





Chemical anchors

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CHEMICAL ANCHOR SYSTEMS YOU CAN TRUST

Hilti Chemical Anchor Systems

For a specifier or installer of anchoring connections, ensuring the safety and longevity of the build is paramount. That's why our products undergo extensive trials and technical assessments.

We offer a full suite of ETA assessed chemical anchoring solutions to suit every application from basic through to the most complex and challenging. Our wide range of injectable and capsule adhesive systems provide reliable solutions for fastening threaded rods, rebars and other elements to concrete, masonry and natural stone.

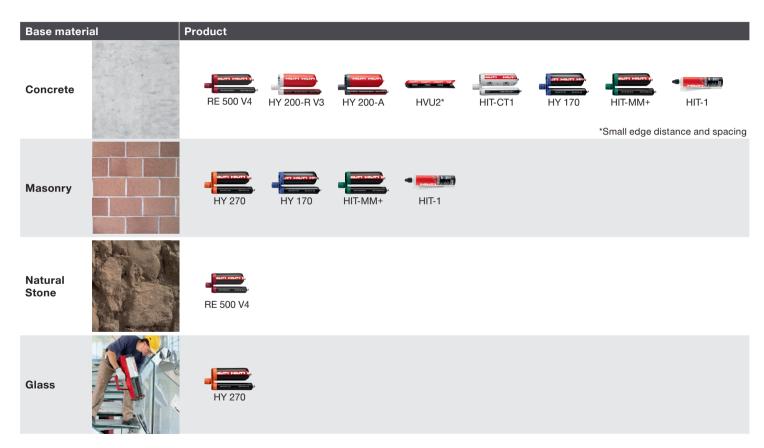
Our products are backed by an extensive array of technical resources including software, ETA documentation, technical data, installation instructions and videos.

CHEMICAL ANCHOR TECHNOLOGIES TO SUIT ALL NEEDS

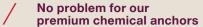
The Hilti chemical anchor portfolio

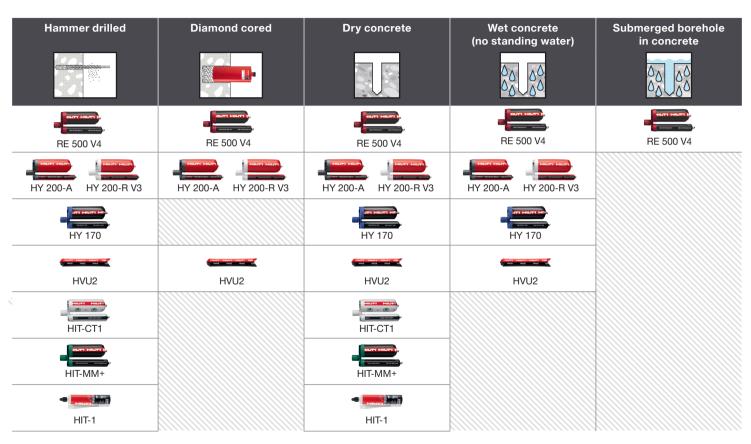


ALL BASES COVERED / Chemical anchors for all common base materials



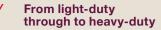
DIAMOND CORED OR WATER-FILLED HOLES? /





AN ADHESIVE FOR EVERY APPLICATION / From light-duty through to heavy-duty

	Product	Light Duty	Medium Duty	Heavy Duty
Super fast cure capsule	HVU2			
Slow cure injection	RE 500 V4			
	HY 200-R V3*			
<u> </u>	ну 200-A			
Fast cure	HY 170			
njection	HIT-CT1			
	HIT-MM+			
	■ HIT-1			



