

GO-KART PARTS:

MATERIAL TUBE

TYRES

HUBS

REAR AXLE

DISC HUBS

SPROCKET HUB

KNUCKLE

STEERING SYSTEM

TIE RODS

SEAT

BODY PARTS

ENGINE

CENTRIFUGAL CLUTCH

BRAKE SYSTEM

DIFFERENTIAL (WET TYPE)



AISI 1020 SEAMLESS METAL PIPES

Element	Content
Carbon, C	0.17 - 0.230 %
Iron, Fe	99.08 - 99.53 %
Manganese, Mn	0.30 - 0.60 %
Phosphorous, P	= 0.040 %
Sulfur, S	= 0.050 %



Physical Properties

The physical properties of AISI 1020 steel are:

Physical Properties	Metric	Imperial
Density	7.87 g/cc	0.284 lb/in ³

Mechanical Properties

The mechanical properties of AISI 1020 steel are:

Mechanical Properties	Metric	Imperial
Hardness, Brinell	111	111
Hardness, Knoop (Converted from Brinell hardness)	129	129
Hardness, Rockwell B(Converted from Brinell hardness)	64	64
Hardness, Vickers (Converted from Brinell hardness)	115	115
Tensile Strength, Ultimate	394.72 MPa	57249 psi
Tensile Strength, Yield	294.74 MPa	42748 psi
Elongation at Break (in 50 mm)	36.5 %	36.5 %
Reduction of Area	66.0 %	66.0 %
Modulus of Elasticity (Typical for steel)	200 GPa	29000 ksi
Bulk Modulus (Typical for steel)	140 GPa	20300 ksi
Poissons Ratio	0.290	0.290
Charpy Impact		
@Temperature -30.0 °C/-22.0 °F	16.9 J	12.5 ft-lb
@Temperature -18.0 °C/-0.400 °F	18.0 J	13.3 ft-lb
@Temperature -3.00 °C/26.6 °F	20.0 J	14.8 ft-lb
@Temperature 10.0 °C/50.0 °F	24.0 J	17.7 ft-lb
@Temperature 38.0 °C/100 °F	41.0 J	30.2 ft-lb
@Temperature 65.0 °C/149 °F	54.0 J	39.8 ft-lb
@Temperature 95.0 °C/203 °F	61.0 J	45.0 ft-lb
@Temperature 150 °C/302 °F	68.0 J	50.2 ft-lb
Izod Impact	125 J	92.2 ft-lb
Shear Modulus (Typical for steel)	80.0 GPa	11600 ksi

DIMENSIONAL SPECIFICATION
 OUTER DIAMETER—25.4 MM,
 28.575 MM, 31.75 MM

**WALL THICKNESS—1 MM,
 1.2 MM, 1.6 MM, 2 MM, 2.5
 MM, 3 MM**

AISI 4130 SEAMLESS METAL PIPE

Element	Content (%)
Iron, Fe	97.03 – 98.22
Chromium, Cr	0.80 – 1.10
Manganese, Mn	0.40 – 0.60
Carbon, C	0.280 – 0.330
Silicon, Si	0.15 – 0.30
Molybdenum, Mo	0.15 – 0.25
Sulfur, S	0.040
Phosphorous, P	0.035

DIMENSIONAL SPECIFICATION
**OUTER DIAMETER—25.4 MM,
 28.575 MM, 31.75 MM**
**WALL THICKNESS—1 MM,
 1.2 MM, 1.6 MM, 2 MM, 2.5
 MM, 3 MM**



Physical Properties

The following table shows the physical properties of AISI 4130 alloy steel.

Properties	Metric	Imperial
Density	7.85 g/cm ³	0.284 lb/in ³
Melting point	1432°C	2610°F

Mechanical Properties

The mechanical properties of AISI 4130 alloy steel are outlined in the following table.

