



PASSION FOR PARTS



**UNDERCARRIAGE COMPONENTS**  
for **COMPACT MACHINES**





PASSION FOR PARTS



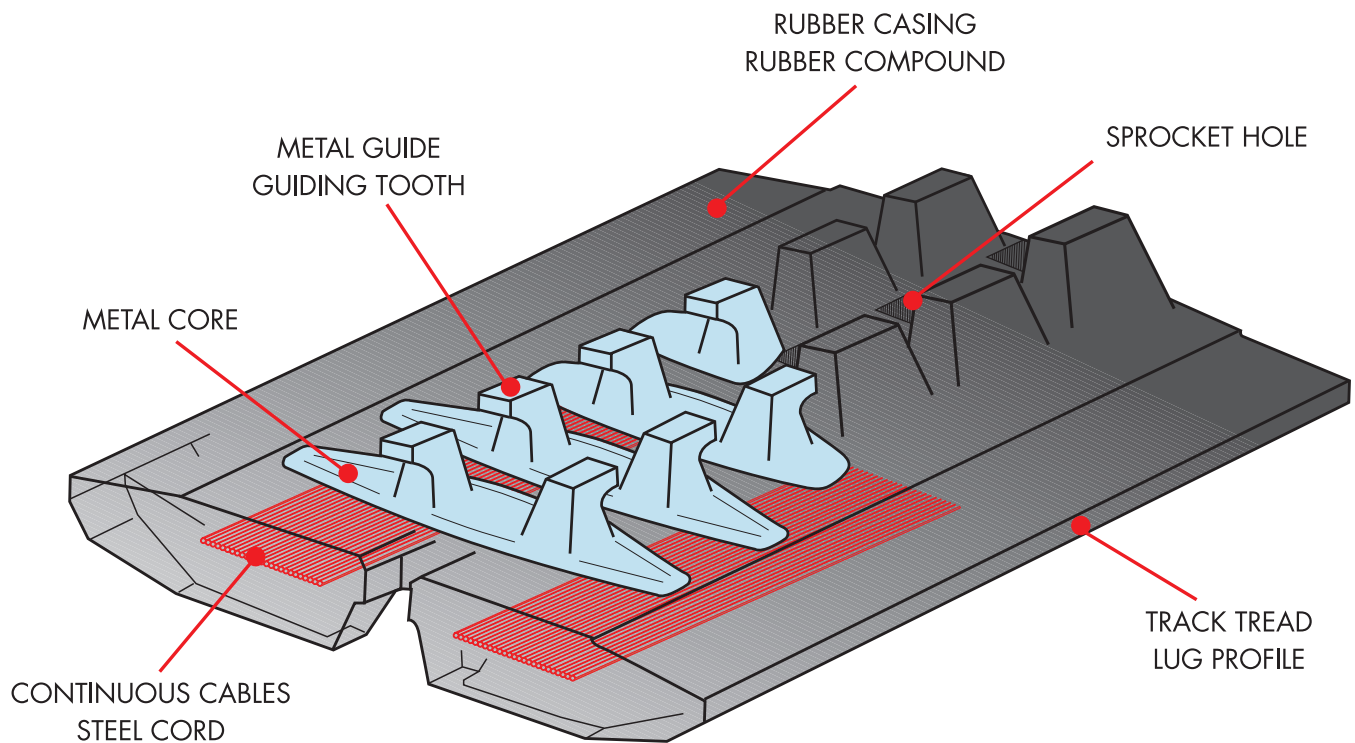


# ITR RUBBER TRACKS

ITR RUBBER TRACKS are designed, engineered and manufactured using state-of-the-art technology, high quality materials and craftsmanship providing excellent quality and durability. ITR rubber tracks are produced to the highest standards based on years of field experience and the results of numerous operational tests in a wide range of working conditions.

ITR also manufactures a wide range of track frame components used on compact excavators, loaders and utility equipment including, track tensioners, sprockets, idlers, rollers and hardware.