When time is money, choose SAFFSFT HY 200 + HIT-7

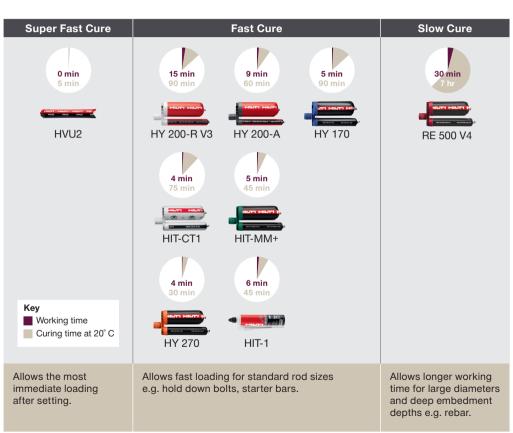
- Same load capacity
- Less mortar
- Less rebar hits
- · Less drill time, less drill bits
- Shorter rod



Download the Volume Calculator app from Google Play or the **App Store**







ADVANCED SYSTEMS / All backed by European approvals and certifications





	SAFEset	SA	AFESET feature	es						
Product	Auto-cleaning with hollow drill bit	Zero cleaning with HIT-Z rod	Roughening tool for cored holes	ETA for uncracked concrete	ETA for cracked concrete	ETA for masonry	ETA for seismic	ETA beyond cast-In for rebar	Fire tested	NSF for potable water
HVU2				•	•		•		•	•
RE 500 V4	-			•	•		•	•	•	•
HY 200-R V3				•	•		-	•	•	•
HY 200-A				•	•		•		•	•
HY 170	1			•	•	•				•
HIT-MM+										•
HY 270						•			-	•
HIT-CT1				•	•					•
◆ HIT-1										

PRODUCTIVITY, FLEXIBILITY, SIMPLICITY / Our rod portfolio offers all this and more



FASTER AND SAFER INSTALLATION



Our dispensers speed up the job and make injecting easy and safe





Dosing knob for accurate borehole filling and no mortar wastage

Nuron HDE 500-22 Cordless Adhesive Dispenser

- Up to 3 times faster than manual dispensing with no dripping & less adhesive waste.
- Application LED gives feedback if installation performed correctly.
- One dispenser that works with all Hilti Adhesive foil packs.

Work continuously without getting tired

Battery compatible with all Hilti Nuron Tools.



HDE 500-A12

12v Cordless Dispenser

- Robust and reliable
- Ergonomic design for easy handling
- Suits 500ml and 330ml adhesive tubes



HDM 330 / 500

Manual dispensers

- For limited use applications.
- Suits 500ml or 330ml adhesive tubes.



P 8000 D

The pneumatic dispenser

- For speedy dispensing in large diameter holes
- Performance ~ 20 sec for 1400ml tube



RELIABLE, SAFE AND EASY

Chemical anchor accessories

SAFESET

No hole cleaning

Dustless and reliable setting, using Hilti SAFESET auto-cleaning feature of the hollow drill bit.



- Wide range from M12 to M35
- Available drill depth up to 1000 mm
- ETA compliant only with HVU2 capsule, RE 500 V4, HY 200, CT 1 and HY 170

Fast installation in cored holes

Roughen diamond cored holes for seismic conditions or cracked concrete.



· Faster installation thanks to less hole cleaning

SAFE

- Achieve higher loads
- ETA compliant with RF 500 V4 and HY 200

Hole cleaning accessories

For manual and machine cleaning.







- ≤ Ø 55mm
- All hole depths

Secure injection

Total installer safety and reliable setting with Hilti piston plugs and drip guards for overhead anchoring.



- No air bubbles
- No mortar blow out
- Less mortar



No dripping

INTRODUCING THE FIRST ETA APPROVED BONDED SCREW

HILTI HUS4 SCREW WITH HUS4-MAX CAPSULE: SIMPLICITY IN A CAPSULE AND SCREW SYSTEM!

Up to four times faster than traditional injection adhesive systems.

- Anchors can be loaded immediately instant curing of the resin
- High performance in cracked and uncracked concrete
- Each capsule contains exactly the right amount of resin, for maximum efficiency and economy - no wastage.
- · Adjustable and removable even after curing.