Properties	Metric	Imperial
Tensile strength, ultimate	560 MPa	81200 psi
Tensile strength, yield	460 MPa	66700 psi
Modulus of elasticity	190-210 GPa	27557-30458 ksi
Bulk modulus (Typical for steel)	140 GPa	20300 ksi
Shear modulus (Typical for steel)	80 GPa	11600 ksi
Poissons ratio	0.27-0.30	0.27-0.30
Elongation at break (in 50 mm)	21.50%	21.50%
Reduction of area	59.6	59.60%
Hardness, Brinell	217	217
Hardness, Knoop (Converted from Brinell hardness)	240	240
Hardness, Rockwell B (Converted from Brinell hardness)	95	95
Hardness, Rockwell C (Converted from Brinell hardness, value below normal HRC range, for comparison purposes only.)	17	17
Hardness, Vickers (Converted from Brinell hardness)	228	228
Machinability (Annealed and cold drawn. Based on 100% machinability for AISI 1212 steel.)	70	70

AISI 4130 SEAMLESS METAL PIPES

Fabrication and Heat Treatment

Machinability

AISI 4130 steel can be easily machined using conventional methods. However, machining becomes difficult when the hardness of the steel is increased.

Forming

Forming of AISI 4130 steel can be performed in the annealed condition.

Welding

Welding of AISI 4130 steel can be performed by all commercial methods.

Heat Treatment

AISI 4130 steel is heated at 871°C (1600°F) and then quenched in oil. This steel is usually heat-treated at temperatures ranging from 899 to 927°C (1650 to 1700°F).

Forging

Forging of AISI 4130 steel can be performed can be performed at 954 to 1204°C (1750 to 2200°F).

Hot Working

Hot working of AISI 4130 steel can be done at 816 to 1093°C (1500 to 2000°F).

Cold Working

AISI 4130 steel can be cold worked using conventional methods.

Annealing

AISI 4130 steel can be annealed at 843°C (1550°F) followed by air cooling at 482°C (900°F).

Tempering

Tempering of AISI 4130 steel can be performed at 399 to 566°C (750 to 1050°F), depending on the desired strength level.

Hardening

Hardening of AISI 4130 steel can be done with cold working or heat treatment.



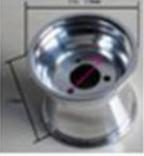


GO-KART TYRE:

No.	product name	picture	N,M/KG	tire size
1	go kart tire		1.8	11x6.0--5
2	go kart tire		1.5	10x4.5--5
3	go kart tire		1.8	11x7.1--5
4	go kart tire		1.5	10x3.6--5
5	go kart tire		1.8	12x8-6
6	go kart tire		1.8	11x4-5

GO-KART RIM:



No.	product name	picture	size/inch	length/mm	N.M/KG	installation dimension	tyre size
1	go kart front rims 5-130		5	130	0.8	installing hole 50mm	10x4.5--5
2	go kart front rims 5-115		5	115	0.85	outside diameter 35mm bearing	10x3.6--5
3	go kart front rims 5-130		5	130	0.9	outside diameter 35mm bearing	10x4.5-5
4	go kart front rims 5-130		5	130	0.95	6004 bearing	10x4.5-5
5	go kart rear rims 5-180		5	180	0.95	installing hole 50mm	11x7.10--5
6	go kart rear rims 5-180		5	180	0.95	installing hole 50mm	11x6.0---5
7	beach buggy rear rims 8-120		8	120	1.75	nstalling hole 110mm	19*7-8

GO-KART WHEEL HUB:

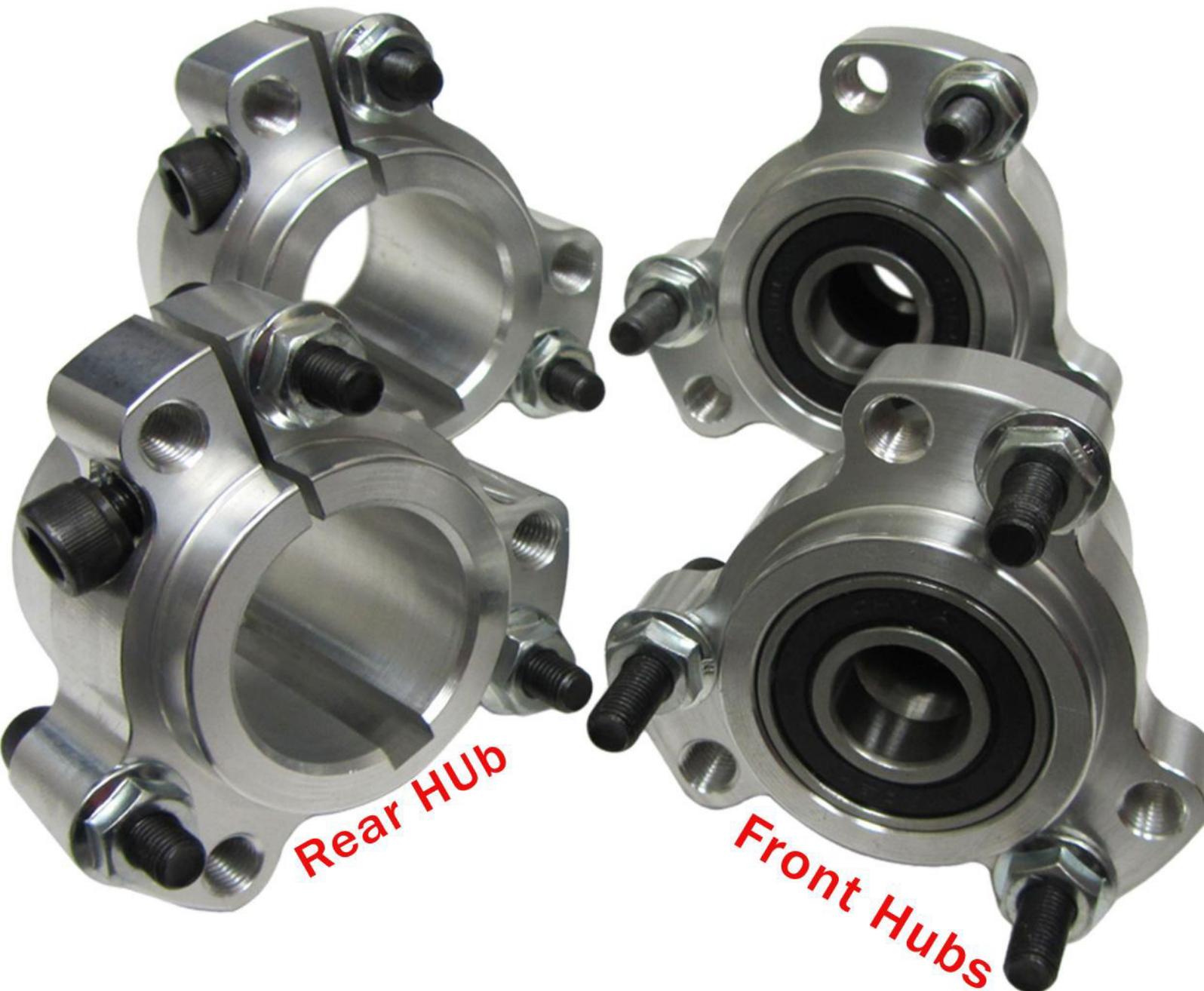
Go-kart Wheel Hub are suitable for given below rims with required INTERNAL DIAMETER (ID) of 25mm or 30mm



No.	product name	picture	size/inch	length/mm	N.M/KG	installation dimension	tyre size
1	go kart front rims 5-130		5	130	0.8	installing hole 50mm	10x4.5--5
2	go kart front rims 5-115		5	115	0.85	outside diameter 35mm bearing	10x3.6--5
3	go kart front rims 5-130		5	130	0.9	outside diameter 35mm bearing	10x4.5-5
4	go kart front rims 5-130		5	130	0.95	6004 bearing	10x4.5-5
5	go kart rear rims 5-180		5	180	0.95	installing hole 50mm	11x7.10--5
6	go kart rear rims 5-180		5	180	0.95	installing hole 50mm	11x6.0---5
7	beach buggy rear rims 8-120		8	120	1.75	nstalling hole 110mm	19*7-8

GO-KART WHEEL HUB:

Go-kart Wheel Hub are suitable for given below rims with required INTERNAL DIAMETER (ID) of 25mm or 30mm



GO-KART DISC AND SPROCKET HUB:



Can be coupled with 20MM,25MM,30MM,35MM Outer Diameter Solid/Hollow shaft



GO-KART BRAKE KIT:

Brake and Caliper set:

282 MM Disc Brake Set

220 MM Disc Brake Set

180 MM Disc Brake Set

150 MM Disc Brake Set



GO-KART REAR AXLE:



Outer Diameter Available:

1. 20 MM
2. 25 MM
3. 30 MM
4. 35 MM

Material:

Mild Steel

Chrome molybdenum Steel tubing

Type:

Hollow

Solid Shaft

Key Slot:

Will be slotted according to the requirement or Full slotted shaft are also available in Solid Shaft category

Dimension:

Dimension can be specified according to the requirement

GO-KART ENGINE: Briggs & Stratton, Series 550

Product details:

Type : 4 Stroke

Product description:

Briggs & Stratton 550 Series™

Briggs & Stratton, Series 550, cast iron sleeve, 3.5hp/127cc OHV cast iron sleeve, 3600 rpm with fuel tank and muffler, straight keyway shaft, recoil start petrol engine. Weight 14kgs.

