

Worms and wheels

Gears Pulleys

Chain sprockets

Racks

Screw jacks Ball screws

Lead screws

Gearboxes Springs S

Screws and fasteners Casters

Ball pins

Couplings

Linear shafts Shock absorbers

Hand wheels

Universal joints

Feet

Brushes

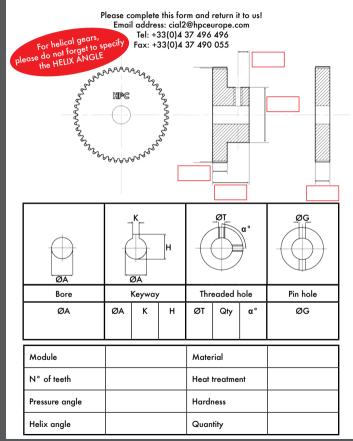
WORMS AND WHEELS Please complete this form and return it to us! Email address: cial2@hpceurope.com Tel: +33(0)4 37 496 496 Fax: +33(0)4 37 490 055 Bored worm Worm shaft MODULE N°OF TEETH HELIX ANGLE DISTANCE BETWEEN CENTRES Wheel OPTION: Left hand helix Right hand helix

WORMS AND WHEELS A FACE requires machining? Need a PRECISION gear? Send us your drawings! Choose the external diameter and helix anale Choose the N° of starts Choice of material: - Steel 34C10, 35NCD6, 20NCD2 Stainless steel: 303, 304L, 316L Heat treatment: 34C10, 20NCD2: Case hardened 57-62 HRc 35NCD6. Between centres Through hardened 45-50 HRc Module from 0.4 to 3 Modifications to the bore, keyway or tapped hole Choice of material: - Plastic - Nylon - Cast iron

TIP: to determine the orientation of the helix angle, lay the gear flat on a table. If the teeth rise to the right, the gear has a right hand helix angle. If the teeth rise to the left, the gear has a left hand helix angle.

- Bronze CA10 - Brass CuZn40Pb3

GEARS - PLEASE FILL IN THE DETAILS



GEARS

- 1. SMALL CHANGES: Find the Part N° of the standard part (from the catalogue or website) and specify the modification(s) required (bore, keyway....)
- 2. CHANGES TO DIMENSIONS: Please complete the form opposite
- 3. CUSTOM MADE PART: Please send us your drawing(s)

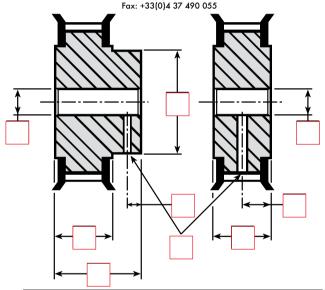






PULLEYS - PLEASE FILL IN THE DETAILS

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PULLEY CHARACTERISTICS				
Pitch		Keyway		
N° of teeth		Tapped hole		
Ø PCD		Material		
Ø external		Treatment		
Quantity		Other:		

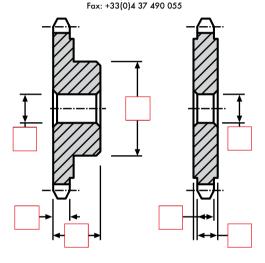
PULLEYS

- 1. SMALL CHANGES: Find the Part N° of the standard part (from the catalogue or website) and specify the modification(s) required (bore, keyway....)
- 2. CHANGES TO DIMENSIONS: Please complete the form opposite



CHAIN SPROCKETS PLEASE FILL IN THE DETAILS

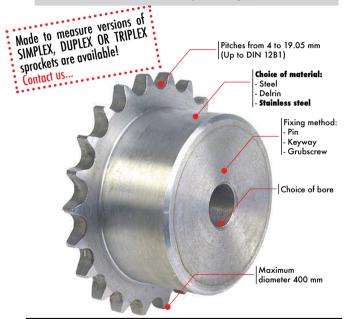
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SPROCKET CHARACTERISTICS				
Pitch		Keyway		
N° of teeth		Tapped hole		
Ø PCD		Material		
Ø external		Treatment		
Quantity		Other:		

