



Hilti Group: 1941 | 2014

A history of creating enthusiastic customers.

The Hilti group is a worldwide supplier of system solution in the field of measuring, drilling, demolition, cutting, fastening and construction chemicals. Based in Europe, Hilti offers outstanding products & quality services to construction professionals around the world. Our technologically leading products and systems increase the productivity of our customers. They benefit from our innovation, comprehensive technical advice and a proven professional service.

The Hilti Group was founded in 1941 by Martin & Eugen Hilti. Today, Hilti is a strong team of over 21,000 employees with operation in more than 120 countries. The Hilti culture, which is founded on four pillars of integrity, courage, team work and commitment, is reflected in every employee across all functions.

Apart from upholding the interest of customers and employees, Hilti actively honours its social and ecological responsibility and hence creates the foundation of trust that makes the long-term success possible for the company.

Hilti India: 1997 | 2014

Bringing the world at your door step.

Hilti India is an ISO 9001 company which started its direct operations in India in 1997 and is now a strong team of over 400 people.

With Head Office in New Delhi, over 27 sales offices / service centers and more than 300 technical sales personal in the field, we have made our presence felt in almost all the projects in India.

Everyday we meet about 1200 customers across various locations in India to understand their needs and provide solutions to fit their requirement.

We constantly strive to change the way construction is done in India by bringing world-class state-of-art technology at your door step & by providing sound technical advice.

We are also known to be a different company because of our culture and unmatched spirit. By always putting people first, we have been ranked in the 'Top 50 companies to work at' for five consecutive years (2008, 2009, 2010, 2011 & 2012).

Products & Services



Hilti Introduction Page 2-3





Measuring Systems Page 4-9



Drilling & Demolition Systems Page 10-11



Cordless & Cutting Systems Page 12-15



Diamond Drilling & Cutting Systems Page 16-19



Screw Fastening Systems Page 20-21



Direct Fastening Systems Page 22-23



Anchor Systems Page 24-26



Firestop & Foam Systems Page 27-36

Top 20 reasons to buy Hilti:



- Direct sales: Experience direct sales service provided by a highly qualified technical sales team backed by various support functions, making about 1,200 customers contacts in India every day.
- Pan India coverage: Wherever may be your project or office, Hilti service is only a phone call away.
- Concern for the environment: We take special steps to ensure that our products and manufacturing facility are safe for the environment.
- Widest range of products: Get complete solution for your measuring, drilling, cutting, fastening, fire sealing & demolition requirement covering all trades pertaining to construction and maintenance work.
- Warranty*: Get upto 1 year warranty against manufacturing defects. For details on exclusion and inclusion, please refer to warranty policy.
- Technical advice: Get free technical advice from our engineers for your various applications and requirements.
- Demonstration: See the performance of our products at your job-site before its purchase.
- Training at site and office: Free training to your operator to obtain higher productivity and better tool life. Also, call us for presentations and seminars on the latest technology to make construction simpler and faster.
- Unique sales offers*: Trade your old tool for a brand new Hilti tool at attractive terms; rate contracts for repeat & volume purchases... and many more.
- One-stop toll-free number: Dial 1800-102-6400 to get immediate response to your enquiries, complaints and avail free pick-up of your tools incase of breakdown.
- Anchor design: Get free anchor design service for your fastening applications.
- Fire-sealing estimation: Get free advice for your fire sealing requirements and appropriate estimation for your building.
- Approvals and certification: Get the most valued approvals & certifications for Hilti products.
- Anchor pull-out test: See the performance of the anchor at your job-site for free.
- Technical literature: Get proper technical literature to aid you in your decisions and product usage.
- Tool pick-up and delivery: Free pick-up and delivery of Hilti Tools from site for repairs, exclusions will be specifically stated during sale. eq Angle grinder
- World-class products: Get the best products in the world with the latest technology to make your work more safe and efficient.
- ISO certified repair centers: Get your tool repaired at more than 20 Hilti owned service centers to ensure fair repair cost and use of genuine spare-parts.
- Repair cost limit*: Within the defined life time of the tool, the one-time repair cost will never exceed 20-30% of the list price of the tool. For details, please refer to Repair Cost Limit policy.
- Calibration facility: Get your measuring tools calibrated by professionals to ensure accurate measurements at site.

EPAIR

^{*}Conditions apply. Please contact Hilti sales person for latest service offerings.

Hilti system solution



Direct professional assistance.

We bring our services to you

Our Hilti representative is at your service on your job-sites, bringing experience that helps you stay a step ahead, providing application know-how, helping you select the optimum product for the job, providing solutions for complex situations and giving on-site demonstrations of innovative products.

Specification Stage:

Our technical team shall understand your application requirement and recommend the right product with the correct specification text and drawings. A highly accurate anchor design with product approvals shall be submitted for your future reference.

Tendering Stage:

Our experienced team will help you in planning & quoting for a tender by providing you with the right technical information and supporting document. For your measuring, fastening, drilling, demolition, cutting or fire sealing job, we will help you with the selection of appropriate products, related estimates, product guidelines, etc to ensure smooth execution of your work at site.

Product Procurement Stage:

Our technical person will conduct product demonstration at your site or product-show at your office to help you take the right decision. After the product to be purchased is decided, we will understand your procurement schedule and make all efforts to meet it on time. Proper error free quote shall be provided & the order process shall be customized to suit your business needs.

Execution Stage:

Hilti will provide free training on the usage of Hilti products at your job-site. This training is aimed to improve productivity of both the tools & your installers while make the operation much safer.

Even for the most difficult jobs, we have a team of specialists to help you in solving problems faced at site.

After Sales Service:

Get professional repair service for your Hilti tools at the nearest Hilti service center. Feel free to interact with our service engineer directly for better understanding of the tool repair requirement.

Please make use of our complaint cell to give us feedback for even the most trivial problem faced by you.

Measuring systems



Application

- · Measuring distances from 0.2 to 70 m quickly and accurately
- · Measuring heights where alternative measuring methods fail
- Measuring quickly and safely in places where access is diffcult

Product

PD 5





- · Measuring heights from floors to ceilings in a one-man operation.
- · Determining the surface area of walls, ceilings and floor for painting etc.
- · Volume calculations for planning ventilation and heating systems
- · Measuring the lengths of cables and pipes.







- Measuring heights from floor to ceilings in a PD-E one-man operation.
- · Measuring surface areas for quotations in renovation work.
- · Easy measurement of roof lengths using the trapezoid function.
- · Measuring long distances using outdoor mode.



Operation time with Alkaline battery

Accuracy Laser Measuring range Measuring functions IP protection class

Dimensions (LxWxH)

Battery type

±1.5 mm 635 nm, Class II 0.2 m - 70 m Single and continuous measurement

164 x 33 x 21 mm

IP55 2 x AAA, Alkaline 8000 measurements

Advantages

- · Simple and intuitive to use
- Single-button operation
- · New compact design that fits in every pocket
- Waterproof and dust tight
- Rugged and durable
- · Ergonomic design for unique operating convenience

Tripod thread diameter

Measuring range Accuracy 1/4 in 0m -100m +1mm

Measuring functions Single and continuous measurement, Digital level

Data memory Last 30 measurements/ calculation result with graphics

Calculation functions Addition, Subtraction, Area, Volume, Painters

area, Setting out, min/max, Timer, Offset, Memory(30x), Trapezoid(2x), Pythagoras(3x),

Indirect measurement(3x)

<1 mW, 635nm, Class2 (IEC 608251:2007), Class II

(FDA CFR 21 art. 1040)

IP protection class IP 65 (EN 60529)
Battery type 2 x 1.5 V (AAA)

Automatic switch-off

Laser class

Yes

· No minimum distances when measuring very short distances

 LEDs provide clear identification of the measuring reference and thus help avoid errors.

Built-in-360 sensor for various application possibilties

- · Extremely ruggedly built to withstand hard jobsite use.
- Measuring quickly and safely in places where access is difficult.
- · Quick, reliable measurement

 Tripod thread diameter
 1/4 in

 Measuring range
 0m -200m

 Accuracy
 ± 1mm

Measuring functions Single and continuous measurement,
Outdoor mode, Digital level

Data memory Last 30 measurements/ calculation result with graphics Calculation functions Addition, Subtraction, Area, Volume, Painters

> area, Setting out, min/max, Timer, Offset, Memory(30x), Trapezoid(2x), Pythagoras(3x),

Indirect measurement(3x) <1 mW, 635nm, Class2 (IEC 608251:2007), Class II

Laser class <1 mW, 635nm, Class2 (IEC 608251:2007), Class II (FDA CFR 21 art. 1040)

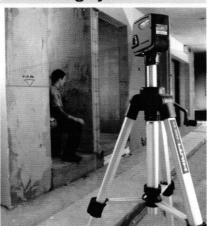
 IP protection class
 IP 65 (EN 60529)

 Battery type
 2 x 1.5 V (AAA)

 Automatic switch-off
 Yes

- Measuring up to 200m even under the toughest outdoor conditions.
- The outdoor display is readable even in very bright sunlight.
- LEDs provide clear identification of the measuring reference and thus help avoid errors.
- · Built-in 360° tilt sensor for various application possibilities.
- · Built-in optical view finder for outdoor measurement
- · Measuring quickly and safely in places where access is difficult.

