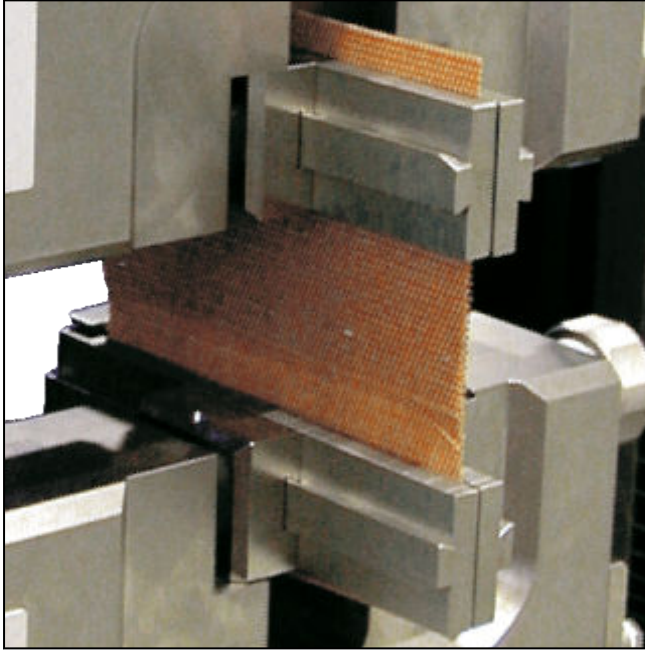


## Product Information

### Jaws type 8287 and 8487

CTA: 40817 40815



Jaws, steel, smooth



Jaws, convex aluminum against smooth vulkollan

#### Applications

The jaw inserts type 8287/8487 are used with the following specimen grips:

- Screw grips: Type 8133, 8253, 8354 and 8355
- Wedge grips (with integrated jaw mounting): Type 8201, 8302
- Wedge screw grips (with integrated jaw mounting): Type 8306, 8406
- Pneumatic grips: Type 8195, 8097, 8195, 8197, 8297, 8287, 8397, 8497, 8097, 8388, 8187
- Hydraulic grips: Type 8392
- Rope grips: Type 8370, 8470
- Grips with deflection (capstan grips): Type 8314, 8315

#### Function description

Jaws form the link between the specimen grip and the specimen. They introduce the gripping force generated in the specimen grip into the specimen by means of a force-fit. Suitable selection of the structure and hardness of the clamping surfaces ensures that the specimen is held securely.

There are three fundamentally different jaw systems:

- jaws integrated into the specimen grips
- special interchangeable jaws for the corresponding specimen grip
- jaw mountings with dove-tail system (for Type 8287 or 8487 jaws).

A wide range of jaws is available for all specimen grips employing the dove-tail jaw system. Changing the jaws is easy; they are pushed into the integrated jaw mounting and locked into place via a ball-lock system. Types 8287 and 8487 jaws can be used up to a specimen-grip tensile force of 20 kN.

The following criteria are of importance when selecting the jaws:

- jaw material plus hardness, temperature range and friction against the specimen material
- surface structure
- gripping area
- jaw thickness.

The criteria are set out in detail in the table below.

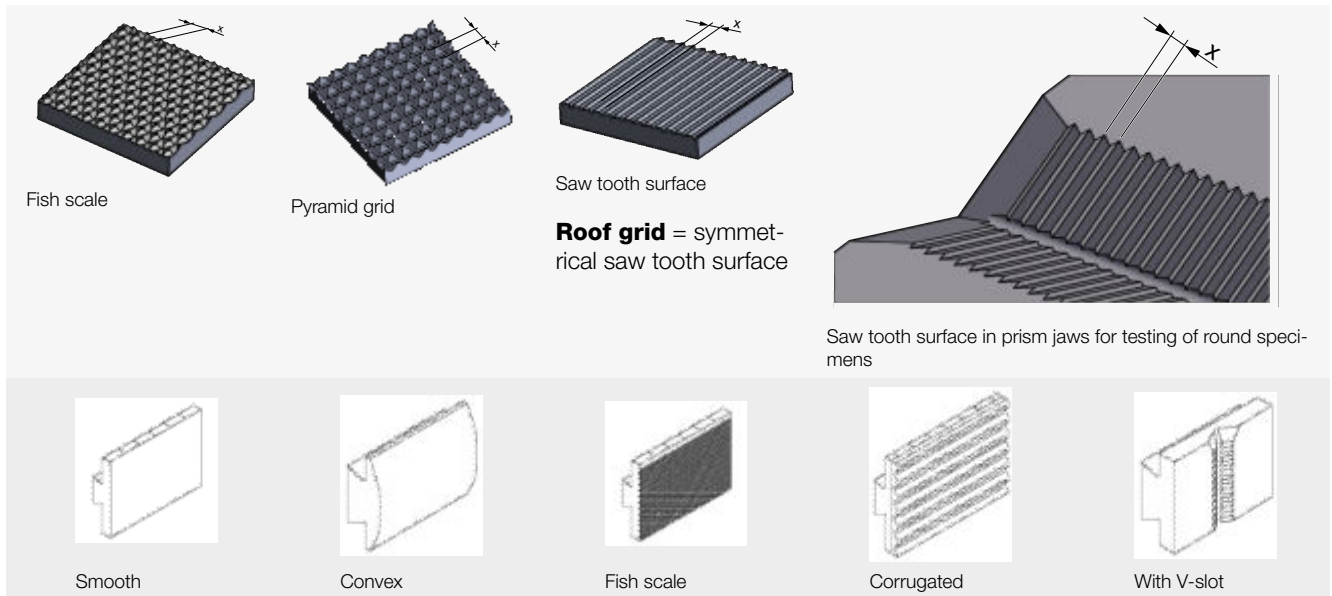
To simplify the layout of the jaw data table, the jaw material and surface structure are grouped under the heading "Version".

