





SERVICE EXCHANGE TRANSMISSIONS OR REMANUFACTURING PROGRAMME

Your transmission may not let you down! A SPECIALIZED TEAM IS AT YOUR SERVICE FOR A QUICK AND EFFICIENT REPAIR!!!

REBUILT TRANSMISSION UNIT: Repair and possible test of all forklift transmissions. In your faulty unit, only repair of the assy is done and worn-out parts are replaced to make the assy useable again. Wear parts such as bearings, springs,... may be used again.

REMANUFACTURING UNIT: The reman unit is thoroughly cleaned, inspected and renewed to 'like new' condition. Reassembly is done using new wear items. The unit is fully inspected and tested. We have a large selection of reman units in stock.

OUR PROGRAM CONSISTS OF THE FOLLOWING MAKES

CLARK, FENWICK, HYSTER, TOYOTA, TCM, CATERPILLAR, YALE, MITSUBISHI, NISSAN, LINDE HYDRAULICS HURTH, VOITH, ZF, ALLISON, FUNK, TWIN DISC, BROCKHOUSE, **BORG WARNER, GRAZIANO**

TOTAL SOURCE® REMAN TRANSMISSION STANDARDS

All wear items are replaced with components that meet or exceed OEM specifications, such as

- · All seals
- · All gaskets
- · All bearings
- · All clutch discs and separators
- All springs
- · All thrust washers
- · Transmission pumps (new or remanufactured)
- All piston rings
- · All synchronizers (manual units)
- The assemblies, if possible, are tested at operating temperature and with several speed intervals for:
 - · proper clutch engagement
 - · correct pressures
 - · leak test
 - · noise levels
- · Strict quality standards, including a tracking system which verifies all reman steps

TRANSMISSION WARRANTY POLICY

TOTAL SOURCE® warrants each remanufactured transmission to be free from defects in material or in workmanship during 6 months or 1000 working hours after delivery (whichever

The warranty is subject to the following conditions:

- the unit must have been installed by a certified technician;
- the unit must not have undergone any (intents for) repair, modification or disassembly;
- · damage as a consequence of abnormal use, overloading, misuse, abuse, improper installation or accident are not covered by the warranty;
- automatic transmissions must have a new or remanufactured torque converter;
- · transmission cooling lines and radiator must be flushed;
- all filler lines must be flushed and filters replaced prior to installation.

A warranty claim on a unit will only be accepted if it shows normal use, and all housings, drums and converters can be re-used. If oil drained from the unit contains steel- and/or aluminium particles, it was not put to normal use and the warranty will be limited. In that case, TOTAL SOURCE® will charge an extra cost.

Warranty claims must be reported in accordance with TOTAL SOURCE®'s Complaint Handling Procedure (a "Return Application Form" is available in the Master Catalogue, via QuickSource, website, or on demand). Only after your warranty claim has been accepted, TOTAL SOURCE® will start working on your unit. TOTAL SOURCE® may either repair the unit, or may replace defective components.

















TRANSMISSIONS

Experts in CLARK transmissions !!!

Service exchange transmissions remanufacturing programme



All types of forklifts and following series:

18.000 - 24.000 - 28.000 - 32.000 - 34.000 - 36.000 - 40.000 - CL 273 These transmissions are used in

SVE-TRUCK, KALMAR, TERBERG, HYSTER, BELOTTI, PPM,... and in earthmoving & construction machines such as FAUN, GROVE, MICHIGAN,...

If you have a transmission problem, let us send you our best offer.

Transmissions are directly available from stock.





PARTS USED FOR CLARK TRANSMISSION



PARTS USED FOR ZF TRANSMISSION



PARTS USED FOR ALLISON TRANSMISSION







MANUAL TRANSMISSIONS



Component parts:

Plates, discs, thrust bearings, seal kits, gears, forks, shafts,...

AUTOMATIC TRANSMISSIONS



Component parts:

Converter, transmission pumps, gears, discs, gears and bearings, shafts, springs, seal kits,...

CONVERTER PARTS USED FOR POWER SHIFT TRANSMISSIONS



IMPELLER



TURBINE



STATOR





EXAMPLE	
500 00 00	

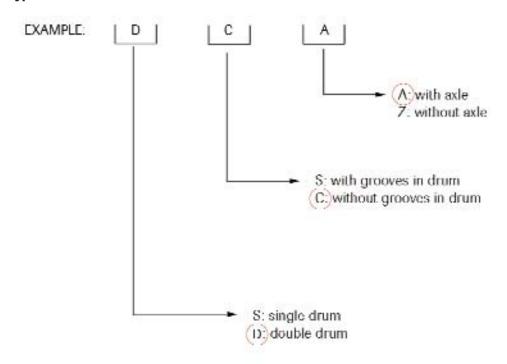
Company:	
Customer code:	
Name:	
Fax number:	
Truck make:	
Truck type:	Serial nr

ı		TY-CL	Type of clutch drum.
ı	,.	L1	Total length with shaft, see types.
ı	,.	D1	Diameter outer drum.
ı		L2	Length of clutch drum.
ı	,.	D2	Diameter of outer drum gear.
ı		Z1	Number of teeth on outer drum.
ı		AT-SL	Number of grooves.
ı		В	Width of the groove.
ı	,.	D3	Diameter segment zone.
ı		AT-GR	Number of segment grooves.
ı	,.	D4	Diameter bearing ring on segments side (Side A).
ı	,.	D5	Diameter bearing ring on the other side (Side B).
ı	,.	D6	Diameter shaft gear on segments side.
ı		Z2	Number of teeth on shaft gear, on segments side (see types).
ı	,.	D7	Diameter shaft gear on the other side.
ı		Z3	Number of teeth on shaft gear, on other side of the segments (see types).
ı		AC1	Number of splines on shaft on segments side
ı			(External splines have priority over internal splines)
ı		AC2	Number of splines on shaft on other side
ı			(External splines have priority over internal splines).
ı	,.	D8	Diameter, see types.
ı		AC3	Number of internal splines in the drum, only for types without shaft.
		KPT	YES/NO. If clutch drum is complete.
		TY-MA	YES = To be determined by truck type.
1			

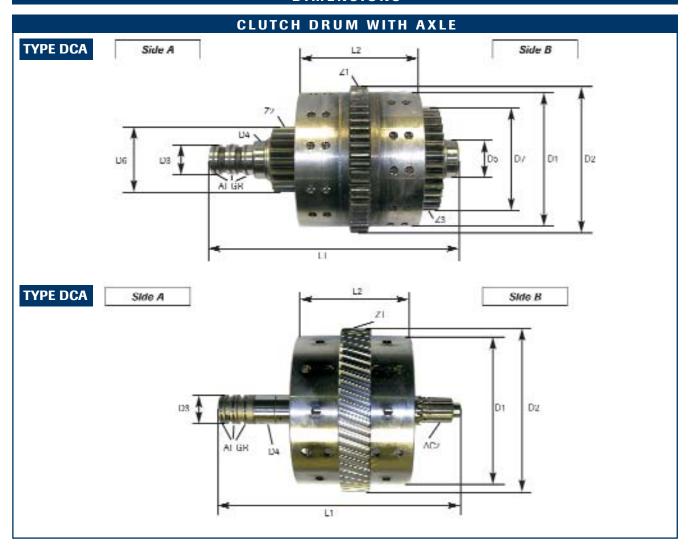




Indicate type of clutch drum:

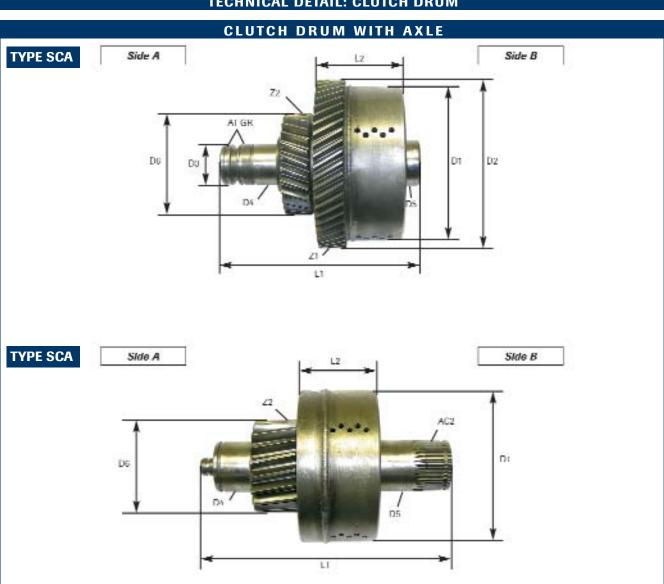


DIMENSIONS







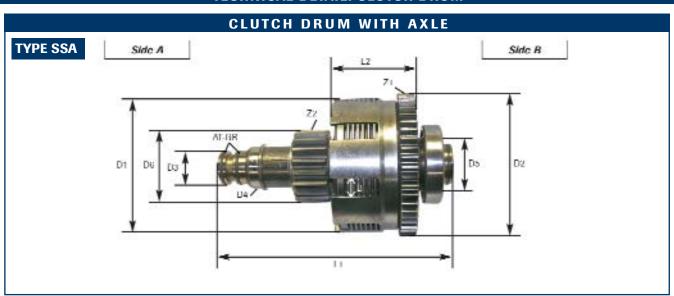


CLUTCH DRUM WITH AXLE

TYPE DSA Side A Side B AI-GR 177 Al SL





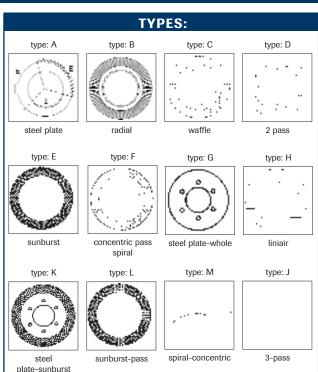




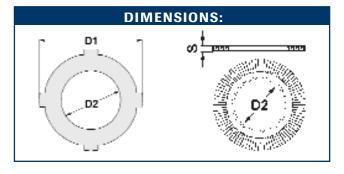


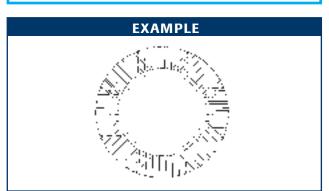


TECHNICAL DETAIL: TRANSMISSION DISCS



Company:	
Customer code:	
Name:	
Fax number:	
Truck make:	
Truck type:	Serial nr.:





- 1) TY:..... type (as per picture)
- D1: max. outer diameter (mm)
- 3 D2: inner diameter measured from tooth tip to tooth tip (mm)
- S:..... thickness of lining (if type A total thickness) (mm)
- (5) AT-TA:.....number of teeth
- 6 LG-TA:..... position of teeth: I = inner, E = outer, Z= no teeth
- (7) MAT:..... composite material of lining:

B & C = Bronze (sinter)

P = Paper

G = Graphite

S = Steel



A slightly bent/spherical transmission disc exists with type A, If you have this type, please indicate the disc type as AX.





	USED
REF	103TA8217
TYPE D1 D2 S AT-TA LG-TA MAT	D 148,5 107,6 1,8 52 I P



	REF
	TYPE D1 D2 S AT-TA LG-TA MAT



	USEL
REF	103TA8108
TYPE D1 D2 S AT-TA LG-TA MAT	A 131,5 80 1,6 42 E S



	USEI
REF	103TA8069
TYPE	D
D1	124,9
D2	68,5
S	2,6
AT-TA	41
LG-TA	I
MAT	Р

103TA8094

Α 131 80 1,6

Ε S



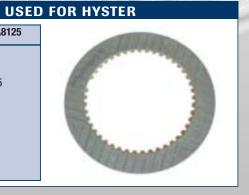
	USED
REF	106TA7818
TYPE	Α
D1	138,6
D2	99,6
S	1,8
AT-TA	54
LG-TA	Е
MAT	S



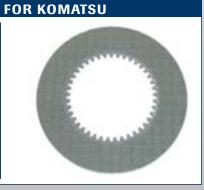
REF 10	3TA8168
TYPE A D1 13 D2 99 S 3 AT-TA 54 LG-TA E MAT S	



	USEL
REF	103TA8125
TYPE D1 D2	D 133,5 92,8
S AT-TA LG-TA MAT	2,2 44 I P



	USED
REF	103TA8068
TYPE D1	D 124,9
D2	68,4
S AT-TA	3 41
LG-TA	
MAT	Р



TYPE A D1 138 D2 80 S 3,2 AT-TA 4 LG-TA E	USED	
D1 138 D2 80 S 3,2 AT-TA 4 LG-TA E	REF	103TA8156
MAT S	D1 D2 S AT-TA LG-TA	138 80 3,2 4



USED FOR CLARK		
REF	103TA8250	and the same of th
ГҮРЕ	А	1
D1	154	
D2	113,8	- EE
S	1,8	- A
AT-TA	60	
LG-TA	E	400
MAT	S	

This is only a small selection of what we can offer. Call our sales department for more details.



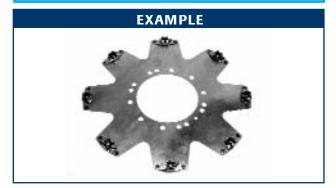


TECHNICAL DETAIL: CONVERTER PLATES



DIMENSIONS:		
<u>type 1:</u>		
type: A	type: B	type: C
The second	2.	- E: E: -
- 1		2 (2
round	star	square or rectangular
<i>type 2:</i> A: flat:		
B: bent: = ¯	<u></u> -	TA

Company:	
Customer code:	
Name:	
Fax number:	
Truck make:	
Truck type:	Serial nr.:



- 1 TY1: Type 1: see diagrams
- (2) TY2: Type 2: see diagrams (flat or bent)
- (3) AT-LA: Number of fins, only for type B
- 4 D1: Inner diameter, see diagram (mm)
- 5 D2: Outer diameter, see diagram (mm)
- 6 L1:..... If TY1 = C (if rectangular, L1 is largest measurement)
- 7 H1: Thickness of plate, see diagram (mm)
- 8 H2: Total height of plate if bent, see diagram (mm)
- 9 AT-GA1:..... Number of holes around central hole (= total number of holes)
- D3: Diameter of holes around central hole (if 2 different diameters, take the largest one), see diagrams (mm)
- 11) VTI:..... Reinforced with an inner ring yes/no
- 12) AT-GA2: Number of holes on outside
- 13 D4: Diameter of holes on outside, see diagrams (mm)
- 14) TA: Type of thread
- (15) VTU:..... Reinforced on the outside yes/no
- 16 H3: Thickness of outer reinforcement, see diagram





