

HDA undercut anchor system



Base materials

- Concrete (cracked)
- Concrete (uncracked)

Applications

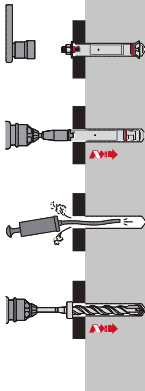
- Safety-relevant, heavy-duty fastenings for all dynamic loading (shock, seismic and fatigue) in cracked or uncracked concrete, including applications in nuclear power plants
- Fastenings to support heavy pipes, safety barriers, industrial machines, crane rails, dorm structures, crash barriers, roof fixings, elevator tracks, bridge retrofitting etc.

Advantages

- Self-undercutting facilitates fast and reliable installation without the need for a separate undercutting tool or additional operations.
- Combines the advantages of a post-installed mechanical anchor, i.e. flexibility and immediate loading, with the performance of a cast-in-place headed stud
- Close spacing and small edge distance thanks to low expansion forces
- The resulting keying effect helps keep the anchor secure even in cracked concrete under dynamic loading
- Manufactured under an NQA-1 nuclear quality assurance program with comprehensive approvals
- Completely removable, if necessary

Approvals

BZS/shock BZS for HDA
 ETA ETA-39/0009 for HDA (ETAG 001-3, Option 1)
 Approvals and test reports may apply to selected products only. Please refer to the documents for details.



These are abbreviated instructions which may vary by application. Always review/follow the instructions accompanying the product or refer to www.hilti.com/techlib.

Carbon steel through-set undercut anchor HDA-T

Technical data	Bolt: steel, 8.8 grade, zinc-plated (min. 5 µm)
Material composition	Externally threaded
Head configuration	Yes
PROFIS	Manufactured under a nuclear quality assurance program according to ASME NQA-1 and 10CFR50 App. B
Additional product information	



Ordering designation	Anchor size	Max. thickness at standard	Base plate clearance hole	Drilling depth	Required tightening torque	Wrench size	Sales pack quantity	Item number
HDA-T M10x100/20	M10	20 mm	21 mm	127 mm	50 Nm	17 mm	12 pc	331545 ¹⁾
HDA-T M12x125/30	M12	30 mm	23 mm	163 mm	80 Nm	19 mm	8 pc	331548 ¹⁾
HDA-T M12x125/50	M12	50 mm	23 mm	183 mm	80 Nm	19 mm	8 pc	331549 ¹⁾
HDA-T M16x190/40	M16	40 mm	32 mm	243 mm	120 Nm	24 mm	4 pc	331552 ¹⁾
HDA-T M16x190/60	M16	60 mm	32 mm	263 mm	120 Nm	24 mm	4 pc	331553 ¹⁾
HDA-T M20x250/50	M20	50 mm	40 mm	316 mm	300 Nm	30 mm	2 pc	339267 ¹⁾
HDA-T M20x250/100	M20	100 mm	40 mm	366 mm	300 Nm	30 mm	2 pc	339268 ¹⁾

¹⁾ This is a non-stock item. For detailed lead time information please contact your Hilti representative.

Please visit our website for the latest item numbers and related products.

Undercut anchor system HDA-TF

Technical data	Bolt: steel, 8.8 grade, sherardized (min. 53 µm)
Material composition	Externally threaded
Head configuration	Yes
PROFIS	Manufactured under a nuclear quality assurance program according to ASME NQA-1-2000 and 10CFR50 App. B
Additional product information	



Base materials

- Concrete (cracked)
- Concrete (uncracked)



Ordering designation	Anchor size	Max. fixture thickness at standard	Base plate clearance hole	Drilling depth	Required tightening torque	Wrench size	Sales pack quantity	Item number
HDA-TF M12x125/30	M12	30 mm	23 mm	163 mm	80 Nm	19 mm	8 pc	412904 ¹⁾

¹⁾ This is a non-stock item. For detailed lead time information please contact your Hilti representative.

Carbon steel through-set undercut anchor HDA-TR

Technical data	Steel, A4 (SS316)
Material composition	Externally threaded
Head configuration	Yes
PROFIS	Meets approval requirements when installed using the specified stop drill bit, setting tool and rotary hammer
Additional product information	



Base materials

- Concrete (cracked)
- Concrete (uncracked)



Ordering designation	Anchor size	Max. thickness at standard	Base plate clearance hole	Drilling depth	Required tightening torque	Wrench size	Sales pack quantity	Item number
HDA-TR M10x100/20	M10	20 mm	21 mm	127 mm	50 Nm	17 mm	12 pc	339351 ¹⁾
HDA-TR M12x125/30	M12	30 mm	23 mm	163 mm	80 Nm	19 mm	8 pc	339352 ¹⁾
HDA-TR M16x190/60	M16	60 mm	32 mm	263 mm	120 Nm	24 mm	4 pc	339355 ¹⁾

¹⁾ This is a non-stock item. For detailed lead time information please contact your Hilti representative.

