



Comparative Analysis of Component Quality Maraton Sdn.Bhd

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01

Stamping Parts

Material Thickness Inspection of Stamping Parts

DESCRIPTION	MARATON	SIZE OF MARATON	OTHER FACTORY	SIZE OF ANOTHER FACTORY
Spring Seat		3mm		2.5mm
Bracket Lining		3mm		1.5mm
Bracket		3mm		2.5mm
Connecting Ear		5mm		4mm

01 Material of Stamp Parts

Material of Maraton
Original cold rolled coils
from Bao Steel or Benxi Steel



本钢集团有限公司
BENXI STEEL GROUP CORPORATION

01 Performance Impact of Inferior Stamping Parts

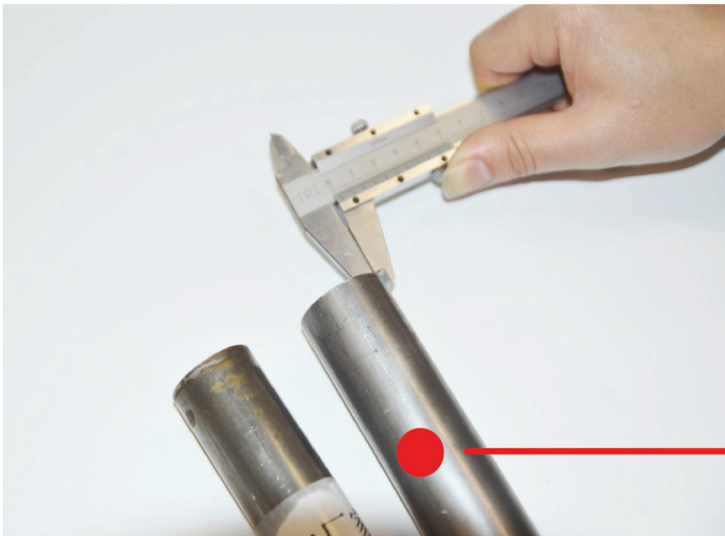
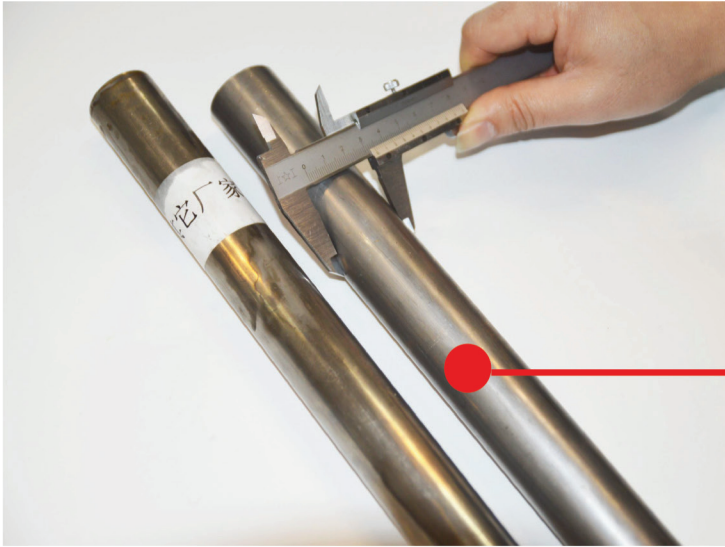


The thin stamping part material is easy to cause the product deformation and the joint loosening, which seriously affects the driving safety.