In case of doubt the selection of grips plus associated jaws can be checked by our experienced applications engineers or via preliminary testing in our Applications Test Laboratory.

## Product Information

Jaws type 8287 and 8487

### Various surface structures



## Product Information

### Jaws type 8287 and 8487

#### Jaws type 8487

Version	Clamping surface Height [mm]	Width [mm]	Ambient temperature [°C]	Hardness	Jaw thick- ness (dimension x) [mm]	Item No.
Non-slip coating	50	60	-15 ... +40	62 Shore A	5	314269
Non-slip coating	50	210	-15 ... +40	62 Shore A	10	315043
Vulkollan, smooth	50	60	-15 ... +80	88 ± 3 Shore (A)	5	313914
Vulkollan, smooth	50	210	-15 ... +80	88 ± 3 Shore (A)	10	314271
Vulkollan, smooth	50	110	-15 ... +80	88 ± 3 Shore (A)	10	343542
Vulkollan, corrugated	50	60	-15 ... +80	88 ± 3 Shore (A)	6	313988
Vulkollan, corrugated	50	210	-15 ... +80	88 ± 3 Shore (A)	12	315003
Steel, smooth	50	60	-80 ... +360	61 HRC	5	313916
Steel, smooth	50	210	-70 ... +250	Unhardened	10	315041
Steel, corrugated	50	60	-70 ... +250	Unhardened	6	313912
Steel, corrugated	50	210	-70 ... +250	Unhardened	12	314267
Steel, corrugated	70	60	-70 ... +250	Unhardened	6	318826
Steel, pr <sup>1)</sup> 0.7 mm	50	60	-80 ... +360	61 HRC	5	313910
Steel, pr <sup>1)</sup> 0.7 mm, with ejector	50	60	-70 ... +250	61 HRC	5	313918
Steel, fsc <sup>2)</sup> 0.4	50	60	-80 ... +360	61 HRC	5	313908
Steel, fsc <sup>2)</sup> 0.75	50	60	-80 ... +360	61 HRC	5	318996
Steel, fsc <sup>2)</sup> 1.25	50	60	-80 ... +360	61 HRC	5	318998
Corundum, 240 coarse	50	60	-70 ... +80	-	5	317661
Oxide ceramic <sup>3)</sup>	50	60	-70 ... +80	2300 N/mm <sup>2</sup> Hardness Knoop	5	313946

1) Pr = pyramid grid

2) Fsc = fish scale

3) Max. 20 kN gripping force

## Product Information

### Jaws type 8287 and 8487

#### Jaws type 8287

In the data table the criteria jaw material and surface structure are grouped under the term Version.