## CRAWLER SECTION WITH GLOSSARY



## THE SIXTIES

*In the early 1960's when mini-style machines were first being designed, they incorporated the use of steel tracks. Undercarriage for these machines commonly used similar designs of the larger and more common construction machines of the time. With the growing popularity of the mini-style machines their use began to grow and become more diverse. New field uses and applications for these machines required the need for "soft shoe" applications, and rubber tracks were introduced to the market as an alternative to steel tracks.*

*The advantages of rubber track designs include reduced noise, higher operating speeds, and the elimination of pin, links and bushing wear common to conventional steel undercarriage.*

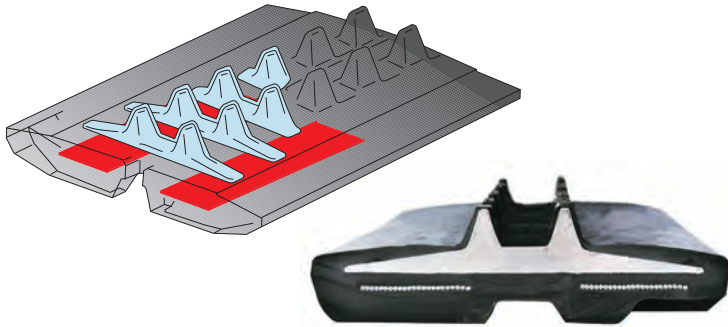


## ITR RUBBER TRACK STRUCTURE AND MAIN FEATURES

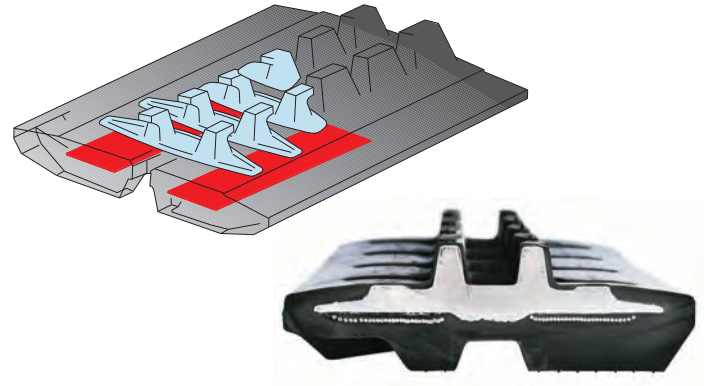
ITR RUBBER TRACKS use “continuous cable” technology. This market-proven technology provides durability, with flexibility and strength throughout the complete track structure, minimizing premature wear during use.

ITR RUBBER TRACKS design integrates various layers of protection into the track providing protection to the cables and to the metal core inserts. A thick outer tread layer of rubber functions as additional protection to the track structure by absorbing surface wear, impact and abrasion.

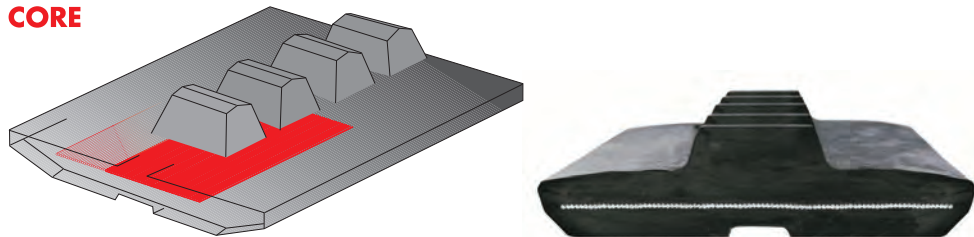
### CONVENTIONAL



### INTERCHANGEABLE



### NON - METAL CORE



### CONVENTIONAL STYLE TRACKS

CONVENTIONAL tracks can only be used on undercarriages that has been designed to operate exclusively with rubber tracks. With these Conventional rubber track designs, the rollers do not have contact with the metal track guides except for the purposes of track alignment and protection against de-railing. These types of undercarriages cannot operate with steel tracks.

### INTERCHANGEABLE STYLE TRACKS

INTERCHANGEABLE rubber tracks can operate on undercarriages designed to operate with both steel and rubber tracks. On interchangeable rubber tracks the rollers operate in the same manner as a steel track.



