

The logo for Paul Wegner Maschinenmesser features a red parallelogram on the left containing the white letters 'pw'. To the right, the word 'paulwegner' is written in a dark blue, lowercase sans-serif font, with 'paul' and 'wegner' on the same line. Below 'paulwegner', the words 'MASCHINENMESSER' are written in a smaller, dark blue, uppercase sans-serif font.

paulwegner
MASCHINENMESSER

A close-up, low-angle photograph of a large industrial machine, likely a lathe or grinding mill, used for manufacturing knives. The machine's surface is highly polished and reflects light, creating a series of horizontal, blurred lines that suggest motion. The background is dark and out of focus, emphasizing the metallic texture and industrial setting.

Manufacture of industrial Knives

About us

Over 100 years ago the Paul Wegner Company was founded in Hagen Germany in 1908. Since then, Paul Wegner the first factory owner established a company with excellent quality, outstanding service, and still assuring a traditional company environment. The family business developed to a well-known Paper Blade Company domestically as well as internationally throughout these years. Next to the paper industry the Paul Wegner GmbH & Co. KG also focuses on the food industry, the chemistry industry as well as the automotive and colour industry. Due to the variety of products and the exceptional quality the Paul Wegner foundation advanced to a recognized business in its branch.

„We love what we do and we do it with passion“

This motto represents the company's values and attitudes towards its customers. As a family business our main goal is to create a sustainable economy and to guarantee our employees a safe workplace. The Paul Wegner GmbH & Co. KG is a four-generation business, which aims to improve its competition internationally and to further ensure the best quality for our customers.

Branches

- Paper Industry
- Food Industry
- Colour Industry
- Chemistry Industry
- Automotive Industry

Product Portfolio

- Coating Blades / with Tungsten Carbide
- Creping Blades / with Ceramic
- Doctor Blades Metal / with Tungsten Carbide
- Doctor Blades Plastic
- Metering Rods - Rollflexblades
- Sealing Blades
- Limiting Plates
- Scraper Knives
- Special Knives
- Sliding Knife for die casting machines

Development

The main focus of the Paul Wegner GmbH & Co. KG is the satisfaction of our customers. It has highest priority for our business to have a wide and individual customer support. Our team is always encouraged to find the best solution for our customers and their product needs and wishes. The Paul Wegner Company is well known all over the world for the variety of its products, the excellent product quality and the long time experience. Get informed about the special fields of applications the Paul Wegner products offer and be a part of our family business.



Coating Blades

Paul Wegner Coating Blades - the result of continuous technical development Since many years our customers and partners believe in the high qualities and strong

controlling measurements of Paul Wegner coating blades. Optimal coating and satisfied customers are our aspiration.

Qualities

Alloy No.:
1.1274 (AISI 1095)

Length:
After your specification

Angle degree:
Like your specification

Description:
C 100 S

Standard-width in mm:
20 - 200

Standard-thickness in mm:
0.25 / 0.305 / 0.381 / 0.40 / 0.457 /
0.508 / 0.60 / 0.635

Hardness:
HRC: 52 - 55
HV: 550 - 600

Tensile strength:
1800 - 2000 N/mm²

Surface:
blue polished



Alloy No.:
1.1274 (AISI 1095)

Length:
After your specification

Angle degree:
Like your specification

Description:
C 100 S

Standard-width in mm:
20 - 200

Standard-thickness in mm:
0.25 / 0.305 / 0.381 / 0.40 / 0.457 /
0.508 / 0.60 / 0.635

Hardness:
HRC: 52 - 55
HV: 550 - 600

Tensile strength:
1800 - 2000 N/mm²

Surface:
greyish blue



Alloy No.:
1.1274 (AISI 1095)

Length:
After your specification

Angle degree:
Like your specification

Description:
C 100 S

Standard-width in mm:
20 - 200

Standard-thickness in mm:
0.25 / 0.305 / 0.381 / 0.40 / 0.457 /
0.508 / 0.60 / 0.635

Hardness:
HRC: 52 - 55
HV: 550 - 600

Tensile strength:
1800 - 2000 N/mm²

Surface:
bright polished



Alloy No.:
1.4310 (AISI 301)

Length:
After your specification

Angle degree:
Like your specification

Description:
X10CrNi18-8

Standard-width in mm:
20 - 200

Standard-thickness in mm:
0.25 / 0.305 / 0.40 / 0.457 /
0.508 / 0.60

Hardness:
HRC: 46 - 49
HV: 460 - 500

Tensile strength:
1500 - 1700 N/mm²

Surface:
bright



Coating Blades

Further technical parameter

Tolerance

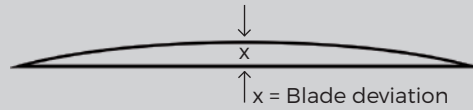
Width in mm:
76.2 +/- 0.15
84 +/- 0.15
100 +/- 0.15

Thickness in mm:
0.305 - 0.635 +/- 0.015

Angle degree:
+/- 1.5°

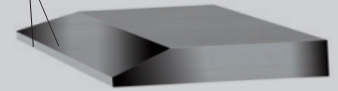
Straightness

Max. deviation exceeding
0.4 mm per 4 m length



Roughness

0.2 µm or better

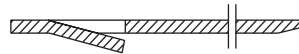


Design

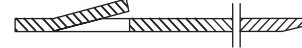
Individual design:

Attrition indicators
Notches
Bevel protection

Notches like drawing



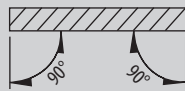
Notches like drawing



Bevel

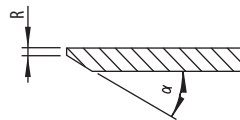
Typ 1

ground squared edges
1 x 90° or 2 x 90°



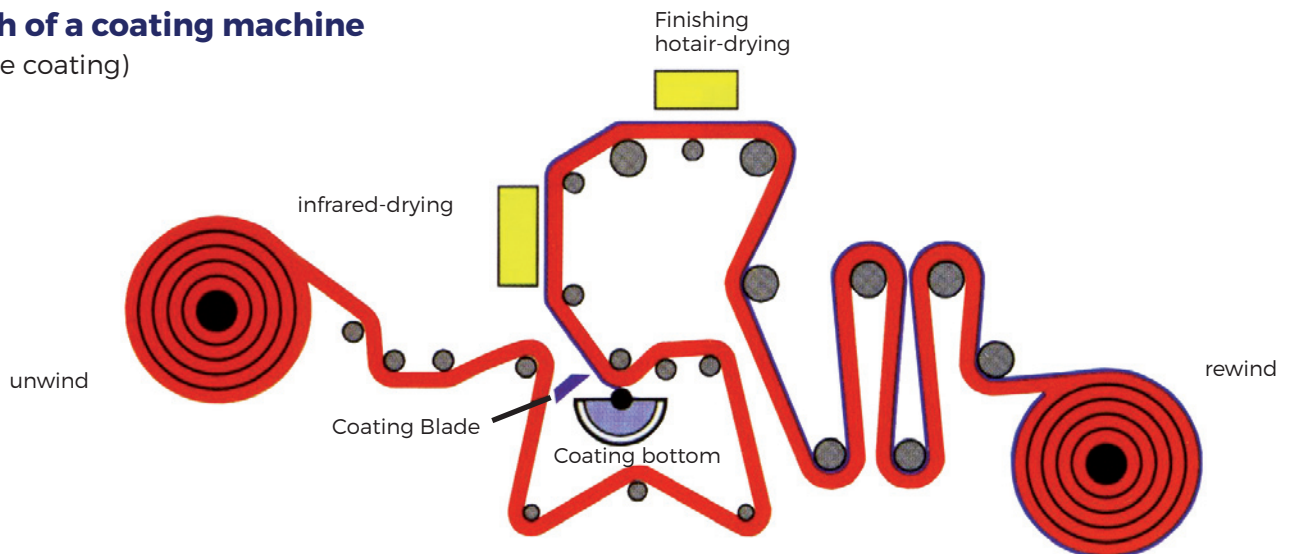
Typ 2

oneside bevel (standard)
5° - 90°



Sketch of a coating machine

(oneside coating)



Coating Blades with Tungsten Carbide

Due to the permanent technical development in coated paper through the last years it has to become more and more necessary to obtain coating blades with a longer

life-time and special applications. Get in touch with this technology and try the improved coating blades with a ceramic or tungsten carbide coating on the top.

Qualities

Alloy No.:
1.1274 (AISI 1095)

Length:
After your specification

Angle degree:
Like your specification

Description:
C 100 S

Standard-width in mm:
20 - 100

Hardness:
HRC: 52 - 55
HV: 550 - 600

Standard-thickness in mm:
0.305 / 0.381 / 0.40 / 0.457
0.508 / 0.60 / 0.635

Tensile strength:
1800 - 2000 N/mm²

Surface:
blue polished

Coating

Substrate:
Carbon steel

Lay:
Tungsten Carbide

Hardness Tungsten Carbide:
approx. 1200 HV

Colour Tungsten Carbide:
silver



Alloy No.:
1.1274 (AISI 1095)

Length:
After your specification

Angle degree:
Like your specification

Description:
C 100 S

Standard-width in mm:
20 - 100

Hardness:
HRC: 52 - 55
HV: 550 - 600

Standard-thickness in mm:
0.305 / 0.381 / 0.40 / 0.457
0.508 / 0.60 / 0.635

Tensile strength:
1800 - 2000 N/mm²

Surface:
greyish blue

Substrate:
Carbon steel

Lay:
Tungsten Carbide

Hardness Tungsten Carbide:
approx. 1200 HV

Colour Tungsten Carbide:
silver



Alloy No.:
1.1274 (AISI 1095)

Length:
After your specification

Angle degree:
Like your specification

Description:
C 100 S

Standard-width in mm:
20 - 100

Hardness:
HRC: 52 - 55
HV: 550 - 600

Standard-thickness in mm:
0.305 / 0.381 / 0.40 / 0.457
0.508 / 0.60 / 0.635

Tensile strength:
1800 - 2000 N/mm²

Surface:
bright polished

Substrate:
Carbon steel

Lay:
Tungsten Carbide

Hardness Tungsten Carbide:
approx. 1200 HV

Colour Tungsten Carbide:
silver



Information

All coating blades are also available with a ceramic coating like Aluminium-Oxid (AL₂O₃) or Chrome-Oxid (Cr₂O₃). Please feel free to contact our personal staff for more information.

Coating Blades with Tungsten Carbide

Further technical parameter

Tolerance

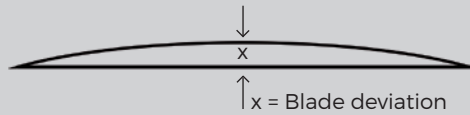
Width in mm:
76.2 +/- 0.15
84 +/- 0.15
100 +/- 0.15

Thickness in mm:
0.305 - 0.635 +/- 0.015

Angle degree:
+/- 1.5°

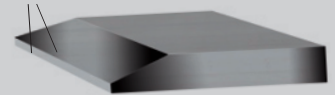
Straightness

Max. deviation exceeding
0.4 mm per 4m length



Roughness

0.2 µm or better



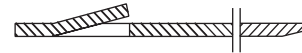
Design

Individual design:
Attrition indicators
Notches
Bevel protection

Notches like drawing

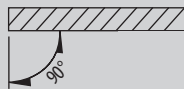


Notches like drawing

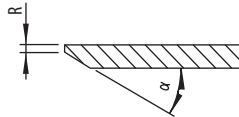


Bevel

Typ 1
ground squared edges
1 x 90°

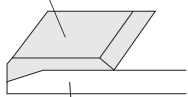


Typ 2
oneside bevel (standard)
5° - 90°

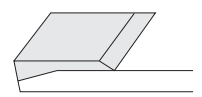
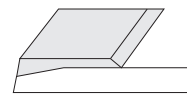
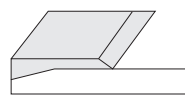
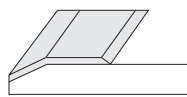


Processes of the coating (Tungsten Carbide and Ceramic)

Coating lay



base



Creping Blades

Tissue, paper towels or toilet paper. Belief in our long time experience and know how in manufacturing creping blades for different tissue industries.