Scope of delivery for all items: 1 set = 4 pieces

Version	Clamping surface Height [mm]	Width [mm]	Ambient temperature [°C]	Hardness	Jaw thickness (dimension x) [mm]	Item No.
Non-slip coating	30	32	-15 ... +40	65 Shore A	5	314360
Non-slip coating with V-notch	30	32	-15 ... +40	65 Shore A	5.5	3003407
Non-slip coating with V-notch	30	32	-15 ... +40	65 Shore A	9	3003408
Vulkollan, smooth	30	32	-15 ... +80	88 ± 3 Shore (A)	5	313902
Vulkollan, smooth	30	60	-15 ... +80	88 ± 3 Shore (A)	6	314366
Vulkollan, smooth	30	110	-15 ... +80	88 ± 3 Shore (A)	5	315035
Vulkollan, smooth	50	32	-15 ... +80	88 ± 3 Shore (A)	5	318700
Vulkollan, smooth	25	50	-15 ... +80	88 ± 3 Shore (A)	5	316502
Vulkollan, smooth	25/30 <sup>1)</sup>	25/60 <sup>1)</sup>	-15 ... +80	88 ± 3 Shore (A)	5	315033
Vulkollan, corrugated	30	32	-15 ... +80	88 ± 3 Shore (A)	6	314358
Vulkollan, corrugated	30	60	-15 ... +80	88 ± 3 Shore (A)	6	314368
Convex aluminum against smooth Vulkollan <sup>2)</sup>	30	32	-15 ... +80	80 HB/ 88 ± 3 Shore (A)	5	314370
Convex aluminum against smooth Vulkollan	30	60	-15 ... +80	80 HB/ 88 ± 3 Shore (A)	5	315024
Convex aluminum against smooth steel	30	60	-70 ... +150	80 HB/61 HRC	5	600230
Convex steel against smooth Vulkollan <sup>2)</sup>	30	110	-15 ... +80	61 HRC/ 88 ± 3 Shore (A)	5	315952
Steel, smooth	30	32	-80 ... +360	61 HRC	5	313904
Steel, smooth	30	60	-80 ... +360	61 HRC	5	314362
Steel, smooth	30	110	-80 ... +360	61 HRC	5	314349
Steel, smooth	50	32	-80 ... +360	61 HRC	5	318696
Steel, smooth, relief ground	7	32	-70 ... +250	61 HRC	5	320909
Steel smooth, with V-slot size 1, 1.5 mm for specimen Ø 4...10 mm	30	32	-80 ... +360	61 HRC	5	317216

## Product Information

### Jaws type 8287 and 8487

Version	Clamping surface		Ambient temperature [°C]	Hardness	Jaw thickness (dimension x) [mm]	Item No.
	Height [mm]	Width [mm]				
Steel, diamond-coated	30	60	-70 ... +250	-	5	314372
Steel, corrugated	30	32	-70 ... +250	Unhardened	5	313900
Steel, pr <sup>3)</sup> 0.7 mm	30	32	-80 ... +360	61 HRC	5	313898
Steel, corrugated	30	60	-70 ... +250	Unhardened	5	314364
Steel, pr <sup>3)</sup> 0.7 mm relief grinding, with ejector	7	32	-70 ... +250	61 HRC	5	313906
Steel, fsc <sup>4)</sup> 0.4 mm	30	32	-80 ... +360	61 HRC	5	313896
Steel, fsc <sup>4)</sup> 0.4 mm	30	60	-80 ... +360	61 HRC	5	315031
Steel, fsc <sup>4)</sup> 0.4 mm	30	110	-80 ... +360	61 HRC	5	314348
Steel, fsc <sup>4)</sup> 0.4 mm	50	32	-80 ... +360	61 HRC	6	318698
Oxide ceramic <sup>5)</sup>	30	32	-70 ... +80	Knoop 2300 N/mm <sup>2</sup>	5	314356

1) Scope of delivery: 2 jaws per gripping area. A jaw with a small gripping area has a larger one opposite to it.

2) Scope of delivery: 2 jaws per type. There is a smooth jaw opposite each convex jaw.

3) Pr = pyramid grid

4) Fsc = fish scale

5) Max. gripping force 10 kN

#### Special jaw inserts for seam slippage resistance testing to EN ISO 13936-1

Version	Clamping surface		Ambient temperature [°C]	Hardness	Jaw thickness (dimension x) [mm]	Item No.
	Height [mm]	Width [mm]				
Steel, Dr <sup>1)</sup> 1 mm	25/25 <sup>2)</sup>	25/50 <sup>2)</sup>	-80 ... +360	61 HRC	5	314374
Vulkollan, smooth	25/50 <sup>2)</sup>	25/25 <sup>2)</sup>	-15 ... +80	88 ± 3 Shore (A)	5	Upon request

1) Dr = roof grid

2) Scope of delivery: 2 jaws per gripping area. A jaw with a small gripping area has a larger one opposite to it.

#### Special jaw inserts for testing to EN ISO 13934-2 (grab method tensile test)

Version	Clamping surface		Ambient temperature [°C]	Hardness	Jaw thickness (dimension x) [mm]	Item No.
	Height [mm]	Width [mm]				
Steel, smooth	25/25 <sup>1)</sup>	25/50 <sup>1)</sup>	-80 ... +360	61 HRC	5	317909
Vulkollan, smooth	25/25 <sup>1)</sup>	25/50 <sup>1)</sup>	-15 ... +80	88 ± 3 Shore (A)	5	316500

1) Scope of delivery: 2 jaws per gripping area. A jaw with a small gripping area has a larger one opposite to it.

