PRODUCT CATALOGUE

SCHOLZE

Partner in the World of Weaving

WHAT MAKES A MILL COMPETITIVE

The history of Scholze is rich in tradition. Since the end of the 1950's, the company has been producing weaving accessories on site in the Hessian town Frankenberg-on-the-Eder.

After economically troublesome times, the Erich Scholze GmbH + Co. KG was taken-over in 2009 and is now producing under the name **Scholze Germany GmbH**.

The product programme of the full-range supplier is currently comprised of the following items: Back and loom beams in various designs, sectional warp beams, bobbins, canisters, cloth beams, tubes and flanges.

The company Scholze Germany GmbH is actually employing about 60 workers, having acquired excellent special knowledge and long-term experience.

The original Scholze Germany products are still a world-wide trademark for utmost standards as regards quality and know-how, sophisticated production methods, innovation and comprehensive competence.

SCHOLZE GERMANY BACK BEAMS

Back beams made by Scholze Germany have been successfully in worldwide use for decades. The precisely matched entity of flange and tube is the decisive criterion for a high user benefit.

Insulating felt, spray-galvanising and smoothing, electrogalvanising or phosphatising are methods used for the tube surfaces, essentially affecting a uniform warping quality. The back beams are most advantageously located by means of bevel toothing.In addition, journal or steep taper locations are possible too.

The back beam flanges may be ribbed, single- or double-walled. Ribbed or single-walled flanges may be used for warping speeds of about 1,600 m/min. High warping speeds are exclusively and advantageously ensured by Scholze Germany doublewalled flanges.

For high speeds

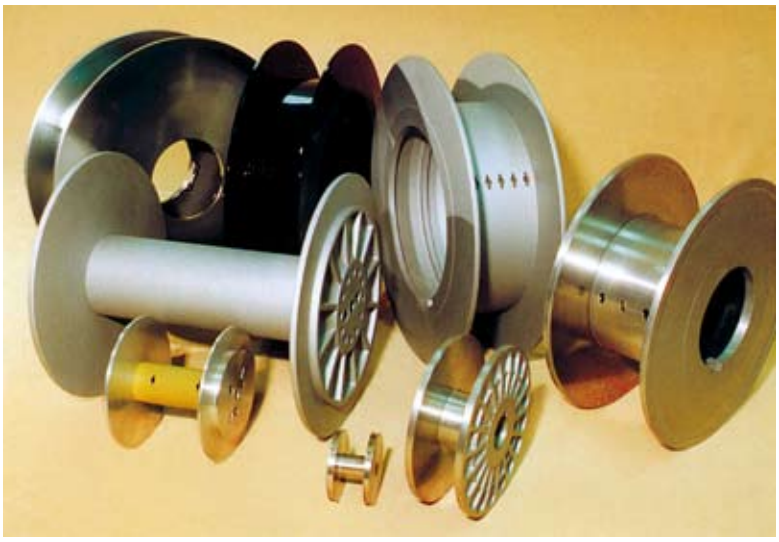
When using ribbed flanges, soiling of yarns is increasing at higher speeds due to the fan effect and the energy demand is rising. Thanks to the use of the smooth high-speed flange, these handicaps are prevented.

For ever larger flange diameters, the use of Scholze Germany doublewalled flanges is advisable.

All Scholze Germany back beams are dynamically balanced according to G 6.3 in accordance with the regulations of the warpingframe manufacturer.

