and Configurable

	Kit (in box) from Gent	Configurable (in box) from Gent
HB01	•	
HB02	•	
HB03	•	
HB06		•
HB08		•

Factory fitted breaker kits, from Belley factory or Rotterdam.

HB01 / HB02 / HB03 / HB06 "kits"

You just need to select in the same order line:
- **Breaker kit**
- **Breaker bracket**: Volvo brackets to fit quick couplers offered by Volvo

Breaker kit comes with **hoses** (with quick coupling), **one tool** (Pyramid moil point), **Volvo operator manual** (22 languages), **gas charging kit**, maintenance **tool box**, and **CE declaration**, packaged in box.

Model	Item	Description	Notes	Option #	Weight (kg)
HB01	**Breaker Kit**	HB01T_1.5-2T_CEX_1TL	Body, hoses and pyramid moil	55111127	65
	Bracket	BB_DF_CEX1.5-1.8T_HB01	Direct Fit/Pin On type (1,5t-1,8t)	55085009	12
		BB_DF_CEX2T_HB01	Direct Fit/Pin On type (2t)	53532779	9,5
		BB_S30/180_CEX1.5-2T_HB01	Symmetrical type	53540247	11,5
		BB_LEH-SW1_CEX1.5-2T_HB01	Lehnhoff type	53586692	13
HB02LN	**Breaker Kit**	HB02TLN_1.5-2.5T_CEX_1TL	Body, hoses and pyramid moil	53134771	113
	Bracket	BB_DF_CEX1.5-1.8T_HB02	Direct Fit/Pin On type (1,5t-1,8t)	11871498	16
		BB_DF_CEX2T_HB02	Direct Fit/Pin On type (2t)	11871499	15
		BB_DF_CEX2.5T_HB02_HB03	Direct Fit/Pin On type (2,5t)	11871500	18
		BB_S30/180_CEX1.5-2T_HB02	Symmetrical type (1,5t-2t)	11871508	14
		BB_S40_CEX2.5-4T_HB02_HB03	Symmetrical type (2,5t)	11871509	18
		BB_LEH-SW1_CEX1.5-2T_HB02	Lehnhoff type (1,5t-2t)	11871494	15
		BB_LEH-SW3_CEX2.5-4T_HB02_HB03	Lehnhoff type (2,5t)	11871495	20
HB03LN	**Breaker Kit**	HB03TLN_2.5-3.5T_CEX_1TL	Body, hoses and pyramid moil	11871490	148
	Bracket	BB_DF_CEX2.5T_HB02_HB03	Direct Fit/Pin On type (2,5t)	11871500	18
		BB_DF_CEX3.5T_HB03	Direct Fit/Pin On type (3,5t-4t)	11871501	20
		BB_S40_CEX2.5-4T_HB02_HB03	Symmetrical type (2,5t-4t)	11871509	18
		BB_LEH-SW3_CEX2.5-4T_HB02_HB03	Lehnhoff type	11871495	20
HB06LN	**Breaker Kit**	HB06TLN_5T_CEX_1TL		11871492	245
	Bracket	BB_DF_CEX5T_HB06	Direct fit or UQC	11871502	59
		BB_LEH-SW3_CEX5T_HB06	Lehnhoff® type	11871496	44
		BB_S40_CEX5T_HB06	Symmetrical S40	11871510	40

Factory fitted "configurable" breaker, from Rotterdam depot.

HB08 "configurable"

You have to "configure" in the same order line:
- **Breaker body**: The breaker itself
- **Breaker bracket**: Volvo brackets to fit quick couplers offered by Volvo
- **Breaker hoses**: For Quick Coupler or for Direct Fit
- **Tool**: Pyramid moil, Moil point, Chisel, Blunt, Compacting Plate, Spade

"Configurated" breaker also comes with **Volvo operator manual** (22 languages), **gas charging kit**, maintenance **tool box**, and **CE declaration**, packaged in box.