Measuring systems



Application

- · Transferring reference heights
- · Vertical alignment of pipes
- Leveling electrical sockets, cable trays and pipe installations
- Leveling and aligning doors and windows
- · Setting out drywalls for partitioning
- Transferring fastening points from floors to ceilings



PMC 46





- Leveling (transferring heights, pouring concrete, excavation)
- Aligning (transferring building lines, aligning colums and walls)
- · Slopes (ramps, parking lots, pipes)
- · Squaring (walls, partitions)







Range 30m (Points), 10m (Lines)
Accuracy at 24° C ±1.5mm @ 10m (Length of the line)

aser 635nm, Class 2 (EN 60825-3:2007/IEC 60825-3:2007);

Self-leveling range Battery life Operating temperature

Weight
Dust and sprayed water protection

Class II (CFR 21 § 1040 FDA) ±5° 20hrs with alkaline batteries

-10° C to +50° C

413 g IP54 as per IEC 529 standard

Advantages

- A universal tool with practical accessories for a wide range of applications including leveling, aligning, plumbing and squaring in one toolbox
- · Complete with a compact tripod and an innovative universal
- adaptor for placing or mounting the tool wherever needed
 New IPS impact protection system, with rugged inner pendulum housing
- Leveling, aligning, plumbing and squaring all with one tool
- Laser receiver PMA31, an accessory for localization of line laser while working in exteriors

Range ± 0.75mm to 10m
Battery type Li-on
Dimension (LxWxH) 252x252x201mm
IP Protection class IP 56(IEC 529)
Laser functionality Horizontal levelling, Vertical aligning,
One 90°laser beam, Manual slope

Max. operating distance with laser received (diameter)

Operating distance range of remote control (diameter)

Operating range with laser receiver (diameter)

1 - 300m

1 - 300m

1 - 300m

2 0 to -50°C

Operating time with Li-on battery

30h

- Versatile rotating laser for leveling, aligning, slopes and squaring - indoors and outdoors
- Digital measurement read offsets from the PRA 31 laser re-ceiver (optional accessory)
- Remote control for operation by one person
- High speed of rotation for a very stable line
- . Built for jobsite conditions water protected (IP 56)
- · Easy power management with rechargeable Li-ion battery pack

Detection systems NK mm

Application

- · Locating reinforcement, copper or aluminium pipes in concrete
- · Locating copper or aluminium pipes in brick walls
- · Determining the position and depth of existing rebars for post-installed rebar connections
- · Checking concrete cover over reinforcement for trouble-free anchor setting

Product

PS 35

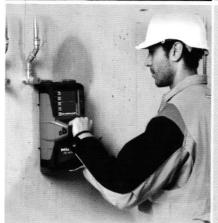




- · Rebar verification and analysis
- · Checking concrete cover over large areas for acceptance inspection and structural repair work

PS 250 Ferroscan





- Non-destructive inspection and detection of PS 1000 X-Scan concealed objects in steel-reinforced and prestressed concrete structures
- Detecting metal or plastic pipes and electric cables to avoid damage when drilling
- Locating rebars for post-installed rebar connections





120mm Max. detection depth for rebar and cover measurement 80mm Max. detection depth for non-ferrous metal objects (e.g. copper, aluminum) ±10mm Localization accuracy Accuracy of depth measurement for rebar +3 mm - +11mm Batteries 4 x 1.5 V AAA 23 x 10 x 4.5 cm Dimensions (LxWxH) - 15°C to 50°C Operating temperature Weight incl. batteries 450 a

Advantages

Work without trial and error -mark the position accurately before starting drilling.

- Avoids damage to rebar, copper and aluminium pipes when drilling
- · Avoiding hitting rebar increases drill bit lifetime
- · High depth measurement precision for rebar
- · Simple, user-friendly operation
- · Clear indication of detection with red /green LED
- · Ruggedly built for jobsite use

Detection Range	max. 160mm
Location accuracy	± 3mm
Depth measurement accuracy	± 1mm
IP protection class	IP 54
Operating temperature range	-10 to + 50°C
Battery life, scanner / monitor	8h with NiMH / 2h with Li-on battery pack

- · Scans large area of concrete quickly and easily
- Provides accurate depth of cover measurements for reinforcement at depths up to 100 mm.
- · Records scan data automatically over lengths of up to 30 meters
- Display a clear 2D image of the reinforcement on the monitor for on-the-spot structural analysis and depth of cover assessment.

Detection Range
Location accuracy
Depth measurement accuracy
IP protection class
Operating temperature range
Battery life, scanner / monitor
Dimensions / weight, scanner
Dimensions / weight, monitor

Dimensions / weight, scanner

Dimensions / weight, monitor

max. 300mm ±10mm

±10mm IP 54

-10 to + 50°C 4h / 2h with Li-on battery pack

318x190x143 mm / 2.5 Kg 292x208x65 mm / 2.3Kg

260x132x132 mm / 1.4 Kg

290x208x65 mm / 2.3Kg

- Locate objects of various kinds in concrete structures, even beneath reinforcing mesh
- Display a clear, real time 2D image directly on the Hilti PS 1000 display
- Processed 2D and 3D plan view or cross-sectional images are displayed in color on the PSA 100 monitor unit for further on-the spot evaluation of the data or printing

Tool

Y combi Hammer

TE 70D / J

8 3kg

2760

360

11.52

W0081

15to150m

1

10to32mm û

1

1

Tool under-utilized

Possible

Best performance & Lifetime

HIIti Tools TE 2 TE 2A **E** = **E** = **E** 1 0 0 TE 7C TE 30 Connection **103** 100 l Weight Design Pastol gnp Pistol Plato/ gnp Angular Angular Angular Pistol grip Angular Operator-comfort 2.4kg 2.7kg 2.7kg 2.9kg 2.8kg 3.8kg 3.4kg 4kg **Tool Selector Chart (Drilling Application)** BPM 4500 4600 5040 4600 4980 2000 4020 4080 **Fool Parameters** RPM 1000 930 930 1050 930 740 760 Input Impact power energy 3 1.83 3 8 1.83 30 2.63 3.37 350W AN AN W028 TIOW W088 720W W028 Concrete Masonry Drilling Drilling | Mixing conng in Wood" metal" Drywall" paint masonry Breaking 1 66to90mm Ü .0 0 6to90m . û Occasional usage 1 1 1 1 > 1 25to68mi û .5to68m 1 Sto68rr û Base Material 10to13mm 10to13mm 0 3to13mm û 3to10mm û 1 3to13mr ü 3to13mm û 15to30mm û Sto20mm û 15to30mm û 1020mr 1 1 5to20m Primary Usage > > > 1 > 1 1 1 1 1 1 1 1 40 Diameter of application (Primary Usage) in mm 30 26 24 8 20 18 16 14 12 10 8 9

Cordless Rotary Hammer (Li - Ion, battery) operated)

C combi Hammer

C combi

Angular

5.5kg

3180

920

4.93

1010W.

1

1

Y combi Hammer

TE 50

5.4kg

3180

999

5.23

W0801

20mm

10to32mm û

1

Y combi Hammer

TE 70 AVR

8.3kg

2760

360

11.54

1800W

Sta150m

1

20mm

10to32mn ū

>

1

Tool Selector Chart (Hammering application)

							Technical Parameters								
		Ap	plication				Operator o	comfort		Tool pa	rameters				
hipping	Breaking/ chipping Masonry	Roughening concrete	Scrapping surfaces	Tamping	Direction of application	Design	Weight	Vibration	Contact Pressure	ВРМ	Impact energy	Input	Connec- tion end	Hilti Tools	Tool Type
					Above waist	Angular	3.4 kg	17 m/s²	60 N	4020	2.6 J	720W	TE C	11) TE 7C	
					Above waist	Angular	5.5 Kg	16.3 m/s²	95 N	3180	4,9 J	1010W	TE C	19) TE 40	
					Above waist	Angular	5.4 Kg	16.1 m/s²	110N	3180	5.25 J	1050W	TE C	TE 50	Combi
					× -	Angular	8.3 Kg	10 m/s²	220 N	2760	11.5J	1800W	18 18 18 18 18 18 18 18	TE 70AVR	
					Above waist	Angular	5.6 Kg	12.1 m/s²	150 N	3180	7.5 J	1100W	TE Y 18	TE 500	
					* -	Angular	7.9 Kg	6.5 m/s²	150 N	2760/2520	11.5/8.3J	1300 W	TE Y 18	TE 700 AVE	Breakers
					Waist level	In Line	12.5 Kg	5 m/s2	150 N	1950	26J/21J	1750W	TE S 22	TE 1000	

Cordless & Cutting Tools



Application

- · Drilling in steel and sheet metal
- Drilling in wood with auger bits, paddle bits and Forstner bits
- Driving large-diameter wood screws
- · Various screwdriving jobs

Product

Hilti UD 30 electric drill





- Drilling in steel with bits up to 10 mm dia.
- Hole sawing in diameters up to 68 mm.
- Wood drilling with auger bits up to 20 mm dia.
- Driving screws up to 4.8 mm dia. in steel & upto 6 mm in wood.
- Driving anchor screws.







- Driving large-diameter wood screws Hilti SF 144-A
- Drilling in wood with auger, spade and Forstner bits
- Using hole saws to cut
- throughholes in wood and metal
- · High-speed drilling in sheet metal







- Tightening and releasing M12 to M24 bolts, machine screws and nuts.
- Assembling steel profiles, timber or pre-cast concrete components.
- Installing HRD frame anchors, HSL-B, HUS anchors.
- Driving wood screws up to 12 mm dia.