### NON-METAL CORE (NMC) TRACKS

The NMC rubber tracks consist of a rubber compound and heavy duty inner cables. The specific lightweight structure, that does not include metal core insert, allows for a more flexible track system while the wide track and the tread pattern provide more traction without losing flotation.

### ANTI-VIBRATION (AV) TRACKS

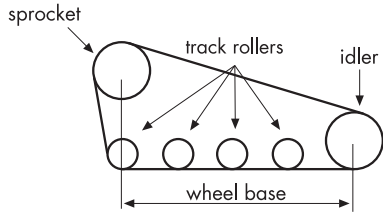
AV rubber tracks feature an innovative metal core and track guide, designed to reduce vibration and total track weight, offering long life and reliability. With AV rubber track designs, the rollers move along an alternating track roller surface reducing machine vibrations.



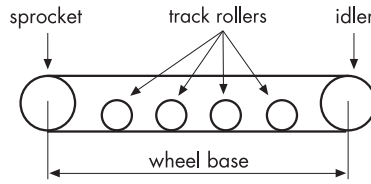
# UNDERCARRIAGE LAYOUT

Crawled machines equipped with rubber tracks may have different designs as shown in the schemes below.

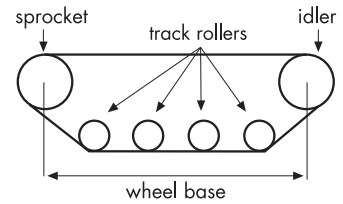
## COMPACT TRACK LOADERS (CTL) LAYOUT



## MINI-EXCAVATORS LAYOUT



## CRAWLER CARRIERS & FORWARDERS LAYOUT



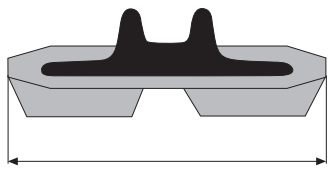
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# TRACK SIZE IDENTIFICATION

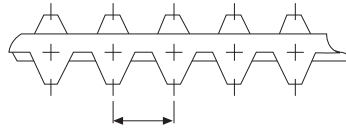
The ITR rubber track identification is carried out through 3 basic dimensions:

The width of the track, the length of the pitch of the internal metal guide and the number of metal links (guiding teeth) of the track.



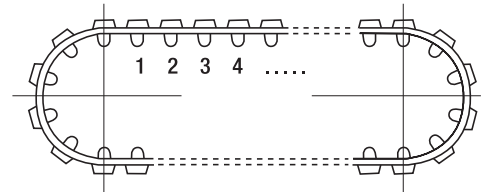
TRACK WIDTH (mm)

X



PITCH LENGTH (mm)

X



NUMBER OF LINKS

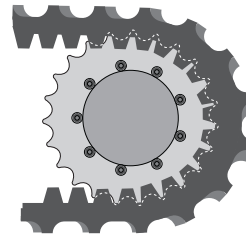
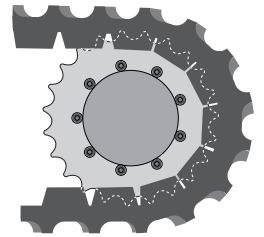
## PITCH TYPE

The most relevant dimension of a rubber track is the **PITCH**. The pitch is the distance from center to center of two consecutive metal guides. Through the pitch, rubber tracks can be identified as **LONG** pitch or **SHORT** pitch.

Rubber tracks that have metal guides landing on every other sprocket tooth are referred to as **LONG PITCH** (or **FULL PITCH**) rubber tracks.

Rubber tracks that have metal guides landing on every sprocket tooth are referred to as **SHORT PITCH** (or **HALF PITCH**) rubber tracks.