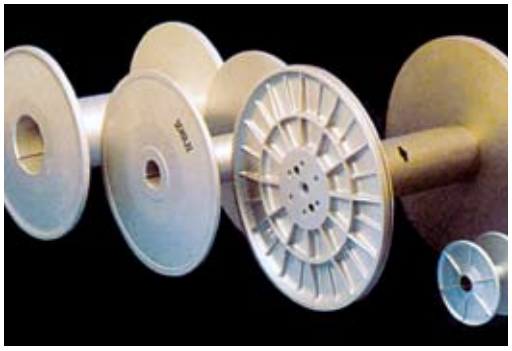
Suggested application

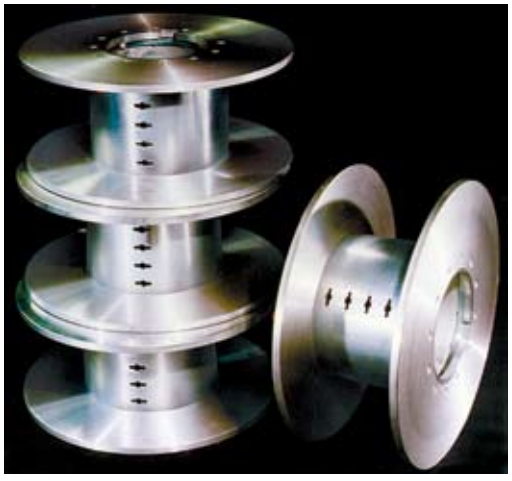
Quality-class		Tube surface	Tube diameter at a flange diameter of up to 1,000 mm	as from 1,250 mm
Q1	Ribbed flange of full material:	Insulating felt or lacquered	300 mm (steel sheet)	450 mm
Q2	Doublewalled flanges:	Insulating felt or lacquered	300 mm (steel sheet)	450 mm
Q3	Doublewalled flanges:	electro-galvanised or lacquered	320 mm (steel tube)	450 mm
Q4	Doublewalled flanges:	electro-galvanised or lacquered	320 mm (steel tube)	450 mm



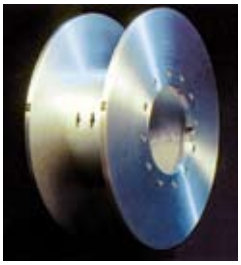
One-part or joined (bolted) bobbins and canisters made of aluminium and steel

SCHOLZE GERMANY CANISTERS AND BOBBINS



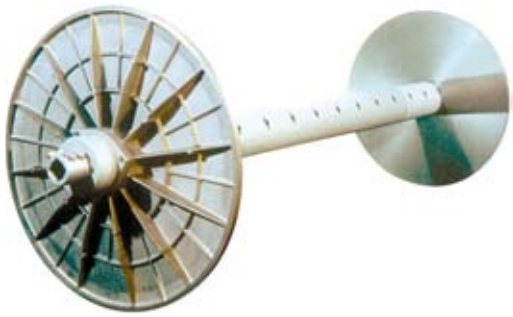


- One-part canisters made of spheroidal cast steel or aluminium are used in heavy weaving for the production of wire, glass or manmade fibre meshes and filter cloth
- Steel canisters in bolted assemblies for heavy weaving – also available specially lacquered
- Canisters for felt weaving
- Split beams for use on knitting machines
- Aluminium bobbins for ribbon weaving, one- or multi-part, cast or pressed

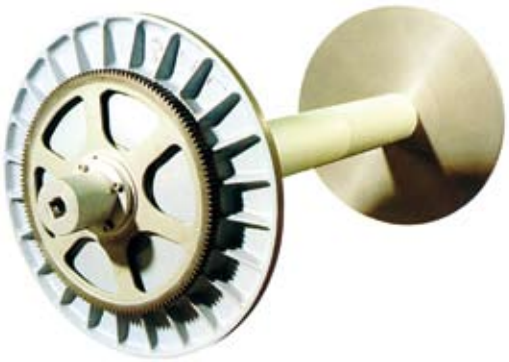


SCHOLZE GERMANY LOOM BEAMS AND SECTIONAL WARP BEAMS

Loom beams made by Scholze Germany are sub-assemblies that offer sophisticated designs for permanent and perfect use thanks to the combination of tube, flanges and locks. Precision steel tubes are used exclusively and can be surface-treated on request. The zinc-aluminium spray-metallizing method has stood the test in practice, combining the benefit of corrosion protection with the yarn entrainment effect without any need for knot holes or adhesive tapes.