SIW22T-A Cordless impact Wrench





- · Fast cutting through metal pipes
- Precise cutting of pipes using the pipe clamp adapter
- · Ideal for wood demolition
- Flush cutting, cutting metal close to edges

WSR900-PE Reciprocating saw





Rated power input (W) Speed under no load: 1st gear (r.p.m.) 2nd gear (r.p.m.) Max. torque: 1st gear (Nm) 2nd gear (Nm) Keyless chuck (mm) Spindle collar (European standard)(mm) Weight without side handle (kg)

650 (6.5 amps) 1200 3300 51

18.5

0 43

23

0 1 5-13

Low weight for unique working comfort Keyless chuck with spindle lock for single hand operation

Advantages

Sturdy side handle, pivotable through 360°, for a secure hold

43 mm spindle collar (European standard) for drill stands Very reliable thanks to extremely rugged casing and robust

motor

Stepless electronic speed control for smooth, gentle starting and screwdriving

Battery capacity (option of 2 batteries) Dimensions (LxWxH)mm Weight (as per EPTA) No-load rpm.(1st / 2nd gear) Max. torque (Soft / Flexible joint) Max. torque (hard / rigid joint) Torque settings (15 increments)

14.4 V 1.6 Ah or 3.3 Ah 192 x 80 x 225 1.5 kg · Very compact design for best-possible access in tight corners.

· Perfect balance and low weight make the tool less tiring to use.

Precise drilling and screwdriving speed up to 1,700 /min. . Shadowless illumination provided by LED lamp built into the grip base.

0-500 / 1700 24 Nm 45 Nm 1.5 - 10 Nm

· Best-in-class power-to-weight ratio. · Long lasting battery - CPC technology

- State of charge display LED. - Protection from deep discharging.

- Overload protection.

- Temperature & Power monitoring.

Voltage/battery capacity No-load speeds (gears) Max. screwdriving torque soft joint/hard joint Torque regulation Keyless chuck Weight(incl. battery and chuck)

14.4 V/2.6 Ah Li-lon 380/1440 U/min. (2)

33/70 Nm 2 to 12 Nm in 15 steps

2.2 kg

Steel jaws 1.5 to 13 mm

Powerful, high-torque motor delivers superior performance Excellent balance for all-day working comfort thanks to Li-ion

battery technology All-metal gearing and impact-resistant glass-fber reinforced

Battery type (V) Battery capacity (Ah) / (Wh) No-load running speed (min.) Impact speed (/min.) Torque (Nm) Dimensions, L x W x H (mm) Weight incl. battery & charger Standard bolt range High tensile bolt range Chuck / Socket connection

Li-lon / 21.6 2.6 / 56.16 2000 2500 450 232 x 94 x 258

2.95 (kg)

M12 - M24

M8 - M16

1/2" Square

3.26 kg

yes

Tool is a replacement for handheld bolting M24 dia - min. efforts

1/2" square drive with heavy-duty ball notch retention for security and quick socket changes.

· High power to weight ratio.

· Compact design with excellent balance for precise handling.

· Long lasting battery - CPC technology - State of charge display LED

- Protection from deep discharging.

- Overload protection.

- Temperature & Power monitoring.

Power rating: Stroke rate (6 setting adjustable): Stroke:

Blade holder:

900-2700 min-1 32 mm Keyless 1/2? system for standard blades

Weight of machine: 442×88×221 mm Dimensions (L×W×H): Constant-speed electronics, Stroke rate regulation:

variable stroke rate, 6 settings Counter balance anti vibration system: ves yes

Vibration absorbing grips: Orbital action:

Anti vibration system reduces vibrations by up to 80%

More power for greater cutting performance; constent speed electronics assure consistent cutting performance even under

Keyless blade clamp with reversing position assure fast easy blade changing.

Keyless adjustable blade shoe for optimum use of saw blade

Orbital cutting action for faster cutting in wood.

Six stroke rate settings for optimum cutting performance in all materials



Angle grinder selection chart

For concrete and metal application

	6-	5-	6-			10
Technical Data	AG 100-8S	AG 100-8D	DAG 125-S	DCG 125-S	DCG 180-P	DCG 230-D
Cutting disc diameter (mm) Depth of cut (mm) Rated power (w) Rated Current (Amps) Speed under no load (rpm) Weight as per EPTA 1/2003 (kg) Arbour thread	100 25 850 3.4 11500 1.9 M14	100 25 850 3.4 11500 1.9 M14	125 35 1100 5.0 11000 2.2 M14	125 35 1400 6.4 11000 2.4 M14	180 40 2200 10.0 8500 4.6 M14	230 60 2600 12.0 6500 5.4 M14
Application						
Metal cutting & grinding Concrete cutting & grinding	*	*	×	*	*	*
Unique features						
Smart power March 19	x x x x fixed x side switch	x x x y fixed x deadman switch	y y y y fixed y side switch	y y y x fixed side switch	rotatable at 90° multi finger switch	rotatable at 90
Accessories						
Concrete cutting dust hood Concrete grinding dust hood Concrete slitting dust hood Slitting adaptor	* * *	* * *	* * *	*** *	* * *	× × ×
Consumables						

Consumables

Concrete cutting & grinding	ng disc.					
Concrete cutting disc	DC-D 100/20/GP	DC-D 100/20/GP	*	DC-D 125/22.2/GP	DC-D 180/22.2/GP	DC-D 230/22.2/GP
Grinding cup wheel	DC-C 100/20/SR	DC-C 100/20/SR	*	DG-CW 125/22.2/SR	DG-CW 180/22.2/SR	DG-CW 230/22.2/SR
Abrasive disc - All metal in	cluding stainle	ss steel				
INOX- for S.S, sheet metal	1.0 mm	1.0 mm	1.0 mm	1.0 mm	1.5 mm	1.8 mm
Metal cutting	2.5 mm	2.5 mm	2.5 mm	2.5 mm	2.5 mm	2.5 mm
Grinding disc	6.4 mm	6.4 mm	6.4 mm	6.4 mm	6.4 mm	6.4 mm



1. Electronic Starting current Limitation
Starting current drawn by motor is limited
to prevent the electric supply fuse blowing.
This also prevents tool starting with a jolt.

2. Constant speed electronics: Electronic control system keeps running speed almost constant under all conditions between idling and full-load. This constant speed ensures maximum working efficiency.

 Overheating prevention: Current input and motor temperature are monitored to prevent the tool over-heating. Power output is reduced noticeably or the tool may stop completely when excessive pressure is applied to it.



The ATC (Active Torque Control): Electronics detect an impending situation that may cause the disc to stick. The electronics then switch the tool off, preventing further rotation of the spindle (this reduces but does not fully prevent kickback). The switch must then be released and pressed again to restart the tool.



Restart Interlock:

When the switch of the tool is locked, the tool does not When the switch of the tool is locked, the tool uses not restant of its own accord when the power returns after a power cut or interruption. The switch must be released and then pressed again to restart the tool, this eliments the risk of unexpected starting, even when the switch is locked in the "on" position, e.g. after a power cut or when the tool is unplugged and then plugged in again.

Grinder Consumables Application



Premium line - High performance diamond cutting Disc (delivers high cutting speed and life)

Each disc meant for cutting specific base material:

- Concrete
- Masonry
- Natural stone & Synthetic stone

Product

Premium line - 5" Diamond cutting Disc







DC-D 125/C1 : Medium / soft concrete

DC-D 125/C2 : Hard concrete DC-D 125/M1 : Masonry

DC-D 125/M2: Natural stone & synthetic

stone



Classic line - Multi purpose diamond cutting Disc for cutting all base material like:

- Concrete
- Masonry
- Natural stone & Synthetic stone

DC-D Classic line -4",5",7",9" Diamond cutting Disc





DC-D 100/20/GP: for 4" angle grinder DC-D 125/22.2/GP: for 5" angle grinder DC-D 180/22.2/GP: for 7" angle grinder DC-D 230/22.2/GP: for 9" angle grinder



Classic line - Multi purpose diamond cup wheel for concrete grinding disc for grinding:

- Bulging of concrete columns and beams
- · Leveling of water slops
- · Industrial flooring
- · Concrete suturing joints

DG-CW classic line-4",5",7" Diamond Diamond cupwheel



DG-CW 100/20/SR: for 4" angle grinder DG-CW 125/22.2/SR: for 5" angle grinder DG-CW 180/22.2/SR: for 7" angle grinder



 Cutting Steel and other metals, Suitable for use with all angle grinder and cutters, wide range of cutting applications

AC-D metal cutting disc- 4",5",7", 9" Abrasive disc



- Inox disc: Extra thin cutting disc (1 to 1.8 mm thickness) - cutting sheet metal and stainless steel
- 2.5 mm thick cutting disc: cutting all metal including stainless steel



 High performance grinding disc for Steel and other metals, Suitable for use with all angle grinder and cutters, wide range of cutting applications

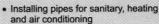
AG-D metal grinding disc- 4",5",7", 9" Abrasive disc



- 3.2 mm thick disc: comes only 4" diameter for both cutting and grinding application
- 6.4 mm thick disc: abrasive grinding disc

Diamond Drilling & Cutting Application





- Installing water supply and waste water pipes
- Making openings for cable trays
- Setting large-diameter anchors and reinforcing bars
- Installing railings and barriers

Product





Wet coring, making penetrations in concrete, for example, for:

- · Heating pipes and ventilation ducts
- Water supply or waste water pipes
- · Cables and cable trays
- Drilling anchor holes for: Large-diameter anchors and post
- installed rebars Installation of hand rails, railings or