USED FOR CLARK		
REF	106TA7816	- the
TY1 TY2 AT-LA D1 D2 L1 H1 H2 AT-GA1 AT-GA2	B A 8 123,5 363 0 0,5 0 14	TO THE RESERVE OF THE PERSON O

	US
REF	106TA7817
TY1 TY2 AT-LA D1 D2 L1 H1 H2 AT-GA1 AT-GA2	C A 0 214 0 270 1,5 0 4



	USE
REF	103TA8000
TY1 TY2 AT-LA D1 D2 L1 H1 H2 AT-GA1 AT-GA2	C A 0 214 0 270 0,5 0 4



TY1 B TY2 B AT-LA 4 D1 72 D2 340 L1 0 H1 1,2 H2 AT-GA1 AT-GA2 8		USED
TY2 B AT-LA 4 D1 72 D2 340 L1 0 H1 1,2 H2 7 AT-GA1 12	REF	103TA7995
	TY2 AT-LA D1 D2 L1 H1 H2 AT-GA1	B 4 72 340 0 1,2 7



	USED
REF	103TA7985
TY1 TY2 AT-LA D1 D2 L1 H1 H2 AT-GA1 AT-GA2	A A 0 58 306 0 1,5 0 8



	USE
REF	103TA8025
TY1 TY2 AT-LA D1 D2 L1 H1 H2 AT-GA1 AT-GA2	B B 4 205 338,5 0 2 20 4 4



	USI
REF	103TA7982
TY1 TY2 AT-LA D1 D2 L1 H1 H2 AT-GA1 AT-GA2	A A 0 65 342 0 2 0 6 14



	USE
REF	106TA7619
TY1 TY2 AT-LA D1 D2 L1 H1 H2 AT-GA1 AT-GA2	A A 0 133 340 0 1,6 0 6



	USEI
REF	103TA7969
TY1 TY2 AT-LA D1 D2 L1 H1 H2 AT-GA1 AT-GA2	A A 0 133,5 186 0 2 0 0 6



USED FOR CLARK		
REF	106TA7718	
TY1 TY2 AT-LA D1 D2 L1 H1 H2 AT-GA1 AT-GA2	B A 8 133,7 363 0 0,5 0 15	





NOTES

3
39









SERVICE EXCHANGE CONVERTERS

Remanufactured Torque Converters for Material Handling Applications

We can offer nearly all torque converters for material handling applications. High quality remanufactured!

We have a large stock of popular models ready for shipping.

HYSTER, BORG WARNER, CATERPILLAR, MITSUBISHI, NISSAN, YALE, CLARK, TOYOTA, TCM, DAEWOO, KOMATSU, KALMAR, ZF, GRAZIANO, BAKER, FUNK, LANCER BOSS, LANSING, ALLIS CHALMERS, COVENTRY CLIMAX, AND MORE ...

You can also send us your converter and we will repair it for you in no time.

If you don't have the exact partnumber, we can identify your converter very fast!

Also see our identification sheet...

For more info contact us!





TECHNICAL DETAIL: CONVERTERS



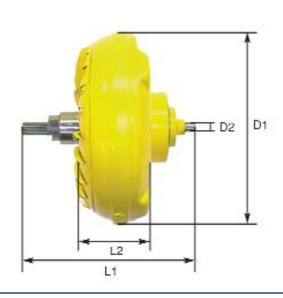
EXAMPLE		
TYPE A	ТҮРЕ В	

Company: Customer code: Name: Fax number: Truck make: Truck type: Serial nr.:

- 60	TY-CV Type Converter Type A : welded	
	Type B : bolted	
	D1 Maximum external diameter of the converter (see	fig
	L1 Dimensions (see figure).	
	L2 Dimensions (see figure).	
	D2 Diameter (see figure).	
	D3 Diameter (see figure).	
	D4 Diameter (see figure).	
	AT-SC Number of blades (see figure).	
	L3 Distance (see figure).	
34.5	Z1 Number of teeth.	
10000	AC1Number of splines, inside the converter.	
	AC2 Number of deepest splines, inside the converter.	
	AT-BG Number of mounting holes.	
	C Centre distance mounting holes.	
***	AS YES/NO : if a fixed axle is fitted or not.	
	D5 Diameter of the fixed axle, if fitted.	
594	Z2 Number of teeth on the fixed axle, if fitted.	
	TY-MO YES — Can only be determined with the engine type	oe.

TY-CV Type Converter Type A: welded Type B: bolted D1 Maximum external diameter of the converter (see figure). L1 Dimensions (see figure). L2 Dimensions (see figure). D2 Diameter (see figure). D3 Diameter (see figure). D4 Diameter (see figure). AT-SC Number of blades (see figure). L3 Distance (see figure). Z1 Number of teeth. AC1..... Number of splines, inside the converter. AC2..... Number of deepest splines, inside the converter. AT-BG Number of mounting holes. C Centre distance mounting holes. AS YES/NO : if a fixed axle is fitted or not. D5..... Diameter of the fixed axle, if fitted. Z2 Number of teeth on the fixed axle, if fitted.

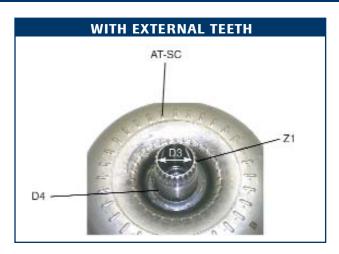


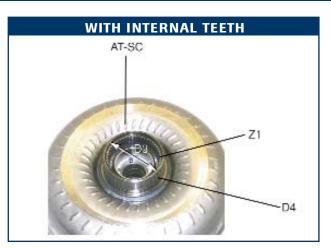


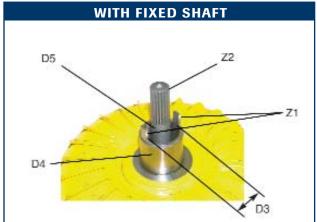




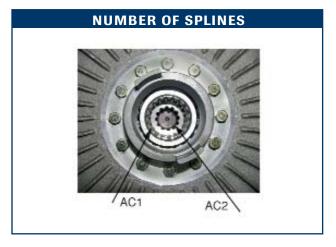
TECHNICAL DETAIL: CONVERTERS



















TECHNICAL DETAIL: CLUTCH COVER ASSEMBLIES

TYP	ES:
type: A	type: B
with regular fingers	with round fingers
type: C	type: D

Company:	
Customer code:	
Name:	
Fax number:	
Truck make:	
Truck type:	Serial nr.:



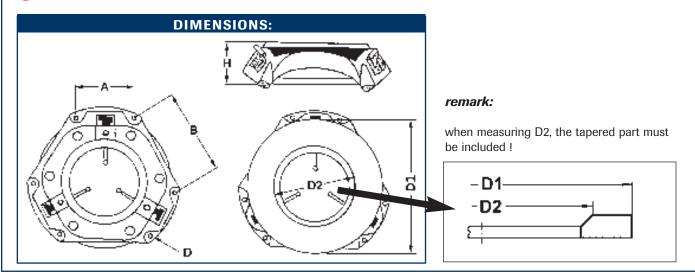
1) TY:type (as per picture)

with bearing

2 D1:outer diameter retaining ring (mm)

with diaphragm

- 3 D2:inner diameter retaining ring (mm)
- 4 AT-VE: number of springs
- 5 AT-VI: number of fingers
- 6 A: fixing hole dimensions, as per picture (mm)
- 7 B: fixing hole dimensions, as per picture (mm)
- 8 H:height of clutch cover only !!!