Model	Combination	Description	Notes	Option	Weight
HB08	**Body**	HB08TLN_BREAKER_8T_EC		8302528	451
	Hose	HB08_HOSE_CEX08_QC		8302560	7
		HB08_HOSE_CEX08_QC W HYD KIT	With hose quick couplings	8302562	9
		HB08_HOSE_CEX08_WO QC		8302561	7
	Bracket	BB_DF_CEX8T_HB08	Direct fit or UQC	11871503	92
		BB_LEH-SW8_CEX8T_HB08	Lehnhoff® type	11871497	56
		BB_S50_CEX8T_HB08	Symmetrical S50	54718293	50
	Tool	HB08_Pyarmid_Moil		8300221	40
		HB08_Moil point		8300220	39
		HB08_Chisel Transversal		8300222	41
		HB08_Blunt		8300224	43
		HB08_Compacting plate		8300225	64
		HB08_Spade		8300226	44

"Breaker Assembly" option on ECR58 and smaller models.

When a hydraulic breaker is ordered from the factory on an ECR58 or smaller compact excavator, the "Breaker Assembly" option means that the HB01 / HB02 / HB03 / HB06 can be delivered factory-assembled and ready to use:
- Mounting plate and breaker are assembled
- The breaker is charged with nitrogen, and greased

Model	Combination	Description	Notes	Option
HB01 **HB02** **HB03** **HB06**	**Breaker + Bracket**	Breaker Assembly, Ready to Work	Configured specifically for the machine and quick coupler that is selected in MOM	11872712

Loose supplied "breaker kits ", from Gent attachment warehouse.

HB02 / HB03 kits

You just need to select in the same order line:
- **Breaker kit**
- **Breaker bracket**: Volvo brackets to fit quick couplers offered by Volvo

Breaker kit comes with **hoses** (with quick coupling), one **tool** (Pyramid moil point), **Volvo operator manual** (22 languages), **gas charging kit**, maintenance **tool box**, and CE declaration, packaged in box.

Model	Item	Description	Notes	Option #	Weight (kg)
HB01	**Breaker Kit**	HB01T_1.5-2T_CEX_1TL	Body, hoses and pyramid moil	55111127	65
	Bracket	BB_DF_CEX1.5-1.8T_HB01	Direct Fit/Pin On type (1,5t-1,8t)	55085009	12
		BB_DF_CEX2T_HB01	Direct Fit/Pin On type (2t)	53532779	9,5
		BB_S30/180_CEX1.5-2T_HB01	Symmetrical type	53540247	11,5
		BB_LEH-SW1_CEX1.5-2T_HB01	Lehnhoff type	53586692	13
HB02LN	**Breaker Kit**	HB02TLN_1.5-2.5T_CEX_1TL	Body, hoses and pyramid moil	53134771	113
	Bracket	BB_DF_CEX1.5-1.8T_HB02	Direct Fit/Pin On type (1,5t-1,8t)	11871498	16
		BB_DF_CEX2T_HB02	Direct Fit/Pin On type (2t)	11871499	15
		BB_DF_CEX2.5T_HB02_HB03	Direct Fit/Pin On type (2,5t)	11871500	18
		BB_S30/180_CEX1.5-2T_HB02	Symmetrical type (1,5t-2t)	11871508	14
		BB_S40_CEX2.5-4T_HB02_HB03	Symmetrical type (2,5t)	11871509	18
		BB_LEH-SW1_CEX1.5-2T_HB02	Lehnhoff type (1,5t-2t)	11871494	15
		BB_LEH-SW3_CEX2.5-4T_HB02_HB03	Lehnhoff type (2,5t)	11871495	20
HB03LN	**Breaker Kit**	HB03TLN_2.5-3.5T_CEX_1TL	Body, hoses and pyramid moil	11871490	148
	Bracket	BB_DF_CEX2.5T_HB02_HB03	Direct Fit/Pin On type (2,5t)	11871500	18
		BB_DF_CEX3.5T_HB03	Direct Fit/Pin On type (3,5t-4t)	11871501	20
		BB_S40_CEX2.5-4T_HB02_HB03	Symmetrical type (2,5t-4t)	11871509	18
		BB_LEH-SW3_CEX2.5-4T_HB02_HB03	Lehnhoff type	11871495	20