02

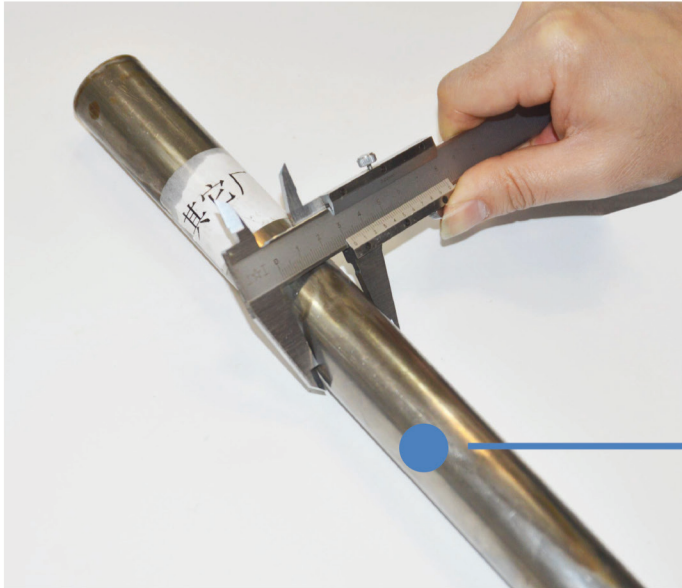
Pipe Fittings

02 Working Cylinder of Maraton

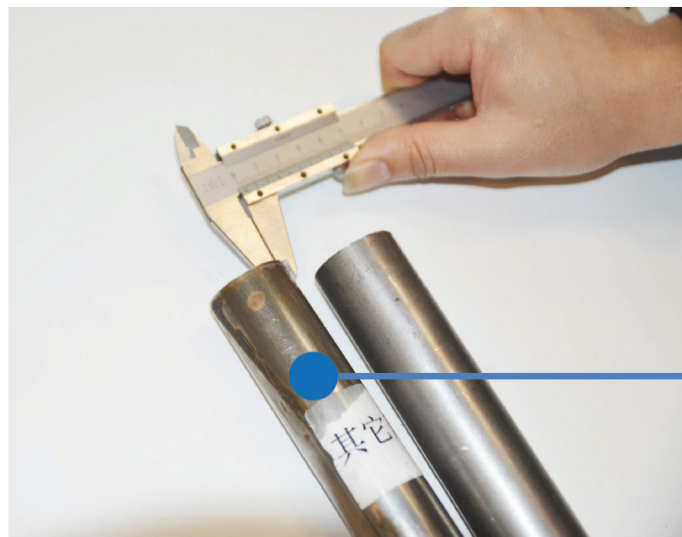


**Working Cylinder of Maraton :
Hot coiled cold-rolled welded
drawn tube from Benxi Steel
Group or Meishan Steel**

02 Working Cylinder of Another Factory

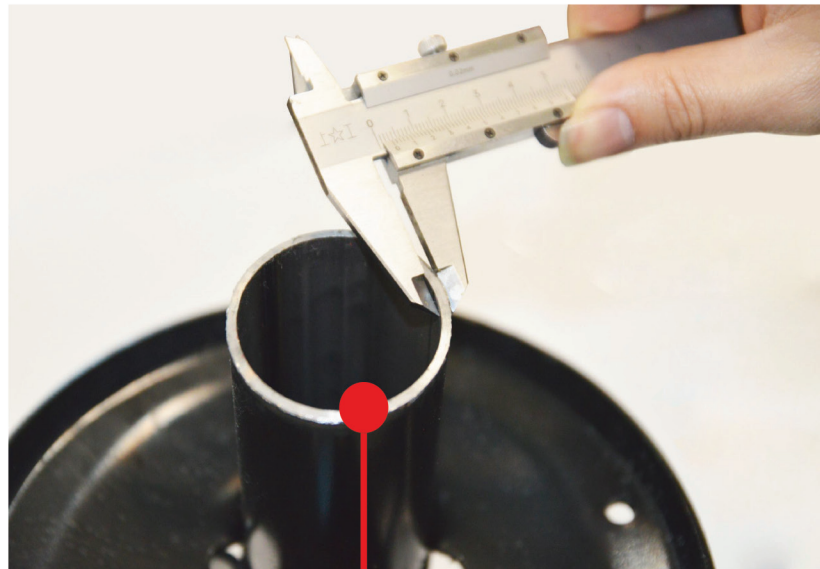


Price Difference:
About 0.5RMB/PC

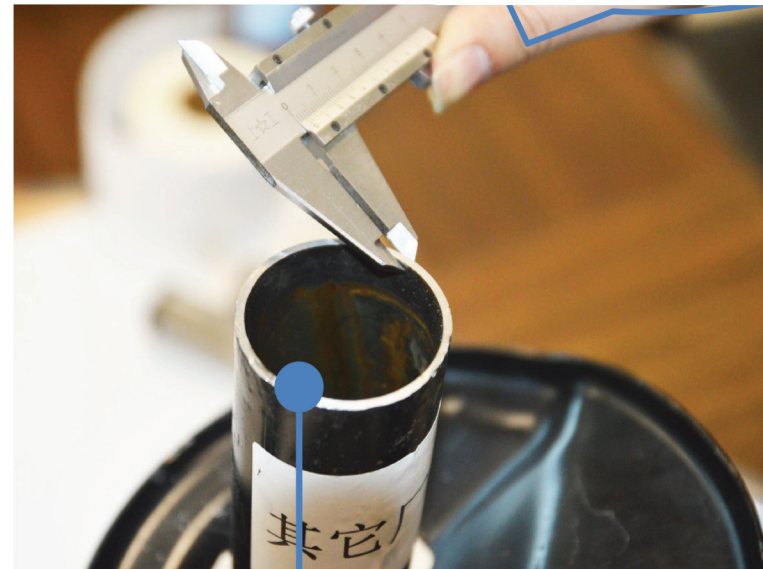


Working Cylinder of
Another Factory:
Welded Rolled Pipe

02 Outer Pipe of Maraton



Outer Pipe of Maraton
Hot coil Q235B/SAE1022 welded
pipe from Bao Steel or Benxi Steel



Outer Pipe of Another Factory:
Band steel from small factory



02 Performance Impact of Inferior Pipe Fittings

The tube billet produced by small factory is easy to cause mechanical accidents such as cracking, bending, deformation and so on because of unstable material elements and unstable welding process.

03

Shock Absorber Oil



Our Upgrade of Shock Absorber Oil



Our company has been established for 20 years, always adheres to the principle that quality is the first life of the enterprise.

The technical & quality department of our company has been continuously improving and optimizing the product structure, service life and product performance. By unanimous decision of our board of directors and each departments, the selection of shock absorber oil used in our products has been greatly upgraded. Now we will use **ENEOS Oil** made by **NIPPIN OIL CORPORATION (Japan)** instead of our current Shanghai brand domestic oil.





Brief of ENEOS Oil



The ENEOS Oil is one of the three major oil suppliers designated by the international OEM enterprises.

At present, ENEOS Oil is serviced for main OEM factories including TOKICO, KYB, SHOWA, TEIN (a Japanese car refitting brand), etc. and aftermarket factories including FCS, Sensen (partial), Gold (partial), etc.

The main reason of partial use is that the price of ENEOS Oil is too high, this oil is only currently used in some designated high-end markets.