CHAIN SPROCKETS

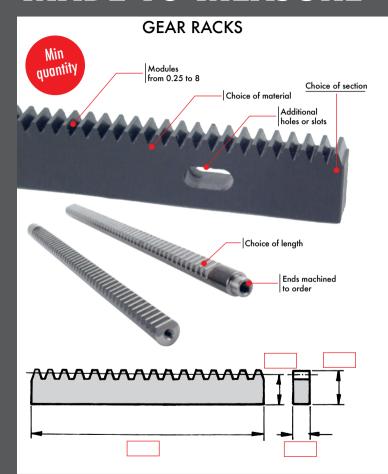
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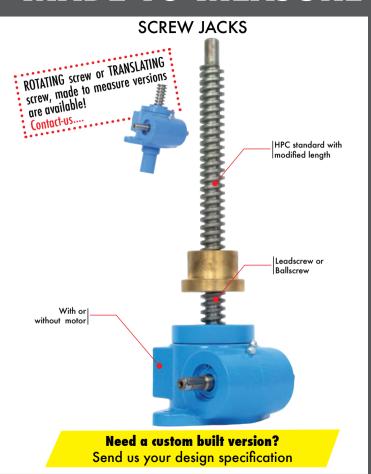


DID YOU KNOW?

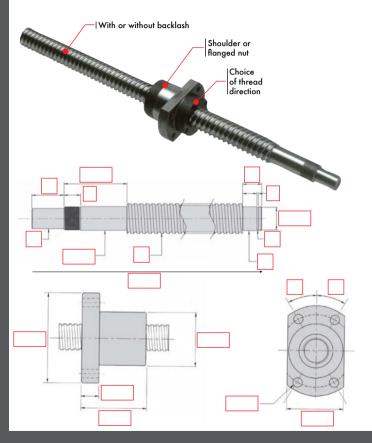
A system built using sprockets and chains must be kept under tension and correctly lubricated. Please do not forget to include a chain tensioner in your system.

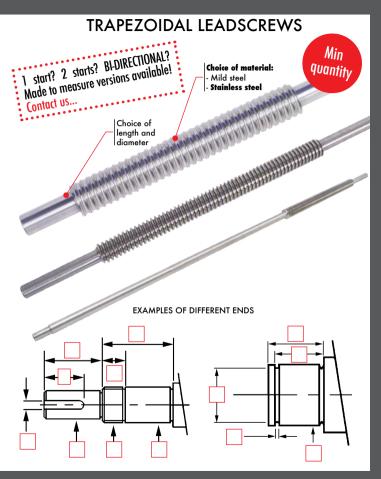
Contact our technical support team for more information





BALLSCREWS





INLINE GEAR REDUCERS

Send us details of your requirements, specifications and special requirements... Email address: cial2@hpceurope.com



HPC offers a wide choice of different made to measure gear reducers

- epicyclical
- bevél
- worm wheel

- inline spur gear
- double reduction
- offset

DID AOII KNOMS

GREASE FILLING

HPC agar reducers are areased for life and are maintenance free.