- · Drilling penetrations, e.g. for plumbing/ heating pipes or ventilation ducts
- Drilling corner holes for wall sawing door and window openings
- Large-diameter holes, e.g. for shafts
- Stitch drilling, e.g. creating openings for cable travs
- Angular drilling & blind holes





- Penetrations up to 600 mm diameter in reinforced concrete and all types of stone
- Penetrations, Installation of pipes and cables, e.g. ventilation ducts
- Deep-hole coring, Anchors foundations / repair work
- Coring applications in highly reinforced concrete e.g. atomic power stations / bridges







- Cutting of materials such as reinforced concrete, granite curbstones, slabs, brick and masonry blocks
- Cutting metal beams, steel pipes and reinforcing bars
- Preliminary cuts for controlled demolition
- Cutting and extending openings for windows, doors and shafts



DCH-300

wet/dry vacuum cleaner



Removes waste material of all kinds in drilling, slitting, sanding, cutting or core drilling applications



-based wet:16-162
430
650
830x147x330
11
41
BI+
89 db
Anchor

Advantages

- Exceptionally user-friendly thanks to self-explanatory features and controls
- . Compact, lightweight unit for extremely easy handling
- . Easy to transport and set up
- . Two-speed gearing for optimum speed and torque
- · More reliable and lower repair costs
- The power control LED helps new users to achieve the optimum rate of drilling progress and maximum core bit life

Voltage (V):	230
Nominal Power (W):	2200
Nominal Current (A):	10.3
Drilling Diameter Range (mm):	25 - 202 (optimum: 52 - 162)
No. of gears:	Three
No load speed (rpm):	420/700/1570
Chuck Type:	BI+
Drill Stand:	DD-ST 160 SEL

Weight as per EPTA 01/2003 (kg) with SFL drill Stand:

- Exceptionally user-friendly thanks to self-explanatory design
- · Compact design and low weight for easy handling
- Easy to transport and set up
- 2.2 KW HPD Uni motor to increase performance on large diameters.
- · Optimum speeds for each application

16.3

9.4

 Less downtime: the service indicator reminds users in good time when servicing is due

Voltage (V):	230
Rated power (W):	2600
Rated current (A):	12.3
Drilling diameter range (mm):	25-400 (optimum: 52 - 250)
No. of gears:	Three
Speed under load (rpm):	211 / 435 / 890
Torque under load (Nm):	92 / 45 / 21
Chuck Type:	BL
Weight of motor unit as per EPTA 1/2003	3 (kg): 13.9
Drill Stand:	DD-HD 30
Weight of drill stand as per EPTA 1/2003	(kg): 20.1

- Optimized drive unit with higher torque for even higher performance
- LED Power Controls help inexperienced users achieve maximum efficiency
- Quick and easy to use: new keyless BL chuck and connection end system for fast bit changes
- Service indicator warns in good time when servicing is due for less down time and lower maintenance costs
- Voltage (V): 230 Rated power (W): 3500 Rated current (A): 16 52 - 500Drilling diameter range (mm): Gears: 10 gears, electronic BL Chuck Type: Weight of motor unit as per EPTA 1/2003 (kg): 14.4 **DD-HD 30** Drill Stand: Weight of drill stand as per EPTA 1/2003 (kg): 20 1
- Powerful high-frequency motor with 10 electronic speeds (E-gears)
- Iron Boost function for higher performance when drilling into rehars
- User-friendly Power Controls indicate optimum pressing force
- Range of core bits up to 600 mm diameter
- · Superior system performance for maximum profitability
- IP 55 design provides protection from water splashes

Disc diameter (mm):	305
Maximum cutting depth (mm):	120
Rated power (W):	2300
Electronic idling speed	
limitation (r.p.m.):	4900
Speed control Smart Power:	Smart Power
Dimensions, L x B x H (mm):	705 x 240 x 235

- Cuts can be made at up to twice the depth possible with conventional angle grinders
- . Greater safety: the tool is guided away from the operator's body
- · Oil-bath gearing optimized for cutting work
- · Overheating and overloading protection
- · Exact cutting depth adjustment with depth gauge (optional)
- Cutting discs and accessories perfectly matched to the tool

Voltage (V):	230
Power rating (W):	1200
Max. suction rating (l/sec.):	61
Container volume (I):	15
Dust capacity (kg):	25
Automatic filter cleaning (sec.):	every 15
Dust class:	L
Maximum load of to electric tool if fitted (W):	2400
Protection class:	IPX4, splash-proof
Built-in power outlet:	yes

- New filter concept allows full use of the container capacity and virtually dustless emptying
- . Use of a dust removal system extends the life of power tools
- · Easy to operate and ruggedly built to withstand hard use
- Large wheels for easy on-site transport
- Hilti airboost filter technology for constantly high suction performance. This new system cleans the filter automatically every 15 seconds by briefly reversing the air flow inside the vacuum cleaner.

Weight as per EPTA 1/2003 (kg):

Diamond Sawing system



Application

- Hydraulic Diamond Coring for diameter 52-600mm
- Versatile in use, underwater application
- · Used for heavy duty coring jobs
- Extra long deep coring also

Product

DD-750 hydraulic coring tool





- Cutouts and breaches for doors, windows, ducts and shafts
- Controlled demolition and renovation
- Wall sawing, wire sawing and large diameter hydraulic coring

D-LP 32 / DS TS32 hydraulic wall saw system:





- Cutting large openings of all kinds in thick structural components
- Technical demolition, cutting away foundations, chimneys, supports, etc.
- Sawing heavily-reinforced concrete, thick masonry, etc.
- Underwater applications, low-noise sawing

Hilti DS-WSS 30 diamond wire saw system:

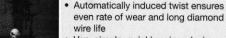




- Cutting thro gh extremely thick components
- Cutting openings without over cutting (doors, windows and shaf etc.)
- Small structural modifications (cutting through columns and beams)
- Sawing with a minimum of noise
- Underwater applications (DS WS10)

Hilti DS-WS 10 Hydraulic / DS-WS 10-E Electric wire saw system





- Very simple, quickly rigged wire storage system
- Saws through components with a thickness of 4 meters in one operation.
- The quickly adjustable, high-grade pivoting wire guide pulleys ensure extremely quiet, precise running.

DS-WS 15E diamond wire saw system





Drilling diameter range (mm): 52-600 Power output Max. (KW): Chuck: DD-BU

Power unit:

Either Hydraulic power pack D-LP 15 or D-LP 32 can be used

Advantages

- · Hydraulic coring machine proves to have immense power for any kind of Joh
- Hydraulic drilling head is separate then the drive unit so drilling can be done at any critical job site condition.
- Heavy duty coring resulting from heavy reinforcement, extra long depth of drilling, heavy diameters can be done at with

Power unit: Rated power input at Nominal power: Nominal voltage:

Fuse rating min./max.: Max. operating pressure: Oil flow rate:

Saw head: Hilti motor: Max. operating pressure: Max, oil flow rate: Saw blade diameter: Max. cutting depth:

D-LP 32 63 A: 43 kW 32 kW 400V~50Hz 3P+PE 32 A / 63 A 200 bar 40-100 l/min.

> **DS TS32** 54 cm3 200 bar 100 l/min. Ø 800-1600 mm 73 cm

> > 43 KM

- Rugged and durable saw system based on well-proven technology
- Tested and certified for maximum safety
- Outstanding sawing performance with a 63 amp supply thanks to automatic, electronically-controlled advance
- Becomes a universal system for heavy concrete cutting, coring and demolition applications when used in conjunction with the
- DS-WSS30 wire saw kit and DD-750HY hydraulic coring rig
- Traction Control (TC) calculates the optimal advance speed. making it possible to take full advantage of the available power.

Rated power input at 63 A: Nominal power output: Nominal voltage: Fuse rating, min.: Fuse rating, max .: Max. operating pressure: Oil flow rate: Drive wheel dia.: Guide pulley dia .: Speed: Cutting speed:

Wire store capacity:

Diamond wire length:

32 kW 400 V ~ 50 Hz 3 P+PE 32 A 63 A 210 bar 30-100 l/min. 500 mm 200 mm approx. 800 r.p.m. approx. 20 m/sec. 8 m diamond wire 10-30 m

DS WS10-E 400V

400 V~ / 50/60 Hz

4.5 m / 7.3 m

32 A

IP 65

11 kW

0 - 24 m/s

- · Quick, modular adaptation of the powerful Hilti D-LP32 (LP30) / DS-TS32 (TS30) wall saw The drive unit does not have to be aligned with the cutting line, i.e. it can be set up in the most convenient position.
- Very smooth and easy starting using the infinitely adjustable electric remote control unit Automatic sawing advance control
- · Integrated wire store system

Electric version Electric supply Fuse rating Motor protection class Wire storage capacity / with extension Rated power input Wire speed

Hydraulic version **DS WS10** Hydraulic unit Hilti D-LP15 / D-LP32 Oil flow rate 36 - 50 l/min Oil pressure max. 210 bar Wire storage capacity / with extension 4.5 m / 7.3 m 0 - 27 m/s Wire speed

- Automatic wire tensioning for ease of operation. Quick system response maintains even tension at all times while cutting is in progress.
- Fewer wire breakages and longer wire life thanks to pneumatic tension buffering.
- · Undesired effects such as cutting too slowly at less than peak efficiency or, at the other extreme, stalling the saw,
- Rugged and durable saw system with well-proven components
- Tested and certified to meet safety requirements
- Quickly set up and made ready for use Pulleys with guide cage to prevent wire derailment
- High cutting performance
- Pneumatically-controlled advance

DS-WS 15E drive unit

Drive wheels 2 × 280 mm dia. Nominal power P1 = 2×7.5 kW continuous power rating (= 15 kW) Wire speed Infinitely adjustable, 0 - 27 m/s Wire storage Max. 9.2 m Protection class IP 65 (protection against water jets) Length of cable between system units

DS-WS15E control unit Nominal voltage 400 V ~ 50/60Hz 3P+N+PE oder 3P+PE Nominal current 25 amps

Min. fuse rating 16 amps Protection class IP 44 (protection against splashing water) Generator operation Min. 40 kVA

- · Automatically induced twist ensures even rate of wear and long diamond wire life
- Pneumatic control for smooth saw advance easy on the wire and, once set the Hilti DS-WS 15 saws automatically
- Very simple, quickly rigged wire storage system
- Saws through components with a thickness of 4 meters in one operation.
- The quickly adjustable, high-grade pivoting wire guide pulleys ensure extremely quiet, precise running.