Loose supplied "configurable breakers" (from Gent attachment warehouse)

HB06 / HB08 "configurable"

You have to "configure" in the same order line:
- **Breaker body**: The breaker itself
- **Breaker bracket**: Volvo brackets to fit quick couplers offered by Volvo
- **Breaker hoses**: For Quick Coupler or for Direct Fit
- **Tool**: Pyramid moil, Moil point, Chisel, Blunt, Compacting Plate, Spade

"Configurated" breaker also comes with **Volvo operator manual** (22 languages), **gas charging kit**, maintenance **tool box**, and **CE declaration**, packaged in box.

Model	Combination	Description	Notes	Option	Weight
HB06	**Body**	HB06TLN_BREAKER_5-6T_EC		8302527	224
	Hose	HB06_HOSE_CEX_5T_QC		8302557	3
		HB06_HOSE_CEX_5T_QC W HYD KIT	With hose quick couplings	8302559	6
		HB06_HOSE_CEX_5T_WO QC		8302558	3
	Bracket	BB_DF_CEX_5T_HB06	Direct fit or UQC	11871502	59
		BB_LEH-SW3_CEX5T_HB06	Lehnhoff® type	11871496	44
		BB_S40_CEX_5T_HB06	Symmetrical S40	11871510	40
	Tool	HB06_Pyarmid_Moil		8300214	18
		HB06_Moil point		8300213	18
		HB06_Chisel Transversal		8300215	18
		HB06_Blunt		8300217	19
		HB06_Compacting plate		8300218	45
		HB06_Spade		8300219	23
HB08	**Body**	HB08TLN_BREAKER_8T_EC		8302528	451
	Hose	HB08_HOSE_CEX08_QC		8302560	7
		HB08_HOSE_CEX08_QC W HYD KIT	With hose quick couplings	8302562	9
		HB08_HOSE_CEX08_WO QC		8302561	7
	Bracket	BB_DF_CEX8T_HB08	Direct fit or UQC	11771503	92
		BB_LEH-SW8_CEX8T_HB08	Lehnhoff® type	11871497	56
		BB_S50_CEX8T_HB08	Symmetrical S50	54718293	50
	Tool	HB08_Pyarmid_Moil		8300221	40
		HB08_Moil point		8300220	39
		HB08_Chisel Transversal		8300222	41
		HB08_Blunt		8300224	43
		HB08_Compacting plate		8300225	64
		HB08_Spade		8300226	44



Model			HB01	HB02LN	HB03LN	HB06LN	HB08LN
Operation weight *		kg	79	132	169	312	605
ID plate weight **		kg	65	113	148	245	499
Breaker weight ***		kg	57	104	134	224	451
Overall length		mm	1 116	1 200	1 442	1 610	2 121
Tool diameter		mm	40	45	57	70	90
Required oil flow		lpm	15~38	13~30	23~70	29~65	42~94
Operating pressure		kg/cm²	60~130	65~125	90~120	110~165	140~170
Back pressure		kg/cm²	20	20	20	20	20
Blow rate	Long stroke	bpm	800~1 200	760~1 460	600~1 500	380~1 000	380~900
	Short stroke						490~1 010
Second relief valve pressure		kg/cm²	175	175	175	175	175
Back head gas pressure		kg/cm²	10~14	10~14	14~16	10~14	10~14
Noise level ****		dB(LwA)	114	110	110	117	119
Impact energy ****		J	122	157	294	613	831
Output power		W	2 440	3 820	7 350	1 0217	12 465
Auto lube			no	no	no	no	no

* : Operation weight including breaker body (breaker weight), breaker bracket, hose, tool, pins
** : ID plate weight: Operating weight excluding breaker bracket and pins
*** : Breaker weight excluding breaker bracket, hose, tool, pins
**** : Impact energy data is often calculated or even estimated, not measured. In the case of some manufacturers, the published energy ratings are higher than is technically possible. Output power is calculated using impact energy and blow rate.