03 ENEOS Oil Display

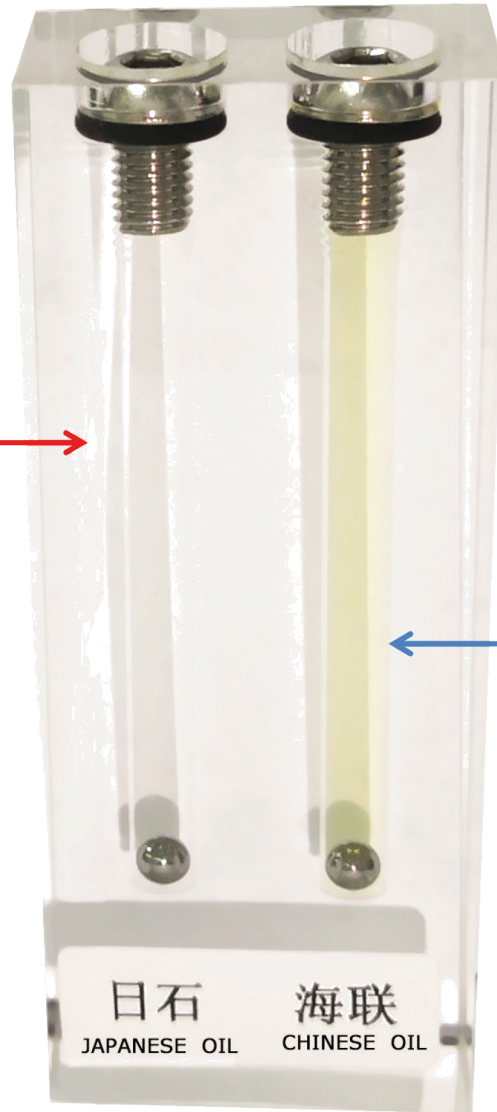
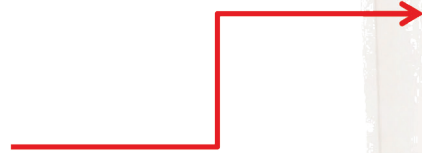




03

Oil Comparison

ENEOS Oil



**China
Domestic Oil**



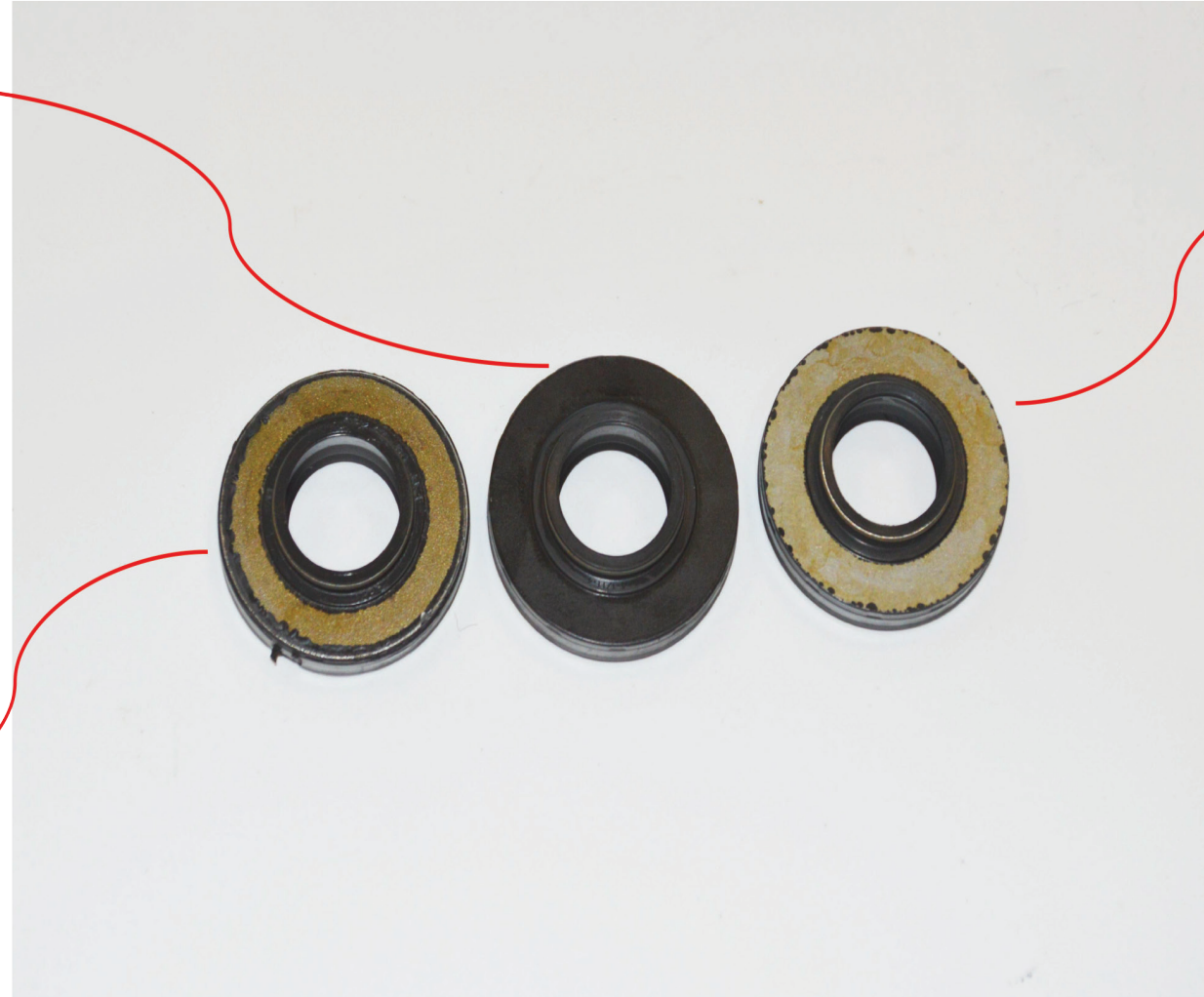
04

Oil Seal

04 Oil Seal of Maraton

Oil Seal of Maraton :
NAK (Taiwan,China)