Screw Fastening



Application

- Fixing of sheet metal to sheet metal/wood/steel members
- Fibre-cement sheets to steel and wood structures
- Composite / sandwich panels to steel structures
- Excellent for screw fastinings requiring torque setting
- Depth gage for controlled pressure on EPDM washer to achieve proper fixing

Technical Data

ST 1800

Voltage: Nominal power: Nominal current: No-load speed: Torque range: Weight: Chuck type: 230V 600W 2.8 A on 230 V 0-1900 rp.m 1-22 Nm 1.8 kg

1.8 kg ¼" hexagon socket with ball-notch retention



- Construction screws for metal decking application
- Fixing of sheet metal to purlins (steel members)
- Corrosion resistant and water proof fixing
- Self drilling and tapping in metal base

S-MD 03 K/S & washer

- Full threaded shank for higher fixibility in fixing (various lengths available)
- · Drill point for self drilling up to 5.5mm
- Kaitex coating for excellent resistance against corrosion (1000 hours of salt spray test), SS version also available
- Stainless steel bonded EPDM washer for a lasting water-tight sealing with maximum resistance against corrosion



- Metal connection to metal studs of thickness 0.7 to max. 2.5 mm
- · Fastning wire lathing
- Wafer head for higher pull over values

S-DD 03 Z

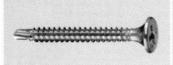
- Thread version ISO 1478/DIN 7970
- · Nominal screw diameter 4.2 mm
- Wafer head diameter 10.5 mm
- · Single lead fine thread
- Optimal system ST-1800 screwgun and S-BH450m with PH2 Bit



- Drywall stud to stud fixing application
- Fastening sheet steel from 0.7 mm to studs up to max. 2.0 mm thick

S-DD 02 Z

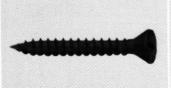
- Thread version ISO 1478/DIN7970
- Nominal screw diameter 3.9mm
- · Pan head diameter 7.5mm
- Single lead fine thread
- Optimal system ST-1800 screwgun and S-BH450m with PH2 Bit



 Fastening drywall panels to metal studs 0.88 mm to max. 2.25 mm thick or to timber frames

S-DD 01

- · Similar to DIN 18 182 part 2, form TB
- Nominal screw diameter: 3.5 mm
- Bugle-head diameter: 8 mm
- Single-lead fine thread with drill point
- Optimal system: ST-1800 screwgun and S-BH450m with PH2 Bit

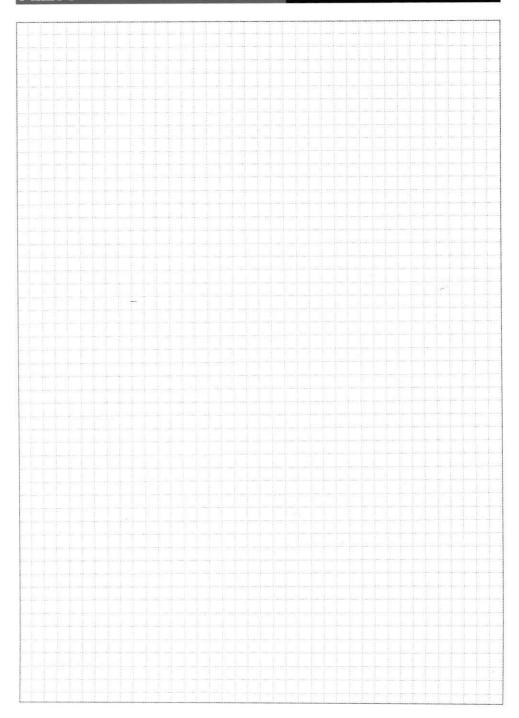


 Fastening drywall panels to metal studs max. 0.88 mm thick or to timber frames

S-DS 01

- Similar to DIN 18 82 part 2, form TN
 Nominal screw diameter: 3.5 mm or 4.0 mm
- Bugle-head diameter: 8 mm double lead fine thread or single-lead coarse thread
- Optimal system: ST-1800 screwgun and S-BH450m with PH2 Bit

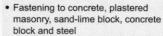




Direct Fastening

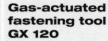


Application



- Versatile fastening system for the drywall installation trade - no battery to charge.
- Column starter fixing wooden planks to concrete
- Mesh/Membrane fixing on concrete/ shortcrete/ masonry/ steel
- Conduiting/Junction box fixing on concrete/ masonry / steel
- Fixing of GI sheet in spandrel area

Product





Fastening on high strength steel

- Fastening on coated or painted steel to avoid corrosion and through penetration
- Grating Fixing
- · Electrical and instrumentation fixing

Powderactuated tool DX 351-BTG





- · Chemical and oil industries
- · Offshore and shipbuilding
- Industrial construction
- Warehouses
- · Steel industry
- · Power plants

Powderactuated tool DX 460-GR





 Fastening grating in corrosive environments like marine, offshore, petrochemical, power plants, etc.

Hilti X-BT stud and X-FCM-R disc





Power (max.)
Fastener intake
Fastener length range
Weight
Automatic piston return
Noise (powder) level : LWA, 1s
Dimension(LXWXH)

Advantages

- · High fastening rate for high productivity and maximum efficiency
- Magazine holds 40 nails: very fast when used for repetitive fastening
- · No battery to charge so no need for a charger
- Wide range of nails: the right nails for fastening to a wide variety of materials
- World's first tool of its kind with a gas gauge to help avoid run-ning out of gas unexpectedly
- · Drives 750 fasteners with a single gas can

Cartridge Type Power (max.) Fastener intake Fastener length range Weight Automatic piston return Noise (powder) level : LWA, 1s Dimension(LXWXH) .27 calibre short 85J

100J

40 nails

3.9 Kg

Yes

14-39 mm

105 db (A)

431 x 134 x 392 mm

Threaded intake 12-21 mm 2.36 Kg Yes 109 db (A)

431 x 56 x 164 mm

- A quick, easy and reliable fastening solution that eliminates the need for subsequent steel finishing
- · Ideal for use on high-strength coated steel 8 mm or thicker
- Requires no external power source letting you work very efficiently
- Resistant to stress corrosion cracking and hydrogen embrittlement

 Cartridge Type
 6.8/11 M10

 Cartidge color/level
 Black, Red/5, Yellow

 Fastener types
 X-CRM8, X-GR RU

 Dimensions (LxWxH)
 18.8 x 2.8 x 7.1 in

 Weight
 8.5 lb

 Piston type
 X-460-P8

 Power (max.)
 325 J

- Fast, economical and convenient: up to 120 grating fastenings per hour by one user
- Total mobility and complete independence from electrical power supplies (no cables)
- Grating discs available Duplex coated, (hot-dipped galvanized) and A4 stainless steel for any situation

- · Stainless steel disc
- Locking tabs on the disc help prevent loosening or spinning
- Non-slip disc surface
- No rework of base steel: steel corrosion protection remain intact.
 Suitable for use on most standard and high strength
- Suitable for use on most standard and night strength construction steels.
- Corrosion resistance makes it suitable for most marine, offshore and petrochemical and power plant applications
- · Fast & ideal for fastening directly to coated steel

Hilti Anchor Fastening Technology

With more than 25 years of experience in anchoring technology and extensive research in development of new fastening systems for various applications, Hilti offers you **safe and economical solutions** for your fastening requirements.

Through out the world, Hilti is known as an anchor specialist and is trusted to bring continuous innovation in anchor fastening technology.