ASSEMBLIES

COVER

CLUTCH

	USEC
REF	103TA8707
TYPE D1 D2 AT-VE AT-VI A B	C 252 150 9 3 145 145



	REF
	TYF D1 D2 AT-' AT-' A B

۷E

USEI	FOR NISSAN	
\8693	0 0	
	2000	1
	1009	
	1.	9

	USED
REF	103TA8639
TYPE D1 D2 AT-VE AT-VI A B	A 225 156 9 3 105 156 62,5



	USEI
REF	103TA8653
TYPE	A
D1	277
D2	167
AT-VE	9
AT-VI	3
Α	108
В	202
Н	69

103TA8693

275 170



TYPE C D1 276 D2 162 AT-VE 6 AT-VI 3		USED
D1 276 D2 162 AT-VE 6 AT-VI 3	REF	103TA8714
B 202 H 69	D1 D2 AT-VE AT-VI A B	276 162 6 3 108 202



	USEI
REF	103TA8711
TYPE D1 D2 AT-VE AT-VI A B	C 275 175 9 3 108 202 69
	<u> </u>



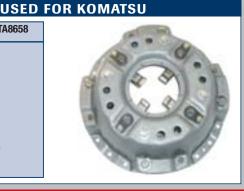
USEL
103TA8648
А
275
174
6
3
108
202
69



USED F
103TA8656
A 278 174 12 4 82 159 82



	USED
REF	103TA8658
TYPE D1 D2 AT-VE AT-VI A B	A 278 174 12 4 82 159 82



	USED F
REF	103TA8654
TYPE D1 D2 AT-VE AT-VI A B	A 277 174 12 4 83 160



This is only a small selection of what we can offer. Call our sales department for more details.



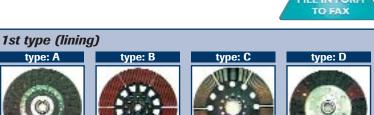


TECHNICAL DETAIL: CLUTCH FRICTION PLATES

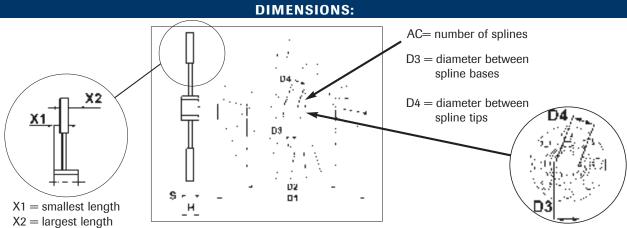
Company:	
Customer code:	
Name:	
Fax number:	

Truck make: Truck type:

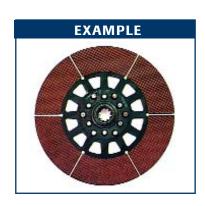








- 1 D1:.... outer diameter of lining (mm)
- 2 D2: inner diameter of lining (mm)
- 3 TY1: type of lining (as per picture)
- TY2: type of dampening (as per picture)
- 5 D3:..... diameter between spline bases (mm)
- D4: diameter between spline tips (mm) 6
- 7 AC: number of splines
- 8 S: thickness of lining (mm)
- H: height of boss (mm)
- 10 X1: measurement, see pictures (mm)
- 11 X2: measurement, see pictures (mm)





103TA8902 REF 251 161 A B 25,3 22,5 18 8,2 31 0 31



	USEI
REF	103TA8926
D1 D2 TY1 TY2 D3 D4 AC S H X1	277 176 A B 25,3 22,6 18 8,8 35,7 13 30,4



	USEC
REF	103TA8879
D1 D2 TY1 TY2 D3 D4 AC S H X1	224 160 A B 29,1 10 8,1 26 0



REF	103TA8918
D1 D2 TY1 TY2 D3 D4 AC S H X1	275 175 A B 29,9 24 10 8,8 35 13,5 30,3



	USED
REF	103TA8920
D1 D2 TY1 TY2 D3 D4 AC S H X1	275 175 A B 28,1 24,1 12 8,5 34,7 13,4 29,2



USE	
REF	103TA8774
D1 D2 TY1 TY2 D3 D4 AC S H X1	353 220 B A 35 28,5 10 6,6 45,8 11,7 39,5



USED	
REF	103TA8917
D1 D2 TY1 TY2 D3 D4 AC S H X1	275 180 A B 24,8 21,6 13 9,3 36,8 12,5 32,4



	USED
REF	103TA8931
D1 D2 TY1 TY2 D3 D4 AC S H X1	280 165 A B 25 21,5 13 10 39 18,2 28,4



	USEC
REF	103TA8768
D1 D2 TY1 TY2 D3 D4 AC S H X1	327 204 B A 35,3 28,5 10 6,4 30,6 15 23,5



	USED F
REF	103TA8916
D1 D2 TY1 TY2 D3 D4 AC S H X1	275 180 A B 24,9 21,5 13 9 35 12 30,7



This is only a small selection of what we can offer. Call our sales department for more details.





SERVICE EXCHANGE DIFFERENTIALS OR REMANUFACTURING PROGRAM



Your differential may not let you down! A SPECIALIZED TEAM IS AT YOUR SERVICE FOR A QUICK AND EFFICIENT REPAIR!

REBUILT DIFFERENTIAL UNIT: Repair of your faulty unit (an economical repair of the assy is done and worn-out parts are replaced to make the assy useable again.) and possible test of all forklift differentials.

REMANUFACTURING UNIT: The reman unit is thoroughly cleaned, inspected and renewed to 'like new' condition. Reassembling is done using new wear items. The unit is fully inspected and tested. A large selection of remanufacturing units are in stock.

OUR PROGRAM CONSISTS OF THE FOLLOWING MAKES

ROCKWELL, KESSLER, KIRCKSTALL, VOLVO, CLARK, HURTH, TOYOTA, MITSUBISHI, NISSAN, ...

TOTALSOURCE® REMAN DIFFERENTIAL STANDARDS

All wear items are replaced with components that meet or exceed OEM specifications, such as

- · All seals
- · All gaskets
- · All bearings
- · All washers
- · Proper installed gear and pinion
- · The assemblies, if possible, are tested at operating temperature and with several speed intervals for
 - · right clearances
 - · proper gear and pinion adjustments
 - · correct pressures
 - · leak test
 - · noise levels
- · Strict quality standards, including a tracking system which verifies all reman steps

DIFFERENTIAL WARRANTY POLICY

TotalSource® warrants each remanufactured [differential] to be free from defects in material or in workmanship during 6 months or 1000 working hours after delivery (whichever occurs first).