Qualities

Alloy No:
1.0605 (AISI 1075)

Description:
C 75 S

Hardness:
HRC: 48 - 52
HV: 490 - 550

Tensile strength:
1600 - 1800 N/mm²

Length:
After your specification

Standard width in mm:
100 / 110 / 114 / 120 / 125 / 127 / 130

Standard thickness in mm:
0.9 / 1.0 / 1.25 / 1.27 / 1.5

Surface:
blue polished

Design:

1. with cut edges, straightened
2. straightened, grinded 90° on both sides
3. with one or both sides bevelled from 50-85°



Alloy No:
1.0605 (AISI 1075)

Description:
C 75 S

Hardness:
HRC: 48 - 52
HV: 490 - 550

Tensile strength:
1600 - 1800 N/mm²

Length:
After your specification

Standard width in mm:
100 / 110 / 114 / 120 / 125 / 127 / 130

Standard thickness in mm:
0.9 / 1.0 / 1.25 / 1.27 / 1.5

Surface:
greyish blue

Design:

1. with cut edges, straightened
2. straightened, grinded 90° on both sides
3. with one or both sides bevelled from 50-85°



Alloy No:
1.0605 (AISI 1075)

Description:
C 75 S

Hardness:
HRC: 48 - 52
HV: 490 - 550

Tensile strength:
1600 - 1800 N/mm²

Length:
After your specification

Standard width in mm:
100 / 110 / 114 / 120 / 125 / 127 / 130

Standard thickness in mm:
0.9 / 1.0 / 1.25 / 1.27 / 1.5

Surface:
bright polished

Design:

1. with cut edges, straightened
2. straightened, grinded 90° on both sides
3. with one or both sides bevelled from 50-85°



Alloy No:
1.1274 (AISI 1095)

Description:
C 100 S

Hardness:
HRC: 52 - 55
HV: 550 - 600

Tensile strength:
1800 - 2000 N/mm²

Length:
After your specification

Standard width in mm:
100 / 110 / 114 / 120 / 125 / 127 / 130

Standard thickness in mm:
0.9 / 1.0 / 1.25 / 1.27 / 1.5

Surface:
blue polished

Design:

1. with cut edges, straightened
2. straightened, grinded 90° on both sides
3. with one or both sides bevelled from 50-85°



Alloy No:
1.1274 (AISI 1095)

Description:
C 100 S

Hardness:
HRC: 52 - 55
HV: 550 - 600

Tensile strength:
1800 - 2000 N/mm²

Length:
After your specification

Standard width in mm:
100 / 110 / 114 / 120 / 125 / 127 / 130

Standard thickness in mm:
0.9 / 1.0 / 1.25 / 1.27 / 1.5

Surface:
greyish blue

Design:

1. with cut edges, straightened
2. straightened, grinded 90° on both sides
3. with one or both sides bevelled from 50-85°



Creping Blades

Qualities

Alloy No:
1.1274 (AISI 1095)

Description:
C 100 S

Hardness:
HRC: 52 – 55
HV: 550 – 600

Tensile strength:
1800 – 2000 N/mm²

Length:
After your specification

Standard width in mm:
100 / 110 / 114 / 120 / 125 / 127 / 130

Standard thickness in mm:
0.9 / 1.0 / 1.25 / 1.27 / 1.5

Surface:
bright polished

- Design:**
1. with cut edges, straightened
 2. straightened, grinded 90° on both sides
 3. with one or both sides bevelled from 50-85°



Alloy No:
1.4021 (AISI 420)

Description:
X20Cr13

Hardness:
HRC: 47 – 50
HV: 470 – 520

Tensile strength:
1500 – 1700 N/mm²

Length:
After your specification

Standard width in mm:
100 / 110 / 114 / 120 / 125 / 127 / 130

Standard thickness in mm:
1.25

Surface:
bright polished

- Design:**
1. with cut edges, straightened
 2. straightened, grinded 90° on both sides
 3. with one or both sides bevelled from 50-85°



Alloy No:
2.1020 (Bronze)

Description:
Cu Sn 6

Hardness:
HB: 200 – 230

Tensile strength:
650 – 740 N/mm²

Length:
After your specification

Standard width in mm:
100 / 114 / 120 / 125 / 127 / 130

Standard thickness in mm:
0.9 / 1.0 / 1.25 / 1.5

Surface:
bronze

- Design:**
1. with cut edges, straightened
 2. straightened, grinded 90° on both sides
 3. with one or both sides bevelled from 50-85°



Creping Blades

Further technical parameter

Tolerance

	Coils	Creping Blades in length
Straightness	0.5 mm / 3 m	0.5 mm / 3 m
Width	+/- 0.5 mm	+/- 0.5 mm

Design

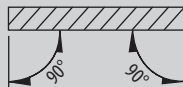
Individual design:

Chamfered Creping Blades

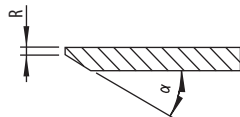


Bevel

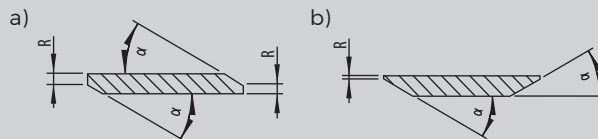
Typ 1
ground squared edges
1 x 90° or 2 x 90°



Typ 2
oneside bevel (standard)
5° - 90°

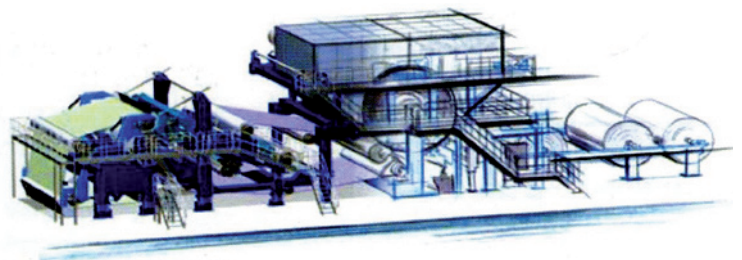


Typ 3
on both sides bevelled



Information

Regrinding of standard Creping Blades are possible. It would be a pleasure for us to submit you an individual offer.



Creping Blades with Ceramic

Due to the permanent technical development in tissue through the last years it has to become more and more necessary to obtain creping blades with a longer life-

time and special applications. Get in touch and try the improved creping blades with a ceramic or tungsten carbid coating on the top.