Tiltrotators and Volvo Control System

EC37, ECR40

Steelwrist® Tiltrotator	MOM code	Model name	Description
X04	54780845	X04 Direct Fit/S40	Steelw_TR_X04_DF_S40FPH
	54780894	X04 S40/S40	Steelw_TR_X04_S40_S40FPH
	54780882	X04 Direct Fit/S40 with Gripper	Steelw_TR_X04_DF_S40FPH_GR
	54780871	X04 S40/S40 with Gripper	Steelw_TR_X04_S40_S40FPH_GR
Control System	55057934	Control System with display	Steelw_Tiltrotator control sys

ECR50, ECR58

Steelwrist® Tiltrotator	MOM code	Model name	Description
X07	53252772	X07 Direct Fit/S40	Steelw_TR_X07_DF_S40FPH
	53252796	X07 S40/S40	Steelw_TR_X07_S40_S40FPH
	53252782	X07 Direct Fit/S40 with Gripper	Steelw_TR_X07_DF_S40FPH_GR
	53252789	X07 S40/S40 with Gripper	Steelw_TR_X07_S40_S40FPH_GR
Control System	55057934	Control System with display	Steelw_Tiltrotator control sys

EC60, EW60

Steelwrist® Tiltrotator	MOM code	Model name	Description
X07	CE55061363	X07 Direct Fit/S40	Steelw_TR_X07_DF_S40FPH
	CE55061360	X07 S40/S40	Steelw_TR_X07_S40_S40FPH
	CE55061365	X07 Direct Fit/S40 with Gripper	Steelw_TR_X07_DF_S40FPH_GR
	CE55061361	X07 S40/S40 with Gripper	Steelw_TR_X07_S40_S40FPH_GR
Control System	CE88001	Control System with display	Steelw_Tiltrotator control sys

ECR88

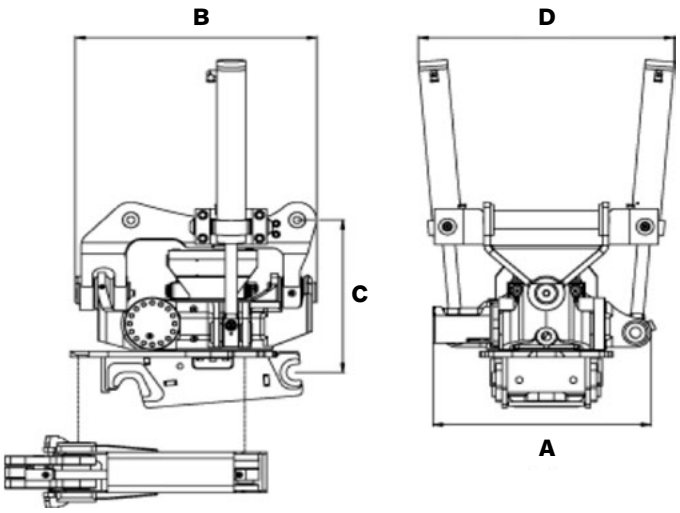
Steelwrist® Tiltrotator	MOM code	Model name	Description
X12	CE54179077	X12 Direct Fit/S50	SteelwristTR_X12_DF-S50FPL
	CE54179075	X12 S50/S50	SteelwristTR_X12_S50-S50FPL
	CE54179079	X12 Direct Fit/S50 with GRIPPER	SteelwristTR_X12_DF-S50FPL_GR
	CE54179076	X12 S50/S50 with GRIPPER	SteelwristTR_X12_S50-S50FPL_GR
Control System	CE88001	Control system with display	Tiltrotator_Control_System



