

Festec® Handy Hook



Festec® Handy Hook

When lifting
floating heads,
flat covers or
pressure rings,
let the Festec® Handy Hook lift it safely.

less damages,
controlled lifting
precise mounting
increased safety

The best job is a safe job!

Festec® Handy Hook

for controlled and safe lifting

Festec®
Handy Hook
proven safety!



Festec® Handy Hook

selection table														
	pin length in mm		pin diameter in mm											
	required*	total	19	22	25	28	30	32	35	38	45	50	55	60
capacity in kg type order code	< 80	100	1.000 100019100 1-2100-19	1.500 150022100 1-2100-22	2.000 200025100 1-2100-25	3.000 300028100 1-2100-28	3.000 300030100 1-2100-30	3.000 300032100 1-2100-32	3.000 300035100 1-2100-35	3.000 300038100 1-2100-38	3.000 300045100 1-2100-45	3.000 300050100 1-2100-50	3.000 300055100 1-2100-55	3.000 300060100 1-2100-60
capacity in kg type order code	81 - 110	130	750 75019130 1-2130-19	1.150 115022130 1-2130-22	1.700 170025130 1-2130-25	2.400 240028130 1-2130-28	2.900 290030130 1-2130-30	3.000 300032130 1-2130-32	3.000 300035100 1-2130-35	3.000 300038100 1-2130-38	3.000 300045100 1-2130-45	3.000 300050130 1-2130-50	3.000 300055130 1-2130-55	3.000 300060130 1-2130-60
capacity in kg type order code	111 - 140	160	600 060019160 1-2160-19	900 090022160 1-2160-22	1.300 130022160 1-2160-25	1.850 185028160 1-2160-28	2.300 230030160 1-2160-30	2.800 280032160 1-2160-32	3.000 300035160 1-2160-35	3.000 300038160 1-2160-38	3.000 300045160 1-2160-45	3.000 300050160 1-2160-50	3.000 300055160 1-2160-55	3.000 300060160 1-2160-60
capacity in kg type order code	141 - 170	190	500 050019190 1-2190-19	750 075022190 1-2190-22	1.100 110025190 1-2190-25	1.550 155028190 1-2190-28	1.900 190030190 1-2190-30	2.300 230032190 1-2190-32	3.000 300035190 1-2190-35	3.000 300038190 1-2190-38	3.000 300045190 1-2190-45	3.000 300050190 1-2190-50	3.000 300055190 1-2190-55	3.000 300060190 1-2190-60
capacity in kg type order code	171 - 200	220	400 040019220 1-2220-19	600 060022220 1-2220-22	900 090025220 1-2220-25	1.300 130028220 1-2220-28	1.600 160030220 1-2220-30	1.950 195032220 1-2220-32	2.500 250035220 1-2220-35	3.000 300038220 1-2220-38	3.000 300045220 1-2220-45	3.000 300050220 1-2220-50	3.000 300055220 1-2220-55	3.000 300060220 1-2220-60
capacity in kg type order code	201 - 230	250	350 035019250 1-2250-19	550 055022250 1-2250-22	800 080025250 1-2250-25	1.150 115028250 1-2250-28	1.400 140030250 1-2250-30	1.700 170032250 1-2250-32	2.200 220035250 1-2250-35	2.800 280038250 1-2250-38	3.000 300045250 1-2250-45	3.000 300050250 1-2250-50	3.000 300055250 1-2250-55	3.000 300060250 1-2250-60
capacity in kg type order code	231 - 260	280	300 030019280 1-2280-19	500 050022280 1-2280-22	700 070025280 1-2280-25	1.000 100028280 1-2280-28	1.250 125030280 1-2280-30	1.500 150032280 1-2280-32	1.950 195035280 1-2280-35	2.500 250038280 1-2280-38	3.000 300045280 1-2280-45	3.000 300050280 1-2280-50	3.000 300055280 1-2280-55	3.000 300060280 1-2280-60
capacity in kg type order code	261 - 290	310	250 025019310 1-2310-19	450 045022310 1-2310-22	650 065025310 1-2310-25	900 090028310 1-2310-28	1.100 110030310 1-2310-30	1.350 135032310 1-2310-32	1.750 175035310 1-2310-35	2.200 220038310 1-2310-38	3.000 300045310 1-2310-45	3.000 300050310 1-2310-50	3.000 300055310 1-2310-55	3.000 300060310 1-2310-60