## Product Information

### Jaws type 8287 and 8487

#### Special jaw inserts for testing to Marks&Spencer (please note section 4.8)

Version	Clamping surface		Ambient temperature [°C]	Hardness	Jaw thick- ness (dimension x) [mm]	Item No.
	Height [mm]	Width [mm]				
Vulkollan, smooth	25	25	-15 ... +80	88 ± 3 Shore (A)	5	316504
Vulkollan, smooth	25	75	-15 ... +80	88 ± 3 Shore (A)	5	326013
Smooth steel, flat against 3mm radius <sup>1)</sup>	30	50	-80 ... +360	61 HRC	5	326015
Smooth steel, flat against 3mm radius <sup>1)</sup>	30	75	-70 ... +250	61 HRC	5	326060

<sup>1)</sup> Scope of delivery: 2 jaws per type. A flat jaw is opposed to a jaw with 3mm radius.

#### Metals

Material/application	Jaw version (recommended)
Metals	Steel, fsc/smooth/grooved, aluminum oxide
High-strength metal tapes	Oxide ceramic
Softer non-ferrous metals	Steel, st
Metal foils	Steel, fsc/smooth/diamond-coated, oxide ceramic
Thin sheet metals	Steel, fsc/diamond-coated, oxide ceramic
Wire	Plexiglas with transverse grooves/smooth, aluminum with transverse grooves, brass against smooth Vulkollan
Fine wire	Oxide ceramic, diamond-coated steel
Softer wire	Steel, fsc, aluminum oxide

#### Plastics

Material/application	Jaw version (recommended)
Plastics	Steel, fsc/dp/st/grooved
Fiber-reinforced plastics	Aluminum oxide; steel, smooth/dp
Plastic tapes	Steel, fsc/smooth/diamond-coated; Vulkollan, smooth/corrugated, oxide ceramic
Plastic films	Convex against smooth, e.g. convex aluminium against smooth Vulkollan; smooth steel, smooth non-slip coating
Plastic threads	Corrugated Vulkollan, Plexiglas with transverse grooves/smooth, aluminum with transverse grooves
Plastic fibers	Corrugated Vulkollan, smooth steel
Polystyrene	Vulkollan, corrugated
Elastomers	Non-slip coating, smooth steel, smooth Vulkollan
Elastomer dumbbell specimens	Steel, dp, relief ground
Solid elastomers with slip-prone surfaces	Steel, st/dp
Packing straps/tapes	Corrugated steel, aluminum oxide
Foam dumbbell specimens	Steel, fsc/st; corrugated Vulkollan
Natural rubber	Non-slip coating
Geoplastics/geocomposites	Smooth/corrugated steel; smooth/corrugated Vulkollan

## Product Information

### Jaws type 8287 and 8487

#### Textiles

Material/application	Jaw version (recommended)
Fabrics	Smooth/corrugated steel; smooth/corrugated Vulkolan; aluminum oxide
Fine fabrics	Vulkolan, smooth
Knitted fabrics	Smooth Vulkolan, smooth steel against convex steel
Felt	Vulkolan, corrugated
Yarns in general	Vulkolan, smooth
Clamping-sensitive yarns	Brass/Vulkolan, smooth
Elastic yarns	Vulkolan, smooth
Threads	Plexiglas with transverse grooves/smooth, aluminum with transverse grooves
Fibers	Vulkolan, smooth/corrugated; glass; polyamide
Non-wovens	Steel, corrugated/smooth; Vulkolan, corrugated/smooth
Man-made leather	Steel, fsc/smooth; Vulkolan, smooth/corrugated
Stitched fabric strips	Special jaws, see table Type 8287
Geotextiles	Steel, smooth; Vulkolan, smooth/corrugated
Geogrids	Steel, smooth; Vulkolan, smooth
Technical textiles	Steel, smooth; Vulkolan, smooth/corrugated

#### Glass

Material/application	Jaw version (recommended)
Glass fiber/glass fabrics	Vulkolan, smooth

#### Paper

Material/application	Jaw version (recommended)
Paper	Vulkolan, smooth
Board	Steel, fsc; Vulkolan, smooth
Tissue paper/products	Vulkolan, smooth

#### Wood

Material/application	Jaw version (recommended)
Wood	Steel, grooved/st
Plywood	Steel, st/dp/fsc
Wood veneers	Steel, dp/smooth; Vulkolan, smooth

#### Building materials

Material/application	Jaw version (recommended)
Bituminous materials	Aluminum, corrugated, with cooling