LONG PITCH

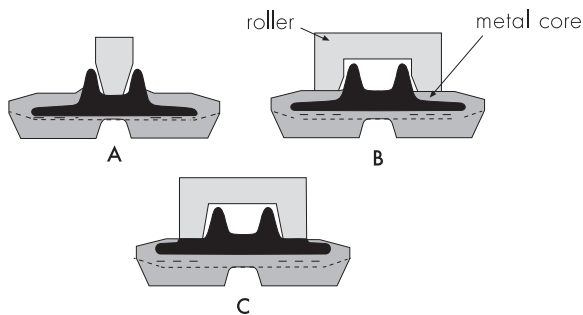


SHORT PITCH

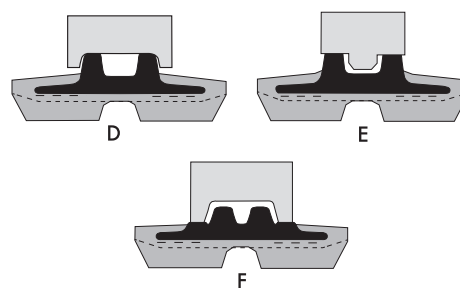
## GUIDING SYSTEM

There is a broad range of existing machine brands, models and rubber track designs in use along with a large number of conventional and interchangeable rubber tracks with different guide systems. The following table shows the most common types:

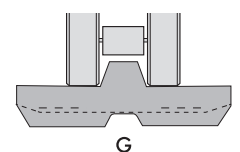
CONVENTIONAL



INTERCHANGEABLE

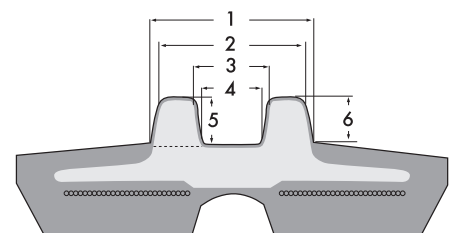


NON-METAL CORE



## TRACK SECTIONAL CROSS-VIEW

- |   |                                |   |                                |
|---|--------------------------------|---|--------------------------------|
| 1 | TOTAL OUTER GUIDE WIDTH        | 4 | TOTAL INNER, LOWER GUIDE WIDTH |
| 2 | SHORT OUTER GUIDE WIDTH        | 5 | INTERNAL HEIGHT OF CORE BAR    |
| 3 | TOTAL INNER, UPPER GUIDE WIDTH | 6 | EXTERNAL HEIGHT OF CORE BAR    |



# TECHNICAL DATA

## for CONVENTIONAL ITR Rubber Tracks

WIDTH (mm)	PITCH (mm)	GUIDING SYSTEM	SIZES (mm)						WEIGHT / LINK kg
			1	2	3	4	5	6	
130	72	A-B	65	50	37	23	28	28	0,44
150	72	A-B	65	46	39	23	23	21	0,51
170	60	B	57	42	31	19	22	22	0,48
180	60	B	61	54	32	25	20	22	0,60
180	72	A-B	70	51	38	24	29	30	0,69
180	72K	C	64	53	40	21	22	20	0,91
180	72B	C	64	54	32	23	29	22	0,85
190	72	A-B	68	50	38	21	28	27	0,70
200	72	A-B	76	56	40	23	28	26	0,90
200	72K	C	71	53	39	23	30	29	1,09
230	72	A-B	82	57	40	24	30	26	1,23
230	72K	C	71	53	39	23	30	28	1,37
250	72	A-B	82	57	40	24	30	26	1,32
250	72B	C	76	54	42	29	38	30	1,50
250	72K	C	71	54	40	23	30	28	1,37
280	72	A-B	73	59	38	25	28	25	1,50
300	84B	B	95	82	60	48	48	36	2,98
300	86T	C	84	65	53	36	43	32	3,16
320	86B	B	96	82	60	46	48	34	3,25
320	86T	C	84	69	51	37	43	29	3,32
320	90	B	86	65	47	32	50	35	2,40
320	100	A-B	76	54	39	26	30	25	2,50
320	100W	A-B	80	68	51	38	34	25	3,00
350	90	B	76	46	35	24	41	40	1,80
350	100	B	112	86	64	45	45	48	3,23
400	86B	B	98	79	64	48	48	36	4,17
400	90	B	82	68	52	38	35	32	2,36
420	100	B	96	86	64	50	52	36	5,44
450	84	B	96	81	65	45	47	33	5,40
450	86	C	97	82	66	48	48	36	4,90
450	90	B	84	69	52	37	46	30	4,00
450	100	C	100	78	64	44	50	41	5,65
450	110	B	122	92	70	45	64	55	7,02
500	90	B	94	82	62	42	51	36	5,73
600	100N	B	112	88	62	44	60	46	8,29
600	125N	B	124	90	65	43	76	61	10,76
650	110	B	115	90	66	48	76	60	12,78
700	100N	B	123	90	66	45	76	58	10,90
750	150N	B	174	132	106	52	94	68	22,00
800	125N	B	175	128	110	60	95	88	19,06
800	150N	B	146	111	81	59	74	69	20,21
800	150W	B	189	148	122	80	108	78	22,50