The warranty is subject to the following conditions:

- the unit must have been installed by a certified technician;
- the unit must not have undergone any (intents for) repair, modification or disassembly;
- · damage as a consequence of abnormal use, overloading, misuse, abuse, improper installation or accident are not covered by the warranty.

A warranty claim on a unit will only be accepted if it shows normal use, and the main housing can be re-used. If oil drained from the unit contains steel- and/or aluminium particles, it was not put to normal use and the warranty will be limited. In that case, TotalSource® will charge an extra cost.

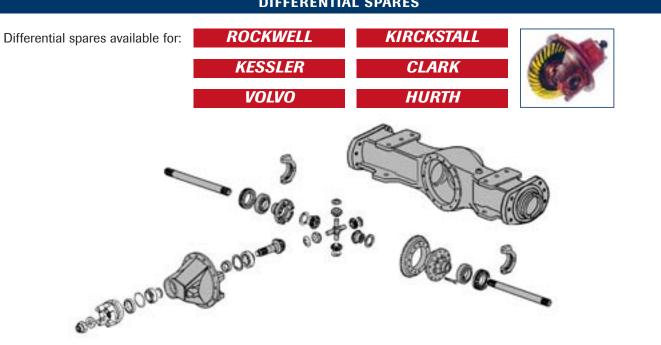
Warranty claims must be reported in accordance with TotalSource®'s Complaint Handling Procedure (standard Form is available in the Master Catalogue, via QuickSource, website, or on demand). Only after your warranty claim has been accepted, TotalSource® will start working on your unit.

TotalSource® may either repair the unit, or may replace defective components.













Component parts:

Ring gear and pinion, case and gear, washers, drive axle, shafts, bearings, seals, cases,...





TECHNICAL DETAIL: GEAR AND PINIONS



1

2

3

4

5

6

7

8

(9)

10



	Truck make:
	Truck type: Serial nr.:
TY-KR type of g	gear (see types)
D1 smallest	internal diameter gear
D2 largest i	nternal diameter gear
AC1number	of splines (only with type C)
D3 external	diameter gear
T1number	of teeth gear
RH/LH direction	of teeth on gear (see pictures)
L1 total len	gth pinion
T2number	of teeth on pinion

Company:

Name:

Customer code:

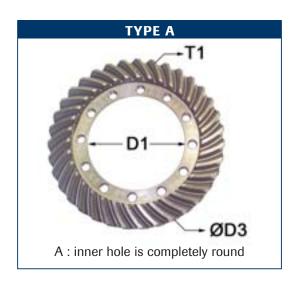
Fax number:

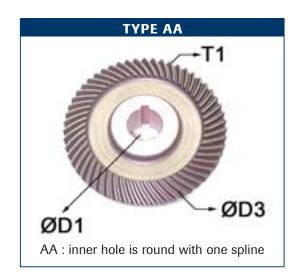
AC2..... number of splines pinion (if any)

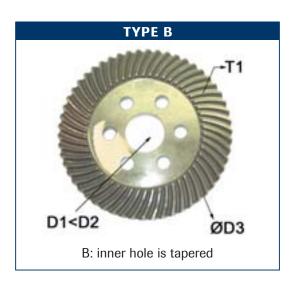




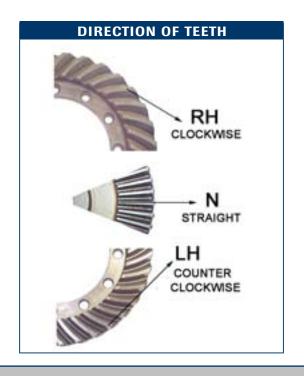
TECHNICAL DETAIL: GEAR AND PINIONS















PINIONS

GEAR AND



USED FOR HYSTER 103TA8996 REF TY-KR
D1
D2
AC1
D3
T1
RH/LH
L1
T2
AC2 A 158,7 0 304,2 42 RH 209,4 6 27



MILLER	The same	4
Similar Control		
44111	(M)	

USED FOR TOYOTA		
REF	103TA9020	
TY-KR D1 D2 AC1 D3 T1 RH/LH L1 T2 AC2	A 145 0 0 286,7 35 LH 207 6	

	USED
REF	107TA8367
TY-KR D1 D2 AC1 D3 T1 RH/LH L1 T2 AC2	C 31,2 35,7 16 150 41 RH 126,9 6



USED FOR AMEISE-JUNGHEINRICH		
REF	103TA9102	
TY-KR D1 D2 AC1 D3 T1 RH/LH L1 T2 AC2	C 52 60,3 8 199 47 RH 173 7	

U:	
REF	103TA9095
TY-KR D1 D2 AC1 D3 T1 RH/LH L1 T2 AC2	C 45,3 50,5 24 182,7 40 RH 149,6 7



	USI
REF	103TA9101
TY-KR D1 D2 AC1 D3 T1 RH/LH L1 T2 AC2	A 178,8 0 0 269,3 44 LH 153,5 7 27



USE	
REF	103TA9021
TY-KR D1 D2 AC1 D3 T1 RH/LH L1 T2 AC2	A 175 0 0 286,9 35 LH 203,3 6



USED FOR AMEISE-JUNGHEINRICH			
REF	107TA8368		
TY-KR D1 D2 AC1 D3 T1 RH/LH L1 T2 AC2	C 46 54 8 152,7 32 RH 135,7 7		

	USED F
REF	107TA8369
TY-KR D1 D2 AC1 D3 T1 RH/LH L1 T2 AC2	C 46,1 50,6 24 169,8 37 RH 206 6



	US	ED FOR MIC	
REF	107TA8370	111111111111111111111111111111111111111	
TY-KR D1 D2 AC1 D3 T1 RH/LH L1 T2 AC2	C 38 42 21 176 43 RH 159,5 7		





BNOINIG

AND

USED FOR BT 107TA8371 REF TY-KR D1 D2 AC1 D3 25,4 28,6 125 34 RH T1 RH/LH 118,4 7 14 L1 T2 AC2



|--|

2		
3)		
1		
+		
NE.		
	_	

US	USED FOR AMEISE-JUNGHEINRICH				
REF	107TA8372				
TY-KR D1 D2 AC1 D3 T1 RH/LH _1 T2 AC2	C 55 60,2 28 208 41 RH 169,5 7				

	USEL
REF	103TA8992
TY-KR D1 D2 AC1 D3 T1 RH/LH L1 T2 AC2	A 159 0 0 304,4 42 RH 209 6 27



USE	
REF	103TA8981
TY-KR D1 D2 AC1 D3 T1 RH/LH L1 T2 AC2	C 38 42,2 21 198 41 RH 223,5 6



TY-KR A D1 144 D2 0 AC1 D3 229,7 T1 31 RH/LH LH L1 271,2 T2 6 AC2 19	_		USED
D1 144 D2 0 AC1 0 D3 229,7 T1 31 RH/LH LH L1 271,2 T2 6		REF	103TA8997
		D1 D2 AC1 D3 T1 RH/LH L1 T2	144 0 0 229,7 31 LH 271,2



