

Catalogue

2012



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For over more than 50 years is Hessels specialist in the production of sieve webs for agricultural machinery. Our webs are also more and more used in other branches, such as fishing and industry.

We consider it our duty to constantly look for new production techniques and possibilities for the applications of our products.

In this catalogue you can find almost every available option for sieve webs, driving wheels, support rollers and accessories. Of course we keep an open mind towards new developments.

This may result in this catalogue not being completely up-to-date, even shortly after being released.

We have tried to make this catalogue as user friendly as possible and we hope you will use it often and with pleasure.:

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You can easily find us by taking the motorway A7 (Groningen – Oldenburg), taking exit Heiligerlee (Nr. 46).

In the world of sieve webs the options are almost infinite. In order to clearly specify a web, Hessels uses a standard code, which you will find in offers, order confirmations and invoices. On this page we explain how the definition of a sieve web is made. This only applies to standard sieve webs. All specialities will be mentioned separately below. Specialities are for instance: rod coverings, cranked rods, flights, centre belt attachments and stone traps.

Unless stated otherwise, a standard sieve web will be equipped with rods of spring steel, Class C. If this is not the case, the rods will be mentioned as a speciality.

All dimensions will be written in mm only. On a quotation we will also note the number of rods between brackets (), as an extra check for yourself.

Bandcode

7000 (249 + 1) x 1460 x 3 / S28 / 60 x 10 x ZS
A B C D E F G

- A– length in mm
- B – width in mm
- C – number of traction belts
- D– type of traction belts
- E – width of traction belts
- F – rod diameter
- G– joining method



Belts

Our webs are constructed with rubber traction belts. These traction belts are available in different types and sizes, thus allowing us to create a wide range of types of sieve webs. On the next pages you can find a description of the different types.

Our traction belts are always of the quality EP1000/3. This means that they have 3 layers, consisting of polyester fibres in the length and nylon fibres in the warp.

The breaking strength is 1000kg. per cm belt width.

The rubber belts out of which

we cut our traction belts are designed and produced specially to meet our demands. The rubber of these belts is of a wear and weather resistant quality. This makes our webs very suitable for applications in harvesters and washing installations for vegetables and fruit.

The hardness of the rubber is $\pm 65^\circ$ shore A.

Because we profile and cut our traction belts in our own factory, we can be flexible with regards, to the standard pitches and widths.

Belts

traction belt width in mm

Material

Rubber

B

M

R

Type	B					M	Description
S20		60				R	Low cam
S28	50	60	75			R	Low cam
S32	50	60	75			R	Low cam
S33		60				R	Low cam
S35		60				R	Low cam
S36	50	60	75			R	Low cam
S37		60				R	Low cam
S40	50	60	75			R	Low cam
S42	50	60	75			R	Low cam
S43		60				R	Low cam
S44		60				R	Low cam
S45		60	75			R	Low cam
S50	50	60	75			R	Low cam
S55	50	60				R	Low cam
S60	50	60				R	Low cam
DS28		60				R	Low cam with protection cams
DS32		60				R	Low cam with protection cams
DS36		60	75			R	Low cam with protection cams
DS40		60	75			R	Low cam with protection cams
DS42		60				R	Low cam with protection cams
DS45		60	75			R	Low cam with protection cams
DS50		60	75			R	Low cam with protection cams
N28	50	60	75			R	High cam
N30	50					R	High cam
N35		60	75			R	High cam
N40	50	60	75	120	150	R	High cam
N43		60	75			R	High cam
N44		60				R	High cam
N50		60	75			R	High cam
DN28	50	60	75			R	High cam with protection cams
DN35		60	75			R	High cam with protection cams
DN40		60	75			R	High cam with protection cams
DN43		60	75			R	High cam with protection cams
DN44		60				R	High cam with protection cams
DN50		60	75			R	High cam with protection cams
HN40		60				R	Extra high cam
HN50		60	75			R	Extra high cam
HN55		60				R	Extra high cam
HN60	50	60				R	Extra high cam
HN64		60	75			R	Extra high cam
HN70	50					R	Extra high cam
DHN50		60	75			R	Extra high cam with protection cams
DHN55		60				R	Extra high cam with protection cams
DHN60		60	75			R	Extra high cam with protection cams
DHN64		60				R	Extra high cam with protection cams
DHN80		60				R	Extra high cam with protection cams

Types of traction belt

Type S

These traction belts are available in most pitches. Sieve webs with these belts can be driven with sprockets types S, M, G, Z, RR (pages 30, 32, 35 and 38).

Type N

Webs with these belts can be driven by sprockets types N and G (page 35)

Type HN

This type resembles type N, but the cams are 3mm higher.

Type DS

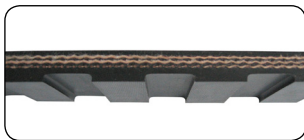
These belts have the same properties as the belts type S, but with extra rubber protection cams on the top side. The flattenings of the rods lie between 2 rubber cams, so the product to be sieved will not be damaged by the rivet heads. Another advantage is that the rods do not touch the rollers on the return side. This prevents wear on the rollers and the rods and allows the web to run more smooth with lesser noise.

Type DN

These belts have the same properties as type N, but have the same protection cams as type DS.

Type DHN

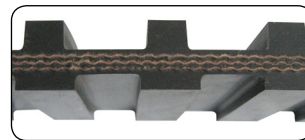
These belts have the same properties as type HN, but have the same protection cams as type DS.



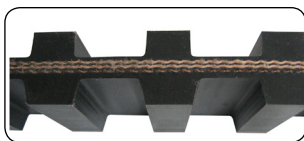
Type S



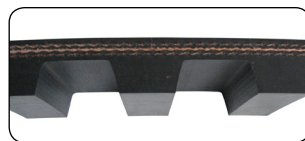
Type N



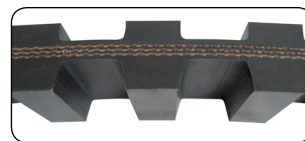
Type DS



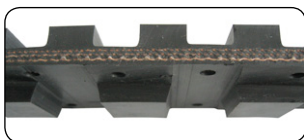
Type DN



Type HN



Type DHN



Type DO

The traction belts of type XN and DXN are of the extra strong quality EP1250/3.

These belts have also 3 layers, but they have a total breaking strength of 1250Kg. per cm belt width.

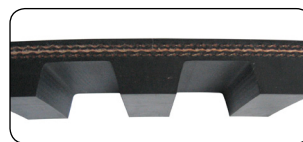
Traction belts XN and DXN

Width of traction belt in mm B

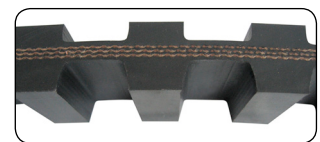
Material M

Rubber R

Type	B				M	Description
XN50	60				R	Extra high cam
XN60	60				R	Extra high cam
DXN50	60	75			R	Extra high cam with protection cams
DXN60		75			R	Extra high cam with protection cams
DXN70	60	75			R	Extra high cam with protection cams



Type XN



Type DXN



Rods

Standard our webs are equipped with rods of spring steel class C (DIN 17228). However we can also mount rods of hardened Boron steel, stainless steel or glass fibre reinforced polyester. After consultation with you, we can also use other materials so that the produced web will meet your expectations as good as possible.

Without using rod coverings we can create gaps with a minimum of 5mm. By using rod coverings we can reduce the gaps to 2mm.



