



# CUSTOMISED SOLUTIONS WORLDWIDE

**BENTELER**   
Distribution



## INTRODUCTION

Benteler Distribution Limited are market leaders in supplying the UK with Precision automotive solutions for its tubular needs, both in Carbon and Stainless. Servicing all its sectors with the very latest in tube processing. This expertise is supported from our Parent group, Benteler AG, who through a 'Global Presence' philosophy are world leaders in tube production and distribution for automotive and other applications.



## WHAT IS PTG 700

PTG 700 was developed as a replacement for T45, to achieve all the chemical and physical properties, the aim was to provide a more economical tube.

PTG 700 is now commonly used as a replacement for T45 and is used by many of the top roll cage manufacturers in the UK.

The tube is produced in Germany by Benteler Distribution Limited's own mill Benteler. We have complete control over the material and final product.

Other applications where T45 has been replaced are bicycle frames, wheel chairs



## STOCKHOLDING AND PROCESSING

Our general stocks are the most comprehensive in the UK, we ensure dedicated stocks for client specific contracts, held in the UK and Europe.

Benteler Distribution Limited offer a cut to length service with fully automated, on-line de-burring, measuring and washing. We can offer JIT and Kanban solutions to the industry with our dedicated transportation and logistical departments, priding ourselves on our commitment to clients quality and delivery needs.



## QUALITY

Quality Control is a must in modern engineering, registered in accordance with ISO9002 we ensure, with our strict procedures, including SPC, that the tubes supplied to customers are in accordance to specifications ordered. We are capable of full PPAP submissions with supporting data.



## DEVELOPMENT WITH CUSTOMERS

### PARTNERSHIPS

Benteler Distribution has built up and is constantly extending its modern machinery for tube processing. We are constantly doing this in harmony with the needs of our customers for increased flexibility, rate of change, chasing costs and improving value.

We offer support to clients who need to address their production peaks, or carry out non-standard processes. We can assist if your company wishes to free up premises, by transferring both machinery and staff to Pipe & Tube; allowing a better utilisation of capacity, or even discuss completely new production lines.

In the end it's a matter of choosing between investing in new machinery or purchasing components. Benteler Distribution is prepared to invest substantially to find a common solution.

Chemical comp max	PTG 700	BS6323 PT4 CFS5 BK+S	T45	ASTM A 519 grade 4130 SR
Carbon	0.2	0.23	0.17 - 0.25	0.28 - 0.33
Silicon	0.35	0.5	0.10 - 0.35	0.15 - 0.35
Manganese	1.5	1.5	1.5 - 1.7	0.40 - 0.60
Phosphorous	0.025	0.05	0.04	0.04
Sulphur	0.025	0.05	0.04	0.04
Chromium	0.25		0.25	0.80 - 1.10
Nickel	0.25		0.4	
Molybdenum	0.1		0.1	0.15 - 0.25

#### Mechanical properties

Tensile N/mm2	700 - 900	500 min Approx.	700 - 900	724 min
Yield N/mm2	620 min	380 min* Approx.	620 min	586 min
Elongation %	15 min	15 min* Approx.	typically 18-22%	10 min

\*CFS5 BK&S.

Stress relieving reduces tensile and yield by between 100 and 150n/mm2 approx.

Most mills would aim for the min mechanicals for BK&S to fall within the BK parameters although this cannot always be guaranteed.

Typical elongation 15% min aiming for 18-20% approx.

\*\* E355 + SR.

Up to and including 30mm o.d. and 3mm wall min yield is 440n/mm2.

### LEADING TUBE SUPPLIERS TO

- Mechanical Engineering
- Automotive
- Power-Gen
- Ship Building
- Health Care

### PRODUCTS

- CFS Mechanical (Trumech)
- CFS Hydraulic and pneumatic lines
- PTG 700®
- HFS Hollomek, St52 / Din1629
- Hollow Bar PTG 470®
- Line Pipe ASTM & API
- ERW Square & Rectangular
- Boiler Tube BS3059
- Stainless Steel
- Zista 07® (Zinc plated) and Spezial 07®

### SERVICES

- Cutting
- Deburring
- Washing
- Machining
- Swelling

#### South - Midlands

Armstrong Road  
Daneshill Industrial Estate  
Basingstoke  
Hampshire  
RG24 8NU

#### North

New Progress Works  
Crompton Way  
Bolton  
Lancashire  
BL1 8TY

#### Scotland

Unit 3, Abbots Road  
Middlefield Industrial Estate  
Falkirk  
FK2 9HQ

#### Automotive

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