Steelwrist® tiltrotator models : Weight & Dimension

		EC37 - ECR40		ECR50 - ECR58 - EC60 - EW60		ECR88D	
Steelwrist® Tiltrotator		X04		X07		X12	
Factory Fitted		Yes		Yes		Yes	
Machine Weight	t	2-4		5-7		7-12	
Upper Coupler Type		S40	Direct Fit	S40	Direct Fit	S50	Direct Fit
Attachment Coupler Type		S40		S40		S50	
Max. Tilt Angle	°	+/- 45		+/- 45		+/- 45	
Hydraulic Cylinders		1		1		2	
Safety Solution		FPH		FPH		FPL	
Body		Cast Steel / Welded		Cast Steel / Welded		Cast Steel / Welded	
Tilt Torque	kNm	10.6		13.8		29	
Rotation Torque	kNm	3.9		5.2		5.4	
A Width	mm	330		365		567	
A Width With Gripper	mm	459		459		578	
B Length	mm	523	570	573	635	625	689
C Build Height	mm	343	324	373	401	425	494
D Width Over cylinders	mm	499	437	562	459	676	678
Weight	kg	102	104	205	212	249	306
Weight With Gripper	kg	141	143	230	235	321	379
Gripper Opening Width	mm	425		513		508	
Gripper Fingers		3		3		4	
Lifting Hook	ton	2*	2	2*	2	5*	3

* The lifting hook is on the upper quick coupler attached to the dipper arm, not on the tiltrotator.



Mandatory Volvo machine hydraulics
Double acting main auxiliary line X1 (Standard equipment in most countries)

SECTION 4

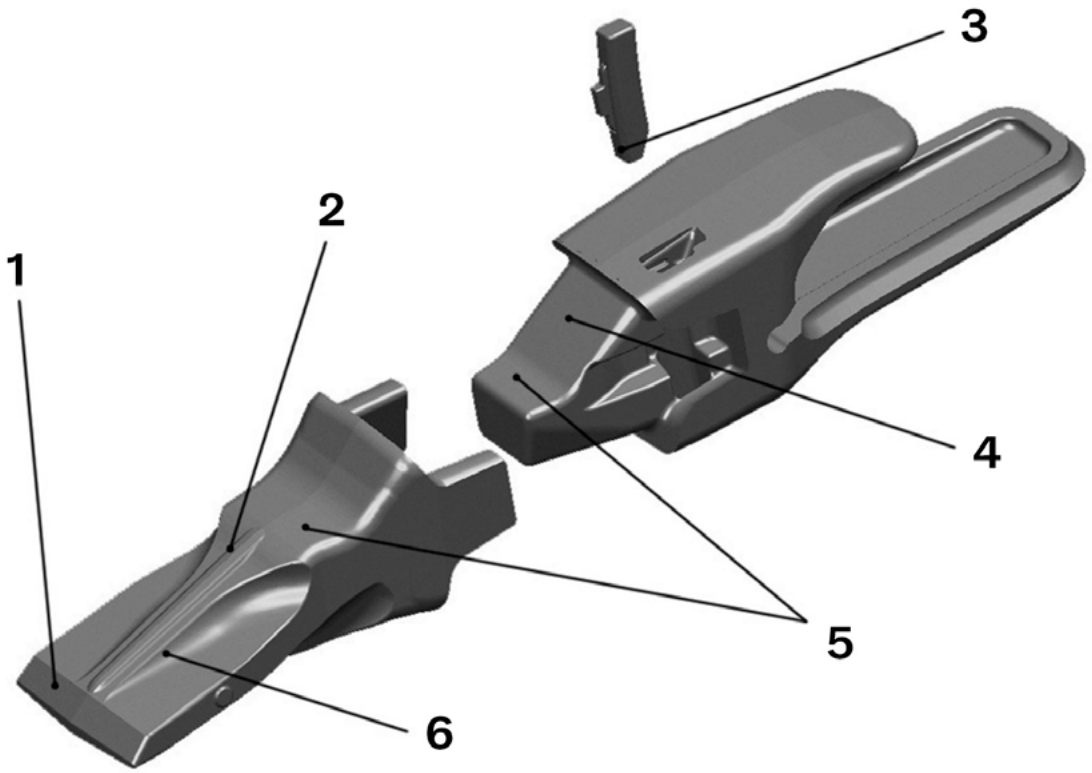
VOLVO GROUND ENGAGING TOOLS



Volvo teeth and bolt on edge (for buckets)

Volvo teeth description

Volvo perfects the excavator bucket's point of attack with a robust tooth system that delivers performance and long life. Cast and tempered from a high-strength alloy, Volvo teeth resist stress and deliver optimum penetration in hard or abrasive material. An innovative design lessens internal wear between tooth and adapter — and makes it easy to change teeth.