Qualities

Alloy No.:
1.0605 (AISI 1075)

Length:
After your specification

Description:
C 75 S

Standard-width in mm:
100 / 110 / 114 / 120 / 125

Hardness:
HRC: 48 - 52
HV: 490 - 550

Standard-thickness in mm:
0.9 / 1.0 / 1.25 / 1.5

Tensile strength:
1600 - 1800 N/mm²

Surface:
blue polished

Design:

1. with cut edges, straightened
2. straightened, grinded 90° on both sides
3. with one or both sides bevelled from 50-85°

Coating

Substrate:
Carbon steel

Lay:
Ceramic

Hardness Ceramic:
approx. 1000 HV

Colour Ceramic:
grey



Alloy No.:
1.0605 (AISI 1075)

Length:
After your specification

Description:
C 75 S

Standard-width in mm:
100 / 110 / 114 / 120 / 125

Hardness:
HRC: 48 - 52
HV: 490 - 550

Standard-thickness in mm:
0.9 / 1.0 / 1.25 / 1.5

Tensile strength:
1600 - 1800 N/mm²

Surface:
greyish blue

Design:

1. with cut edges, straightened
2. straightened, grinded 90° on both sides
3. with one or both sides bevelled from 50-85°

Substrate:
Carbon steel

Lay:
Ceramic

Hardness Ceramic:
approx. 1000 HV

Colour Ceramic:
grey



Alloy No.:
1.0605 (AISI 1075)

Length:
After your specification

Description:
C 75 S

Standard-width in mm:
100 / 110 / 114 / 120 / 125

Hardness:
HRC: 48 - 52
HV: 490 - 550

Standard-thickness in mm:
0.9 / 1.0 / 1.25 / 1.5

Tensile strength:
1600 - 1800 N/mm²

Surface:
bright polished

Design:

1. with cut edges, straightened
2. straightened, grinded 90° on both sides
3. with one or both sides bevelled from 50-85°

Substrate:
Carbon steel

Lay:
Ceramic

Hardness Ceramic:
approx. 1000 HV

Colour Ceramic:
grey



Alloy No.:
1.1274 (AISI 1095)

Length:
After your specification

Description:
C 100 S

Standard-width in mm:
100 / 110 / 114 / 120 / 125

Hardness:
HRC: 52 - 55
HV: 550 - 600

Standard-thickness in mm:
0.9 / 1.0 / 1.25 / 1.5

Tensile strength:
1800 - 2000 N/mm²

Surface:
blue polished

Design:

1. with cut edges, straightened
2. straightened, grinded 90° on both sides
3. with one or both sides bevelled from 50-85°

Substrate:
Carbon steel

Lay:
Ceramic

Hardness Tungsten Carbide:
approx. 1000 HV

Colour Ceramic:
grey



Alloy No.:
1.1274 (AISI 1095)

Length:
After your specification

Description:
C 100 S

Standard-width in mm:
100 / 110 / 114 / 120 / 125

Hardness:
HRC: 48 - 55
HV: 490 - 550

Standard-thickness in mm:
0.9 / 1.0 / 1.25 / 1.5

Tensile strength:
1600 - 1800 N/mm²

Surface:
greyish blue

Design:

1. with cut edges, straightened
2. straightened, grinded 90° on both sides
3. with one or both sides bevelled from 50-85°

Substrate:
Carbon steel

Lay:
Ceramic

Hardness Ceramic:
approx. 1000 HV

Colour Ceramic:
grey



Creeping Blades with Ceramic

Qualities

Alloy No.:
1.1274 (AISI 1095)

Length:
After your specification

Description:
C 100 S

Standard-width in mm:
100 / 110 / 114 / 120 / 125

Hardness:
HRC: 52 – 55
HV: 550 – 600

Standard-thickness in mm:
0.9 / 1.0 / 1.25 / 1.5

Tensile strength:
1800 – 2000 N/mm²

Surface:
bright

Design:

1. with cut edges, straightened
2. straightened, grinded 90° on both sides
3. with one or both sides bevelled from 50-85°

Coating

Substrate:
Carbon steel

Lay:
Ceramic

Hardness Ceramic:
approx. 1000 HV

Colour Ceramic:
grey



Alloy No.:
1.4021 (AISI 420)

Length:
After your specification

Description:
X20Cr13

Standard-width in mm:
100 / 114 / 120 / 125

Hardness:
HRC: 47 – 50
HV: 470 – 520

Standard-thickness in mm:
1.25

Tensile strength:
1600 – 1800 N/mm²

Surface:
bright polished

Design:

1. with cut edges, straightened
2. straightened, grinded 90° on both sides
3. with one or both sides bevelled from 50-85°

Substrate:
Stainless steel

Lay:
Ceramic

Hardness Ceramic:
approx. 1000 HV

Colour Ceramic:
grey



Alloy No.:
2.1020 (Bronze)

Length:
After your specification

Description:
Cu Sn 6

Standard-width in mm:
100 / 114 / 120 / 125

Hardness:
HB: 200 – 230

Standard-thickness in mm:
1.0 / 1.2 / 1.5

Tensile strength:
650 – 740 N/mm²

Surface:
bronze

Design:

1. with cut edges, straightened
2. straightened, grinded 90° on both sides
3. with one or both sides bevelled from 50-85°

Substrate:
Bronze

Lay:
Ceramic

Hardness Ceramic:
approx. 1000 HV

Colour Ceramic:
grey



Creping Blades with Ceramic

Further technical parameter

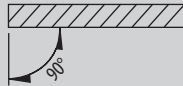
Tolerance

	Coils	Creping Blades in length
Straightness	0.5 mm / 3 m	0.5 mm / 3 m
Width	+/- 0.5 mm	+/- 0.5 mm

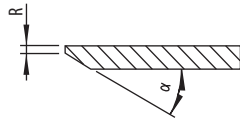
Design

Bevel

Typ 1
ground squared edges
1 x 90°

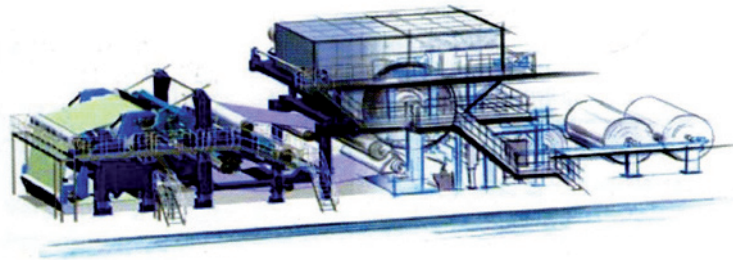


Typ 2
oneside bevel (standard)
5° - 90°



Information

Please notice that it is not possible to regrind Creping Blades with a Ceramic or Tungsten Carbide coating lay.





Doctor Blades – Metal

Different industries need different types of blades & knives. Combine your individual metal doctor blade for

your needed applications. High qualities and strong controlling measurements guarantee optimal results.