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Carbon steel pre-set undercut anchor HDA-P



Technical data	<p> Bolt: steel, 8.8 grade, zinc-plated (min. 5 µm) Externally threaded Yes Meets approval requirements when installed using the specified stop drill bit, setting tool and rotary hammer</p>
Material composition	Steel, A4 (SS316)
Head configuration	Externally threaded
PROFIS	Yes
Additional product information	Meets approval requirements when installed using the specified stop drill bit, setting tool and rotary hammer

Base materials

- Concrete (cracked)
- Concrete (uncracked)



Ordering designation	Anchor size	Max. fixture thickness at standard	Base plate clearance hole	Drilling depth	Required tightening torque	Wrench size	Sales pack quantity	Item number
HDA-P M10x100/20	M10	20 mm	12 mm	107 mm	50 Nm	17 mm	12 pc	331544 ¹⁾
HDA-P M12x125/30	M12	30 mm	14 mm	133 mm	80 Nm	19 mm	8 pc	331546 ¹⁾
HDA-P M16x180/40	M16	50 mm	14 mm	133 mm	80 Nm	19 mm	8 pc	331547 ¹⁾
HDA-P M16x190/40	M16	40 mm	18 mm	203 mm	120 Nm	24 mm	4 pc	331550 ¹⁾
HDA-P M16x190/60	M16	60 mm	18 mm	203 mm	120 Nm	24 mm	4 pc	331551 ¹⁾
HDA-P M20x250/50	M20	50 mm	22 mm	266 mm	300 Nm	30 mm	2 pc	339265 ¹⁾
HDA-P M20x250/100	M20	100 mm	22 mm	266 mm	300 Nm	30 mm	2 pc	339266 ¹⁾

¹⁾ This is a non-stock item. For detailed lead time information please contact your Hilti representative.

Pre-set undercut anchor system (sherardized) HDA-PF



Technical data	<p> Bolt: steel, 8.8 grade, sherardized (min. 53 µm) Externally threaded Yes Meets approval requirements when installed using the specified stop drill bit, setting tool and rotary hammer</p>
Material composition	Steel, A4 (SS316)
Head configuration	Externally threaded
PROFIS	Yes
Additional product information	Meets approval requirements when installed using the specified stop drill bit, setting tool and rotary hammer

Base materials

- Concrete (cracked)
- Concrete (uncracked)



Ordering designation	Anchor size	Max. fixture thickness at standard	Base plate clearance hole	Drilling depth	Required tightening torque	Wrench size	Sales pack quantity	Item number
HDA-PF M16x190/40	M16	40 mm	18 mm	203 mm	120 Nm	24 mm	4 pc	339359 ¹⁾
HDA-PF M16x190/60	M16	60 mm	18 mm	203 mm	120 Nm	24 mm	4 pc	339360 ¹⁾

¹⁾ This is a non-stock item. For detailed lead time information please contact your Hilti representative.

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Stainless steel pre-set undercut anchor HDA-PR



Technical data	<p> Bolt: steel, 8.8 grade, zinc-plated (min. 5 µm) Externally threaded Yes Meets approval requirements when installed using the specified stop drill bit, setting tool and rotary hammer</p>
Material composition	Steel, A4 (SS316)
Head configuration	Externally threaded
PROFIS	Yes
Additional product information	Meets approval requirements when installed using the specified stop drill bit, setting tool and rotary hammer

Base materials

- Concrete (cracked)
- Concrete (uncracked)



Ordering designation	Anchor size	Max. fixture thickness at standard	Base plate clearance hole	Drilling depth	Required tightening torque	Wrench size	Sales pack quantity	Item number
HDA-PR M10x100/20	M10	20 mm	12 mm	107 mm	50 Nm	17 mm	12 pc	339348 ¹⁾
HDA-PR M12x125/30	M12	30 mm	14 mm	133 mm	80 Nm	19 mm	8 pc	339347 ¹⁾
HDA-PR M16x180/40	M16	50 mm	14 mm	133 mm	80 Nm	19 mm	8 pc	339348 ¹⁾
HDA-PR M16x190/40	M16	40 mm	18 mm	203 mm	120 Nm	24 mm	4 pc	339349 ¹⁾
HDA-PR M16x190/60	M16	60 mm	18 mm	203 mm	120 Nm	24 mm	4 pc	339350 ¹⁾

¹⁾ This is a non-stock item. For detailed lead time information please contact your Hilti representative.

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