As to beam flanges, Scholze Germany offers a completely overlapping assortment, including ribbed flanges, flat flanges and universally applicable double-walled flanges, featuring a loading capacity being up to 2.5 times higher than conventional ribbed flanges.



Magnum beams with flange diameters of up to 1,600 mm will ensure long machine running times.

Inside surfaces of flanges are well suited to working with yarns, and perfect crosssections of the rims ensure an excellent quality of the end product.

Oriented solutions for the Japanese market

Scholze Germany supplies warp beams in full-length or sectional warp beam design to Japanese loom manufacturers for all quality classes. TOYOTA/TSUDAKOMA warp beams are distinguished by two principal designs:

- Journal location
- Bearing-ring (Toyota)
  or adapter location (Tsudakoma)

TOYOTA

TSUDAKOMA

All variants can be supplied either with or without driving gear. The available beam flange diameters range from 600 up to 1,250 mm. Beam flanges in ribbed design are used for quality classes Q1 through Q3 and ATLAS double-walled flanges for Q4.

SCHOLZE GERMANY TUBES

Double-slotted knot hole

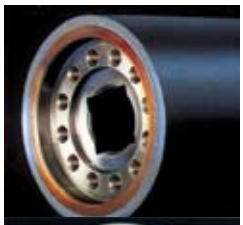
Warp beam tubes made by Scholze Germany add to, combined with the functionally matched flanges, a sub-assembly that guarantees permanent and perfect application. Sophisticated constructive designs and the exclusive use of precision steel tubes with uniform wall thickness lay the foundations – an essential quality feature, particularly in the range of threads.

Included in the Scholze Germany product range are standard warp beam tubes according to DIN with diameters of 150, 219.1 and 270 mm, provided with the sturdy flat thread. On particular request Scholze Germany also produces tubes in customised dimensions.

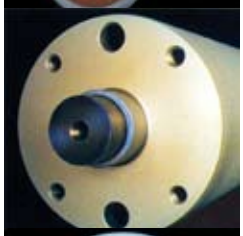
Thanks to their constructive design and the largely dimensioned cross sections, Scholze Germany warp beam tubes ensure high load absorption and quick adjustability. Force-fit connection and centring between tube and flange are achieved by means of the Scholze Germany locking system. All components are interchangeable thanks to standardised manufacture.

All beam tubes may be surface-treated. Preference is given by the users to the zinc-aluminium spray-metallizing method. The fine grain will provide for an excellent surface adherence. Further to the benefit of excellent protection against corrosion by the special surface finish (schoopage), the effect of yarn entrainment is so high that knot holes or adhesive tapes are redundant in most cases.

Smooth run is permanently ensured for the flange's range of adjustment. Electro-galvanising features another kind of surface treatment mainly used for non-elastic warp yarn materials, such as glass or fibreglass.



Tube end face recessed for mounting of various adapters



Pike tube, end with drive bores

Pike tube, end with drive bores

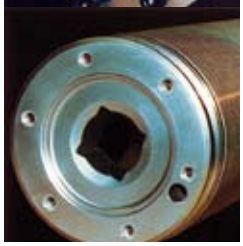
Tube with necked-in flange and 4 locking screws