	U
REF	103TA9036
TY-KR D1 D2 AC1 D3 T1 RH/LH L1 T2 AC2	C 46 50,2 8 171,5 37 RH 151 6



	USED
REF	103TA9164
TY-KR D1 D2 AC1 D3 T1 RH/LH L1 T2 AC2	A 30 0 0 139,4 55 RH 26,2 14



	USED
REF	107TA8373
TY-KR D1 D2 AC1 D3 T1 RH/LH L1 T2 AC2	A 163,5 0 0 289,3 39 LH 293,7 7



	USED
REF	103TA9032
TY-KR D1 D2 AC1 D3 T1 RH/LH L1 T2 AC2	C 41,3 45,4 22 146 37 RH 123,6 6



	USE
REF	107TA8374
TY-KR D1 D2 AC1 D3 T1 RH/LH L1 T2 AC2	C 59,1 63,5 29 208 43 RH 172 8

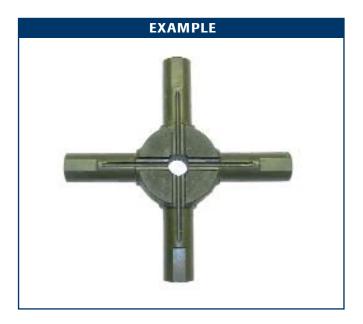


This is only a small selection of what we can offer. Call our sales department for more details.





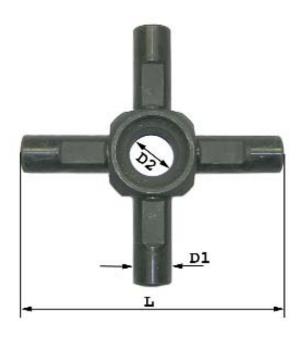
TECHNICAL DETAIL: DIFFERENTIAL CROSS





Company:		
Customer code:		
Name:		
Fax number:		
Truck make:		
Truck type: Serial nr.:		

- 1 L: total length (see picture)
- 2 D1: diameter (see picture)
- 3 D2: diameter (see picture)











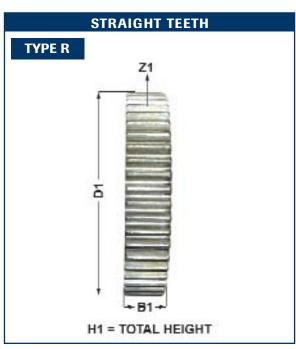
Company:	
Customer code:	
Name:	
Fax number:	
Truck make:	
Truck type:	Serial nr.:

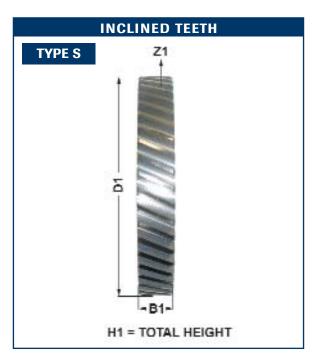
	TY-TW type of gear, see types
, .	D1 dimension, see types
, .	B1 dimension, see types
	Z1number of teeth largest gear
, .	H1 dimension, see types
, .	D2 dimension, see types
, .	B2 dimension, see types
	Z2 number of teeth 2nd largest gear
	Z3number of teeth 3rd largest gear
	Z4number of teeth 4th largest gear
	TY-BVtype of inner mounting, see types
, .	D3 dimension, see types of inner mounting
, .	D4 dimension, see types of inner mounting
,.	B3 dimension, see types of inner mounting
	AC number of splines inner mounting

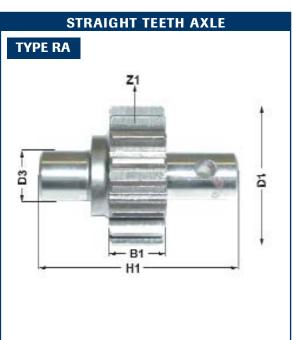




SINGLE GEARS









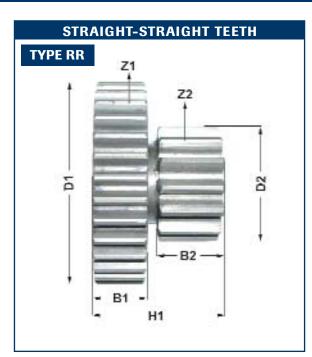
ATTENTION: Gear and axle in one piece: AXLE

Gear and axle consisting of 2 different parts: NO AXLE

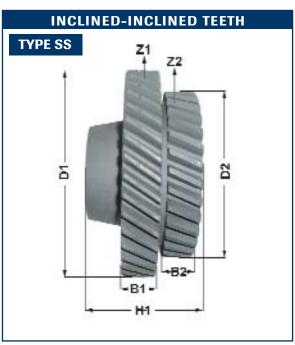




DOUBLE GEARS









DETERMINATION: To determine the type, make sure that the gear with the largest

diameter is on the left-hand side

NOTE: Both gears have an evolving tooth type





SPECIAL GEARS

ONE OF BOTH TEETH TYPES IS NO GEAR

TYPE RR Z1 B1 H1

 $\label{eq:Attention: D1 is not always the largest diameter} Attention: \ -\ D1 \ is not always the largest diameter$

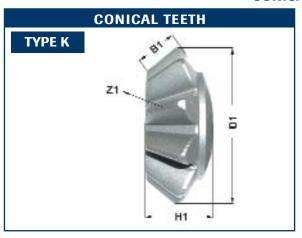
- Always measure D1 on the gear, not on the special splines.

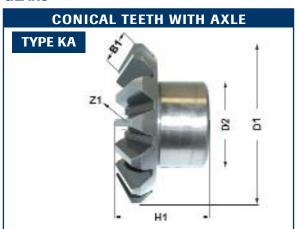
RS: INCLINED-SPECIAL TEETH TYPE SV

Attention: - D1 is not always the largest diameter

- Always measure D1 on the gear, not on the special splines.

CONICAL GEARS









SPECIAL GEARS

INNER GEARS

I: INNER TEETH

D1 = SMALLEST INNER DIMENSION MEASURED ON THE TEETH TIPS

B1 = WIDTH OF THE TEETH

H1 = TOTAL HEIGHT



MULTIPLE GEARS





INNER TYPES



B inner splines

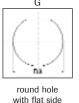






with spline

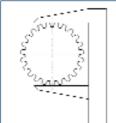






Type S: Special type

- If different inner types, we determine the order as follows: B D C A E F G H e.g. in case of two coexisting types D and A, we fill out D.
- When measuring an odd number of teeth, we place the fixed jaw of the sliding calliper on 2 teeth and slide the loose jaw until it touches the opposite tooth.