Hilti Anchor Advantages:



International brand with years of experience and reputation in fastening technology

Customer's benefit: High level of assurance and reliability

Huge investment in R&D resulting into the most technologically advanced anchors

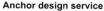
Customer's benefit: Best anchors making fixings highly safe and long lasting

Direct sales and technical support by highly trained Hilti Engineers Customer's benefit: Correct advice on the selection of anchors



Various international approvals & test certificates

Customer's benefit: Validation of the anchor's performance to improve confidence on the fixing



Customer's benefit: Customized solution for any type of fixing problem. Saves money by avoiding over-design & also prevents failure by avoiding under-design of Anchors

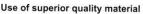


Site demonstration & training to the installers

Customer's benefit: Prevents failure due to improper fixing & improves productivity



Availability of a variety of anchor versions and dimensions
Customer's benefit: Convenient since ready solution available for any type of fixing



Customer's benefit: Higher load bearing capacity, better corrosion resistance and long life achieved from even a smaller size anchor or less number of fixings. Also, the coating on Hilti anchors is environment friendly (RoHS compliance)

Anchor stock available in abundance at various locations in India Customer's benefit: Meets your demand even at short notices

Along with the anchor, Hilti provides compatible drill machines, drillbits, setting tools, etc Customer's benefit: Complete solution is just a phone call away



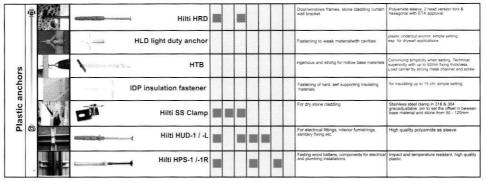
Anchor Selection Chart

			550			В	ase	Ma	teri	al		Application	Special Features
Working principle	Load indication			R	Concrete	Concrete	Hard natural	Solid Brick	Cavity block	Aerated Concrete	Drywall Panel		
9	Î			Hilti HVU with HAS-E, HIS-N rods								Insert plates on columns, beams, machinery fixing	Flexible foil capsule, No stresses in base material, small edge distance & small anchor spacing, fire tested, suitable for dynamic, load ETAG approval SERC tested
	١	1	==	Hilti RE 500 SD with rebar, HIT-V rods								Installation of crash barriers, equipment fixing, centrifugal pumps, turbines.	Approved for cracked concrete, seismic condition (performance category C1) and diamond drilled rebar installation as per TR02 and TR029
chors	ı		=	Hilti RE 500 h rebar, HAS-E / HIT-V, HIS rods								Rebar / anchor for structural connections till 40 diameter/M 80, under water fixings, diemond cored fixings, deeper embedment depth fixings, jacketing applications.	Tested for creep behavior, large diameter fixings, rebar corrosion resistance and rock anchoring applications, approved for automol cleaning with hollow drill bit for rebar applications.
Chemical anchors	ı	T.		Hilti HY 200 R with rebar, HIT-Z, HIT-V, HIS Rods								Rebar / anchor fixing for structural connections till 32 diameter/M 30, cracked concrete applications.	Approved for automatic clearing with hollow obtand HT-2 rods, high loading capping, excellent handling and fast curing.
Chemi	۱	A		Hilti HY 110 th rebar, HAS-E/HIT-V, HIS Rods								Rebar/ Anchor fixing for structural connections till 25diameter/ M24, insert plate fixings	Fast Curing, No stresses in base material, small edge & spacing
	۱			Hilti HY 70 HAS-E/HIT-V, HIS Rods								fixing anchor in solid brick, hollow brick, elevator shaft bracket fixing.	diBt tested for applications in masonry, fire tested, socotec corrosion tested.
	â	T.	==	Hilti HIT-MM with rebar, HIT-V rods								Fixing rebar or anchor for non. Critical applications like lintel fixings, till 12 diameter/M 12	Tested for small diameter in uncracked concrete, vinyl ester.
-	â)	H		Hilti HDA								Anchor fastening for high loads e.g. in steel construction and plant construction	Suitable for shock, fatigue, seismic loads, hi shear loads, self undercutting, removable anchor, fire tested, ETAG approval high load capacity & approval for dynamic load
				HILTI HSL - 3 / 3B								Fastening heavy loads e.g. From columns, high racks, Machines	Different head versions available, force- controlled stresses, fire tested, ETAG appro suitable for shark fatigue & seismic loads
			н	Iti HSC-A(R)/ HSC-I(R)								Safety relevant fastening at Facades and ceilings where Short embedment depth is required	Shallow embedment depth, self undercut anchor fire tested, small edge distance, and spacing suitable for shark loads fire tested
	ı	1/2	-	Hilti HST/-R/-HCR								Fastening through in place parts e.g. angles, tracks, channels wooden beams, etc.	Cold formed, stainless steel 3 way stresses sleeve fire tested. ETAC approved, quick an simple setting operation, setting mark, safety wedge for centain follow up expansion & suitable for shark loads, fire tested
		犯	*********	HUS 3 screw anchor								Fastening base plates, railings and hand railings, structural steel and temporary applications	Screw driven straight into base material, higher productivity, approval for reusability fresh concrete, approval for adjustability
chor		H		Hilti HSA/-R								Curtain wall applications hand rail fixings, industrial application load fixing in chimny & cooling tower	Cold formed, fire tested, ETAG approved, th setting depths, setting mark, extremely ducti steel for high bending capacity
Metal anchors		Y		Hilti HSV (BW)								Fasting through in place parts hand nail fixing guide nail fixing, HVAC, AHUS	
Σ		9)	0	Hilti HLC								Temporary fastenings in concrete (e.g. form work), fastening in base material of low density, cable tray finxing	Short setting and removing operation, go loads in green concrete, bridging of gaps
			4	Hilti HKD / -SR								Fastening with threaded rods for pipe suspension, air ducts, suspended ceilings	Visual verification of full stresses, small set depth
		1		Hilti HKV								Fastening with threaded rods for pipe suspension, air ducts, suspended ceilings	Visual verification of full stresses, small set depth
		L		HUS6/HUS-S 6 screw anchor								Fastening light channels, brackets, interior paneling or cladding, door and window frames	Screw driven straight into base material, small bit diameter, matched system of screw anchor and screw driver
	6	Y		HA8 ring/ hook anchor								Redundant fastening only	For suspended ceilings and other items from concrete ceilings
		W.	-	DBZ wedge anchor								Redundant fastening only	Suspension from concrete cellings e.g. using a straps, punched band, Nonius system hanger
		- ST		HHD-S cavity anchor								Fastening battens, channels panels	metal undercut anchor with metric screw, for drywall, metal to metal fastening, relial undercut

Preferred choice



Anchor Selection Chart



Preferred choice

Please call Hilti technical person for further details.

Anchor type		В	ase	ma	teria	al		Advantages	Application		
	Cracked concrete	Uncracked concrete	Lightweight concrete	Aerated concrete	Solid brick masonry	Hollow brick masonry	Pre-stressed concrete hollow deck				

Medium & Light Duty Anchor

HSP/HFPdrywall plug						for light fastenings on drywall panel self- cutting, quick setting	Fastenings in dry walls
HT metal frame anchor	•	•	•	•	•	Fastening door and window frames, no risk of distortion or forces of constrain, expansion cone can not be lost	Fastening door and window frames
IDMS / IDMR insulation fastener	•	•		•	•	for insulating material upto 15cm thick, a non-flammable,metal fastener, IDMS-T /IDMR - for non self-supporting insulation material	Fastening of soft and hard, self supporting insulating materials and non self supporting insulation materials

Chemical Anchors

HVZ adhesive anchor	No expansion pressure, small edge distances and spacing, A strong and flexible foil capsule
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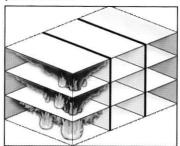
^{• =} very suitable • = may be suitable per application • = technical report

¹⁾ redundant fastening

Passive Firestop Systems

If a fire breaks out, it should be contained in a so-called fire compartment by passive firestop systems. To achieve this, each and every opening or penetration in a fire wall or floor must be sealed against the escape of fire and smoke. Materials used for this purpose expands during fire and closes any gaps which might result from melted components. A properly installed fire seal can prevent fire from spreading to a neighboring room for a time of one to four hours. As a result, escape routes are kept safe and the work of firefighters supported. Active fire prevention uses sprinkler systems, fire extinguishers fire services, which comes into action when a fire is actually fought.

Compartmentation

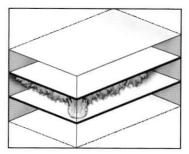


Vertical compartmentation

Fire can spread vertically via openings in floors

Why use Hilti firestop systems?

Firestop representatives from Hilti provide professional advice about firestop systems for building owners, specifiers and installers. They work closly with customers from the building planning stage to the firestop installation phase to select ideal solutions or applications from Hilti firestop programme. A full range of systems can be supplied by Hilti to seal joints, cable penetrations and pipe openings in fire walls and floors.



Horizontal compartmentation

Fire can spread horizontally via openings in walls

Each product has been optimised for the diverse requirements in buildings, installer benefit from the easy use of hilti firestop systems. They themselves can install the planned and necessary firestop systems, while resting assured that Hilti systems have been tested worldwide and approved in accordance with national regulations.

National Building Code of India 2005

Revised Building Codes of India Firestop Guidelines (excerpts from part 4: Firestop Lifesafety)

Clause C-9 Compartmentation

The building shall be suitably compartmentalized so that the fire and smoke remain confined to the area where the fire incident has occurred and does not spread to the other part of the building.

Annex Clause C1.17 Fire Rated Ducts

Where the duct passes through fire walls, the opening around the duct shall be sealed with fire resisting materials having the fire resistant rating of the compartment.

Where the duct crosses the compartment which is fire rated, the duct shall be fire rated for same fire rating. Further, depending on the services passing around ductwork, which may be affected in case of fire temperature risino. the shall be insulated.

Annex Clause C1.12a Cable Ducts

The electric distribution cables / wiring shall be laid in a separate duct. The duct shall be sealed at every floor with non-combustible materials having the same fire resistance as the fire rating of the duct.

Clause 3.4.8.4 Fire Stopping

Every vertical opening between the floors of a building shall be suitable enclosed or protected as necessary to provide reasonable safety to the occupants while using the means of egress by preventing spread of fire, smoke or fumes through vertical openings from floor to floor, thus allowing occupants to complete their safe use of the means of egress.

Clause 3.4.8.3 Fire Stopping

Openings in walls or floors which are provided for the passage of all building services like cables, electrical wiring and telephone cables etc., shall be protected by enclosures in the form of ducts / shafts with a fire resistance of not less than 2 hours.