Pike tube, end face with driving bores

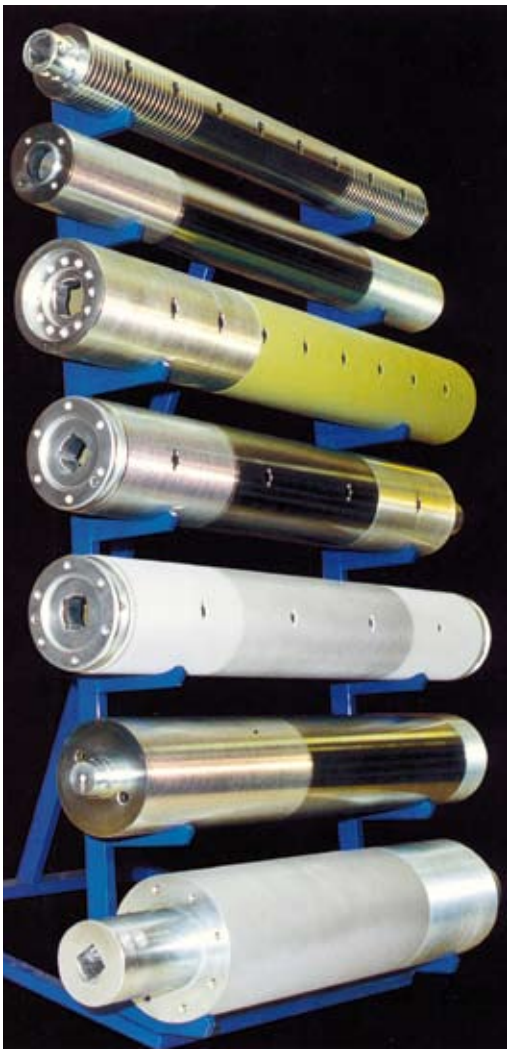
Pike tube, end face with driving bores

Tube with exterior flange, centric or eccentric guide and locking screws

Coupling end for fixed flanges (twin beams)



Euro tube 1 with 6 driving bores, Euro tube 2 with 9 driving bores



Dornier, Sulzer/ITEMA

Somet

Schönherr, Van de Wiele

Picanol GTM, Euro beam
with six or nine thread bores

Euro beam with six or nine
thread bores and one set screw
Picanol, Dornier, Sulzer/ITEMA

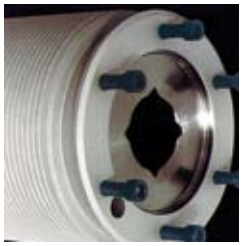
Toyota/Tsudakoma

Sulzer Textil Jumbo
tube P 7100/P 7200

Use and quality classification

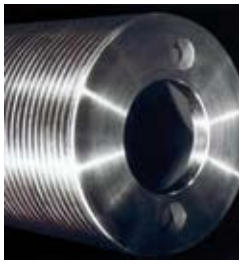
- Minimum wall thickness below thread 3.7 mm: max. flange diameter of 800 mm with knot holes, knot holes generally with a spacing of 320 mm and the like
- Minimum wall thickness below thread 6.0 mm: max. flange diameter of 1,000 mm with knot holes, knot holes generally with a spacing of 320 mm
- Minimum wall thickness below thread 7.5 mm: flange diameter beyond 1,000 mm, available with and without knot holes
- Minimum wall thickness below thread 12.5 mm, smooth: generally available without knot holes, smooth tube when using manmade continuous filament yarns

Universal bearing support,
outside, complete with
locking screws



Euro beam DIN ISO, with six
or nine bolting

Universal bearing support,
inside, complete with
locking screws



Open-ended tube with
driving slots

Fixed ribbed flange
with bearing ring

Flange with technical specifications

SCHOLZE GERMANY FLANGES

Radially ribbed
warp beam flange

Ribbed flanges

- predominantly for use with natural fibre yarns, with the exception of silk
- good cost-to-benefit ratio for low compressive loads
- for a fixed program of weaving with loom beams of equal size which are seldom, if ever, changed
- a low-cost alternative with all of the quality characteristics of Scholze Germany beam flanges
- heavy flanges in higher quality classes, which will allow yarns of greater bulk to be accepted, are available

Double-walled flange Compact

Double-walled back beam
flange, High-speed flange,
type "Atlas",
Quality class 2 through 4

Double-walled flanges

- complete coverage of all quality classes, therefore suitable from lightest up to heaviest loads
- very slight deflection, high elasticity and minimal deformation together result in the virtual avoidance of trapped threads
- no whirl effects and reduced injury hazards due to smooth outside
- easier handling due to their greater mass-to-efficiency ratio (2.5 times the stiffness of conventional ribbed flanges of the same weight)
- availability of customised forming to meet unusual demands

Beam flanges made by Scholze Germany are the result of comprehensive experience in textile technology as well as product and production engineering. Seventy-five seasoned years of manufacturing and confidential, cooperative work with both loom manufacturers and end-users stand behind each flange we sell.