TECHNICAL DETAIL: AXLE SHAFTS





Company:	
Customer code:	
Name:	
Fax number:	
Truck make:	
Truck type:	Serial nr.:

Type CF: grooves - flange



Type CC: grooves - grooves



Type CG: grooves - gear



Type CK: grooves - cone

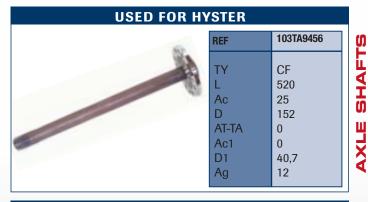


- 1 TY: Type, see pictures
- 2 L:..... Length, see pictures (mm)
- AC:..... Maximum number of grooves, see pictures
- 4 D: Diameter, see pictures (mm)
- 5 AT-TA:.....Number of teeth (only for type CG)
- 6 AC1:..... Minimum number of grooves, see pictures
- 7 D1:..... Diameter, see pictures (mm)
- 8 AT-GA:.....Number of holes, see pictures











REF	106TA7982
T\/	05
TY	CF
L Ac	81,5
Ac	18
D	90
AT-TA	0
Ac1	0
D1	33,5
Ag	5

USED FOR STILL		
	REF	103TA9227
The same of the sa	TY	CF
E.	L	261
1/3	Ac	14
	D	109
Section 1	AT-TA	0
	Ac1	0
	D1	31,4
	Ag	14



REF	106TA7980	
T) (05	
TY	CF	
L	124,5	
L Ac	36	
D	95	
AT-TA	0	
Ac1	0	
D1	29,2	
Ag	6	

USED FOR LINDE		
	REF	106TA7983
	TY L Ac D AT-TA Ac1	CF 134 21 149,7 0 0
	Ag	5



REF	103TA9553	
TY	CG	
Ľ	430	
Ac	10	
D	38	
AT-TA	11	
Ac1	0	
D1	81,2	
Ag	0	

USED FOR STILL		
	REF	103TA9614
	TY	CF
	L	780
	Ac	29
	D	153
	AT-TA	0
	Ac1	0
	D1	37,7
	Ag	14



REF	106TA7981
TY	CF
L	92
Ac	8
D	92
AT-TA	0
Ac1	0
D1	39,7
Ag	4
,	

USED FOR LINDE		
	REF	106TA7983
	TY L Ac D AT-TA Ac1 D1 Ag	CF 134 21 149,7 0 0 44 5

This is only a small selection of what we can offer. Call our sales department for more details.





SERVICE EXCHANGE REDUCTORS OR REMANUFACTURING PROGRAM



YOUR REDUCTOR MAY NOT LET YOU DOWN! A SPECIALIZED TEAM IS AT YOUR SERVICE FOR A QUICK AND EFFICIENT REPAIR!

REBUILT REDUCTOR UNIT: Repair of your faulty unit (an economical repair of the assy is done and worn-out parts are replaced to make the assy useable again) and possible test of all forklift reductors.

REMANUFACTURING UNIT: A large selection of remanufacturing units are in stock. The reman unit is thoroughly cleaned, inspected and renewed to 'like new' condition. Reassembling is done using new wear items. The unit is fully inspected and tested.

OUR PROGRAM CONSISTS OF THE FOLLOWING MAKES

BREVINI, ZF-HURTH, SPETH, JUNGHEINRICH, LANSING, STILL-SAXBY, FENWICK, BRINKMAN, PRAT, LOC, CESAB, LINDE, DAEWOO, CROWN, KORDEL, SCHABMULLER, METALROTA, C.I.M.A.

TOTALSOURCE® REMAN REDUCTOR STANDARDS

All wear items are replaced with components that meet or exceed OEM specifications, such as

- All seals
- All gaskets
- All bearings
- All washers
- All wear items
- The assemblies, if possible, are tested at operating temperature and with several speed intervals for:
 - · right clearances
 - · proper gear and pinion adjustments
 - · noise levels
- Strict quality standards, including a tracking system which verifies all reman steps

REDUCTOR WARRANTY POLICY

TotalSource® warrants each remanufactured [reductor] to be free from defects in material or in workmanship during 6 months or 1000 working hours after delivery (whichever occurs first).

The warranty is subject to the following conditions:

- the unit must have been installed by a certified technician;
- the unit must not have undergone any (intents for) repair, modification or disassembly;
- · damage as a consequence of abnormal use, overloading, misuse, abuse, improper installation or accident are not covered by the

A warranty claim on a unit will only be accepted if it shows normal use, and the main housing can be re-used. If oil drained from the unit contains steel- and/or aluminium particles, it was not put to normal use and the warranty will be limited. In that case, TotalSource® will charge an extra cost.

Warranty claims must be reported in accordance with TotalSource®'s Complaint Handling Procedure (standard Form is available in the Master Catalogue, via QuickSource, website, or on demand). Only after your warranty claim has been accepted, TotalSource® will start working on your unit. TotalSource® may either repair the unit, or may replace defective components.

REDUCTORS FOR FORKLIFTS

BREVINI • ZF-HURTH • SPETH • JUNGHEINRICH • LANSING • STILL-SAXBY • FENWICK • PRAT • LOC • CESAB • LINDE • DAEWOO • CROWN • KORDEL • SCHABMULLER • METALROTA • BRINKMAN • C.I.M.A.







We have a complete range of reductors for forklifts, such as: BREVINI • ZF-HURTH • SPETH JUNGHEINRICH • LANSING STILL-SAXBY • FENWICK • PRAT LOC • CESAB • LINDE • NEWAGE



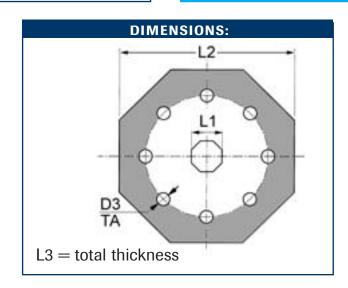


TECHNICAL DETAIL: RUBBER COUPLINGS



EXAMPLE	
00	

Company:	
Customer code:	
Name:	
Fax number:	
Truck make:	
Truck type:	Serial nr.:



ROUND SHAPE

- 1 L1:..... Maximum inner diameter (mm)
- 2 L2:..... Maximum outer diameter (mm)
- (3) L3:..... Maximum thickness (mm)
- 4 D3:..... Maximum diameter of holes
- TA:.....Type of thread if any
- 6 AT-GA:..... Number of holes



If the shape of the inner and outer side, as well as in height is a random shape, take the maximum distance for L1, L2 & L3.



RUBBER



USED FOR ALLIS CHALMERS 106TA7791

REF	106TA7791
L1	36
L2	85
L3	27,5
D3	8
TA	-
AT-GA	6



		USE
	REF	106TA77
	L1	36
	L2	85
	L3	27,5
	D3	8
	TA	-
	AT-GA	6
L		



USE	
REF	103TA8623
L1	46
L2	105
L3	32
D3	10
TA	-
AT-GA	6



	USE	D FOR CLARK
REF	103TA8616	
		(0)
L1	45	
L2	126	(0)
L3	21	
D3	14	
TA	-	
AT-GA	6	-



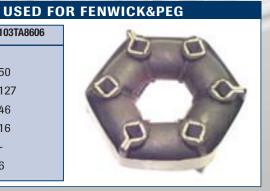
USED FO	
REF	103TA8605
L1	31
L2	82
L3	28
D3	11
TA	-
AT-GA	6



	USED F
REF	103TA8611
L1	35
L2	106
L3	31,5
D3	12,5
TA	-
AT-GA	6



	OSED FO
REF	103TA8606
L1	50
L2	127
L3	46
D3	16
TA	-
AT-GA	6



	USED
REF	106TA7793
L1	45
L2	125
L3	43
D3	12
TA	-
AT-GA	6



0022	
REF	103TA8617
L1	45
L2	125
L3	43
D3	12
TA	-
AT-GA	6



	USE
REF	106TA7789
L1	61
L2	155
L3	30
D3	16
TA	-
AT-GA	6



This is only a small selection of what we can offer. Call our sales department for more details.