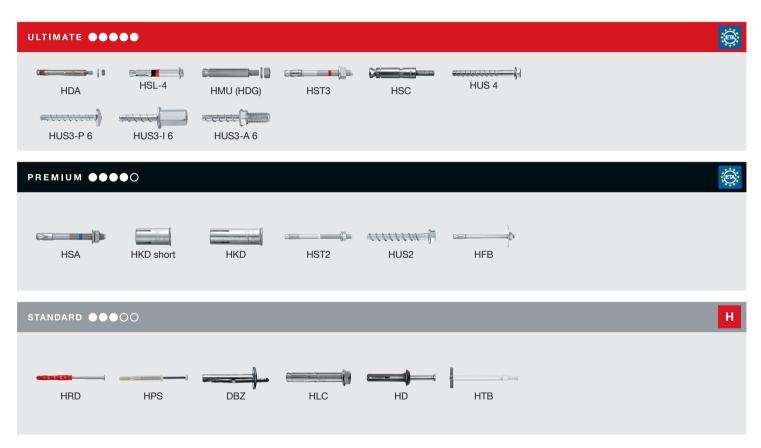
MECHANICAL ANCHOR SYSTEMS YOU CAN TRUST

Hilti Mechanical Anchor Systems

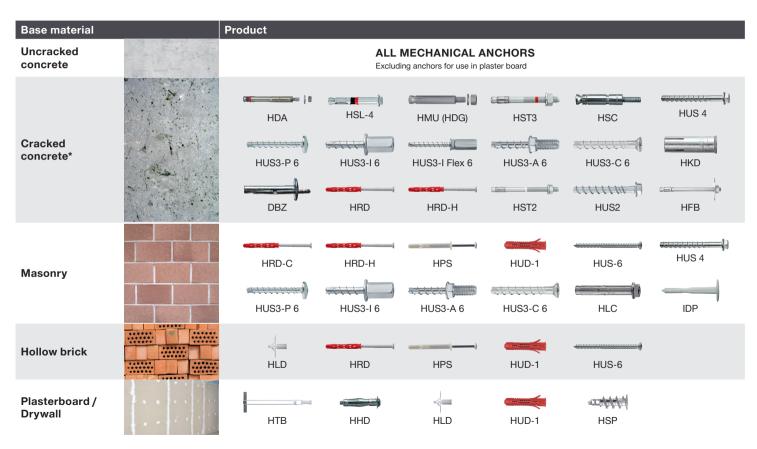
Our extensive range of mechanical anchors covers fixings for all kinds of base materials, from concrete and precast panels through to masonry and hollow blocks. We have fastening solutions for different environments and applications.

And for your peace of mind, our anchors are proven to provide the strongest solution for safety critical applications - fully backed by technical documentation, software and engineering services.

MECHANICAL ANCHORS TO SUIT ALL NEEDS / The Hilti mechanical anchor portfolio

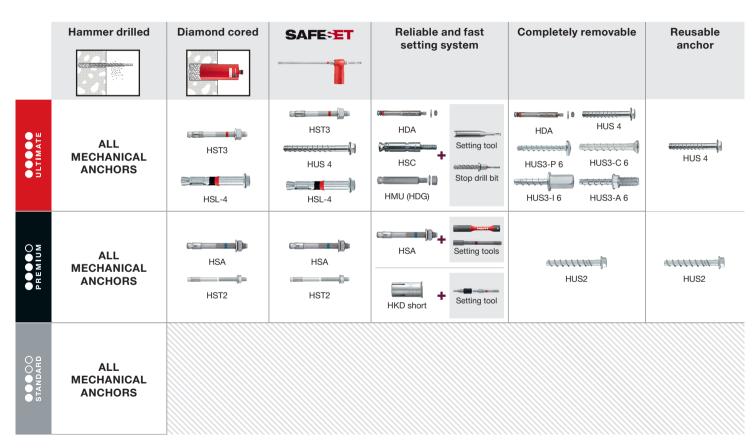


A mechanical anchor ALL BASES COVERED for every base material



*Approvals for redundant fastenings available. Contact Hilti for advice

SOLUTIONS FOR SPECIAL CONDITIONS / Diamond cored, dustless or reusable

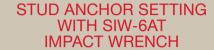


BEST IN CLASS / From economical to ultimate performance



THE APPROVED ADAPTIVE TORQUE SYSTEM /

SI-AT-A22 impact wrench module







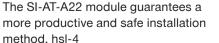












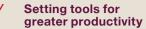


The installation documentation reports the actions performed.