Oil Seal of Maraton :
NOK (Japan)



Oil Seal of Maraton :
RFX (China)



04 Performance Impact of Inferior Oil Seal

The oil seal of non-big-brand factory is easy to cause early oil leakage, gas leakage, short service life, abnormal noise and so on.

05

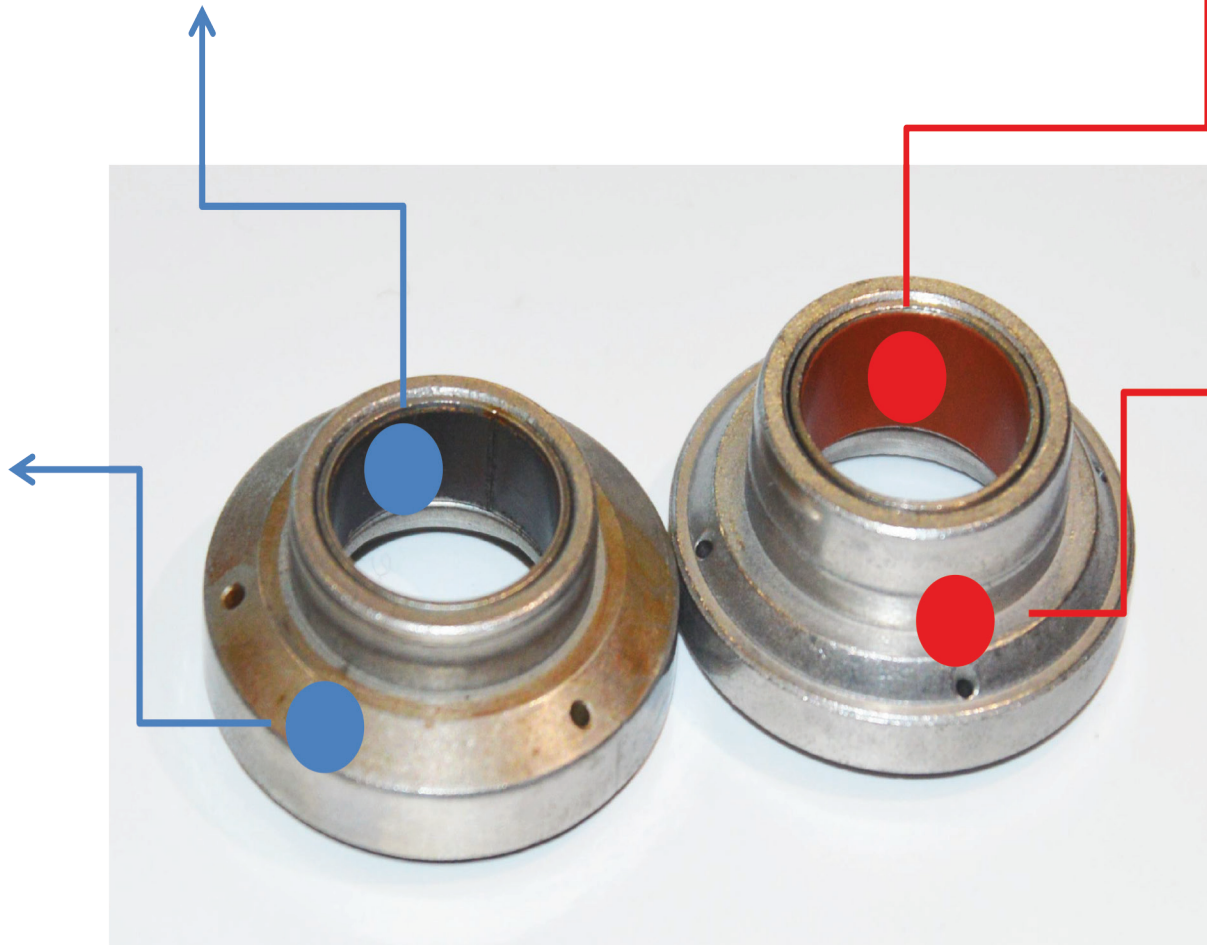
The Guide Assembly

05 Guide & Guide Bushing

Guide Bushing of Another Factory:
Black Ordinary Teflon

Guide Bushing of Maraton :
Red Abrasion Resistant Teflon

Guide Bushing of
Another Factory:
Iron-base Powder
Metallurgy,
Pressing Molding
and Machining



Guide of Maraton :
Iron Powder Metallurgy,
One-time Forming

05 Performance Impact of Inferior Guide & Guide Bushing

- **It is easy to deform and crack when the strength of inferior guide is not enough.**
- **The inner surface of inferior guide bushing is more likely to wear out and causes early product failure.**