Stokmaat

In determining the correct width of the sieve web, it is important that the rods have the correct "stokmaat". This is the distance between the two outside rivet holes, C.T.C. When ordering loose rivet rods it is important that you mention the stokmaat as well as the distance between the holes in one end. Without further notice, we assume this distance to be 20mm in 50mm wide traction belts and 32mm in 60 or 75mm wide traction belts. On request we can also make these distances 24 or 30mm.

Standard rivet rods are available in diameters 6,7,8,9,10,11,12,13 and 15mm.

To increase the conveying capacity of a sieve web, we can equip webs with cranked rods. These cranks are available in various heights, both up and down. (An often used construction is 2 down cranked rods, followed by 1 straight rod.)

To protect the product from damaging or to minimise the gap, rods can be covered. More information about this on page 20.



Kinds of steel

For use in rough circumstances, for instance in stone separators, we can make the rods out of stronger materials. Here we use special steel (spring steel, class super C) or hardened Boron steel.

Special steel is harder and tougher than spring steel class C. Further it has all the properties of regular spring steel. Special steel is available in the diameters 10, 11 and 12mm.

Hardened boron steel is even harder and tougher than special steel. An advantage of boron steel is that it can be welded. After welding, the material must be hardened, which makes it impossible to weld on an existing web. Boron steel is available in the diameters 10, 11, 12 and 13mm.

Stainless steel is often used in water. All metals used in the sieve web are then of stainless steel. It is not possible to make a centre flattening in a stainless steel rod. If a centre belt is required, attachment onto the belt will be made with centre clips.

To save weight we can use rods out of glass fibre reinforced polyester. The glass fibres provide great tensile strength. A sieve web with these rods can weigh up to 50% less than a web with steel rods. Another advantage is that these rods don't rust.

Polyester rods are available in the diameters 6, 8 and 10mm.



Twin rods

For the processing of small products, such as flower bulbs, we produce webs with "twin rods". A twin rod consists of 2 rods, which are clamped together at their ends, by a tube. The actual pitch is half of the belt pitch. With the use of rod coverings we can create a gap as small as 2mm.

Twin rods are also standard constructed with spring steel rods, though stainless steel or polyester rods are also available.



Square meshes

For oblong products, such as carrots, we produce sieve webs with square pitches. The rods of these webs are made from Boron steel, onto which pins are welded, giving the web square or rectangular gaps.

Vulcanised rods

To protect the product from damage, we can vulcanise a soft rubber layer onto the rods. This rubber has a hardness of 30-35° shore. Because the rod is vulcanised over the total length, including the flattenings, this offers optimal protection.

With these rods, the centre belt is attached with OGP.

Because of the fact that every rod has to be vulcanised in a mould, these rods are not available in every width.



Types of vulcanised rods

Material M
rubber R

Type	B	Description
G10	R	Vulcanised rod
C10	R	C-profile
E30	R	Hedgehog Standard
P30	R	Hedgehog Flat
R30	R	Hedgehog Round
V10	R	Hedgehog V-profile

Hedgehog rods

Hedgehog webs are often used for cleaning the product and the removal of haulm remnants. We can supply hedgehog webs with 4 different types of rods:

E30 (Standard)

This is an arched steel profile, 30mm wide, on which 2 rows of rubber fingers are vulcanised. These fingers are 28mm high and are placed C.T.C. 20mm from each other. These rods are usually attached to 60mm wide traction belts, pitch 40mm. The rods are attached with bolts and welding nuts M6. E30 rods are very stable, therefore allowing for a relatively wide web without using a centre belt.

P30 (Flat)

This is a flat steel profile, 4x30mm, on which 2 rows of rubber fingers are vulcanised. These fingers are 30mm high and are also placed C.T.C. 20mm from each other. Compared to the standard profile these fingers are much thicker and more stable. P30 rods are riveted to the traction belts.

V10 (V-profile)

This is a $\varnothing 10$ mm rod, on which the 2 rows of rubber fingers are vulcanised in a V shape. These fingers are app. 25mm high and are asymmetrically placed, also 20mm from each other. A V-profile hedgehog web has the advantage of having sieve capacity. This profile is not available in every width.

Q8H (Cocks comb profile)

This is a square (8x8mm) spring steel rod, with a rubber cocks comb tube. This profile does not go over the outside traction belts.

R30 (Round)

This hedgehog rod has the looks of a P30 profile, but the flat rod is replaced by a normal round rivet rod. The advantage is that the rod is much more stable. Not all widths are available.





"E30" (standard)



"P30" (flat)



"V10" (V-profile)



"R30" (round)



Centre belt attachment

Spring steel rods can be attached to a centre belt in 3 different ways:

OGP (rods \varnothing 8, 9, 10, 11, 12, 13 and 15mm)

The rod will be pushed up before flattening. This thickens the material here, so the flattening does not become a weak spot.

Centre clips (rods \varnothing 8, 9, 10, 11, 12 and 13mm)

A centre clip will be slid over the rod. This centre clip will then be riveted to the belt, in order that it is held tightly around the rod. To prevent the centre belt from moving sideways, a rod will be slightly flattened on either side of the clip, at intervals of app. 30cm.

Clamp clips (rods from \varnothing 8mm upwards with star PVC)

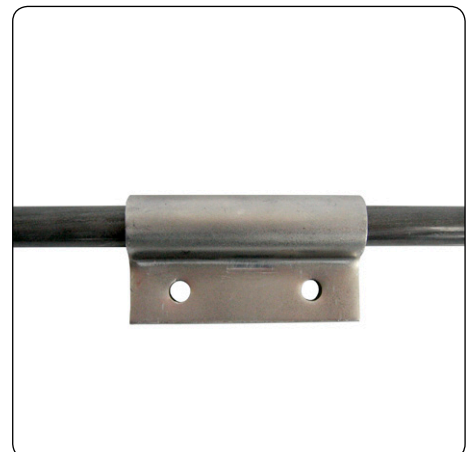
A clamp clip will be riveted to the centre belt first. A covered rod will then be placed inside this clip, after which the clip will be squeezed.



OGP



Clamp clip



Centre clip



Assembling of rods

The rods can be riveted to the belts in different ways. Usually they are riveted with 2 rivets per traction belt.

To avoid damaging the product and to prevent the rods from coming loose when the rivet heads wear off, the holes in the rods are made partly conical. This allows the rivet heads on the rods to be almost smoothed away.

Rods with a diameter up to 10mm are riveted with 5mm rivets. For rods \varnothing 11mm and up we use 6mm rivets.

The attachment of overlap joints are fixed with hexagon socket bolts with countersunk heads, which go through the upper side of the rods, in combination with threaded plates on the bottom side of the belts.



Rod covering

Types of rod covering

Split-PE

Split-PE is a hard polyethylene tube, split over its entire length. Because of the hardness of split-PE, it cannot be used as protection against damaging. Split-PE is only used to reduce the gap between the rods. The biggest advantage of split-PE is that it can be mounted or removed at any time.

Soft PVC

This is a soft PVC covering for $\varnothing 6\text{mm}$ rods.

Star-PVC

To protect the product from damaging we can cover the rods with soft star-PVC. This is a soft PVC tube that is profiled on the inside. It is available in many sizes. Because of the fact that this tube can practically always be used and offers good results at a reasonably low price, one can find a sieve web with star-PVC in almost every potato harvester.

ACT

ACT is a PVC air chamber tube for round bars and is available in 2 sizes only. The air chambers make ACT a very soft covering.

8x8 Special

This is a PVC air chamber tube for square rods 8x8mm. Because this tube is much thinner than ACT, a sieve web with 8x8 Special has much more sieving capacity than a sieve web with ACT.