FASTER INSTALLATION /



Setting tool for HSA anchors	Setting tool for HKD anchors	Checking gauge for HUS anchors	Setting system for HUS anchors
+	+	+	+
 With stud anchors HSA, HSA-F & HSA-R 	With all the short HKD's	 With all HUS 4 screw anchors 	With all the screw anchors
 No over or under torquing SIW impact wrench with torque bar for setting anchors quickly and reliably 	 Reduces the risk of rebar hits when drilling Drilling and setting with one tool No need to change tools Holes always drilled to the correct depth 	 Verified reusability Check anchor performance with HRG check gauge 	 Fast Installation Cutting edge geometry for superior setting
Save time and money	► Safe and productive	⊳ Safe	► Productive

FLAWLESS INSTALLATION /



Installation tools for greater safety

Torque controlled HSL4-B	SafeSet System	Disassembly tool for HDA	Setting tool for undercut anchors HDA, HSC & HMU-PF
		+	+
• With HSL4-B (Red cap)	With stud anchors HST3, HST2, HSA and heavy duty anchor HSL4	With HDA anchor	With all undercut anchors
 Reduces the risk of wrong torque during installation Visual check for correct setting (Red cap) 	DustlessPeace of mindSet to the right torque	 Easy and fast removal process Anchor will be completely removed, no steel part left in the concrete 	 Achieves consistent drilled hole depth for proper installation of undercut anchors Length and diameter matched to each anchor size for maximum confidence in every fastening point
➤ Safe and productive	▶ Safe and fast	▶ Flexible	▶ Fast and accurate

ULTIMATE ANCHORS /

Strongest solutions for safety critical applications



		1101 4				
HDA	HSC	HSL-4	HMU	HST3	HUS4	HUS3-I/A/P
18	VALUE OF THE PARTY					
HDA-P, HDA-PF HDA-PR, HDA-TF (pre-setting) HDA-T, HDA-TR (through setting)	HSC-I, HSC-IR (internal thread HSC-A, HSC-AR (external thread)	HSL4, HSL4-B, HSL4-G, HSL4-SK HSL-3-R, HSL- 3-GR, HSL-3-SKR	HMU-PF	HST3 HST3-R	HUS4-H, HUS4-HF, HUS4-HR, HUS4-C, HUS4-CR, HUS4-A, HUS4-AF	HUS3-I 6 HUS3-A 6 HUS3-P 6
				A4 HCR //-		₩ - - - - - - - - - -
 Heavy-duty fastenings for all dynamic loading (shock, seismic and fatigue) in cracked or uncracked concrete Self-undercutting facilitates fast and reliable installation Close spacing and small edge distance 	 High loads at shallow embedment, small edge distances and close spacing Self-undercutting facilitates fast and reliable installation Excellent dynamic and shock load resistance 	 Special safety red cap ensures the correct installation torque High variety of head configuration provides more flexibility Suitable for applications with high shear and tensile loads 	 High performance undercut with a hot-dip galvanised coating for protection against corrosion Self-undercutting facilitates fast and reliable installation Simple verification of correct setting with red mark 	 Highest tensile and shear load performance One solution for multiple conditions: new concrete to old structures, diamond core, dustless installation Greater flexibility with thin slabs due to two embedment depths Close to slab edge and smallest spacing 	 Fast and easy installation Completely removable Adjustable (carbon steel only) Small spacing and edge distance Safety through verified reusability Various head configurations (hex, counter-sunk & threaded) 	 50% faster than traditional flush anchors Shallow embedment depth and closer to edge Easy setting thanks to cutting edge Can be removed ETA approved for prestressed hollow core slabs