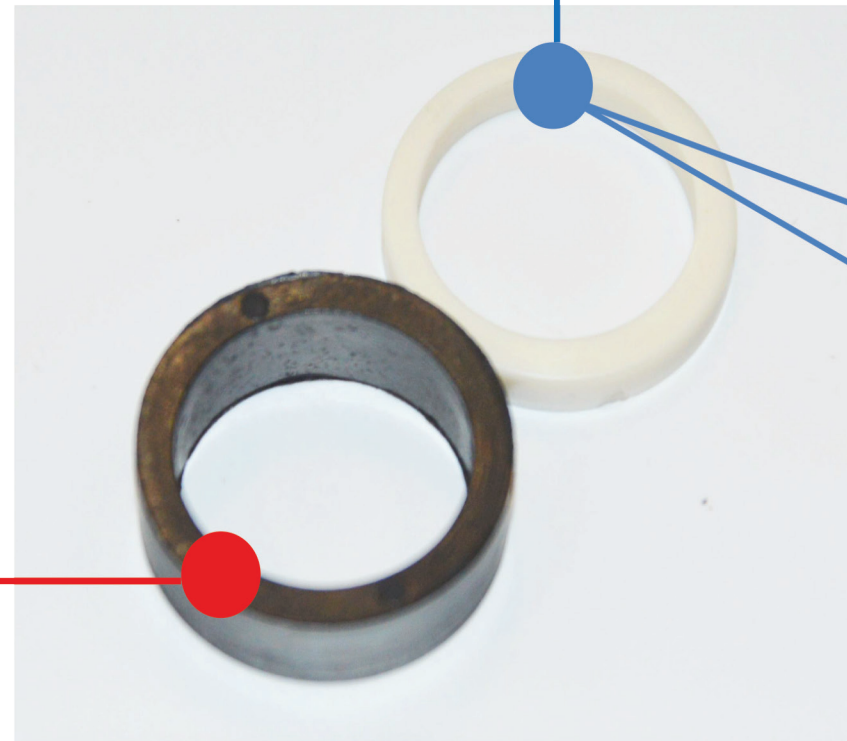
06

Buffer Ring

06 Buffer Ring

Buffer Ring of
Another Factory:
Plastic

Buffer Ring
of Maraton :
NBR

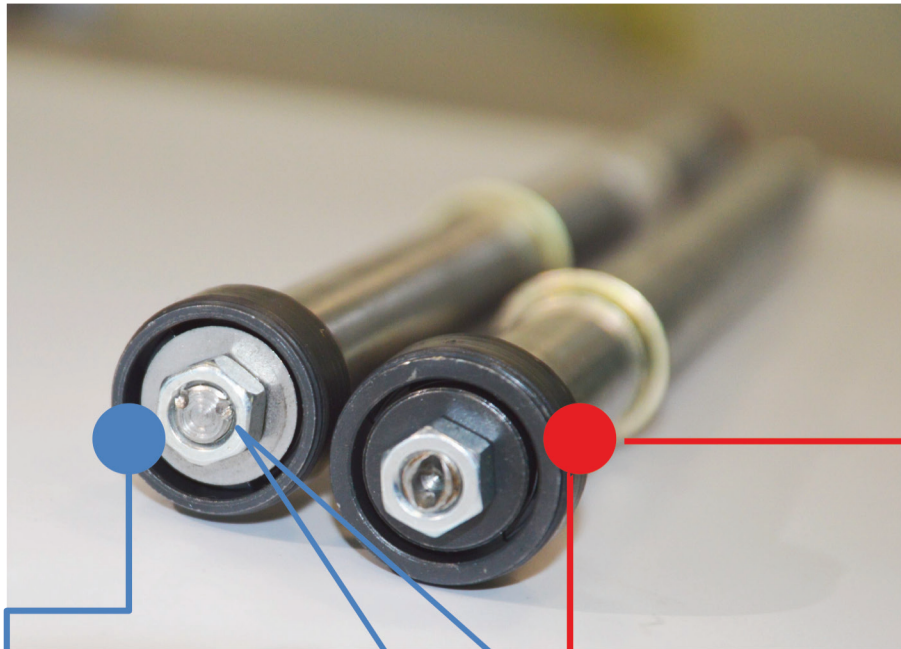


The plastic buffer ring is not resistant to oil and fragile after impact, the impact sound is heavy, and does not act as a buffer.