Rod coverings

material M
rubber R
polyethylene PE
pvc PVC

Type	dimensions	M	Description
Split-PE	6 x 9	PE	Split-PE
Split-PE	8 x 12	PE	Split-PE
Split-PE	9 x 12	PE	Split-PE
Split-PE	10 x 14	PE	Split-PE
Split-PE	10 x 16	PE	Split-PE
Split-PE	11 x 16	PE	Split-PE
Split-PE	12 x 16	PE	Split-PE
Split-PE	14 x 18	PE	Split-PE
Split-PE	16 x 20	PE	Split-PE
Split-PE	20 x 25	PE	Split-PE
Zacht-PVC	6,5 x 9	PVC	Soft PVC
Zacht-PVC	6,5 x 11	PVC	Soft PVC
Ster-PVC	7,5 x 14	PVC	Star-PVC
Ster-PVC	8,5 x 15	PVC	Star-PVC
Ster-PVC	9,5 x 16	PVC	Star-PVC
Ster-PVC	9,5 x 18	PVC	Star-PVC
Ster-PVC	10,5 x 16	PVC	Star-PVC
Ster-PVC	10,5 x 18	PVC	Star-PVC
Ster-PVC	10,5 x 20	PVC	Star-PVC
Ster-PVC	11,5 x 18	PVC	Star-PVC
Ster-PVC	11,5 x 21	PVC	Star-PVC
Ster-PVC	12 x 25	PVC	Star-PVC
Ster-PVC	13 x 19	PVC	Star-PVC
Ster-PVC	15 x 21	PVC	Star-PVC
ACT	11 x 24	PVC	ACT
ACT	15 x 27	PVC	ACT
V8S	8 x 8	R	8 x 8 special





Split-PE



Soft-PVC



Star-PVC



ACT



8 x 8 special



Flights

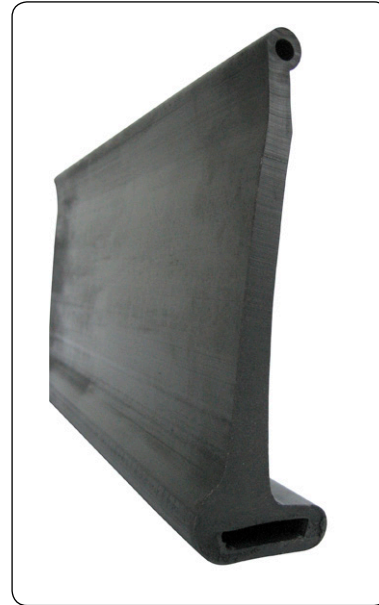
Flights

To transport the product at steep angles we have rubber flights (RM) in various heights. Because of the functional design of these flights they can be assembled to every pitch.

When the flight is not fitted tightly between the traction belts, its back will be cut out to fit a cable grip. This prevents the flight from moving sideways.



RM100



RMP170



RMS165

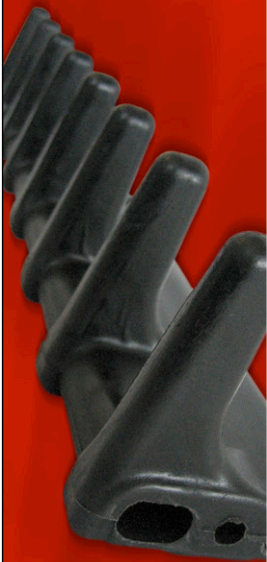


PMF75

Flights

material
 rubber R
 steel S
 Synthetic K
 Polyurethane PU

Type	M	Description
RM30	R	Flight
RM50	R	Flight
RM75	R	Flight
RM100	R	Flight
RM120	R	Flight
RM140	R	Flight
RMA150	R	Flight
RMS165	R	Flight
RMP170	R	Flight
1-R	R	1-row hedgehog rod
SMB	S	Flight
SMH	S	Flight
SMP	S	Flight
SMX	S	Flight
KMP60	K	Flight
KMP130	K	Flight
KMP160	K	Flight
KMP180	K	Flight
PMF85	PU	Flight





KMP

Weight saving and wear resistance are the keywords with the flights type KMP. This synthetic flight was especially designed to fulfil these two requirements. KMP flights are 160mm wide and available in 4 heights. These flights are in 2 parts and therefore they can be mounted very easy on existing sieve webs.

In our welding section we can produce steel flights to your own design. Some examples are shown on this page.



SMB



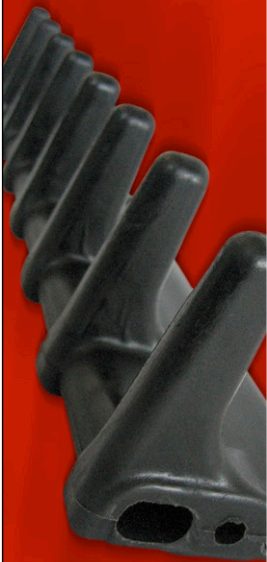
SMP



SMH



Moreau





Joiners

Joiners

Joining clips are designed to fit the different pitches and belt widths. See the table on the next page for the various sizes and the next page for an overview of the types.

Type SLS

Standard joiners, not for heavy duty jobs.

Type SLN

Standard joiners for high cam belts.

Type SLZS

Hardened joiners, existing of two identical halves.

Type SLZL

Heavy duty welded joiner, made to fit every pitch and belt width. The rivet rod is mounted on the joiners.

Type SLZDOL

Welded joiners like the SLZOL, but these joiners have an adapter, so 2 joining rods are needed.

Type SLZDL

Welded joiners like the SLZL, but these joiners have an adapter, so 2 joining rods are needed.

Type SLKS

Complete joining kit consisting of synthetic and cast iron pieces, to suit Grimme webs.

Type SLZB

Hardened joiners with interchangeable hardened tubes. The $\varnothing 11\text{mm}$ joining rod is kept in place by a M4 set bolt and is therefore not machined.

Type SLZG

Heavy duty joiners out of spheroidal iron for very rough conditions.

Type SLZOL

Heavy duty welded joiner, made to fit every pitch and belt width. The rivet rod is mounted under the joiners.

Dimensions SL

Material	M
Steel	S
Hardened steel	SG
Cast iron	GS
Synthetic	K

Type	Pitch										M	Description
SLS... / 20	28	32		36	40	42				50	S	Joiner
SLS... / 24	28	32		36							S	Joiner
SLS... / 30				36	40						S	Joiner
SLS... / 32	28	32		36	40	42		45	50		S	Joiner
SLN... / 32			35		40		44		50		S	Joiner
SLZS... / 20	28	32		36	40	42		45	50		SG	Joiner
SLZS... / 32	28	32		36	40	42		45	50		SG	Joiner
SLZG... / 32				36	40	42		45	50		GS	Joiner
SLZB... / 20	28	32	35	36	40	42	44	45	50		SG	Joiner
SLZB... / 32	28	32	35	36	40	42	44	45	50		SG	Joiner
SLZBT... / 32					40						S	Joiner
SLZL... / 20											S	Joiner
SLZL... / 32											S	Joiner
SLZDL... / 20											S	Joiner
SLZDL... / 32											S	Joiner
SLKS + D				36	(with twin rod)						K	Joiner
SLKS - D					40	(without twin rod)					K	Joiner