PREMIUM ANCHORS /

Approved solutions for day to day applications



HUS2	HST2	HSA	HKD	HFB
A STATE OF THE PARTY OF THE PAR	The state of the s			
HUS2	HST2	HSA, HSA-F, HSA-R	HKD, HKD-SR, HKD-D, HKD-ER	HFB
 High productivity - less drilling and fewer operations than with conventional anchors Suitable for cracked and non-cracked concrete C20/25 ETA approval for cracked and noncracked concrete Technical data for reusability in fresh concrete (fck, cube = 10/15/20 Nmm2) for temporary applications Two embedment depths for maximum design flexibility 	Optimized expansion cone and wedge design combined with special steel and coatings Suitable for non-cracked and cracked concrete Product and length identification mark facilitates quality control and inspection	Safe and fast hammering with the HS-SC tool The only stud anchor to be installed with impact wrench: fast, convenient and reliable torqueing with the torque bar Best performance for uncracked concrete 3 embedment depths offering maximum flexibility	Flared end for accurate setting flush with the surface, independent of the hole depth Ideal for repetitive fastening with threaded rods of equal length Anchor and setting tool provides faster installation ETA approved for prestressed hollow core slabs (HKD short only)	System tests with several market leading boards Keeps its place under static, dynamic and seismic (C1) conditions thereby minimizing economical impact Faster and more reliable nail anchor for cracked concrete Short embedment depth of 25 mm, 30 mm and 35 mm No torque needed to set the anchor Mesh clip for a quick and easy installation support when used with sprayed fire protection mortar

STANDARD ANCHORS /

Efficient solutions for a variety of conditions



HRD-H/C	HPS	НТВ	DBZ	HUS6
HRD-H, HRD-HF, HRD-HR, HRD-C, HRD-CR	HPS-1, HSP-1R Hilti Technical Manual	HTB, HTB-S	DBZ Hilti Technical Manual	HUS6 Hilti Technical Manual
 Flexibility to use with many base materials No spinning in the borehole Flexible embedment depth Wide range of fastening thickness Double thread for high loads in hollow materials 	 For universal use on many materials, including perforated brick and block The hammer-driven screw can be driven or unscrewed using a screwdriver Quick impact installation using a hammer 	 Designed for hollow base material Simple setting process Flexible embedment depth Removable screw: toggle stays in place 	 Simple and fast through-fastening Impact expansion by hammering in, no setting tool is needed Reliable setting thanks to the simple visual check 	 Wide range of lengths available Quick and easy to set

HAT 28 E / HAT 28 M

Complete systems including accessories, packed in an impact resistant aluminium case

- Test load can be read directly from the gauge
- Suitable for testing anchors with various head forms and of various diameters
- · Compact and easy-to-use



HAT 28 Elevator HAT 28 E



Effective span of loadspreading bridge: 207 mm

HAT 28 Master kit HAT 28 M



Effective span of loadspreading bridge: 118 mm



COMPARE OUR RANGE / Mechanical anchor quick comparison chart

	A		Undercut anchors			Expansion anchors			
	Anchor type	HDA	HMU-PF	HSC	HSL-4	нѕтз	HST2	HSA	
	Anchor size	M10-M20	M8-M20	M6-M12	M8-M24	M8-M24	M8-M24	M6-M20	
	Cracked concrete	•	•				•		
_	Non cracked concrete	•		•			•		
BASE MATERIAL	Lightweight concrete								
MAT	Aerated concrete								
ASE	Solid brick masonry								
m	Hollow brick masonry								
	Drywall								
	Redundant fastening								
	European Technical approval (ETA)	•		•			•		
ALS	ETA seismic C1	•					•		
APPROVALS	ETA seismic C2**	•				•			
APP	Fatigue approval*	•							
	Shock approval*				•				
	Fire tested	•	•	•			•	•	
	Steel, galvanised	•			•	•			
NO	Steel, hot-dipped galvanised	•	•						
SPECIFICATION	Stainless steel A2								
ECIE	Stainless steel A4			•			•	•	
SPI	External thread	•			•	•			
	Internal thread			•					
SETTING	Pre-setting				•	•			
SET	Through-fastening	•					•		
	Profis								