*required pin length = length of bolthole / thickness of flange + 10 mm

Some heat-exchangers do have rather small bolt-hole diameters and therefore the S.W.L. of the corresponding Festec® Handy Hook might be insufficient. In order to double the S.W.L. one has to order 2 equal Festec® Handy Hooks plus belonging spreader beam, which item is to be ordered separately. For ordering a spreader beam one has to add "-HHE" to the order-code.

ordering example:

weight channel cover = 1.018 kg
 thickness flange = 113 mm + 10 mm = required pin length = 123 mm
 bolt-hole diameter = 21 mm
 possible Festec® Handy Hook according selection table
 S.W.L. type 060019160
 required minimum S.W.L. = 1.018 kg
 S.W.L. 2 each Festec® Handy Hook type 060019160 = 2 x 600 kg = 1.200 kg
order-code:

» total pin length = 160 mm
 » pin diameter = 19 mm
 » type 060019160 / order-code 1-2160-19
 » 600 kg
 » double Festec® Handy Hook necessary!
 » suitable!
1-2160-19-HHE



Festec® Handy Hook

During maintenance and cleaning jobs on horizontal heat-exchangers floating heads, flat covers and pressure rings have to be lifted frequently. However, in most of the cases there is no hoisting ring fixed on those parts, nor can be mounted.

In common practice therefore 2 stud-bolts are placed into bolt-holes and the part is lifted with a sling, lowered on the ground or mounted on the heat-exchanger.

This most dangerous working method frequently leads to near misses, accidents or severe injuries, due to

- damaged lifting slings caused by incorrect use
- stud-bolts sliding out of the bolt-holes

Furthermore this method often results in

- damaged packing faces
- damaged packing items
- leakage after plant start-up, due to mounting damaged parts and
- loss of time, money and production

Therefore these very unsafe practices

should stop **NOW!**

From now on the **Festec® Handy Hook** should be used.

The **Festec® Handy Hook** has been developed to avoid these unsafe methods and

- is easy to use,
- requires no large investments,
- is safe to handle and
- enables top-quality maintenance jobs

In short, the **Festec® Handy Hook** replaces conventional unsafe working methods and is a must for mechanical plant maintenance technicians.

Compact and practical tool

The **Festec® Handy Hook** is a lifting device made of Fram Alloy steel. It consists of a hoisting shackle fixed with a hinge bolt on a bridge with two hinged bent lifting arms. A lifting pin and a chain with a cotter pin are fitted on each arm.



Festec®
Handy Hook
for controlled and safe lifting



Festec® Handy Hook

Using the Festec® Handy Hook

The pins of the **Festec® Handy Hook** are placed as deep as possible through the bolt-holes in the top of the cover, ring or floating head to be lifted and always have to be secured with the cotter pins. The cotter pins are only to be removed after the lifted item has been lowered on the ground or mounted on the heat-exchanger with some stud-bolts.

Due to the angle of the lifting arms the lifted item is tilted backwards. Thus the technician has an excellent view on gasket and packing face when mounting the floating head, cover or ring, which helps to prevent damages to either of them.

For the right choice of size is referred to the **Festec® Handy Hook** selection table.

The **Festec® Handy Hook** is only suitable for horizontal heat-exchangers.

Quality tool

The safety improving **Festec® Handy Hook** is developed in co-operation with maintenance engineers the field.

Each **Festec® Handy Hook** is tested individually on twice the safe working load and delivered inclusive lifting certificate.

References:

The **Festec® Handy Hook** is used successfully by a wide range of customers such as refineries, (petro-)chemical industries, (nuclear) power-plants, off-shore industry etc. as well as their contractors.

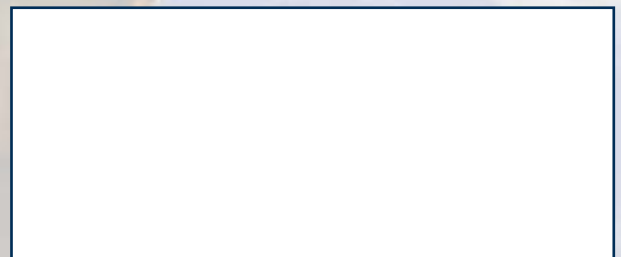


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