SLS



SLN



SLZS



SLZG



SLZOL



SLZDOL

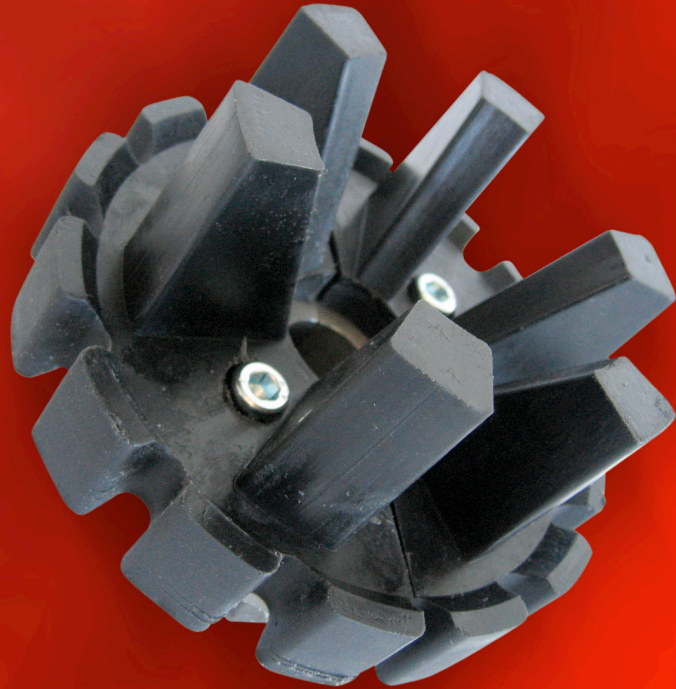


SLZBB



SLKS





Drive wheel

The three types of sprockets on the next page are all suitable to drive sieve webs with low cam traction belts. (Types S and DS). They drive the belt in the rods, with or without supporting the traction belts.

All sprockets are splittable (unless otherwise stated) and therefore easy to assemble.

The sprocket code consists of the following elements:

Pitch / number of teeth + type

M = with support fingers

S = with closed belt support

Z = without belt support

N = finger wheel for high cam traction belts

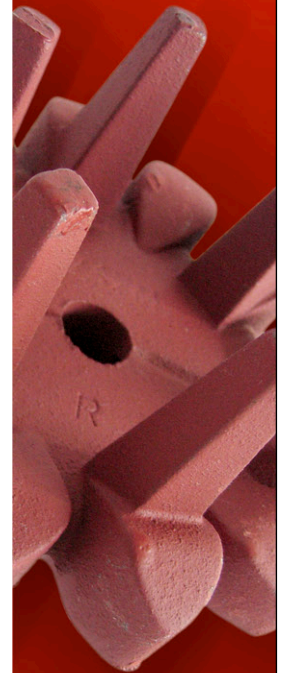
G = combination wheel suitable for every type of traction belt

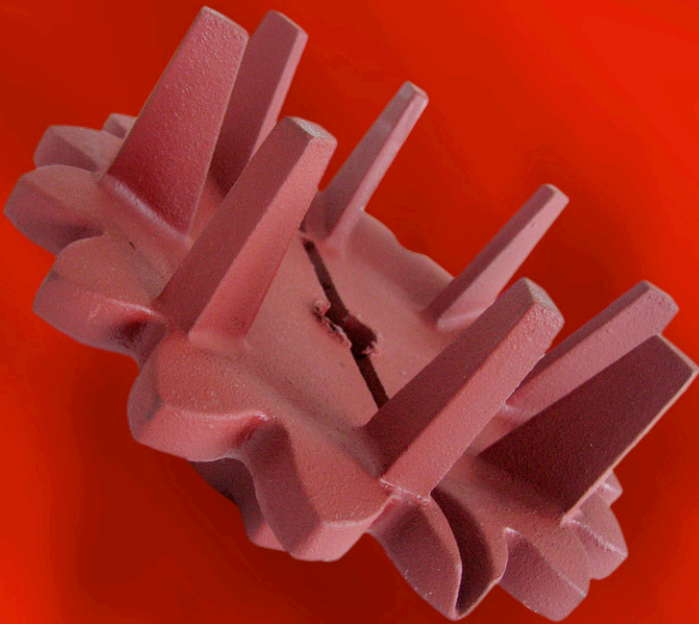
Dimensions Types M, G and S

Material
Diameter
Cast iron
Minimal bore
Maximum bore

M
D
GY
A min
B max

Type	D	A min	B max	M	Description
28 / 14M	115	25	40	GY	Sprocket
28 / 16M	123	25	40	GY	Sprocket
28 / 22M	176	25	45	GY	Sprocket
32 / 12M	107	25	45	GY	Sprocket
32 / 16M	144	30	40	GY	Sprocket
32 / 18M	163	35	50	GY	Sprocket
36 / 10M	96	25	35	GY	Sprocket
36 / 12M	118	25	40	GY	Sprocket
36 / 14M	136	25	40	GY	Sprocket
36 / 16M	172	30	50	GY	Sprocket
36 / 18M	186	30	45	GY	Sprocket
40 / 10M	107	30	40	GY	Sprocket
40 / 14M	153	30	50	GY	Sprocket
40 / 16G	188	30	50	GY	Sprocket
40 / 18G	213	35	50	GY	Sprocket
40 / 20G	229	35	50	GY	Sprocket
42 / 10M	118	25	40	GY	Sprocket
42 / 12M	140	25	45	GY	Sprocket
42 / 14M	156	30	50	GY	Sprocket
42 / 16M	193	25	40	GY	Sprocket
44 / 16G	208	35	50	GY	Sprocket
44 / 20G	260	35	50	GY	Sprocket
45 / 12M	153	30	50	GY	Sprocket
50 / 8M	105	25	40	GY	Sprocket
50 / 12M	163	25	50	GY	Sprocket
50 / 14S	208	30	50	GY	Sprocket
50 / 14G	202	30	50	GY	Sprocket
50 / 16G	233	35	50	GY	Sprocket





Type M



Type G



Type S



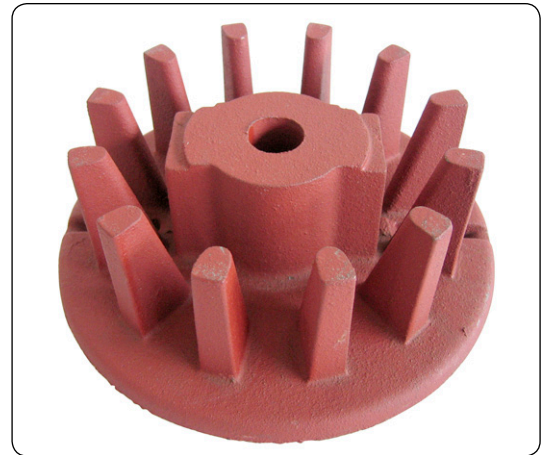
Type Z

These sprockets do not have a belt support.