1. Self-sharpening design
2. High-quality steel alloy
3. Vertical locking pin & retainer
4. Resistance to forces
5. Two pieces, perfect fit
6. Optimized wear material

- Volvo teeth are designed to outfit excavator buckets for any kind of digging conditions, from compacted clay to poorly blasted rock to free flowing materials.
- Volvo's smart design and tight fit between tooth and adapter greatly reduce the wear on bucket teeth caused by extreme breakout forces, abrasive digging conditions and shocks to the bucket.
- The patented vertical locking device makes it easy to change teeth. The steel pin with flexible lock retainer tightly secures the tooth to the adapter. Smart design transfers working stresses away from the locking device, saving wear on the steel pin and extending pin life.
- Self-sharpening Volvo teeth are designed for a small penetration area, which reduces stress and wear at the point of contact.
- From the hardness of the alloy to the strategically placed wear material, Volvo teeth are made for performance and maximum wear. That means quicker job completion, lower fuel consumption and lower maintenance costs.

MB



MB - Monoblock tooth or bolt on tooth. Tooth and adapter in one piece.

GPC



GPC - General purpose compact tooth with good penetration and long service life. Self-sharpening.

TPC



TPC - Twin pick compact teeth work in extremely compact material. Maximum penetration capability in hard clay, frozen ground etc. Can be used with PPC teeth.

PPC



PPC - Pick point compact tooth for work in extremely compact material. Maximum penetration capability in hard clay, frozen ground etc. They can be used in combination with TPC teeth.

BL adapter



BL - 1 1/2 bottom leg adapter for welding to both sides of the front cutting edge.

SNC



SNC - Spade nose compact tooth for levelling, cleaning, grading and back filling.

Volvo teeth for digging buckets part numbers

Teeth

EC15, ECR18, EC18, EC20, EC27, ECR25	**Part no**	**VOE 11803050***

Range	Part no	VOE 15603435	VOE 15625775	VOE 15625776	VOE 15625774	VOE 15603438 *
ECR48, ECR50, EC50, EC55, ECR58, EC60, EW60	Description	Size 8GPC	Size 8PPC	Size 8TPC	Size 8SNC	Size MB8 *

* Bolt on tooth – no adapter necessary

Adapter

Range	Part no	VOE 15633939
ECR38, EC37F, ECR40F	Description	EA5BLU

Range	Part no	VOE 15633940
ECR48C, ECR50F, EC55C, ECR58Plus, ECR58F, EC60E, EW60E, ECR88Plus, ECR88D	Description	EA8BL20

Bolt on edge for Ditch cleaning buckets part numbers



Bolt on edge kit

Width	Ditch Bucket type	Part no
1 500 mm	Fixed	VOE15642643
1 500 mm	Tiltable	VOE15671534
1 800 mm	Fixed	VOE54479824

* Bolt on edge is available through Aftermarket. This reference does not include tightening nuts and bolts.