Annex Clause C1.9 Fire Stopping Service Ducts & Shafts

Service ducts and shafts shall be enclosed by walls of 2 hour and doors of 1 hour rating. All such ducts / shafts shall be properly sealed and fire stopped at all floors.

Annex Clause C1.16a Transformer Susbstation

The uotside walls, ceiling, floor, opening including door and windows to the transformer substation area shall be provided with fire resistance of 2 hours rating.

Annex Clause C1.16a Transformer Room

When housed inside the building the transformer shall be of dry type and shall be compartmentised from the other portion of the premisses by walls / doors / cut-outs having fire a minimum fire resistance of 4 hours.

Annex Clause C1.12 Fire Stopping Cable Ducts Penetrations

The electric distribution cables / wiring shall be laid in a separate duct. The duct shall be sealed at every floor with non-combustible materials having the same fire resistance as the fire rating of the cable duct.

Firestop & Foam system



Application

- · Multiple penetrations
- Single cable, cable bunches and cable trays
- Insulated and non-insulated metal pipes

Product

CP 620 Expanding Firestop Foam





- Large multiple penetrations
- Single cable, cable bunches and cable tray
- HVAC penetrations
- · Metal pipes





- · Cable & cable tray penetrations
- · Duct work
- Busway
- Metal pipe







- Fire sealing of electrical shafts with cable trays
- Cable/Cable bundles through floor cut-out

CFS-M BAS Firestop Mortar





- · Rigid or low movement joints
- Metal pipes up to 200 mm (UL std)
- Annular space around HVAC ducts

CP 606 Flexible Firestop Sealant





- Expansion joints and connection joints
- Metal pipe penetration

CP 601S Elastic Firestop Sealant





Technical Data	Advantages	Approvals	
Color: Storage/transport temperature: Curing: - Non-tacky after - Ready to cut after Acoustic insulation Acoustic insulation (at 25°C and stored in a dry place) Red +5°C to +25°C Approx. 35° Approx. 1-2 min (air-borne sound):59db, as per DIN 4109 9 months	Wide application range Easy to use in poorly accessible openings Correct installation through fast expansion in the opening Paintable Time saving through few working steps No wastage Age tested up to 30 years	BS, DIN, UL, FM	
Chemical basis-CP 606: Color: Curing rate: CP 670 content: Curing rate: approximately 3mm in 3 days 6 kg approximately 1mm in 1 day can be applied by paint brush Dry film thickness: Shelf life: (store in a dry place)	Repnedraple system Simple applications Especially sultable for drywall penetrations Very good acoustic insulation Age tested up to 30 years	BS, FM, DIN, IAB	
(at 23°C and 30% relative humidity) Mix ratio: 3:1 (mortar to water) Color: grey Form removal (depending on consistency):min 12 hours (walls) Density of hardened mortar: 0.82 g/cm3 Compressive strength (after 28 days at 23°C): 2.9 N/mm2 Shelf-life after production: 12 months (at 23°C in a dry place)	Simple applications by trowel The mortar can be mixed to a stiff consistency, but form work may be required for large penetrations Paintable Age tested upto 30 years	BS, DIN, UL, FM	
(at 23oC and 55% relative humidity) Mix Ratio: 2½:1 (mortar to water by volume) Contents of bag (quantity) 20 kg Color: Grey Yield per bag: Up to 23 L Form Removal: Min. 14 hours Density of cured mortar: Approx.0.9 g/cm3 Compressive Strength: >3 N/mm2 Shelf life after production: 12 Months	thickness Easy to use; No special tools required contains no asbestos, phenol or halogen constituents		
(at 23°C and 50% relative air humidity) Skin-forming time: Curing rate: volume shrinkage: Movement capability: Shelf-life after production: 24 months (at 20°C in a dry place)	Paintable Fast and easy dispensing Smoke, gas and water resistant Excellent acoustic insulation Age tested up to 30 years	BS, DIN, UL, FM	
(at 23°C and 50% relative air humidity) Skin-forming time: approx. 15 min. Curing rate: approx. 2 mm in 3 days Volume shrinkage: 0 - 5% Movement capability: ±25% Shelf-life after production: 12 months (at 20°C in a dry place)	Excellent movement capability Fast and easy dispensing Cost effective solutions Smoke, gas and water tight Good adhesion without use of a primer UV stable Age tested up to 30 years	BS, DIN, UL, FM	

Product

CF-I 65

Firestop & Foam system



Application

Insulation of

- Joint around Door & window frames
- Shutter boxes
- Refrigeration pipes & systems
- Heating pipes
- Wooden floors
- Insulation sheets
- Drywall joints and gaps
- Air-conditioning/Ventilation systems
- Ventilation ducts



Filling Foam

Insulating and



- Stair joints
- Holes left by concrete forms
- Pre-cast components

CF 116-45 Filling foam





- PVC/ Plastic Pipe Penetration
- Insulated Pipe Penetration
- · Cable Bundle Penetration

FS-ONE Intumescent Firestop Sealant

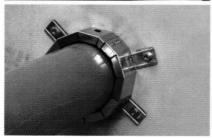




Sealing of Combustible pipe penetrations from 2" to 6" in diameter

Firestop Wrap CP 648-E





Sealing of Combustible pipe penetrations from 6" to 10" in diameter

CP 644 Firestop Collar





Technical Data	Advantages	Approvals
Chemical basis: 1C Polyurethane foam Contents of foam(quantity filled): 750 ml Up to 65 L Curing: non-tacky after: approx. 9 min approx. 20 min Load bearing after approx. 20 min approx. 3-5 hrs. Temperature resistance of cured foam: 40°C to 90°C Storage and transportation temperature: Building Materials Class (as per DIN 4102): Shelf life after production 1C Polyurethane foam 450 min 450	Contains no CFC High foam yield up to 65 L Low expansion of foam Contains no formaldehyde and PCB Physiologically harmless class-according to DIN 4102 B2 Bullding material class according to DIN 4102 Acoustic insulation of joints; IFT tested as per DIN 52110 "Stop & Go" possible to interrupt work for long as desired Regulation of quantity dispensed-bringing over various gap widths Point of tool made of hardened steel-longer life Precision plastic valve-functionality safeguarded by greatly reduced pressure loss=> long shelf life/constant product quality Does not age or rot	
at 23°C and 55% relative air humidity Chemical basis: Single-component polyurethane foam Contents of can (quantity filled): 750 ml Foam yield (freely foamed): up to 45 liters Minimum temperature Can: +5°C Substrate/ambient: +5°C Substrate/ambient: 10-12 min. Ready to cut/plaster over after: approx. 30 min. Temperature resistance of cured foam: -30°C to-80°C Building material class DIN 4102: B 2 Shelf life (at +200C, protect from frost): 12 months	Contains no CFC High yield foam Easy to apply using finger adaptor or grip system Contains no formaldehyde or PCB No substances harmful to health to health are released after complete curing, neutral odor Does not rot or deteriorate with age Reusable system components	
(at 23°C and 50% relative air humidity) Color: Anthracite Skin-forming time: Approx. 15 min. Curing rate: 5 mm in 3 days Shelf-life after production: 12 months (at 20°C in a dry place)	Easy to work Smoke and gas tight Paintable Expansion pressure up to 7 bar Expansion pressure up to 7 bar	DIN, UL, FM
Base Material: Expansion temperature: Intumescent: Acoustic Insulation Temperature resistance range Storage and transportation temperature: LEED VOC: Concrete, Drywall, Masonry approx. 210°C Yes -20°C to 80°C -5°C to 40°C 3.1 g/l	Quick and easy closure without need for tools Easy to cut Fast Installation; Zero installation cost Maximum flexibility	UL 1479, ASTM-E 814
Base Material: Concrete, Drywall, Masonry Expansion temperature: approx. 210°C Intumescent: Yes Acoustic Insulation Yes Temperature resistance range -40°C to 60°C Storage and transportation temperature: -5°C to 40°C	Ready to use collar No construction required Fast Installation; Zero installation cost Maximum flexibility Adjustable fastening hooks	UL 1479, ASTM-E 814

Firestop & Foam system



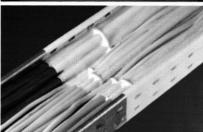
Application

- · Power plants
- · Telecommunication complexes
- · Cement plants
- · Industrial plants
- · Petrochemical plants
- · Paper mills

Product

CP 678 Cable Coating





- · Power plants
- · Telecommunication complexes
- · Industrial plants
- Petrochemical plants
- · Marine, oil and gas plants
- · Factories and production facilities







- Edge -of slab/curtain wall perimeter joints
- Expansion joins

CFS-SP WB Firestop Joint Spray







Technical Data	Advantages	Approvals	
Color: White Pail content: 20 kg Application temperature: +5°C to +40°C Shelf life (stored dry and free from frost): Density uncured: approx. 1,30 g/cm3 Consistency: approx. 1,30 g/cm3 can be applied by paint brush, roller or sprayed Full cure: 24 hours	Simple application using a paint brush, or airless spray gun Suitable for dry and indoor application Tested as per IEC 332 Part 3 Standard for reduced spread of flame & Tested as per FM class 3971	FM, IEC, IBMB	
Color: White Pail content: 20 kg Application temperature: +5°C to +40°C Shelf life (stored dry and free from frost): 2 pensity uncured: 2 approx. 1.35 g/cm3 Consistency: 2 can be applied by paint brush, roller or sprayed Touch dry: 6 hours Full cure: 24 hours As per IEC 332: 2 Dft of coating = 1mm; For flat surface - consumption = 1.7 Kg/m2 For cable bundles - consumption = 2.5 kg/m2	Simple application using a paint brush, or airless spray gun Suitable for outdoor application High yield, economical No derating effect on cables	FM, IEC, IBMB	
(at 23°C and 50% relative air humidity) Chemical basies: latex based dispersion Skin-forming time: 32-45 mins Curing time: 48 hrs Ph-value Approx. 7.8 Movement capability: up to 50% Shelf-life after production: 12 months	Maximum flexibility, exceeds 500 cycle requirement Halogen free, solvent free, asbestos free Water base, easy to clean If installed with an airless sprayer saves time and money Sprayable or may be applied by brush	UL, BS, FM	



Hilti Products Tested for

At least 13 other types of tests have been carried out covering properties such as water tightness, chemical compatability, explosion resistance, radiation resistance, mould and mildew resistance, sound insulation, electrical resistance and rodent resistance etc.