Dimensions type Z

Materia M
Diamete D
Cast iron GY
Minimal bore A min
Maximum bore B max

Type	D	A min	B max	M	Description
28 / 14Z	121	25	40	GY	Sprocket
28 / 16Z	136	25	40	GY	Sprocket
28 / 22Z	190	25	45	GY	Sprocket
36 / 11Z	115	25	40	GY	Sprocket
36 / 12Z	135	25	35	GY	Sprocket
36 / 16Z	171	30	45	GY	Sprocket
42 / 10Z	126	25	35	GY	Sprocket
42 / 14Z	176	30	50	GY	Sprocket

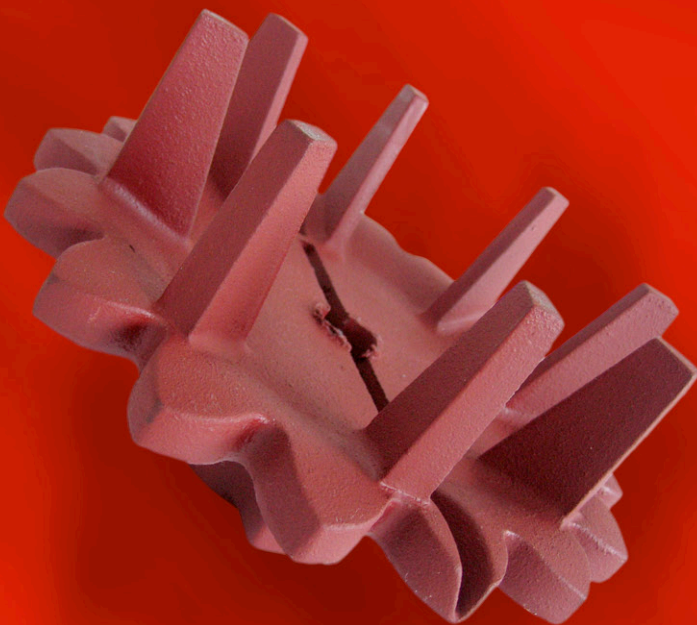


Type N

On the next pages you can find sprockets type N, suitable for driving high cam belts. These sprockets give a secure drive, without wear on the rods of the sieve web.

Sprockets type N can be supplied without a flange, so that they can be assembled to drive the centre belt.

Type G drives the belt in the cams as well as in the rods.



Dimensions types N and G

Material M
Diameter D
Cast iron GY
Minimal bore A min
Maximum bore B max
Diameter of flange F
Nodular cast iron NO

Type	D	F	A min	B max	M	Description
35 / 6N	120	180	30	40	GY	Sprocket
35 / 16G	166		25	50	GY	Sprocket
35 / 17N	176	213	30	50	GY	Sprocket
35 / 20N	212	247	35	50	GY	Sprocket
40 / 12N	140	180	25	40	NO	Sprocket
80 / 6N	140	186	30	35	GY	Sprocket
40 / 14N	166	202	30	40	GY	Sprocket
80 / 8N	185	220	30	50	GY	Sprocket
40 / 16G	188		30	50	GY	Sprocket
40 / 18N	214	257	30	50	GY	Sprocket
40 / 18G	213		35	50	GY	Sprocket
80 / 10N	243	278	40	45	GY	Sprocket
40 / 20G	243		35	50		Sprocket
43 / 18G	242		35	50	GY	Sprocket
44 / 11N	140	181	30	40	NO	Sprocket
44 / 16G	208		35	50	GY	Sprocket
44 / 20G	260		35	50	GY	Sprocket
50 / 12N	177	221	30	45	GY	Sprocket
50 / 13N	192	232	30	50	GY	Sprocket
50 / 14N	205	242	30	45	GY	Sprocket
50 / 14G	202		30	50	GY	Sprocket
50 / 16G	233		35	50	GY	Sprocket
56 / 12N	202	230	30	50	GY	Sprocket
35 / 17Nx	176	213			GY	Sprocket
80 / 8Nx	212	247			GY	Sprocket



Type K

Low profile belts (types S and DS) can also be driven by friction rollers. These are cage rollers (type K) and rubber rollers (type RR).

Cage rollers have a flange and are not spittable. It is essential that the web is tightly held around the roller. If necessary, this can be done by fitting a pressure roller near the drive roller.

Dimensions type K

Material M
Diameter D
Cast iron GY
Minimal bore A min
Maximum bore B max
Diameter of flange F

Type	D	F	A min	B max	M	Description
K80	80	119	20	35	GY	Cage roller
K100	100	150	20	30	GY	Cage roller
K115	115	167	25	40	GY	Cage roller





42/12M.GO.PUR



40/16ZL80

Drive wheels PUR

Material M
Diameter D
Poly urethane PU

Type	D	M	Description
35/18G.GO.PUR	200	PU	Drive wheel
36/14M.GO.PUR	153	PU	Drive wheel
40/16G.GO.PUR	202	PU	Drive wheel
42/12M.GO.PUR	155	PU	Drive wheel
43/14G.GO.PUR	192	PU	Drive wheel
44/16G.GO.PUR	214	PU	Drive wheel
45/12M.GO.PUR	160	PU	Drive wheel
50/12G.GO.PUR	285	PU	Drive wheel
28/22ZL80	197	PU	Drive wheel
35/18ZL80	202	PU	Drive wheel
40/16ZL80	194	PU	Drive wheel
43/14ZL80	205	PU	Drive wheel
50/12ZL80	187	PU	Drive wheel

Rubber rollers (**RR**) are the most commonly used friction rollers. The rubber surface of the rollers give a good grip on the rubber traction belts. The rubber used on these rollers is of a wear resistant quality. Most rubber rollers have a cast iron core. To simplify the mounting we have several rollers in a splittable version.

To save weight and for use in wet conditions we have some rubber rollers with a nylon core. The flanges of these rollers are also out of nylon.



RR180ZD



RR140FN



Dimensions RR

Material M
Rubber R
Minimal bore A min
Maximum bore B max
Diameter of flange F

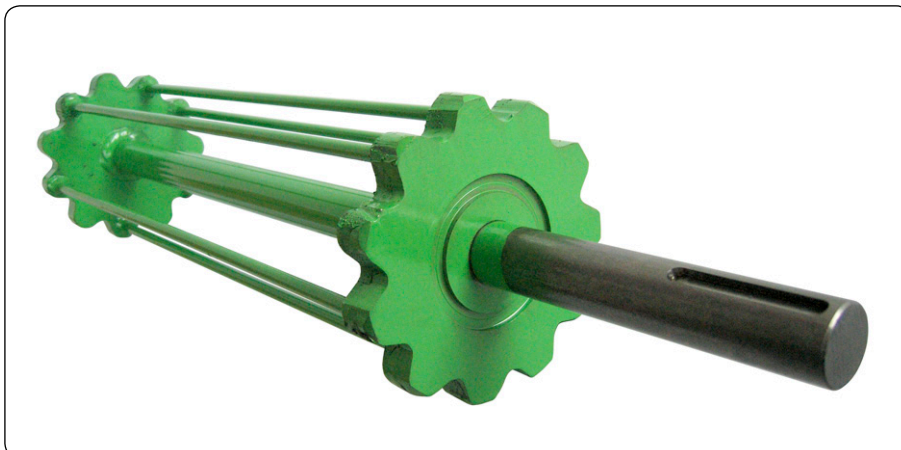
Type	F	A min	B max	M	Description
RR80F	110	25	40	R	Roller
RR90F	130	25	45	R	Roller
RR100F	140	25	55	R	Roller
RR100Z		25	55	R	Roller
RR110F	150	25	55	R	Roller
RR120FD	140	25	40	R	Roller
RR130F	170	25	60	R	Roller
RR140F	170	25	70	R	Roller
RR140FD	170	30	50	R	Roller
RR140FN	170	25	60	R	Roller
RR140Z		25	70	R	Roller
RR140ZD		30	50	R	Roller
RR140ZN		25	60	R	Roller
RR160F	190	25	50	R	Roller
RR180F	220	25	60	R	Roller
RR180FD	220	25	60	R	Roller
RR180FN	220	25	70	R	Roller
RR180Z		25	55	R	Roller
RR180ZD		25	60	R	Roller
RR180ZN		25	70	R	Roller
RR200F	240	25	55	R	Roller
RR240F	300	25	65	R	Roller
RR240Z	156	25	60	R	Roller

Besides our standard universal drive wheels we can also supply drive wheels to specific brands, for instance Grimme or Miedema.

