

APPLICATIONS HEL-X BIO CARRIERS



WASTEWATER TREATMENT

industrial and municipal
wastewater

MBBR – moving bed biofilm
reactor

fluidized bed biology



ORNAMENTAL FISH FARMING

floating bed method

fixed bed process

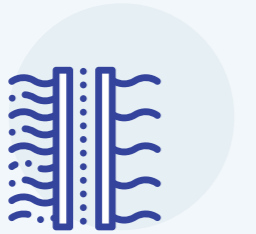
koi breeding



AQUACULTURE

fish farming

RAS - recirculating
aquaculture system
reactor



OTHER AREAS OF APPLICATIONS

biogas plants

gas washing and cooling

exhaust air and exhaust
gas cleaning



HIGH PERFORMANCE BIO CARRIERS

for biological waste
water treatment and gas treatment

Quality made in Germany
Certified to ISO9001:2015



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www.hel-x-flake.de



BIO CARRIERS – MADE IN GERMANY

HEL-X biocarrier are specially developed for use in biofilm
processes.

The name HEL-X characterizes the circumferential spiral
or helix, a product property that ensures high mechanical
stability with at the same time very good flow and a high
specific growth area.

The biofilm is optimally supplied with oxygen and nu-
trients.

OUR ADVANTAGES

- cost-effective
- high mechanical load capacity
- durable
- sustainable
- ecological
- large surface area

BIO CARRIERS

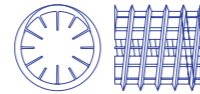
art. no.	Ø in mm	length in mm	type	surface m ² /m ³	surface prot. m ² /m ³
HX09	9	7	2	861	461
HX09KL	9	7	4	836	495
HXF12KLL	12	12	7F	859	704
HXF13KLL+	13	13	7F+	955	806
HXF14KLL	14	14	7F	767	644
HX17KL	17	15	9	437	264
HX17KLL	17	17	7	602	393
HXF17KLL	17	17	7F	595	496
HX18KK	18	18	8	475	304
HXF18KK	18	18	8F	492	387
HX25	25	25	1	312	226
HX25KLL	25	25	7	360	273
HXF25KLL	25	25	7F	420	342
H2X36	36	36	3	239	188
H2X36 glatt	36	36	3G	322	268
HX38	38	38	1	188	141
HX38K	38	38	7L	195	149
HX50	50	50	1	148	125
HX65	65	65	1	102	85
HX65K	65	65	7	96	78
HX75	75	75	1	78	66
HX75K	75	75	7	84	69



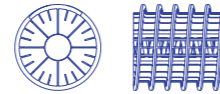
Made of recycled HDPE granulate (black) or made of virgin HDPE granulate (white). Other colours on request.

Find out more: www.hel-x.de

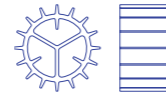
TYPE INDEX



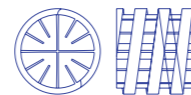
TYPE 1
different lengths of lamellas



TYPE 3
different lengths of lamellas with
flow-through inner tube



TYPE 4
Star with
intermediate lamella



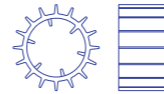
TYPE 7F
Cross with 2 intermediate
lamellas with flat helix



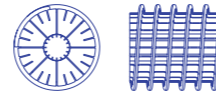
TYPE 7L
Cross with 3 intermediate lamellas



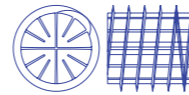
TYPE 8 F
Double cross with flat helix



TYPE 2
equal length lamellas



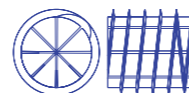
TYPE 3 G
different lengths of lamellas
with closed inner tube



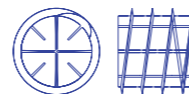
TYPE 7
Cross with 2 intermediate
lamellas



TYPE 7F+
Cross with lower intermediate
lamellas



TYPE 8
Double cross



TYPE 9
Cross with one
intermediate lamella

HEL-X RODS

art. no.	Ø in mm	length in mm	type	surface m ² /m ³
HX17KL	17	200	9	766
HX17KLL	17	200	7	822
HX25	25	200	1	376
HX25KLL	25	200	7	508
H2X36	36	500	3	396
H2X36glatt	36	500	3G	481
HX38	38	300	1	258
HX38K	38	300	7L	281
HX50	50	600	1	177
HX65	65	600	1	131
HX65K	65	600	7	122
HX75	75	600	1	107

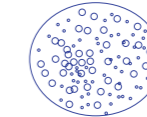
HEL-X CLUSTERS

HX38	38	500	1	262
HX38 K	38	500	7L	285
HX50	50	600	1	180
HX65	65	600	1	135
HX65 K	65	600	7	125
HX75	75	600	1	110
HX75 K	75	600	7	101



HEL-X BIO CHIPS

art. no.	Ø in mm	length in mm	type	surface m ² /m ³
HEL-X Flake 30	~ 30	~ 1,1	C	> 5.000
HEL-X Flake Pro	~ 30	~ 1,2	C+	>5.500



type C

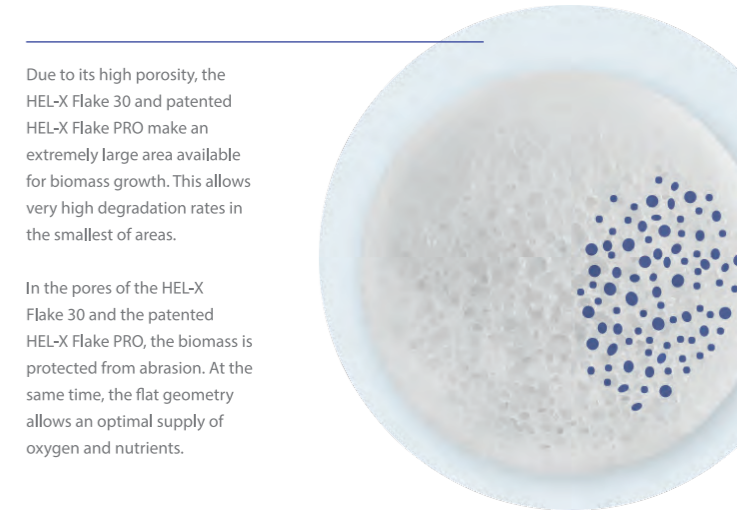


type C+
patented

HEL-X FLAKE 30 IDEAL FOR HEAVILY LOADED SEWAGE AND COMPACT SYSTEMS

Due to its high porosity, the HEL-X Flake 30 and patented HEL-X Flake PRO make an extremely large area available for biomass growth. This allows very high degradation rates in the smallest of areas.

In the pores of the HEL-X Flake 30 and the patented HEL-X Flake PRO, the biomass is protected from abrasion. At the same time, the flat geometry allows an optimal supply of oxygen and nutrients.



Find out more: www.hel-x-flake.de