Qualities

Material-No.:
PW 100

Description:
Cold rolled and hardened

Range of application:
Depending on roll cover material

Alloy No.:
2.4375 (Monel)

Tensile strength:
850 – 1050 N/mm²

- Breast Rolls
- Press Rolls
- Steel Calanders

Description:
Ni Cu 30 AL

Surface:
bright



Hardness:
HRC: 26 – 32
HV: 270 – 320

Material-No.:
PW 110

Description:
Acid resistant and cold rolled

Range of application:
Depending on roll cover material

Alloy No.:
2.1020 (Bronze)

Tensile strength:
650 – 740 N/mm²

- Dryers
- Reel Drum
- Steel Calanders

Description:
Cu Sn 6

Surface:
bronze cold rolled



Hardness:
HB: 200 – 230

Material-No.:
PW 130

Description:
Cold rolled stainless steel
(18% chrome)

Range of application:
Depending on roll cover material

Alloy No.:
1.4310 (AISI 301)

Tensile strength:
1500 – 1700 N/mm²

- Hard rubber

Description:
X10CrNi18-8

Surface:
bright



Hardness:
HRC: 46 – 49
HV: 460 – 500

Material-No.:
PW 140

Description:
Hardened and tempered
stainless steel (13% chrome)

Range of application:
Depending on roll cover material

Alloy No.:
1.4021 (AISI 420)

Tensile strength:
1500 – 1700 N/mm²

- Dryers
- Press Rolls

Description:
X20Cr13

Surface:
bright polished



Hardness:
HRC: 47 – 50
HV: 470 – 520

Material-No.:
PW 150

Description:
Hardened and tempered
carbon steel with 0.75% C

Range of application:
Depending on roll cover material

Alloy No.:
1.0605 (AISI 1075)

Tensile strength:
1500 – 1700 N/mm²

- Dryers
- Steel Calanders
- MG Cylinders
- Yankee Creping

Description:
C 75 S

Surface:
bright polished



Hardness:
HRC: 46 – 49
HV: 460 – 500

Doctor Blades – Metal

Qualities

Material-No.:
PW 160

Alloy No.:
1.1274 (AISI 1095)

Description:
C 100 S

Hardness:
HRC: 50 – 54
HV: 530 – 600

Description:
Hardened and tempered
carbon steel with 1.0% C

Tensile strength:
1800 – 2000 N/mm²

Surface:
bright polished

Range of application:
Depending on roll cover material

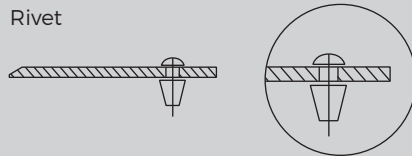
- Yankee Creping
- Dryers
- MG Cylinders



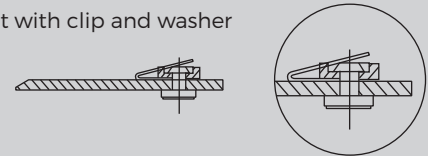
Design

Type of holder:
We deliver finished
Doctor Blades for
every type of holder
and system, e.g.

Rivet



Rivet with clip and washer

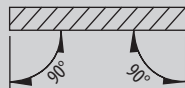


Individual design

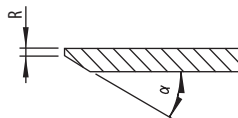
- Holes
- Slots
- Notches

Bevel

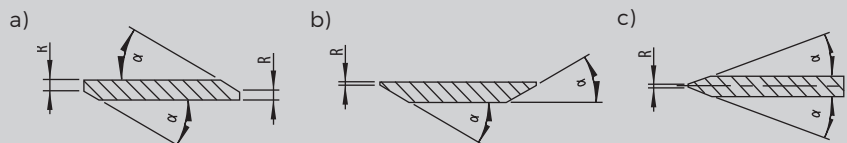
Typ 1
ground squared edges
1 x 90° or 2 x 90°



Typ 2
oneside bevel (standard)
5° - 90°



Typ 3
a) b) on both sides bevelled
c) double bevel



Doctor Blades with Tungsten Carbide

All metal-qualities are also available with a ceramic or tungsten carbide coating on the top of the blade. A longer

life-time and a lower friction coefficient of the blade are just two advantages of this improved technology.

Qualities

Material No.:
PW 100

Description:
Cold rolled and hardened

Range of application:
Depending on roll cover material

Alloy No.:
2.4375 (Monel)

Tensile strength:
850 - 1050 N/mm²

- Breast Rolls
- Press Rolls
- Steel Calanders

Description:
Ni Cu 30 AL

Surface:
bright

Hardness:
HRC: 26 - 32
HV: 270 - 320

Coating

Substrate:
Monel

Lay:
Tungsten Carbide

Hardness Tungsten Carbide:
approx. 1200 HV

Colour Tungsten Carbide:
silver



Material No.:
PW 110

Description:
Acid resistant and cold rolled

Range of application:
Depending on roll cover material

Alloy No.:
2.1020 (Bronze)

Tensile strength:
650 - 740 N/mm²

- Dryers
- Reel Drum
- Steel Calanders

Description:
Cu Sn 6

Surface:
bronze cold rolled

Hardness:
HB: 200 - 230

Substrate:
Bronze

Lay:
Tungsten Carbide

Hardness Tungsten Carbide:
approx. 1200 HV

Colour Tungsten Carbide:
silver



Material No.:
PW 130

Description:
Cold rolled stainless steel (18% chrome)

Range of application:
Depending on roll cover material

Alloy No.:
1.4310 (AISI 301)

Tensile strength:
1500 - 1700 N/mm²

- Hard rubber

Description:
X10CrNi18-8

Surface:
bright

Hardness:
HRC: 46 - 49
HV: 460 - 500

Substrate:
Stainless steel

Lay:
Tungsten Carbide

Hardness Tungsten Carbide:
approx. 1200 HV

Colour Tungsten Carbide:
silver



Material No.:
PW 140

Description:
Hardened and tempered stainless steel (13% chrome)

Range of application:
Depending on roll cover material

Alloy No.:
1.4021 (AISI 420)

Tensile strength:
1500 - 1700 N/mm²

- Dryers
- Press Rolls

Description:
X20Cr13

Surface:
bright polished

Hardness:
HRC: 47 - 50
HV: 470 - 520

Substrate:
Stainless steel

Lay:
Tungsten Carbide

Hardness Tungsten Carbide:
approx. 1200 HV

Colour Tungsten Carbide:
silver



Material No.:
PW 150

Description:
Hardened and tempered carbon steel with 0,75% C

Range of application:
Depending on roll cover material

Alloy No.:
1.0605 (AISI 1075)