07

Piston Bottom Valve and Fittings

07 Piston Fittings

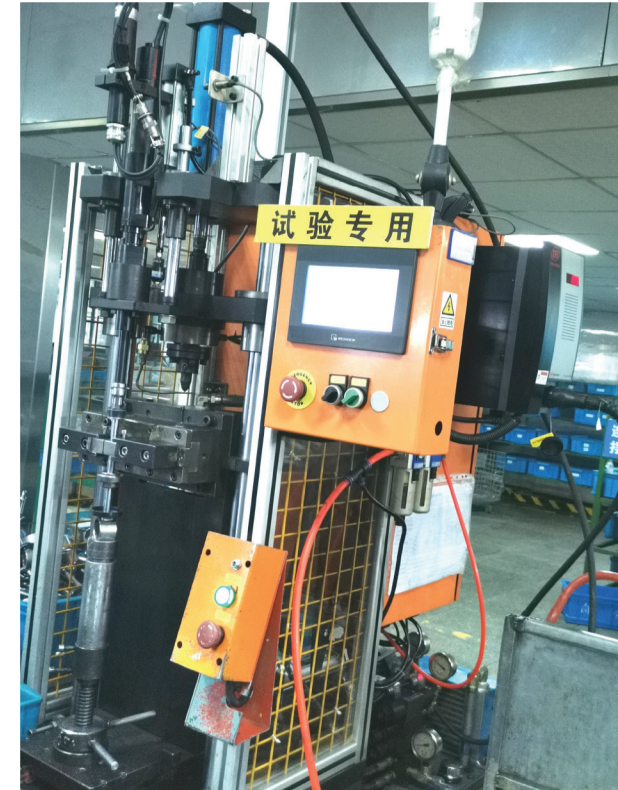


Maraton : Powder Metallurgy

IR Ingersoll Rand.
**Auto-Screwdriving
Machine**

Another Factory

The iron plate is easy to rust, resulting in oil deterioration and valve rust death, resulting in premature failure of the product and unstable force value.



	<p>make : electric shock absorber OEM : 48010-50260 CAR NAME : LEXUS MODEL : 2007-2017 Installation : F/R</p>	
	<p>make : electric shock absorber OEM : 48020-50260 CAR NAME : LEXUS MODEL : 2007-2017 Installation : F/L</p>	
	<p>make : electric shock absorber OEM : 48010-50370 CAR NAME : LEXUS MODEL : 2007-2017 Installation : F/R</p>	
	<p>make : electric shock absorber OEM : 48020-50242 CAR NAME : LEXUS MODEL : 2007-2017 Installation : F/L</p>	
	<p>make : electric shock absorber OEM : 48080-50420 CAR NAME : LEXUS MODEL : 2007-2017 Installation : R/R</p>	
	<p>make : electric shock absorber OEM : 48080-50420 CAR NAME : LEXUS MODEL : 2007-2017 Installation : R/L</p>	
	<p>OEM : 48520-8Z020 CAR NAME : Toyota Corolla MODEL : 2014-2018 Installation : F.L</p>	
	<p>OEM : 48510-8Z172 CAR NAME : Toyota Corolla MODEL : 2014-2018 Installation : F.R</p>	

	<p>OEM : 48510-80381 CAR NAME : Toyota Corolla MODEL : 2008-2012 Installation : F.R</p>	
	<p>OEM : 48520-80140 CAR NAME : Toyota Corolla MODEL : 2008-2012 Installation : F.L</p>	
	<p>OEM : 48530-80440 CAR NAME : Toyota Corolla MODEL : 2008-2012 Installation : R-R.L</p>	
	<p>OEM : 48530-80147 CAR NAME : Toyota Corolla MODEL : 2001-2007 Installation : R-R.L</p>	
	<p>OEM : 48510-80179 CAR NAME : Toyota Corolla MODEL : 2001-2007 Installation : F-R</p>	
	<p>OEM : 48520-80126 CAR NAME : Toyota Corolla MODEL : 2001-2007 Installation : FL</p>	
	<p>OEM : 48520-09V80 CAR NAME : Toyota Camry MODEL : 2012-2017 Installation : FL</p>	
	<p>OEM : 48510-8Z035 CAR NAME : Toyota Camry MODEL : 2012-2017 Installation : FR</p>	
	<p>OEM : 48530-09U51 CAR NAME : Toyota Camry MODEL : 2012-2017 Installation : RR</p>	

	<p>OEM : 48540-09A71 CAR NAME : Toyota Camry MODEL : 2012-2017 Installation : RL</p>	
	<p>OEM : 48510-09N91 CAR NAME : Toyota Camry MODEL : 2007-2012 Installation : F.R</p>	
	<p>OEM : 48520-09G41 CAR NAME : Toyota Camry MODEL : 2007-2012 Installation : F.L</p>	
	<p>OEM : 48530-09L31 CAR NAME : Toyota Camry MODEL : 2007-2012 Installation : R.R</p>	
	<p>OEM : 48540-09691 CAR NAME : Toyota Camry MODEL : 2007-2012 Installation : R.L</p>	
	<p>OEM : 48520-39615 CAR NAME : Toyota Camry MODEL : 1993-2006 Installation : F.L</p>	
	<p>OEM : 48510-80138 CAR NAME : Toyota Camry MODEL : 1993-2006 Installation : F-R</p>	
	<p>OEM : 48530-80142 CAR NAME : Toyota Camry MODEL : 1993-2006 Installation : R.R</p>	

	<p>OEM : 48540-39525 CAR NAME : Toyota Camry MODEL : 1993-2006 Installation : R.L</p>	
	<p>OEM : 48510-0D740 CAR NAME : Toyota Yaris MODEL : 2014-2018 Installation : F.R.L</p>	
	<p>OEM : 48530-0D790 CAR NAME : Toyota Yaris MODEL : 2014-2018 Installation : R..R.L</p>	
	<p>OEM : 48530-80351 CAR NAME : Toyota Yaris MODEL : 2006-2013 Installation : R..R.L</p>	
	<p>OEM : 48520-52140 CAR NAME : Toyota Yaris MODEL : 2006-2012 Installation : F.L</p>	
	<p>OEM : 48510-52C30 CAR NAME : Toyota Yaris MODEL : 2006-2012 Installation : F.R</p>	
	<p>OEM : 48510-80637 CAR NAME : Toyota RAV4 MODEL : 2008-2015 Installation : F.R</p>	
	<p>OEM : 48520-80340 CAR NAME : Toyota RAV4 MODEL : 2008-2015 Installation : R.L</p>	
	<p>OEM : 48531-42131 CAR NAME : Toyota RAV4 MODEL : 2008-2015 Installation : R.L.R</p>	