CP 620	Fire	Smoke	Air-seal	Acoustic	Age Tested
HMWB System	m Fire	Smoke	Air-seal	Acoustic	Age Tested
CP 636	Fire	Smoke	Air-seal	@ Acoustic	Age Tested
CP 606	Fire	Smoke	Air-seal	Acoustic	Age Tested
CP 601 S	Fire	Smoke	Air-seal	Acoustic	Age Tested
FS-ONE	Fire	Smoke	Air-seal	Acoustic	Age Tested
CFS-SP WB	Fire	Smoke	Air-seal	@ Acoustic	Age Tested

Products Appro	ovals and Testi	ng				
CP 620	c Un us	British Standard B S 476-20	FM)		pr EN 1366-3	
HMWB System		B S 476-20	Specification Tested		pr EN 1366-3	IAB
CP 636	cÜL	B S 476-20	Specification Tested		pr EN 1366-3	
CP 601 S	c Unus	B S 476-20	FM APPROVED		pr EN 1366-3	
CP 606	c UL) us	British Standard B S 476-20	FM APPROVED		pr EN 1366-3	
FS-ONE	culus		FM APPROVED		pr EN 1366-3	
CP 678	IEC 332		FM APPROVED		IBMB	
CP 679A	IEC 332		FM APPROVED		IBMB	
CFS-SP WB	c UL us	British Standard B S 476-20	€M	LPOB		

Special Attributes

- Age tested
- Third party accreditation
- Tested for Acoustic insulation
- Tested against the growth of Mold and Mildew
- Low VOC values and ideal for green Buildings
- Tested for Water tightness
- Tested for Zone 4 seismic stability test





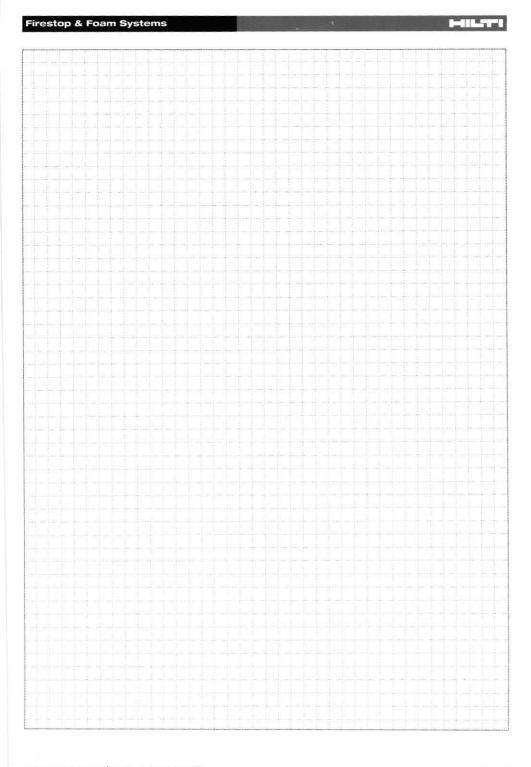


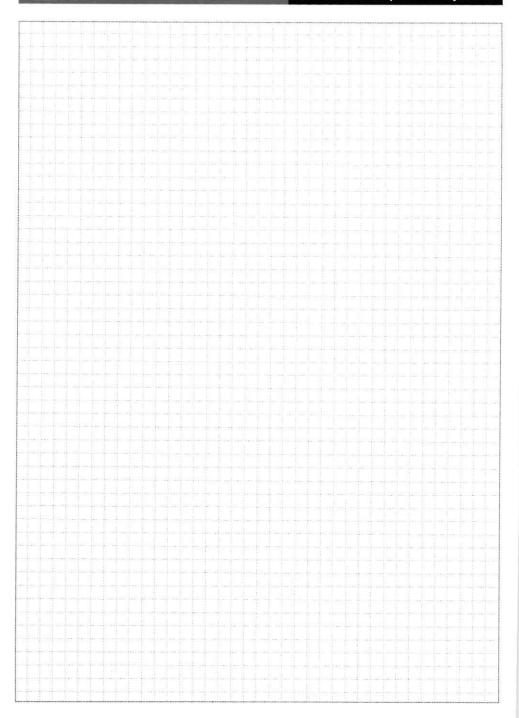












Hilti Service Centre

Head Office & Service Centre:

F-90/4, Okhla Industrial Area, Phase I, New Delhi - 110 020

Gringiadus House No 492, Ward No 38, Village Dhoti, Opp. Tata Commercial Automobiles P Ltd. Thana, Vindhyanagar, Distt - Singrauli (MP) - 486885.

Toll free no: 1800-102-6400 | Fax: 011-40646599 E-mail: customercare@hilti.com | www.hilti.in



Branch Offices & Service Centres:

1 (5) 4 (8) 사용 (5) 전 (5) (5) (5) (5) (5) (5) (5	
Place	Fax Number
Ahmedabad Shop No 1 to 5, Amrapali Shopping Mall, 200 ft. Sardar Patel Ring Road, Ambli-Bopal Cross Road, Ahmedabad - 380058.	+91 - 2717 - 233612
Bangalore NO. 22/163-1, 9th Mainroad, 3rd Block, Jayanagar, Near Ramakrishna Nursing Home, Bangalore - 560011.	+91 - 80 - 26531115
Bhubaneshwar Kalyani Plaza Block - A Ground Floor, 283P, Shop # 7-12 Patra Para, Bhubaneshwar, Orissa- 751019.	+91 - 674 - 2472703
Central Warehouse Cío Schenker India Pvt. Ltd., Opposite Gajanan Pertrol Pump, Dapode Road, IND. Corp. warehousing complex, Bldg 205-210, Mankoli Naka, Bhiwandi, Thane - 421 302	
Chandigarh SCO no – 08, 1st Floor, Industrial Area, Phase 2, Chandigarh-160002.	+91 - 172 - 5074613
Chennai TS-79, Guindy Ind. Estate, Chennai - 600032	+91 - 44 - 22254688
Cochin 'Sarayu' House No. 50/963 Manimala Road, Edapally Kochi-682024	+91 - 0484 - 2335543
Delhi F – 90/4, Okhla Industrial Area Phase I, New Delhi - 110020	+91 - 011 - 40646599
Gurgaon 543-C, Pace City II Sector 37, Gurgaon - 122002	+91 - 124 - 4272533
Hyderabad 12 & 13, M D R Arcade, Opp. Ashish Gardens, Main Road, Bowenpally, Secunderabad Hyderabad - 500011	+91 - 40 - 27952674
<mark>Haridwar</mark> Piot no 368i/213, Opposite to Saini Ashram, Below Godrej interio Haridwar-Jwalapur road, Haridwar -249407	
Indore M6, New Siyarganj Market, Mal Godown Road, Near Railway Station, Indore - 452007, India	+91 - 731 - 2430711
<mark>Jaipur</mark> 26. Hans Marg, Near Riddhi Siddhi, Gopalpura Byepass - Mansarovar Link RoadJaipur - 302018 (Rajasthan)	+91 - 141 - 2761212
Jammu 824-A, Last Morh, Gandhi Nagar, Jammu, Jammu Kashmir - 180004 Kochi	+91 - 191 - 2430153
Kolkata DA-77. Sector-1, Salt Lake City, Kolkata, W. Bengal - 700064	+91 - 33 - 23349191
Eucknow B-95, VibhutiKhand, Gomti Nagar, Lucknow U.P-226010	+91 - 522 - 4006143
Mumbai-Vashi Plot no. 11. Sector - 24 (Turbhe). Sion-Panvel Expressway, Vashi, Opp Sanpada Station, New Mumbai - 400705	+91 - 22 - 27831355
Mumbai-Vikhroli "Karma Stambh" Ground Floor, Opp. To Kailash Commercial Complex MTNL Exchange, Nr. Home Town, LBS Marg, Vikhroli (w), Mumbai - 400083	+91 - 22 - 25794637
Nagpur Mehta Complex, Plot No6, MIDS T-Point, Amravati Road, Wadi Nagpur - 440023	+91 - 7104 - 288520
Noida C-248, SEC-63 Noida (Uttar Pradesh) - 201301, India	+91 - 011 - 2335543
Pune 287/2, Ground Floor, Prode Purple Coronett, Opp. Big Bazar, Baner Road, Pune - 411 045	+91 - 20 - 27293595
26/12, Ground Floor, Floor Valled Controls, Capture Raipur C - 1/7, New Rajendra Nagar, Ring Road No-1 Raipur, Chattisgarh - 492006	+91 - 771 - 4013040

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