Tensile strength:
1500 - 1700 N/mm²

- Dryers
- Steel Calanders
- MG Cylinders
- Yankee Creping

Description:
C 75 S

Surface:
bright polished

Hardness:
HRC: 46 - 49
HV: 460 - 500

Substrate:
Carbon steel

Lay:
Tungsten Carbide

Hardness Tungsten Carbide:
approx. 1200 HV

Colour Tungsten Carbide:
silver



Doctor Blades with Tungsten Carbide

Qualities

Material No.:
PW 160

Description:
Hardened and tempered carbon steel with 1,0% C

Alloy No.:
1.1274 (AISI 1095)

Tensile strength:
1500 - 1700 N/mm²

Description:
C 100 S

Surface:
bright polished

Hardness:
HRC: 50 - 54
HV: 530 - 600

Range of application:
Depending on roll cover material

- Yankee Creping
- Dryers
- MG Cylinders

Coating

Substrate:
Carbon steel

Lay:
Tungsten Carbide

Hardness Tungsten Carbide:
approx. 1200 HV

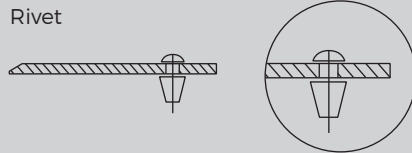
Colour Tungsten Carbide:
silver



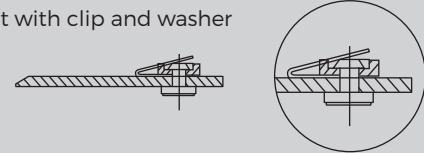
Design

Type of holder:
We deliver finished Doctor Blades for every type of holder and system, e.g.

Rivet



Rivet with clip and washer

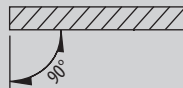


Individual design

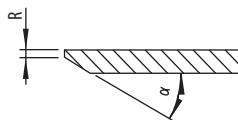
- Holes
- Slots
- Notches

Bevel

Typ 1
ground squared edges
1 x 90°



Typ 2
oneside bevel (standard)
5° - 90°



Doctor Blades Plastic

Since many years our customers and partners are very satisfied with the high qualities and strong controlling measurements of Paul Wegner Plastic Doctor Blades.

Generally we distinguish between different types of materials (duroplast Doctor Blades made from glassfiber, carbonfiber & woven and thermoplast Doctor Blades).

Composite with Glassfiber (SFGG)

Qualities

Material No.:
PW 200

Description:
Composite made from glassfiber with epoxy resin

Range of application:
Depending on roll cover material

Description:
SFGG Standard

Flexural strength:
380 N/mm²

- Cast iron rolls
- Press section
- Drying section

Colour:
light brown

Heat resistance:
175 °C



Material No.:
PW 205

Description:
Composite made from glassfiber with epoxy resin

Range of application:
Depending on roll cover material

Description:
SFGG green

Flexural strength:
380 N/mm²

- Cast iron rolls
- Drying cylinder
- Softkalander
- Size presses

Colour:
green

Heat resistance:
200 °C



Material No.:
PW 208

Description:
Composite made from glassfiber with epoxy resin

Range of application:
Depending on roll cover material

Description:
SFGG red

Flexural strength:
580 N/mm²

- Steel and cast iron rolls
- Drying cylinders

Colour:
red

Heat resistance:
185 °C



Material No.:
PW 210

Description:
Composite made from glassfiber with silicium carbid and epoxy resin

Range of application:
Depending on roll cover material

Description:
SFGG – silicium carbid with grit 120

Flexural strength:
380 N/mm²

- Steel and cast iron rolls
- Dirty drying cylinders

Colour:
anthracite

Heat resistance:
175 °C



Material No.:
PW 215

Description:
Composite made from glassfiber with silicium carbid and epoxy resin

Range of application:
Depending on roll cover material

Description:
SFGG – silicium carbid with grit 180

Flexural strength:
380 N/mm²

- Dirty drying cylinder
- Steel rolls

Colour:
anthracite

Heat resistance:
175 °C



Doctor Blades Plastic

Composite with Carbonfiber

Qualities

Material No.:
PW 220

Description:
Composite material made from glass epoxy and carbon fiber (contend 25% carbon)

Range of application:
Depending on roll cover material

Description:
Carbon fiber

Flexural strength:
380 N/mm²

- Press section
- Superkalander
- Dryers

Colour:
black

Heat resistance:
185 °C



Material No.:
PW 224

Description:
Composite material made from glass epoxy and carbon fiber (contend 50% carbon)

Range of application:
Depending on roll cover material

Description:
Carbon fiber

Flexural strength:
380 N/mm²

- Press section
- Superkalander
- Dryers

Colour:
black

Heat resistance:
185 °C



Material No.:
PW 226

Description:
Composite material made from glass epoxy and carbon fiber (contend 75% carbon)

Range of application:
Depending on roll cover material

Description:
Carbon fiber

Flexural strength:
380 N/mm²

- Press section
- Superkalander
- Dryers

Colour:
black

Heat resistance:
200 °C



Material No.:
PW 229

Description:
100% Carbon fiber with epoxy resin

Range of application:
Depending on roll cover material

Description:
Carbon fiber

Flexural strength:
380 N/mm²

- Press section
- Superkalander
- Dryers

Colour:
black

Heat resistance:
200 °C



Information

Our Doctor Blades with carbonfiber are also available with different grades of silicium carbid (120, 180, 240).

Doctor Blades Plastic

Composite with woven (MGFF)

Qualities

Material No.:
PW 230

Description:
Cotton phenolic

Range of application:
Depending on
roll cover material

Description:
Cotton phenolic

Flexural strength:
150 N/mm²

- Wet part

Colour:
light brown

Heat resistance:
130 °C



Material No.:
PW 240

Description:
Cotton phenolic
with lubricant

Range of application:
Depending on
roll cover material

Description:
Cotton phenolic
with lubricant

Flexural strength:
175 N/mm²

- Wet part

Colour:
anthracite-green

Heat resistance:
140 °C



Plastics without woven

Qualities

Material No.:
PW 250

Description:
PVC

Range of application:
Depending on
roll cover material

Description:
PVC

Heat resistance:
max. 70 °C

- Wet part

Colour:
red



Material No.:
PW 260

Description:
High Density Polyethylene

Range of application:
Depending on
roll cover material

Description:
HDPE

Heat resistance:
60 °C

- Wet part

Colour:
yellow, black, white



Material No.:
PW 270

Description:
Pertinax

Range of application:
Depending on
roll cover material

Description:
OG

Heat resistance:
120 °C

- Wet part
- Cooling cylinder
- Pope reel

Colour:
dark brown



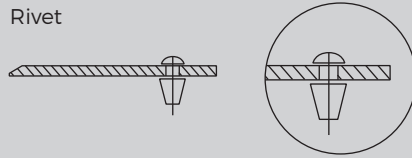
Doctor Blades Plastic

Design

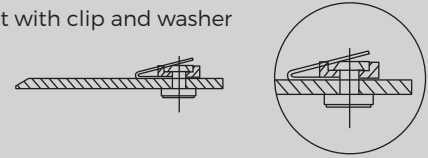
Type of holder:

We deliver finished Doctor Blades for every type of holder and system, e.g.