	<p>OEM : 48510-35330 CAR NAME : TOYOTA FJ MODEL : 2008 Installation : F-R.L</p>	
	<p>OEM : 48530-35140 CAR NAME : TOYOTA FJ MODEL : 2008 Installation : R-R.L</p>	
	<p>OEM : 48510-0K051 CAR NAME : Toyota Hilux MODEL : 2005-2012 Installation : F.R</p>	
	<p>OEM : 48520-0K051 CAR NAME : Toyota Hilux MODEL : 2005-2012 Installation : F.L</p>	
	<p>OEM : 48531-0K010 CAR NAME : Toyota Hilux MODEL : 2005-2012 Installation : R-R.L</p>	
	<p>OEM : 48510-09J10 CAR NAME : Toyota Hilux MODEL : 2006-2020 Installation : F.R.L</p>	
	<p>OEM : 48511-69645 CAR NAME : jeep MODEL : 2006-2016 Installation : F.L.R</p>	
	<p>OEM : 48531-69645 CAR NAME : jeep MODEL : 2006-2016 Installation : R.L.R</p>	
	<p>OEM : 48511-69585 CAR NAME : Landcruiser MODEL : 1998-2007 Installation : F-R.L</p>	


	<p>OEM : 48531-69795 CAR NAME : Landcruiser MODEL : 1998-2007 Installation : R-R.L</p>	
	<p>OEM : 48510-69405 CAR NAME : Landcruiser MODEL : 2008-2014 Installation : F-R.L</p>	
	<p>OEM : 48530-69395 CAR NAME : Landcruiser MODEL : 2008-2014 Installation : R-R.L</p>	
	<p>OEM : 48520-80199 CAR NAME : Lexus ES 350 MODEL : 2007-2012 Installation : F.L</p>	
	<p>OEM : 48530-80241 CAR NAME : Lexus ls 430 MODEL : 2001-2006 Installation : R-R.L</p>	
	<p>OEM : 48510-80456 CAR NAME : Lexus ES 350 MODEL : 2007-2012 Installation : F.R</p>	
	<p>OEM : 48530-80498 CAR NAME : Lexus ES 350 MODEL : 2007-2012 Installation :R.R</p>	
	<p>OEM : 48540-39805 CAR NAME : Lexus ES 350 MODEL : 2007-2012 Installation R.L</p>	
	<p>OEM : 48510-59085 CAR NAME : Lexus LS400 MODEL : 1995-2000 Installation F-R.L</p>	

	<p>OEM : 48530-59125 CAR NAME : Lexus LS400 MODEL : 1995-2000 Installation R-R.L</p>	
	<p>OEM : 48510-80307 CAR NAME : Lexus LS430 MODEL : 2001-2006 Installation F-R.L</p>	
	<p>OEM : 48510-80340 CAR NAME : Lexus LS460 MODEL : 2007-2013 Installation F-R.L</p>	
	<p>OEM : 48530-80387 CAR NAME : Lexus LS460 MODEL : 2007-2013 Installation R.R</p>	
	<p>OEM : 48540-59065 CAR NAME : Lexus LS460 MODEL : 2007-2013 Installation R.L</p>	
	<p>OEM : 48510-80427 CAR NAME : Lexus GS300 MODEL : 2005-2013 Installation F.R</p>	
	<p>OEM : 48520-80174 CAR NAME : Lexus GS300 MODEL : 2005-2013 Installation F.L</p>	
	<p>OEM : 48530-30710 CAR NAME : Lexus GS300 MODEL : 2005-2013 Installation R-R.L</p>	

	<p>make : electric shock absorber OEM: 84176631 84061228 23312167 CAR NAME : GMC YUKON MODEL : 2015-2018 Installation : F</p>	
	<p>make : electric shock absorber OEM : 15886465 15909491 CAR NAME :GMC YUKON MODEL : 2007-2013 Installation : F</p>	
	<p>make : electric shock absorber OEM : 84176675 CAR NAME :GMC YUKON MODEL : 2015-2018 Installation : R</p>	
	<p>make : electric shock absorber OEM : 23487280 CAR NAME :GMC YUKON MODEL : 2003-2014 Installation : R</p>	
	<p>OEM : 506-1138 CAR NAME : Malibu MODEL : 2014-2019 Installation : F/L</p>	
	<p>OEM : 506-1137 CAR NAME : Malibu MODEL : 2014-2019 Installation : F/R</p>	
	<p>OEM : 22862246 CAR NAME : Malibu MODEL : 2014-2019 Installation : R.R.L</p>	
	<p>OEM : 72654ST CAR NAME : Ford Taurus MODEL : 2013-2017 Installation : F/R</p>	
	<p>OEM : 72653ST CAR NAME : Ford Taurus MODEL : 2013-2018 Installation : F/L</p>	