BRIGGS & STRATTON 550 SERIES HORIZONTAL OHV ENGINE — 127CC

Ship Weight	35.0 lbs
Engine Displacement (cc)	127
Start Type	Recoil
Application	Mid-duty chore applications
Engine Type	550 Series
Torque (ft./lbs.)	5.5
Shaft Output	Horizontal
Crankshaft	5/8 x 2 27/64
Shaft Diameter (in.)	5/8
Shaft Length (in.)	2 27/64
Shaft Keyway (in.)	3/16
Shaft End Tapped (Diameter (in.)/Threads per inch)	1/4-28
Shaft Rotation (From PTO Shaft Side)	Counter clockwise
Gear Reduction	No
PTO Height (in.)	4.17
Bearing Type	Ball
Cylinders (qty.)	1
Cylinder Bore	Cast iron
Bore x Stroke (in.)	2.44 x 1.65
Cooling System	Air cooled
Air Cleaner Type	Dual element
Fuel Tank	Yes
Fuel Type	Gasoline
Fuel Tank Capacity (qt.)	2
Fuel Pump	No
Fuel Filter	Yes
Oil Capacity (qt.)	0.625
Lubrication System	Splash
Low Oil Alert	No
Low Oil Shutdown	No



GO-KART ENGINE: Briggs & Stratton, Series 550



Ignition System	Electronic
Governor System	Mechanical
Carburetor	Float
Throttle Control	Manual
Choke Control	Manual
Max. RPM	3,300
Charging System Amps	No
Muffler Included	Yes
Auto Compression Release	Yes
Mounting Base L x W (in.)	7 x 4
Mounting Bolt Pattern L x W (in.)	6 3/8 x 3 1/8
Dimensions L x W x H (in.)	13 x 15 x 13
EPA/CARB Approval (California Air Resource Board)	Yes

GO-KART ENGINE: HONDA GX- 160 CC



Engine Type	Air-cooled 4-stroke OHV
Bore x Stroke	68 X 45 mm
Displacement	163 cm ³
Net Power Output*	4.8 HP (3.6 kW) @ 3,600 rpm
Net Torque	7.6 lb-ft (10.3 Nm) @ 2,500 rpm
PTO Shaft Rotation	Counter clockwise (from PTO shaft side)
Compression Ratio	9.0 : 1
Lamp/Charge coil options	25W, 50W / 1A, 3A, 7A
Carburettor	Butterfly
Ignition System	Transistorized magneto
Starting System	Recoil Starter
Lubrication System	Splash
Governor System	Centrifugal Mechanical
Air cleaner	Dual Element
Oil Capacity	0.61 US qt. (0.58 L)
Fuel Tank Capacity	3.3 U.S. qts (3.1 liters)
Fuel	Unleaded 86 octane or higher
Dry Weight	33 lbs. (15.1 kg)
Dimensions	
Length (min)	12.2" (312 mm)
Width (min)	14.3" (362 mm)
Height (min)	13.6" (346 mm)

GO-KART ENGINE: HONDA GX- 340



Engine Type	Air-cooled 4-stroke OHV
Bore x Stroke	88 X 64 mm
Displacement	389 cm ³
Net Power Output*	10.7 HP (8.0 kW) @ 3,600 rpm
Net Torque	19.5 lb-ft (26.4 Nm) @ 2,500 rpm
PTO Shaft Rotation	Counterclockwise (from PTO shaft side)
Compression Ratio	8.2:1
Lamp/Charge coil options	25W, 50W / 1A, 3A, 10A, 18A
Carburetor	Butterfly Float Type
Ignition System	Digital CDI with variable timing
Starting System	Recoil/electric
Lubrication System	Splash
Governor System	Centrifugal Mass Type
Air cleaner	Dual element
Oil Capacity	1.16 US qt (1.1 L)
Fuel Tank Capacity	6.4 U.S. qts (6.1 liters)
Fuel	Unleaded 86 octane or higher
Dry Weight	69 lb (31.5 kg)

GO-KART CENTRIFUGAL CLUTCH: 10T, 3/4" bore, Centrifugal Clutch



Designed to be used on one wheel karts with rear tires no larger than 15" tall, and engines 3hp-7hp.