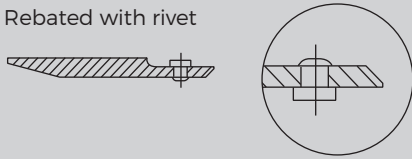
Rivet



Rivet with clip and washer



Rebated with rivet



Groove



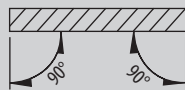
Individual design

- Holes
- Slots
- Notches

Bevel

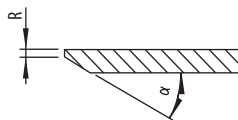
Typ 1

ground squared edges
1 x 90° or 2 x 90°



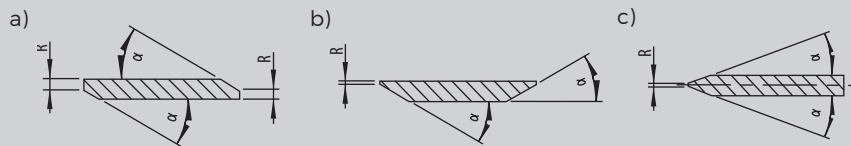
Typ 2

oneside bevel (standard)
5° - 90°



Typ 3

a) b) on both sides bevelled
c) double bevel



Metering Rods – Rollflexblades

Purify your raw paper with a high quality "Rakelstrich" and receive a overall package with our appropriated Rollflex-

blades. Our hard chromed Metering Rods are fine polished and usable for a dashweight from 4 up to 15 g/m².

Metering Rods

Qualities

Alloy No.:
1.4034 (AISI 420)

Standard Dimension in mm:
Ø 8.0 / 9.75 / 12.0

Range of application:

- One side coated papers
- Specialpapers
- Board

Description:
X46Cr13

Thickness of chrome coating:
50µm

Hardness:
HV: 150 – 210

Hardness of chrome coating:
ca. 1000 HV

Tensile strength:
500 – 710 N/mm²

Design:
fine polished



Rollflexblades

Qualities

Alloy No.:
1.4310 (AISI 301)

Length:
After your specification

Design:

- extreme good flatness and straightness
- with slots (one side or both side) like your specification

Description:
X10CrNi18-8

Standard-width in mm:
60 – 114

Hardness:
HRC: 46 – 49
HV: 460 – 500

Standard-thickness in mm:
0.30 – 1.0

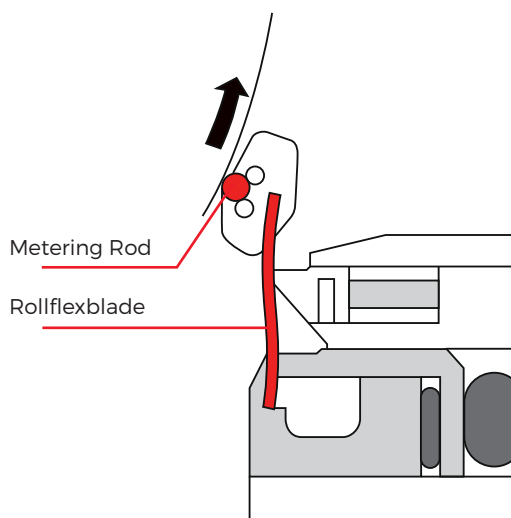
Tensile strength:
1500 – 1700 N/mm²

Surface:
bright polished



Schematic diagram of a coating unit

here: Metering Rod and Rollflexblade



Limiting Plates

We manufacture your individual Limiting Plate. Through our long time experience and the know how in the knife business our customers will receive a high technical

and accurate manufactured product. Feel free to contact our personal staff for more information and possible applications.

Qualities

Alloy No.:
1.1274 (AISI 1095)

Description:
C 100 S

Hardness:
HRC: 52 – 55
HV: 550 – 600

Tensile strength:
1800 – 2000 N/mm²

Length:
After your specification

Standard-width in mm:
up to 400

Standard-thickness in mm:
0.10 / 0.15 / 0.20 / 0.25 / 0.30 /
and more

Surface:
bright polished

- Design:**
- all edges deburred
 - in coil or cutted in length after your specification
 - rounded edges
 - with holes or slots like your specification



Alloy No.:
1.4310 (AISI 301)

Description:
X10CrNi18-8

Hardness:
HRC: 46 – 49
HV: 460 – 500

Tensile strength:
1500 – 1700 N/mm²

Length:
beliebig nach Ihren Angaben

Standard-width in mm:
up to 400

Standard-thickness in mm:
0.10 / 0.15 / 0.20 / 0.25 / 0.30 /
and more

Surface:
bright polished

- Design:**
- all edges deburred
 - in coil or cutted in length after your specification
 - rounded edges
 - with holes or slots like your specification



Sealing Blades

This high technology product is made from stainless steel and precisely produced after customer's individual

drawing. The main scope of application are the Speedsizers or Symsizers of a paper machine.