Dimensions specific

Material M
Nodular cast iron GS
Cast iron GY
Steel S

Type	M	Description
Grimme		
HL(S)750/35	GS	H00600058
HL(S)750/35	GS	H00600059
Miedema		
MAK.Grond28	S	
MAK.Grond32	S	
MAK.Grond36	S	
MAK.Zeef28	S	
MAK.Zeef32	S	
MAK.Zeef36	S	
wisent		
WAW.rooiband_SR	GY	
WAW.loofband_SR	GY	



MAK.Zeef32





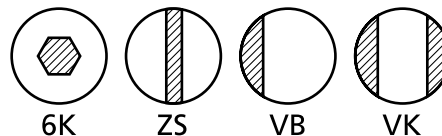
Rollers

On the next pages you can find different support and return rollers. We have a wide range of rollers, so the right roller can be found for any situation. The diameter of the length of the race are very important. Unless otherwise stated the races of our rollers have a length of 60mm. We will gladly advise you about the possibilities.

All rollers are manufactured with 2 sealed bearings and an axle with or without thread (**AM**) or a hollow axle (**BD**). Of course we can also supply rollers with only the bearings.

To make mounting easier, we generally supply the rollers with a threaded axle with a hexagonal hole (**6K**). Other possibilities are a saw cut (**ZS**), flat surface (**VB**) or a flat piece (**VK**) on the shoulder.

As an option many rollers are available with a hollow axle, type BN. This axle is shorter than the hollow axle type BD. With the hollow axle type BN the bolt head is positioned within the roller. After fitting the roller will be closed by means of a nylon cap.



6K

ZS

VB

VK



RR90F.BD

Dimensions RR

Material M
 Rubber R
 Flange diameter F
 Equipped with U...
 Threaded axle AM
 Hollow axle M16 BD
 Hollow axle M20 BT
 Hollow axle M16 short BN
 Bearing houses LK

Type	F	U1	U2	U3	U4	U5	M	Description
RR70F	110	AM	BD			LK	R	Roller
RR70Z		AM	BD			LK	R	Roller
RR80F	110	AM	BD		BN	LK	R	Roller
RR80Z		AM	BD		BN	LK	R	Roller
RR90F	130	AM	BD		BN	LK	R	Roller
RR90Z		AM	BD		BN	LK	R	Roller
RR100F	140	AM	BD	BT	BN	LK	R	Roller
RR100Z		AM	BD	BT		LK	R	Roller
RR110F	150	AM	BD	BT	BN	LK	R	Roller
RR110Z		AM	BD	BT		LK	R	Roller
RR130F	170	AM	BD	BT		LK	R	Roller
RR140F	170	AM	BD	BT	BN	LK	R	Roller
RR140Z		AM	BD	BT		LK	R	Roller
RR160F	190	AM	BD	BT		LK	R	Roller
RR180F	220	AM	BD	BT	BN	LK	R	Roller
RR180Z		AM	BD	BT		LK	R	Roller
RR200F	240	AM	BD	BT		LK	R	Roller
RR240F	300	AM	BD	BT		LK	R	Roller
RR240Z		AM	BD	BT		LK	R	Roller



Besides rubber rollers (**RR**) we can also supply cast iron rollers (**GR**). These rollers can be used and fitted in the same way as the rubber rollers. Unless otherwise stated the races of our rollers have a length of 60mm.

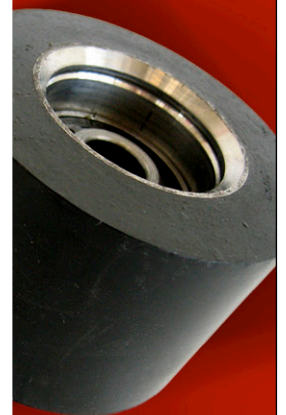


RR90F.BD

Dimensions GR

Material	M
Cast iron	GY
Flange diameter	F
Equiped with	U...
Threaded axle	AM
Hollow axle M16	BD
Hollow axle M20	BT
Hollow axle M16 short	BN
Bearing houses	LK
Bore	GB

Type	F	U1	U2	U3	U4	U5	U6	M	Description
GR60F	109	AM	BD		BN	LK		GY	Roller
GR60Z		AM	BD		BN	LK		GY	Roller
GR80F	130	AM	BD	BT	BN	LK	GB	GY	Roller
GR80Z		AM	BD	BT	BN	LK		GY	Roller
GR90F	126	AM	BD	BT		LK		GY	Roller
GR90Z		AM	BD	BT		LK		GY	Roller
GR100F	140	AM	BD	BT		LK	GB	GY	Roller
GR100Z		AM	BD	BT		LK		GY	Roller
GR110F	136	AM	BD	BT		LK		GY	Roller
GR180F	220	AM	BD		BN	LK	GB	GY	Roller
GR180Z	170	AM	BD		BN	LK	GB	GY	Roller



Our rollers have a working width of 60mm. Therefore this dimension is left away in the roller code. To be able to supply suitable rollers in other cases, we also have rollers in other widths. There are also rollers available in special versions such as rollers with a nylon core.

Below you can find a list with special rollers.

Dimensions special

Material	M
Cast iron	GY
Polyurethane	PU
Rubber	R
Flange diameter	F
Equiped with	U...
Threaded axle	AM
Hollow axle M16	BD
Hollow axle M20	BT
Hollow axle M16 short	BN
Bearing houses	LK

Type	F	U1	U2	U3	U4	U5	M	Description
GR60ZL40		AM	BD			LK	GY	Roller
GR70ZL40		AM	BD			LK	GY	Roller
KR80FT	110				BN		PU	Roller
KR80ZT					BN		PU	Roller
KR95FT	130				BN		PU	Roller
KR95ZT					BN		PU	Roller
RR70ZL35		AM	BD			LK	R	Roller
RR90FL29	130	AM	BD			LK	R	Roller
RR90FL37	130	AM	BD			LK	R	Roller
RR90FL52	130		BD				R	Roller
RR90FL80	130	AM	BD			LK	R	Roller
RR90FN	130	AM	BD		BN	LK	R	Roller
RR90FR	130	AM	BD			LK	R	Roller
RR90ZL32		AM	BD			LK	R	Roller
RR90ZL43		AM	BD			LK	R	Roller
RR90ZN					BN		R	Roller
RR110FL80	170	AM	BD			LK	R	Roller





KR70ZL40.BN



KR95FT.BN.OK



KR95ZT.BN.OK

As several machine brands supply their own spare parts, sometimes our standard rollers will not fit. Below you can find rollers which are meant to fit specific brands.



