

FO Products and Cutting Solutions for Slitting and Cut-to-Length Systems

Protube Engineering supplies a range of high-quality slitter tooling, knives and blades, rolls, rings and shims, etc for the processing of coil from start to finish.

KNIVES, BLADES AND RINGS

QUALITY: Our knives and blades are manufactured in Europe to the highest quality standards to ensure optimum performance. Blades below 420mm in diameter can be manufactured to even tighter tolerances if required.

Standard Tolerances:

- Thickness tolerance of $\pm 1\mu\text{m}$
- Surface finishes of Ra 0.1 μm

MATERIAL: Performance is optimised by selecting the most suitable combination of wear resistance and toughness for a particular application. Knives and blades are available in a variety of steel grades to achieve this.

PRODUCTS:

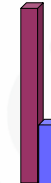
- Rotary Slitter Knives
- Tube Cut-off Knives
- Custom Length Knives
- Scrap Chopper Blades
- Shear Blades
- Profile Shear Blades
- Steel Stripper Rings
- Spacers
- Shims
- Separator Discs
- Guide Ways
- Knife Holders
- Rubber Stripper Rings
- Overarm Spacers



Steel Grade K110 (D2)

■ wear resistance
■ toughness

DIN	1.2379
AISI	D2
BMMS	K110
C	1,50 - 1,60
Cr	11,00 - 12,00
Mo	0,60 - 0,80
V	0,90 - 1,00
W	



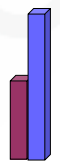
K110 is generally suitable for cutting mild steel up to 4 mm max. thickness.

Hardness can range from 57 to 62 HRC.

Steel Grade K306

■ wear resistance
■ toughness

DIN	~ 1.2345
AISI	~ H 13
BMMS	K306
C	0,45 - 0,55
Cr	4,80 - 5,20
Mo	1,25 - 1,45
V	0,80 - 1,40
W	

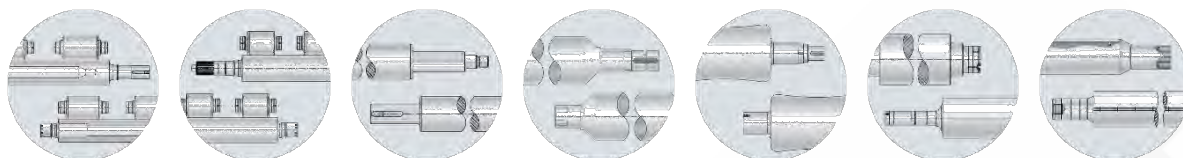


K306 is generally suitable for cutting mild steel up to 10 mm max. thickness.

Hardness can range from 54 to 58 HRC.

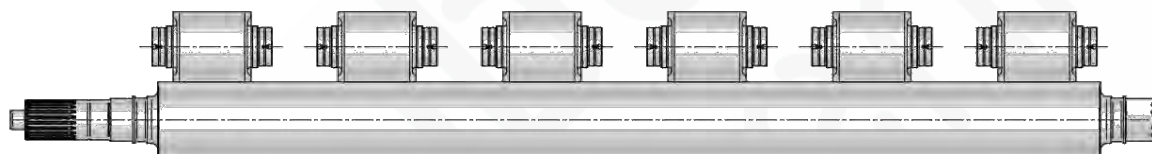
ROLLS AND BEARINGS

Our rolls are produced from quenched, tempered and hardened alloy steels and, where appropriate, are coated, chrome-plated or shot-blasted etc., dependent upon the final application.



PRODUCTS:

- Work Rolls
- Back-up Rolls
- Intermediate Rolls
- Grooved Intermediate Rolls for Aluminium
- Refurbishment of Levelling and Straightening Rolls
- Refurbishing of Cassettes
- Arbors
- Mandrels
- Bearings



APPLICATIONS:

- Hot Plate Levellers
- Cold Plate Levellers
- Tensions Levellers
- Coil and Sheet Straightening
- Bar and Section Straighteners
- Calender and Roll Bending Machines
- Slitting Machines
- Roll Forming Machine