Qualities

Alloy No.:
1.4310 (AISI 301)

Description:
X10CrNi18-8

Hardness:
HRC: 46 - 49
HV: 460 - 500

Tensile strength:
1500 - 1700 N/mm²

Length:
After your specification

Standard-width in mm:
10 - 120

Standard-thickness in mm:
0.10 - 3.0

Surface:
bright polished

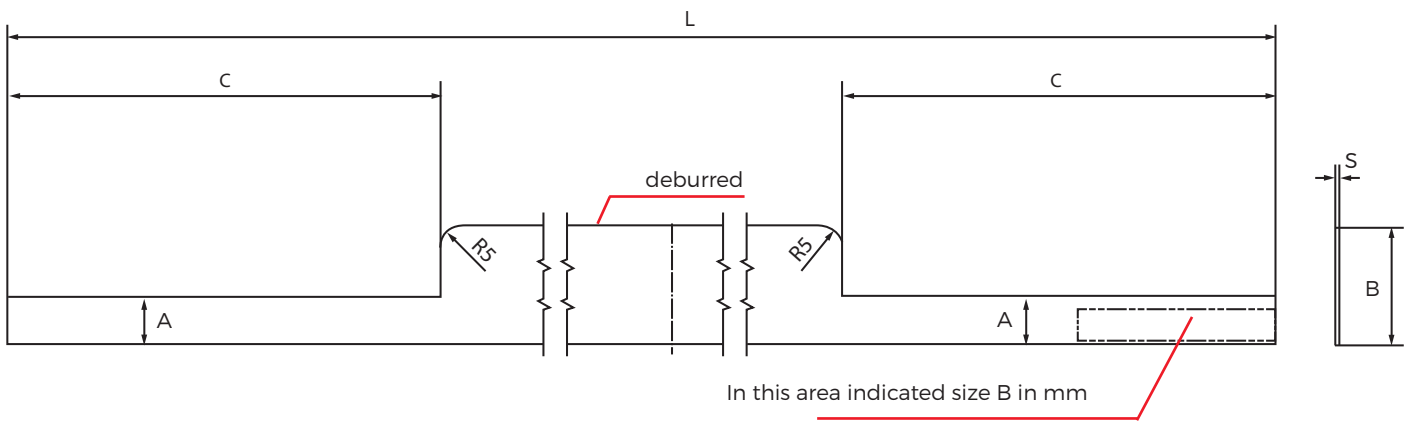
Design:
1. like customer specification

2. bended until 12m length and special equipment

Range of application:
• Speedsizer
• Symsizer



Further design



Information

Please feel free to contact us if you need an individual scope of application. We will precisely produce the Sealing Blade(s) after your drawing.

Scraper Knives

Wegner Scraper Knives are much recommended in different industries all over the world. Next to the Print and Colour industry, the textile and chocolate industry are one of the main purchasers. These knives are precisely

produced after customer's specifications. Feel free to contact our personal staff for more information and possible applications.

Qualities

Alloy No.:
1.1274 (AISI 1095)

Length:
In coil or cutted in length after your specification

Angle degree:
After your specifications

Range of application:

- Colour Industry
- Food Industry
- Printing Industry
- Textile Industry

Description:
C 100 S

Standard-width in mm:
19.05 / 22.2 / 25.4 / 30 / 40 / 50

Hardness:
HRC: 52 - 55
HV: 550 - 600

Standard-thickness in mm:
0.3 / 0.385 / 0.457 / 0.5 / 0.635

Design:

1. extreme good flatness and straightness

Tensile strength:
1800 - 2000 N/mm²

Surface:
blue polished

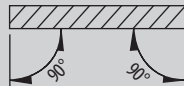
2. skived or cut deburred edges



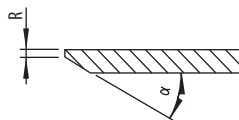
Design

Bevel

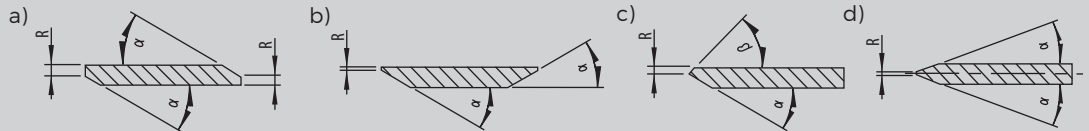
Typ 1
ground squared edges
1 x 90° or 2 x 90°



Typ 2
oneside bevel (standard)
5° - 90°



Typ 3
a) b) on both sides bevelled
c) d) double bevel



Special design

All Scraper Knives are also available with a additional inductively hardened edge.

Sliding Knife for die casting machines

Paul Wegner Sliding Knives – the fast way to high economy. We deliver different types of sliding knives to many industrial sectors

all over the globe. We are your reliable partner for sliding knives and efficient market solutions.

Qualities

Alloy No.:
1.0605 (AISI 1075)

Description:
C 75 S

Hardness:
HRC: 46 – 50
HV: 460 – 520

Tensile strength:
1500-1700 N/mm²

Length:
After your specification

Standard-width in mm:
80 – 200

Standard-thickness in mm:
1 – 3

Surface:
bright

Design:

- production process like your specification and drawing



Alloy No.:
1.4310 (AISI 301)

Description:
X10CrNi 18-8

Hardness:
HRC: 46 – 50
HV: 460 – 520

Tensile strength:
1500-1700 N/mm²

Length:
After your specification

Standard-width in mm:
80 – 225

Standard-thickness in mm:
1 – 3

Surface:
plasma nitrided and polished

Design:

- production process like your specification and drawing
- plasma nitriding



Alloy No.:
1.2312 (AISI P20+S)

Description:
40 CrMnMoS 6-8

Hardness:
HRC: 28 – 33
HV: 285 – 330

Tensile strength:
950-1100 N/mm²

Length:
After your specification

Standard-width in mm:
100 – 200

Standard-thickness in mm:
20 – 40

Surface:
fine polished

Design:

- production process like your specification and drawing
- plasma nitriding



Special Knives

Next to our comprehensive product portfolio of coating blades, doctor blades and many more, the Paul Wegner

GmbH & Co. KG also supplies many special knives for different industrial applications.

- Perforating cutters
- Serrated punch cutters
- Supporting Blades
- Cutter lines
- Perforating punch cutters
- Transverse perforating cutters for all endless print systems
- Knife folder
- Cut-Off Knives
- Sliding Knives
- Guillotine Knife
- Beater Knives
- Bedplate Knives



Service

Capable, flexible and reliable.

Next to the variety of our products and the outstanding product quality it is essential for our family business to

focus on our customer service. The well being of our customers has first priority and because of that we provide advisory services as well as efficient service tools.

Re grinding of

- Sheeter knives up to 4000 mm length
- Shear Blades
- Paper Cutting Knives
- Scrap-Chopper Knives

Bevelled of

- Steel
- Bronze
- Stainless Steel
- Monel-metal up to 300 kg coils (max. thickness of the material 2 mm)

Milling/cutting

- horizontal/vertical up to 2500 mm length
- Loading up to 500 kg



Paul Wegner GmbH & Co. KG

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Phone +49(0)2331 772 00 · Fax +49(0)2331 755 47
info@paul-wegner.de · www.paul-wegner.de



You will find the contact details of our worldwide distributors on our website.