RR132FT



RR95FG.BN.OK



RR75ZG.BN.OK

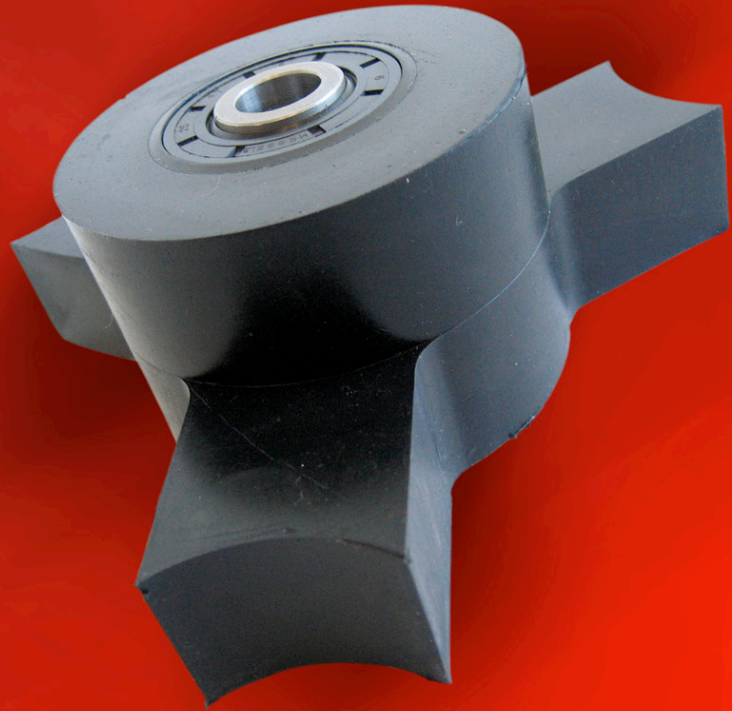


Dimensions

material M
 Cast iron GY
 rubber R

Type	M	Code	Description
Grimme			
Keerrol_Grimme_1-rij_GR	GY	H20002869	Return roller
Keerrol_Grimme_1-rij_RR	R	H20029585	Return roller
Keerrol_Grimme_Combi	R	H20009305	Return roller
Keerrol_Grimme_Midden	R	H20009304	Return roller
RR75ZG.AM16x40.6K.B25x8.OK	R		Support roller
RR75ZG.BN.OK	R	H20004396	Support roller
RR95FG.AM16x40.6K.B25x3.OK	R	H20004529	Support roller
RR95FG.BN.OK	R	H20027584	Support roller
RR95ZG.AM16x40.6K.B25x8.OK	R	H20007970	Support roller
RR95ZG.BN.OK	R	H20008433	Support roller
RR194ZL80T.GT40.SP12	R	H07600637	Pressure roller
Hagedorn			
RR75ZT.AM24x28.VK.B35x7.OK	R	H20002869	Support roller
RR130ZL40.AM24x40.VB.B30x15.OK	R	H20029585	haulm feed in roller
Miedema			
Keerrol_Miedema	GY	HFC105	Return roller
Wühlmaus			
Keerrol_Wuehlmaus	GY	H0000300200	Return roller
RR95ZG.AM20x25.VB.B25x8.OK	R	H0000303000	Support roller
RR194ZL80T.AM20x30.VB.B25x3.OK	R		haulm feed in roller
Matrot			
RR90F148L48.AM18x30.VB.B30x40.OK	R	HAUT100107	Support roller
RR90F148L48.AMT18x30.VB.B30x10.OK	R	HAUT100109	Support roller
RR90Z.AM18x30.VB.B30x40.OK	R	HAUT100106	Support roller
Sterbo			
Keerrol_Sterbo	GY		Return roller





Special rollers

To increase the sieve capacity, shakers (RS) can be mounted under the web. Our shakers are universally applicable to every pitch.

We have 3 types of shakers available, RSH and RSG, both out of rubber with a cast iron core, and the KSH, out of polyurethane.

Dimensions RS

Material	M
Polyurethane	PU
Rubber	R
Radius	RA
Equiped with	U...
Threaded axle	AM
Hollow axle M16	BD
Hollow axle M16 short	BN
Bearing houses	LK

Type	RA	U1	U2	U3	U4	M	Description
RSG	54	AM	BD	BN	LK	R	Shaker
RSH	82	AM	BD		LK	R	Shaker
KSH	82			BN		PU	Shaker



KSH.BD



RSG.AM16X40.VK.B25X11

The roller type (RP) is a rubber bearing race, in which a bearing can be pressed. This rollers are used in light conditions only.

Dimensions RP

Material M
 Rubber R
 Diameter D
 Bearing house LK
 Bearing house width LKB

Type	D	LK	LKB	M	Description
RP64/26	64	47	14	R	Bearing race
RP82/44	82	52	14	R	Bearing race
RP82/80	82	52	46	R	Bearing race
RP82/100	82	52	48	R	Bearing race
RP95/58	95	47	30	R	Bearing race



RP82/44.LK47



RP82/44.IM12



The smallest support rollers are the nylon rollers (**NR**). These rollers have a hole to fit a bolt.

Dimensions NR

Material M
PVC PVC
Nylon N
Diameter D
length L
Hole diameter ø

Type	D	L	ø	M	Description
NR65.GT10	67	24	10	N	Nylon roller
NR65.GT12	67	24	12	N	Nylon roller
NR80.GT10	80	35	10	N	Nylon roller
NR100.GT12	100	35	12	N	Nylon roller
PRW	59	35	20	PVC	PVC-roller
NR70	70	50	10	N	Nylon roller



NR65.GT10

For cleaning of sugar beet we have cleaning stars. These stars have 3 legs and they suit a square axle of 50 x 50mm.

Dimensions BR

Material M
Polyurethane PU
Width B
Radius R
Square hole []

Type	B	R	[]	M	Description
BR60/3	60	102	50	PU	Beet cleaner
BR70/3	70	102	50	PU	Beet cleaner



BR60/3





Rubber and plastic parts

In order to increase the capacity of a haulm web, haulm fingers (**RL**) can be mounted.

When ordering complete haulm fingers it is important that you indicate the right pitch of the web.

Dimensions RL

Material M
Rubber R
Length L
Hole ø

Type	D	L	ø	M	Description
RLC	67	85		R	Haulm finger complete
RL80	67	78	8	R	Haulm finger
RL120	80	120	15	R	Haulm finger
RLS	100	80	7	R	Haulm finger with dish
RLT	59	63	9	R	Haulm finger conical
RLHAK	70	116	10	R	R Haulm finger special





RLHAK



RL80



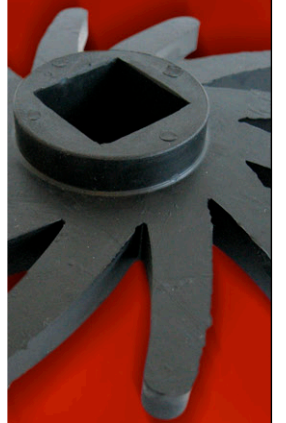
RLC



RLT



RLS



Also we have an assortment of grading discs (SR). Below you can find the table with dimensions.

Dimensions RS

Material M
Rubber R
Diameter D
Hub width NB
Total width TB
Square hole []

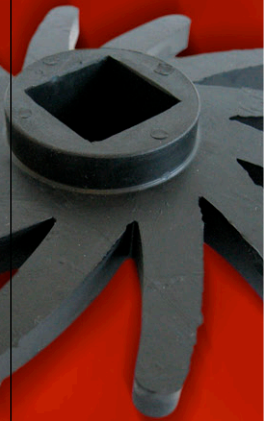
Type	D	NB	TB	[]	M	Description
SRH	88	42		30	R	Grading disc
SR170	170				R	Grading disc
SRW10	100	0	10	15	R	Grading disc
SRW20	100	10	20	15	R	Grading disc
SRW27	100	17	27	15	R	Grading disc
SRW32	100	22	32	15	R	Grading disc
SRW37	100	27	37	15	R	Grading disc



SRH



SRW27



On this page you can find our assortment of sieve stars.