	OEM : ASH23477 CAR NAME : Ford Taurus MODEL : 2013-2019 Installation : R.R.L	
	OEM : ASH1255 CAR NAME : Ford Taurus MODEL : 2010-2012 Installation : R.R.L	
	OEM : AST472 CAR NAME : Ford Taurus MODEL : 2010-2012 Installation : F/R	
	OEM : AST473 CAR NAME : Ford Taurus MODEL : 2010-2012 Installation : F/L	
	OEM : 92223606 CAR NAME : Caprice MODEL : 2007/2012 Installation : F.R	
	OEM : 92223607 CAR NAME : Caprice MODEL : 2007/2012 Installation : F.L	
	OEM : 92232881 CAR NAME : Caprice MODEL :2012/2007 Installation : R-R.L	
	OEM : 540-460 CAR NAME : TAHO MODEL : 2007-2015 Installation : F/R/L	
	OEM : 560-217 CAR NAME : TAHO MODEL : 2007-2015 Installation : R/R/L	
	OEM : ASH12273 CAR NAME : Victoria MODEL : 2003-2012 Installation : F/R/L	
	OEM : ASH12276 CAR NAME : Victoria MODEL : 2005-2010 Installation : R/R/L	


	<p>OEM : ASH12288 CAR NAME : Ford Expedition MODEL : 2007-2012 Installation : F/R/L</p>	
	<p>OEM : ASH12291 CAR NAME : Ford Expedition MODEL : 2010-2012 Installation : R/R/L</p>	
	<p>OEM : 5180754AA CAR NAME : Dodge Charger MODEL : 2011-2015 Installation : F/L</p>	
	<p>OEM : 5180753AA CAR NAME : Dodge Charger MODEL : 2011-2015 Installation : F/R</p>	
	<p>OEM : 5180725AA CAR NAME : Dodge Charger MODEL : 2006-2010 Installation : R/R/L</p>	
	<p>OEM : 68072063AE CAR NAME : Dodge Charger MODEL : 2011-2020 Installation : F/R</p>	
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	<p>OEM : 68072161AB CAR NAME : Dodge Charger MODEL : 2011-2015 Installation : R/R/L</p>	
	<p>OEM : 540-1663 CAR NAME : GMS MODEL : 2015-2019 Installation : F/R/L</p>	

	<p>OEM : 540-1610 CAR NAME : GMS MODEL : 2015-2020 Installation : R/R/L</p>	
	<p>OEM : ASH24717 CAR NAME : Ford Expedition MODEL : 2013-2019 Installation : F/R/L</p>	
	<p>OEM : 520-117 CAR NAME : GMS MODEL : 2000-2006 Installation : F/R/L</p>	
	<p>OEM : ASH23406 CAR NAME : Ford Explorer MODEL : 2006-2010 Installation : F/R/L</p>	
	<p>OEM : ASH 23407 CAR NAME : Ford Explorer MODEL : 2006-2010 Installation : R/R/L</p>	

	<p>OEM :54650-1E200 CAR NAME : Accent MODEL : 2006-2010 Installation F/L</p>	
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	<p>OEM :55300-1R100 CAR NAME : Accent MODEL : 2006-2010 Installation R/L/R</p>	
	<p>OEM :54650-25100 CAR NAME : Accent MODEL : 2000-2005 Installation F/L</p>	
	<p>OEM :54660-25100 CAR NAME : Accent MODEL : 2000-2005 Installation F/R</p>	
	<p>OEM :55350-25150 CAR NAME : Accent MODEL : 2000-2005 Installation R/L</p>	
	<p>OEM :55360-25150 CAR NAME : Accent MODEL : 2000-2005 Installation R/R</p>	
	<p>OEM :54650-1R000 CAR NAME : Accent MODEL : 2011-2017 Installation F/L</p>	

	<p>OEM :54660-1R000 CAR NAME : Accent MODEL : 2011-2017 Installation F/R</p>	
	<p>OEM :54651-2H000 CAR NAME : Elantra MODEL : 2006-2010 Installation F/L</p>	
	<p>OEM :54661-2H000 CAR NAME : Elantra MODEL : 2006-2010 Installation F/R</p>	
	<p>OEM :54650-3X250 CAR NAME : Elantra MODEL : 2012-2016 Installation F/L</p>	
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	<p>OEM :55361-2D100 CAR NAME : Elantra MODEL : 2000-2006 Installation R/R</p>	
	<p>OEM :55351-2D100 CAR NAME : Elantra MODEL : 2000-2006 Installation R/L</p>	

	<p>OEM :55311-2T010 CAR NAME :Sonata MODEL : 2011-2015 Installation R/L/R</p>	
	<p>OEM :54651-2S050 CAR NAME :Tucson MODEL : 2011-2015 Installation F/L</p>	
	<p>OEM :54661-2S050 CAR NAME :Tucson MODEL : 2011-2015 Installation F/R</p>	
	<p>OEM :54650-4H150 CAR NAME :H 1 MODEL : 2011-2015 Installation F/L</p>	
	<p>OEM :54660-4H150 CAR NAME :H 1 MODEL : 2008-2015 Installation F/R</p>	
	<p>OEM :51605-S5A-C02 CAR NAME :Civic MODEL :2005 Installation F/R</p>	
	<p>OEM :51606-S5A-C02 CAR NAME :Civic MODEL :2005 Installation F/L</p>	
	<p>OEM :51605-S5A-305 CAR NAME :Civic MODEL :2001 Installation F/R</p>	

	<p>OEM :51606-S5A-305 CAR NAME :Civic MODEL :2001 Installation F/L</p>	
	<p>OEM: 52610-SNE-A03 CAR NAME :Civic MODEL :2006 Installation R</p>	