RUBBER

USED FOR JUNGHEINRICH			
REF	106TA7808		
		10	
L1	45		
L2	122	ALC:	
L3	39	2	
D3	0	8	
TA	M8		
AT-GA	6		



USED F	
REF	106TA7810
L1	49
L2	119
L3	25,5
D3	0
TA	M10
AT-GA	8



USED FOR JUNGHEINRICH				
REF	106TA7802			
L1	73			
L2	134			
L3	18,5			
D3	14			
TA	-	0		
AT-GA	6			



REF	106TA7790	
L1	61	
L2	155	
L3	30	
D3	16	
TA	-	
AT-GA	6	



		USED
	REF	103TA8626
	L1	29
	L2	95
	L3	29,5
	D3	8,5
	TA	-
	AT-GA	6



	USED
REF	106TA7795
L1	35
L2	106
L3	31,5
D3	12,5
TA	-
AT-GA	6



	USED
REF	106TA7794
L1	59
L2	199
L3	34,8
D3	16,5
TA	-
AT-GA	6



031		
REF	106TA7804	
L1	31	
L2	82	
L3	28	
D3	11	
TA	-	
AT-GA	6	



USI	
REF	106TA7797
L1	35
L2	106
L3	31,5
D3	12,5
TA	-
AT-GA	6



	USE
REF	103TA8625
L1	39,5
L2	93
L3	24
D3	10
TA	-
AT-GA	6





RUBBER



USED FOR LINDE REF 106TA7806 L1 50 L2 127 L3 46 D3 16 TA AT-GA 6



REF
L1
L2
L3
D3
TA
AT-0



USED FOR LINDE		
REF	103TA8622	
L1	61	
L2	155	(0)
L3	30	
D3	16	
TA	-	
AT-GA	6	1



	USE
REF	103TA8620
L1	66
L2	164
L3	19,8
D3	14
TA	-
AT-GA	6

103TA8613

61

150

30,5

16



	USE
REF	106TA7803
L1	73
L2	134
L3	18,5
D3	14
TA	-
AT-GA	6



	USED
REF	106TA7805
L1	50
L2	127
L3	46
D3	16
TA	-
AT-GA	6



	USE
REF	106TA7800
L1	61
L2	150
L3	30,5
D3	16
TA	-
AT-GA	6



	USI
REF	106TA7799
L1	61
L2	150
L3	30,5
D3	16
TA	-
AT-GA	6



	USE
REF	103TA8628
L1	12
L2	65
L3	19
D3	10
TA	-
AT-GA	4



USE
106TA7798
61
150
30,5
16
-
6



This is only a small selection of what we can offer. Call our sales department for more details.





RUBBER

USE	
REF	106TA7801
L1	73
L2	134
L3	18,5
D3	14
TA	-
AT-GA	6



	US
REF	103TA8624
L1	35
L2	99
L3	37,5
D3	0
TA	M6
AT-GA	6



	USI	ED FOR TCM
REF	106TA7796	
L1	35	All (III)
L2	106	
L3	31,5	
D3	12,5	
TA	-	
AT-GA	6	



	US
REF	103TA8627
L1	36
L2	85
L3	27,5
D3	8
TA	-
AT-GA	6



	USI
REF	103TA8614
L1	55
L2	143
L3	56,5
D3	16,5
TA	-
AT-GA	6



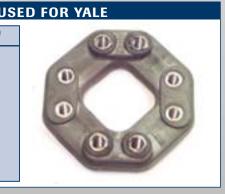
	US
REF	103TA8621
L1	57
L2	144
L3	57
D3	17
TA	-
AT-GA	6



	USE
REF	106TA7807
L1	45
L2	122
L3	39
D3	0
TA	M8
AT-GA	6



	บร
REF	106TA7809
L1	49
L2	119
L3	25,5
D3	0
TA	M10
AT-GA	8



This is only a small selection of what we can offer. Call our sales department for more details.





TECHNICAL DETAIL: UNIVERSAL JOINT (CROSS)

	A	PAX		
		I		
		-		
FII		N	FOI	em.
			Ξ.	

_	•		
NE	w	111	4
PRO	G	RΑ	М

EXAMPLE

		()
Company:			
Customer code:			
Name:			
Fax number:			
Truck make:			
Truck type:	S	Serial nr.:	

	TYType of universal joint (see types on next page)
,-	L1 Length (see figure)
,-	L2 Length between edge of turned sections (see figure)
,-	C Centre distance
,-	D1 Diameter (see figure)
,-	B Width of the key
,-	D2 Diameter (see figure)
	TA Thread type
.,	PM Step (millimetre)
-,	PI Step (inch)
	RH/LHRH or LH thread
	SMP Grease nipple: G = None
	V = Optional

A = Present

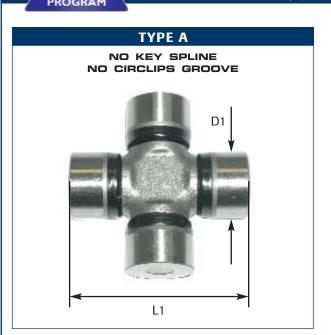


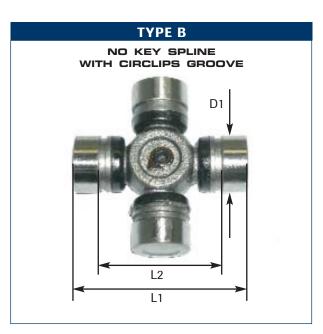


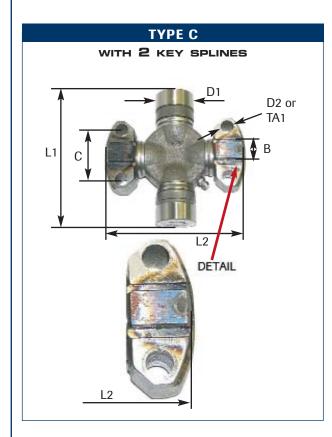


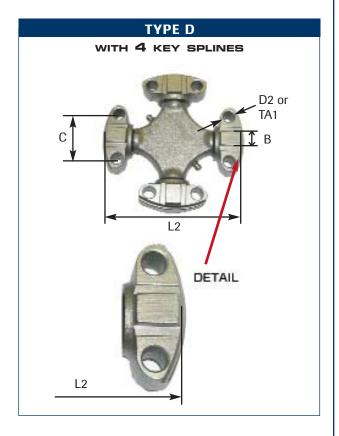
TECHNICAL DETAIL: UNIVERSAL JOINT (CROSS)

TYPES & DIMENSIONS















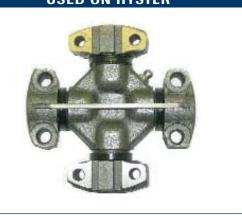
EXAMPLES: UNIVERSAL JOINT (CROSS)







USED ON HYSTER





USED ON TCM





This is only a small selection of what we can offer, For more info call our sales department









DRIVE SHAFTS



TOTALSOURCE® OFFERS A WIDE RANGE OF DRIVE SHAFTS.

Availability based on dimensions and makes, Please supply full truck details, Contact our sales department for more info,

<u>Different applications:</u> Drive line prop shafts, Pump drive shafts, Cooling drive shafts





















NOTES