Larger tires and live axles recommend using Torque-converter

- 10T sprocket for #41/420/40 chain
- 3/4" center bore with 3/16" keyway
- bi-directional, can be mounted either way
- Comes with 3/16" key and two set screws
- Only aftermarket clutch that comes with oil impregnated bushing

Technical Specs:

10 tooth

3/4" bore

4" diameter

fits 1/2" pitch chains

GO-KART CENTRIFUGAL CLUTCH: 11T, 5/8" bore, Centrifugal Clutch



Centrifugal Clutch 5/8" bore 11 tooth #35 chain. does not come with set screws, if you need set screws you will need to order the Max-Torque clutch. **This clutch is designed to be held on by threading a bolt with a lock washer and fender washer onto the end of the crankshaft.**

GO-KART CHAIN DRIVE DIFFERENTIAL (WET TYPE):



Description

PARTICULARS

DIFFERENTIAL CASE

MOUNTING PLATES

BEARING

SPROCKET

WEIGHT

DETAILS

CAST INNER CORE, OUTER AL

200X76X40(mm)

6007 (SKF)

TEETH (AS PER DEMAND)

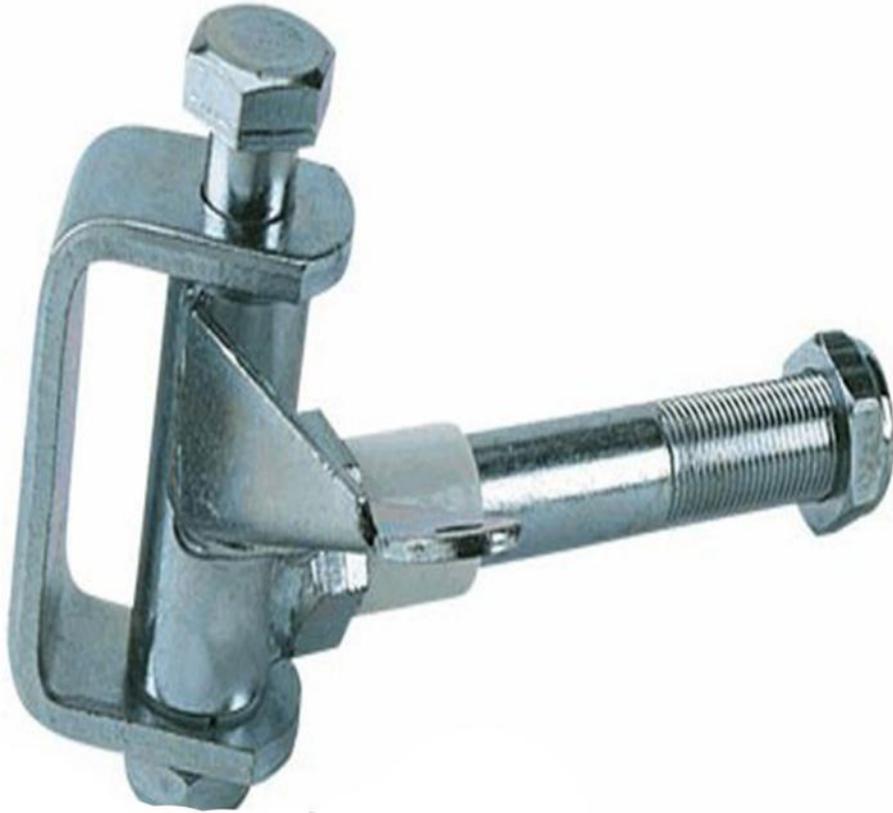
6 Kg

GO-KART BODY PARTS:

Material used:
FRP



GO-KART KNUCKLE:



**Internal Diameter of Spindle:
20 MM, 25 MM, 30 MM, 35MM.**

GO-KART DRIVER SEAT:

MATERIAL	GLASS FIBRE
HEIGHT	34.5In
LENGTH	18In
WIDTH BACK	14 In
WIDTH FRONT	17 In
WEIGHT	3Kg



GO-KART STEERING WHEEL WITH QUICK RELEASE:

PARTICULARS

DIAMETER

COLUMN

MATERIAL

WEIGHT

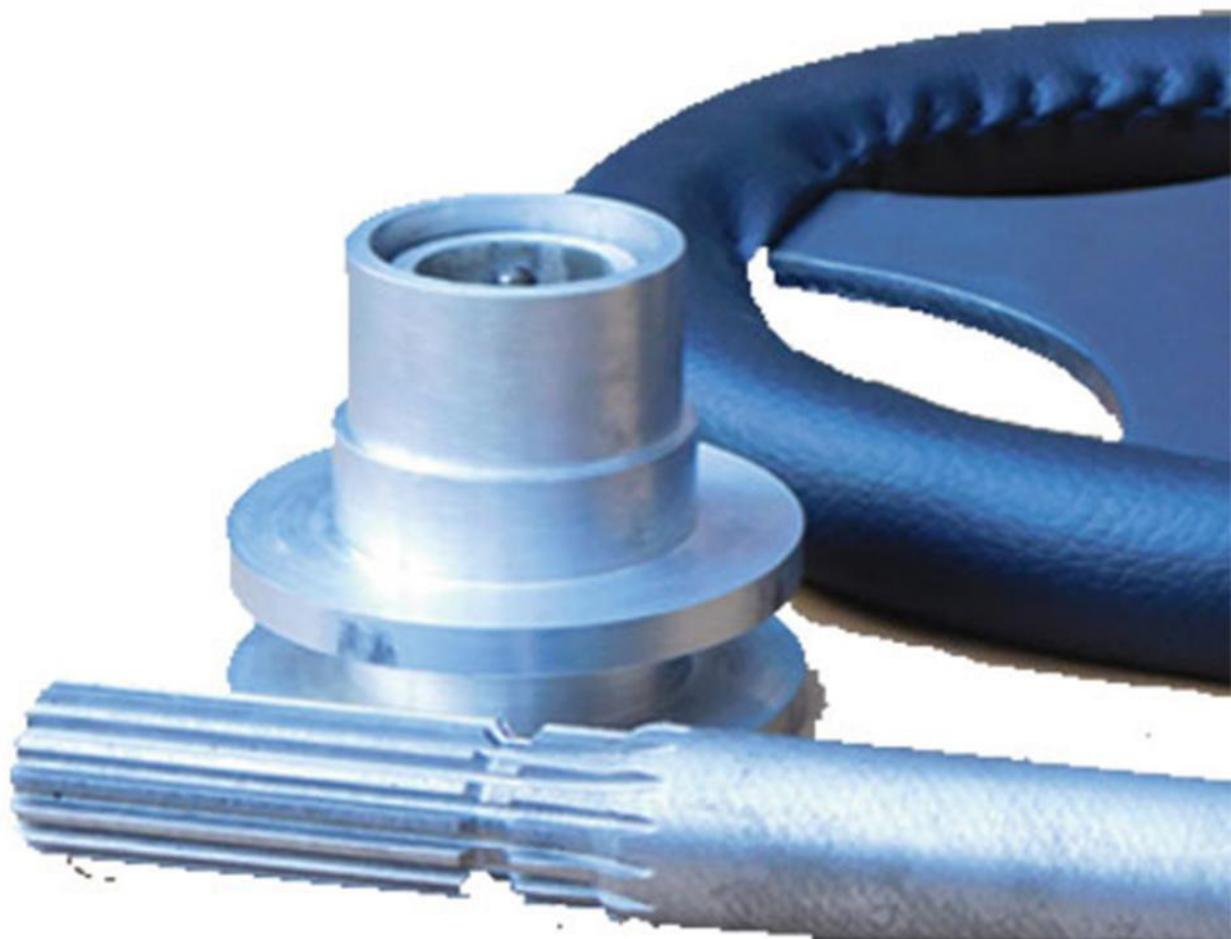
DETAILS

9In

8In (En 08)

AL T6

1 Kg



GO-KART TIE-ROD:



Go-Kart Tie-rod assembly

Includes:

2-rod end bearings

1-Shaft with threadings for rod end

Dimension

Dimension is provided according to the requirement