Beam flanges in system

Scholze Germany offers a complete assortment of flanges to cover all conceivable weaving circumstances. A completely overlapping system of ribbed flanges, flat flanges and universally applicable double-walled flanges provide this flexibility. Among the simplest and most cost-effective flanges are our ribbed flanges, generally suited to the currently fashionable natural fibres. Best suited to manmade fibres are our smooth-surfaced, double-walled Atlas flanges, capable of running at high speeds, yet without the bothersome "fan effect". Diameters of up to 1,600 mm (the "Magnum" flange) are available.

All beam flanges made by Scholze Germany have got a surface – in natural or anodized aluminium – that is particularly well suited to working with yarns. The rims, furthermore, have cross-sections designed to avoid the problems that are otherwise known from the contact of the threads with the flange.

Double-walled flange

Double-walled “Atlas” flange recommended for use with manmade fibres and high warp speeds

Double-walled “Record” flange recommended for use with fibres with a high portion of manmade fibres

Double-walled “Compact” flange recommended for use with reclaimed fibres

Radially ribbed warp beam flange Q1–Q3

Standard back beam flange

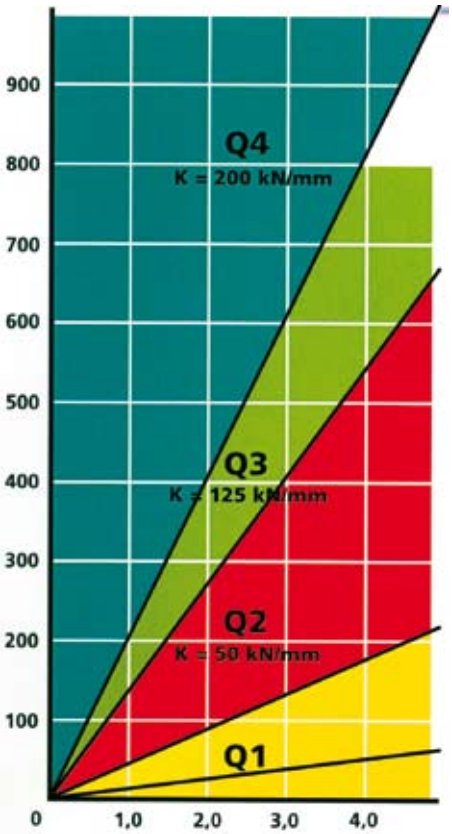
Fixed flange for half-length warp beams in small width, light design

Fixed flange for half-length warp beams, medium design

Fixed flange for half-length warp beams, steel with bearing ring attached, heavy design

Category of demands to be met by flanges pursuant to DIN ISO 8116 – T4

The deflection curve of a flange must run in the associated range of quality classes specified thereto.



200 kN/mm ≤ Q4

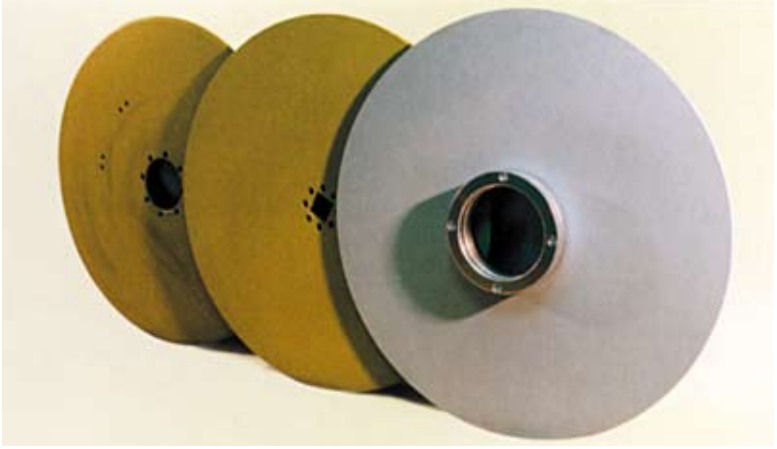
125 kN/mm ≤ Q3 < 200 kN/mm

50 kN/mm ≤ Q2 < 125 kN/mm

20 kN/mm ≤ Q1 < 50 kN/mm

A surface well-suited to yarns

Special steel flanges
of any dimensions



Light metal lock ring

Axial lock "Special"
together with a
double-walled warp
beam flange for high
beamspeeds and high
outer diameters