^{*}Local approvals

^{**}Seismic C2 approval for M8 & M10 HSC-A anchor only

COMPARE OUR RANGE / Mechanical anchor quick comparison chart

				Screw anchors				Flush anchors	
	Anchor type	HUS4	HUS3 I/A/P	HUS4-HR/CR	HUS2	HUS 6	HKD	HKD REDUNDANT	HKV
	Anchor size	8, 10, 12, 14, 16	6	HR: 6, 8, 10, 14 CR: 8, 10	8, 10	6	M6-M20	M6-M16	M16 x 65
	Cracked concrete	•		•		•			
_	Non cracked concrete	•		•			•	•	
MATERIAL	Lightweight concrete								
MAT	Aerated concrete	•		•					
BASE	Solid brick masonry	•		•		•			
В	Hollow brick masonry								
	Drywall								
	Redundant fastening							•	
	European Technical approval (ETA)	•		•					
ALS	ETA seismic C1	•		•					
APPROVALS	ETA seismic C2	•							
APP	Fatigue approval*								
	Shock approval*								
	Fire tested	•		•				•	
	Steel, galvanised	•		•				•	
NO	Steel, hot-dipped galvanised	•							
SPECIFICATION	Stainless steel A2								
CIFI	Stainless steel A4			•			•	•	
SPE	External thread	•							
	Internal thread								
SETTING	Pre-setting								
SET	Through-fastening	•		•					
	Profis	•		•					

COMPARE OUR RANGE / **Mechanical anchor** quick comparison chart

		Plastic anchors										
	Anchor type	HRD	HPS-1	HUD-1	HUD-L	HLD	DBZ	HLC	нт	HHD-S	HSP/HFP	нтв
	Anchor size	M8-M10	M4-M8	M5-M14	M6-M10	M10	M6	M5-M16	M8-M10	M4-M8	M4,5	M5-M6
	Cracked concrete											
BASE MATERIAL	Non cracked concrete											
	Lightweight concrete								•			
MATI	Aerated concrete											
BASE	Solid brick masonry											
	Hollow brick masonry											
	Drywall											
	Redundant fastening											
APPROVALS	European Technical approval (ETA)											
	ETA seismic C1											
	ETA seismic C2											
	Fatigue approval*											
	Shock approval*											
	Fire tested											
	Steel, galvanised								•	•		
NO	Steel, hot-dipped galvanised											
SPECIFICATION	Stainless steel A2											
	Stainless steel A4											
	External thread											
	Internal thread											
SETTING	Pre-setting									•	•	
SET	Through-fastening											

SERVICE AND SOFTWARE

Hilti Service and Software

We make your projects easier, safer and more productive by automating complex calculations and reducing the need for in-depth engineering expertise. Our design software solutions are based on tested and approved Hilti technologies and international codes to ensure you safely and reliably design applications.

Our team of engineers will work with you on-site and on the phone across Great Britain.









We provide expert advice, when and where you need it

Our on-site anchor testing ensures the quality and safety of the end result

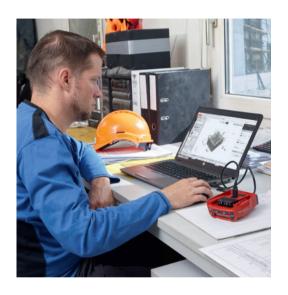
PROFIS ENGINEERING, REBAR AND ANCHOR CHANNEL SOFTWARES ENSURES THE IDEAL SOLUTION FOR THE APPLICATION DESIGN

Our national team of engineers provides specialist support to ensure the job is done right

PROFIS ENGINEERING /



Post-installed connections made easy



Our state of the art PROFIS Engineering assists planners and specifiers make the necessary calculations to design anchor and rebar connections with simplicity and certainty.

SIMPLICITY

- Easy to use visual software makes it easy to model your exact application
- Full access to Hilti's BIM/CAD objects integrated within the software
- Detailed design reports created automatically to provide your project documentation
- Automatic software updates ensure you are always working with the most current product approvals and latest design methods

