Bolt on edge for ditching buckets

Volvo breaker tools

Tool application guide

Roadbuilding/construction	HB01	HB02	HB03	HB06	HB08
Breaking of road surface	C, M, P	C, M, P	C, M, S, P	C, M, S, P	C, M, S, P
Asphalt cutting	C	C, S	C, S	C, S	C, S
Demolition of bridges	C, M, P	C, M, P	B, C, M, P	B, C, M, P	B, C, M, P
Compacting soils	-	-	CP	CP	CP
Making holes (for traffic signs, lamp posts)	M	M	M	M	M
Breaking of frozen ground	C, M, P	C, M, P	C, M, S, P	C, M, S, P	C, M, S, P

Demolition/housing development					
Demolition of concrete walls, roofs, floors	C, M, P	C, M, P	B, C, M, P	B, C, M, P	B, C, M, P
Demolition of light, reinforced concrete foundation (<.5 m)	M, P	M, P	B, M, P	B, M, P	B, M, P
Brick walls	C, M, P	C, M, P	B, C, M, P	B, C, M, P	B, C, M, P
Separating rebar from concrete (for recycling)	M, P	M, P	B, M, P	B, M, P	B, M, P

Metallurgical applications					
Breaking of refractory linings in furnaces	C, M	C, M	C, M	C, M	C, M

P = Pyramid Moil
M = Moil
C = Chisel
B = Blunt
CP = Compacting Plate
S = Spade

Moils & Chisels



Moil

The standard tool for any application. Causes less burring in the tool retainer.

Moil	HB01	HB02LN	HB03LN	HB06LN	HB08LN
Part number	VOE53811407	VOE53724845	VOE 17237651	VOE 17237655	VOE 17269445



Pyramid moil

Soft, nonabrasive and tough rock and especially concrete
- Materials requiring high penetration rate
- Where chisels have excessive retaining pin groove wear

Pyramid moil	HB01	HB02LN	HB03LN	HB06LN	HB08LN
Part number	VOE53811387	VOE53724577	VOE 17232273	VOE 17232275	VOE 17269446



Chisel transversal

The recommended tool for most jobs, especially in rock excavation and concrete demolition where the wedged tip makes the job more efficient.

Chisel transversal	HB01	HB02LN	HB03LN	HB06LN	HB08LN
Part number	VOE53811409	VOE53724846	VOE 17233031	VOE 17233043	VOE 17269449



Chisel parallel

The recommended tool for most jobs, especially in rock excavation and concrete demolition where the wedged tip makes the job more efficient.

Chisel parallel	HB03LN	HB06LN	HB08LN
Part number	VOE 17237652	VOE 17237657	VOE 17269448

Blunts, Spade & Compacting blade



Blunt

Hard rock with low or medium abrasive content
- Boulder breaking or concrete demolition
- Application where tool wear rate is low

Blunt	HB03LN	HB06LN	HB08LN
Part number	VOE 17237345	VOE 17233058	VOE 17237658



Spade

Recommended tool for cutting asphalt or frozen ground.

Spade parallel to boom	HB03LN	HB06LN	HB08LN
Part number	VOE 17237654	VOE 17237660	VOE 17272726



Compacting plate

A special tool for soft ground applications.

Compacting plate	HB03LN	HB06LN	HB08LN
Part number	VOE 17237653	VOE 17237658	VOE 17272724

Volvo Breaker paste

- It is very important that **only dedicated breaker** paste is used for Volvo Hydraulic Breakers to ensure appropriate lubrication, protection and optimal lifetime of the wear parts.
- For this purpose Volvo recommends **Volvo Breaker Paste**. Using other generic greases like multipurpose and EP lithium greases are not recommended as these materials may cause significant wear under less than 100 hours.
- Breaker paste provides superior shock load protection, ensuring suitable lubrication of the breaker. The characteristics of paste ensure the lubricant adheres to the tool even under the high temperatures generated during the breaking process.





- **Volvo Breaker Paste** cartridge **S type** from Volvo Parts: **VOE 54556016**
- Note 1: Volvo Breaker Paste cartridge **S-type** has been designed for **Autolube system** (Very popular for large excavator breakers)
- Note 2: **Manual greasing** of Volvo breaker for **Compact excavator** will require a manual grease gun that can accommodate the S-type/spin on cartridge. Other alternative may be to cut off the threaded section of the cartridge in order to fit it into the push-pull type grease guns.

2025.03 / English-21 / CEX / Volvo, Global Marketing

VOLVO