Fixed steel flanges with stainless surface and drive plates attached,
all typical diameters (800 through 1,600 mm) are available in the quality classes Q2, 3 and 4

Axial lock ring

Bearing ring for fixed flanges, turned, drilled, hardened, ground, phosphatized
for all loom types in question

Axial lock for exact
run of flanges
without axial runouts

Locks

For force-fit connection and centring of tube and flange, Scholze Germany has developed a system of locks that meets optimally the different demands in practical use. The Scholze Germany lock system is comprised of the components:

- lock ring
- radial lock
- axial lock

and is used in dependence on the loading circumstances.

Scholze Germany offers suitable cloth beams and associated handling equipment for all loom systems.

The surfaces of cloth beams may be optionally:

- aluminium tubes, smooth
- aluminium tubes, lengthwise fluted
- steel tubes with through slot

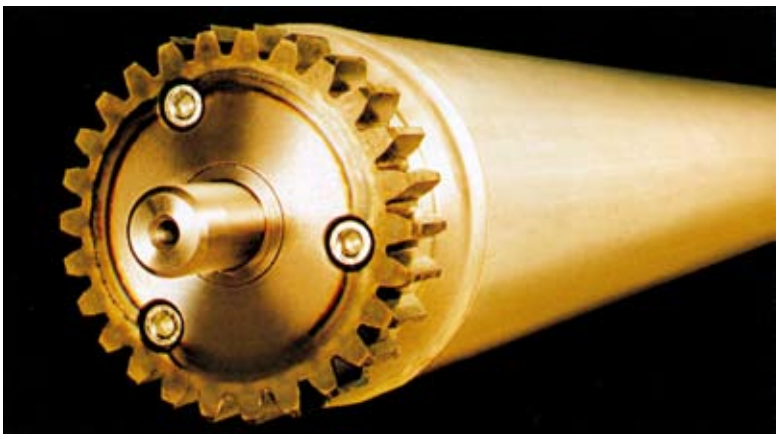
Surface finish methods:

- metallized by zinc spraying method
- chrome-steel plated
- lacquered

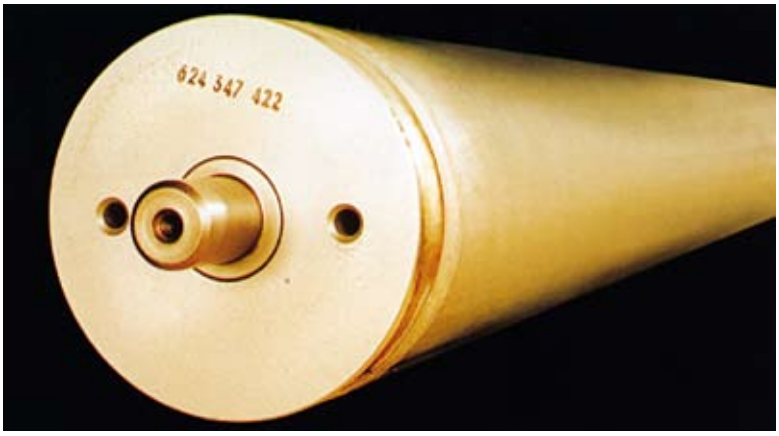
Cloth beam, surface lengthwise fluted, metallized by zinc spraying method

Cloth beam, surface metallized by zinc spraying method

SCHOLZE GERMANY CLOTH BEAMS



Euro cloth beam with guide slot and gear on one side



Euro cloth beam, aluminium tube, metallized by zinc spraying method or plated with 13 % chrome steel

Sulzer Textil, P-machine

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