Dimensions ST

Material	M
Rubber	R
Polyurethane	PU
Hub width	NB
Radius	RA
Square hole	[]

Type	RA	NB	[]	M	Description
STR6V	80	38/30	30/32	R	6 finger star
STR12V	80	38/30	30/32	R	12 finger star
AT2000	81	38	35	R	12 finger star
Megastar_234	117	40	40	PU	10 finger star
Megastar_256	128	40	40	PU	10 finger star



STR6V



Megastar_234

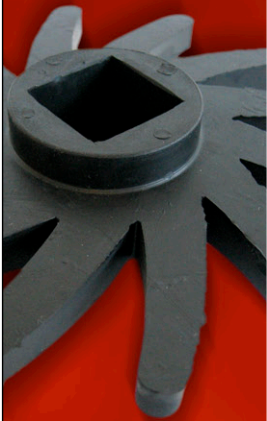


Our sieve spiders (**SP**) are made of rubber and have a hardness of 65° shore A.

Dimensions ST

Material M
Rubber R
Hub width NB
Radius RA
Square hole []

Type	RA	NB	[]	M	Description
SPR4P	87	26	25	R	Spider 4 fingers
SPR6P	87	26	25	R	Spider 6 fingers
SPR8P	87	26	25	R	Spider 8 fingers
SPR10P	87	26	25	R	Spider 10 fingers
SPR12P	87	26	25	R	Spider 12 fingers



SPR6P

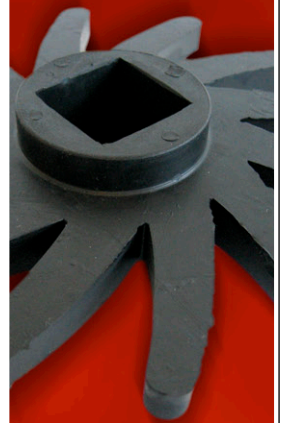


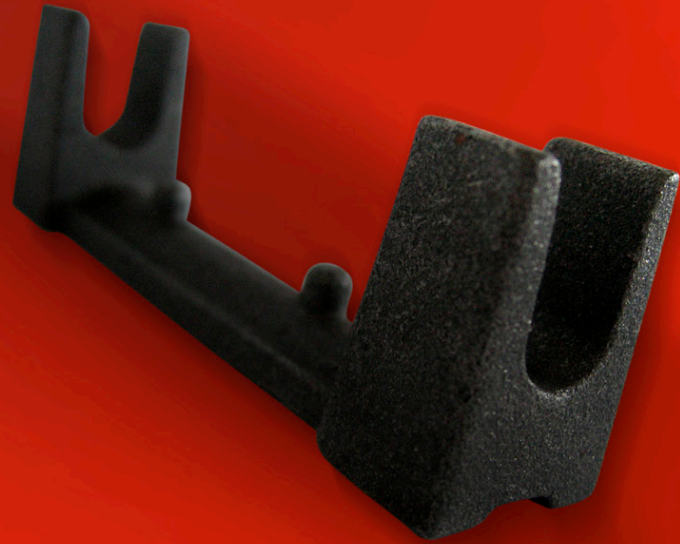
Spiral roller

Dimensions Spiral roller

Material M
 Polyurethane PU
 Width B
 Diameter D
 Square hole []
 Color KL

Type	B	D	[]	M	KL	Description
links	405	90	35	PU	yellow	Spiral roller
rechts	405	90	35	PU	yellow	Spiral roller





Attachement material

On the next pages you can find the attachment materials (**BM**) for sieve webs.



BMK



BMMK



BMP



BML

Dimensions BM

Type	Description
BMK 5x...	Rivet ø5mm
BMK 6x...	Rivet ø6mm
BMK 5x... rvs	Rivet, stainless
BMB M5x20	Bolt
BMB M6x20	Bolt
BMB M5x30	Bolt
BMB M6x30	Bolt
BMB M5x30 rvs	Bolt stainless
BMB M5x... +	Bolt with nut
BMB M6x... +	Bolt with nut
BMB M5x... + rvs	Bolt with nut stainless
BMM M5	Nut
BMM M6	Nut
BMM M5 rvs	Nut stainless
BML M5	Weld nut
BML M6	Weld nut
BML M5 rvs	Weld nut, stainless
BML M6 rvs	Weld nut, stainless
BMD 20xM5	Threaded plate
BMD 20xM6	Threaded plate
BMD 30xM5	Threaded plate
BMD 30xM6	Threaded plate
BMD 32xM5	Threaded plate
BMD 32xM6	Threaded plate
BMD 20xM5 rvs	Threaded plate stainless
BMD 32xM5 rvs	Threaded plate stainless



Dimensions BM

Type	Description
BMP 20x5	Rivet plate
BMP 24x5	Rivet plate
BMP 30x5	Rivet plate
BMP 32x5	Rivet plate
BMP 20x6	Rivet plate
BMP 30x6	Rivet plate
BMP 32x6	Rivet plate
BMP 20x5 rvs	Rivet plate, stainless
BMP 32x5 rvs	Rivet plate, stainless
BMP 32x6 rvs	Rivet plate, stainless
BMPL M5x20	Weld nut plate
BMPL M5x32	Weld nut plate
BMPL M6x20	Weld nut plate
BMPL M6x32	Weld nut plate
BMMB...(20x5)	Centre clip
BMMB...(32x5)	Centre clip
BMMB... rvs (32x5)	Centre clip, stainless
BMMH (x5)	Centre clip half
BMMK 20x5	Clamp clip
BMMK 32x5	Clamp clip
BMMK 20x5 rvs	Clamp clip stainless
BMMK 32x5 rvs	Clamp clip stainless
BMMG	Centre clip, type Grimme
BMPZG	BMPZG 4 - hole plate for SLZG
BMG20	Belt clip / buckle
BMA2	Riemverbinder
BMA4	Riemverbinder
BMAlligator	Riemverbinder



All parts which are used in our rollers are available as accessories (**RA**). See the table on next page for the codes.



RAK47



RARL47/25



RAN47



RAV47/25



RAL6005



RAO478



Dimensions RA

Bearing house LK

Type	LK	Description
RAL6005 (2RS 47/25)	47	Bearing
RAL6204 (2RS 47/20)	47	Bearing
RAL6205 (2RS 52/25)	52	Bearing
RAL6206 (2RS 62/30)	62	Bearing
RAL6305 (2RS 62/25)	62	Bearing
RALNTN6005 (LLU 47/25)	47	Bearing
RALNTN6205 (LLU 52/25)	52	Bearing
RALNTN6206 (LLU 62/30)	62	Bearing
RAK47	47	Bearing cap
RAK47/25	47	Bearing cap
RAK52	52	Bearing cap
RAK52/25	52	Bearing cap
RAK62	62	Bearing cap
RAK62/30	62	Bearing cap
RAN47	47	Bearing cap
RAV47/25	47	Oil seal
RAV52/25	52	Oil seal
RAV62/30	62	Oil seal
RAO478	47	Oil seal
RAO528	52	Oil seal
RAO628	62	Oil seal
RARB		Retainer ring
RARS		Washer ring
RARV		Spring ring
RARL47/25		Segment ring



Type	Description
DVPD70	Perlon wire (70 metres)
DVPD100	Perlon wire (100 metres)
DVVB20	Spring clip for DVPD (ø 20 mm)
DVTN	Vibration block
DVOM	Fill block for hedgehog bar E30
DVRV	Edge finger
DVPVH	Pendel finger Hagedorn
DVPVW	Pendel finger Wühlmaus
DVMB	Flight protection profile
DVDK	Wire clamp
DVPR	Pelring
DVLH	Glue and hardener for overlap joints
DVVD	stone trap
DVKB	Rivet protection
DVGT	Grimme rubber bag
DVWTK51	Wühlmaus bag long
DVWTK52	Wühlmaus bag short
DVKZF	Haulm spring



DVGT



DVPVH