Contact our technical support team for more information

^{*}Ask us for the ratio you require



WORM WHEEL GEAR REDUCERS

EXAMPLES OF REDUCERS BUILT TO ORDER

From 1+>

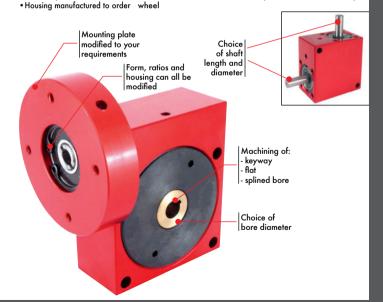


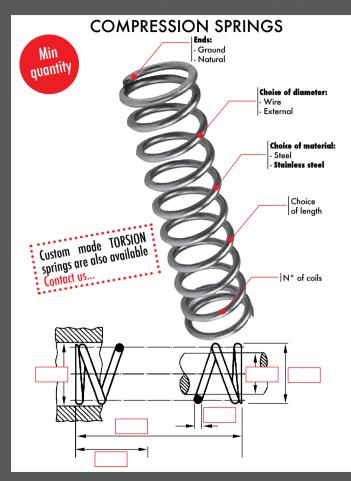


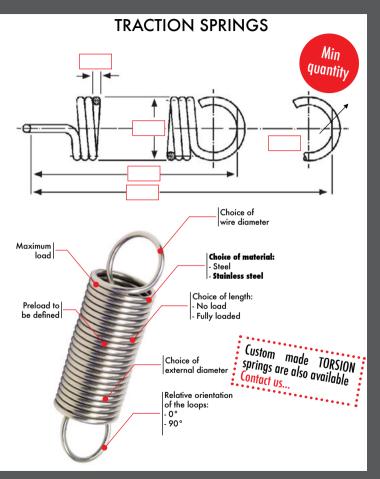
• Dual outputs (2 wheels)



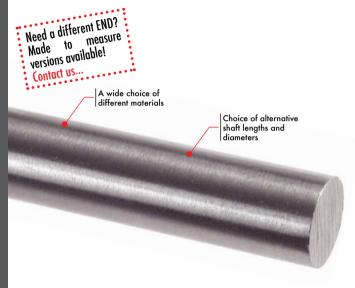
- Modified input shaft
- Addition of aluminium hand
- Rotating output table • Input shaft on one side only







LINEAR SHAFTS



HPC can offer you a wide range of modifications to our standard linear shafts:

- shorter or longer lengths
- hores
- diameters

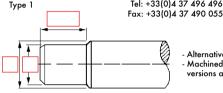
- materials
- · specific finishing treatments
- machinina

Contact our technical support team for more information!

LINEAR SHAFTS PLEASE FILL IN THE DETAILS

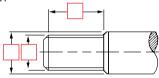
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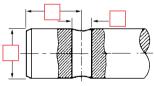
- Alternative diameters
- Machined or hardened versions available

Type 2: Threaded end



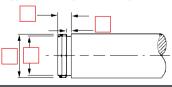
- Annealed end
- Non-hardened thread
- End undercut with or without aroove for circlip

Type 3: End with transversal hole



Shaft annealed around the bore or milled on both sides

Type 4: End with groove for circlip



Shaft tempered/softened or annealed as required

ELASTIC SHOCK ABSORBERS







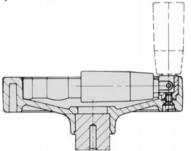
HANDWHEELS PLEASE FILL IN THE DETAILS

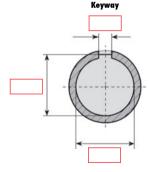
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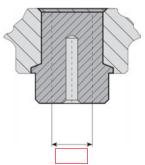
Wheel diameter

Ø50	Ø200	
Ø65	Ø250	
Ø80	Ø300	
Ø100	Ø400	
Ø125	Ø500	
Ø150		

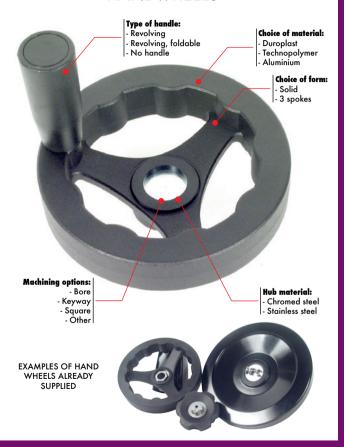


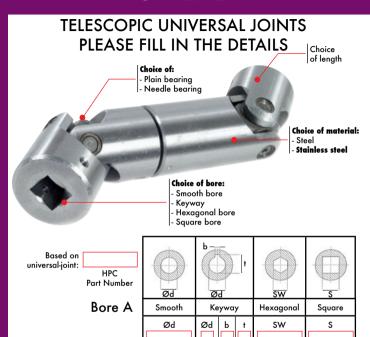


Bore modifications



HANDWHEELS

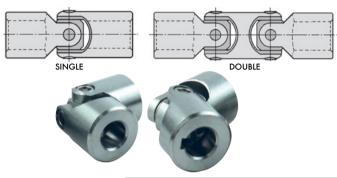




Ød	b t			SW	\$
Smooth	Keyway			Hexagonal	Square
Ød	Ød	Ь	t	SW	S

Bore B

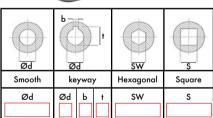
SINGLE OR DOUBLE UNIVERSAL JOINTS PLEASE FILL IN THE DETAILS

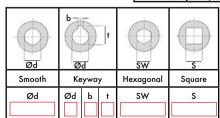


Based on universal-joint:

HPC Part Number

Bore A





Bore B

ADAPTED

COUPLINGS



ADAPTED

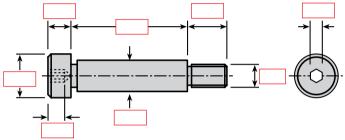
COUPLINGS





MADE TO MEASURE SHOULDER HEAD SCREWS





Choice of material:

- Hardened steel
 - Stainless steel
- Pre-treated stainless steel



Contact our technical team for more information

CASTERS



ALL of the different parts of a caster can be modified. Contact us for details

Type of plate:

- Screw plate
- Ring stem for use with a tube
- With or without brakes

Plate material:

- Pressed sheet steel
- Welded steel
- Stainless steel

Choice of axle:

- Ball bearings
- Slide bearings

Choice of wheel body material:

- Rubber
- Polyamide - Polyurethane
- Don't forget to take into account the type of floor surface and the load to be carried





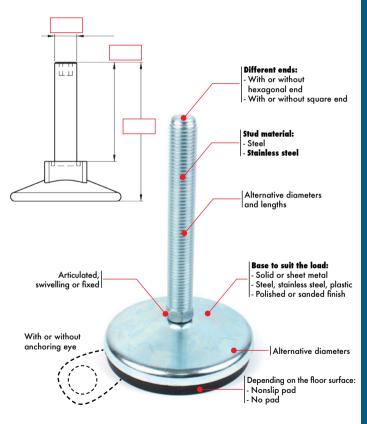




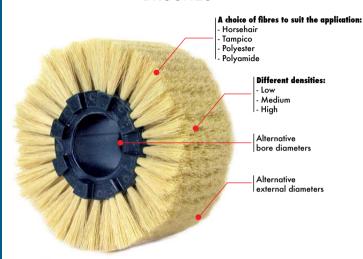


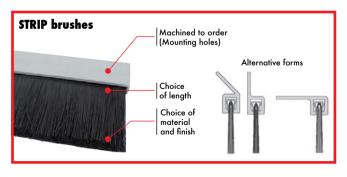


MOUNTING FEET

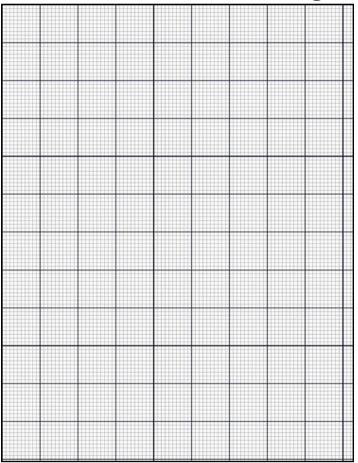


BRUSHES





Add your drawing



For more than 20 years HPC has specialised in made to measure mechanical components and parts



Contact us!

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 By telephone

 +33(0)4 37 496 496

 Monday to Friday, from 08.00 to 12.30 and 13.40 to 18.00
- By email ——— cial2@hpceurope.com
- By fax ----- +33(0)4 37 490 055
- By letter
 Engrenages HPC
 58, Chemin de la Bruyère
 69570 Dardilly France

Technical support

Here to help with all your questions and requests for quotations

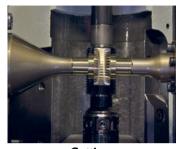


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THE MANUFACTURING PROCESS



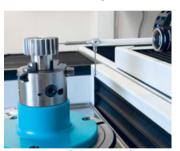
Machining



Cutting



Cutting



Quality control



O HPC

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