CONVENTIONAL



# TECHNICAL DATA

## for INTERCHANGEABLE and NON METAL CORE ITR Rubber Tracks

	WIDTH (mm)	PITCH (mm)	GUIDING SYSTEM	SIZES (mm)						WEIGHT / LINK	
				1	2	3	4	5	6	kg	
LONG PITCH	230	96	D-E	73	63	30	25	23	23	1,78	
	250	96K	F	70	60	30	25	20	19	2,20	
	250	109W	D-E	90	84	44	40	24	15	2,40	
	260	96	D-E	70	64	32	27	22	20	2,20	
	280	106Y	F	80	72	36	30	28	28	3,30	
	300	109W	D-E	92	80	44	36	27	28	3,95	
	320	106Y	F	79	71	36	30	26	27	3,70	
	350	108W	D-E	90	84	44	40	25	14	4,08	
	370	107K	F	94	86	42	38	26	28	4,80	
	400	107K	F	90	83	43	38	27	25	5,25	
	400	144Y	F	126	90	44	35	30	26	8,74	
	INTERCHANGEABLE	230	48	D-E	72	66	32	24	24	25	0,94
		230	48K	F	66	59	29	24	21	20	1,00
		250	47K	F	68	61	30	25	25	21	1,06
		250	48,5Y	F	66	60	29	24	21	20	1,18
		250	52,5K	F	81	74	33	26	25	25	1,34
		250	52,5N	D-E	86	74	40	30	23	21	1,29
		260	55,5Y	F	80	76	36	31	21	26	1,60
300		52,5K	F	84	77	35	29	27	26	1,88	
300		52,5N	D-E	82	74	39	30	23	16	1,87	
300		52,5W	D-E	96	82	48	43	22	23	1,87	
300		52,5WK	F	92	84	46	40	24	24	1,88	
300		53K	F	88	79	35	31	25	19	1,94	
300		55	D-E	82	72	36	29	26	28	2,03	
300		55,5Y	F	80	76	36	32	22	27	2,13	
300		71	F	106	100	60	42	23	24	3,34	
320		52,5N	D-E	83	74	36	30	23	18	1,70	
320		54	D-E	80	72	40	29	23	21	1,96	
320		55N	D-E	82	73	36	30	25	30	1,90	
350		52,5W	D-E	94	84	48	42	22	19	2,01	
350		54,5K	F	92	87	44	40	23	22	2,40	
350		55N	D-E	82	73	36	30	25	30	2,18	
350		56	D-E	90	85	47	39	25	16	2,20	
350		75,5Y	F	98	85	45	38	23	25	3,35	
400		72,5KB	F	94	80	49	37	24	26	3,42	
400		72,5KU	F	112	98	55	46	24	25	3,50	
400		72,5N	D-E	100	86	44	38	26	24	3,63	
400		72,5W	D-E	108	99	56	51	26	24	3,89	
400		74N	D-E	100	88	46	38	25	29	3,46	
400		75,5Y	F	100	94	45	38	24	24	4,06	
450		71	D-E	115	106	47	42	29	17	5,07	
450	73,5	D-E	118	106	50	42	31	34	4,95		
450	76	D-E	122	109	60	48	30	31	5,41		
450	81N	D-E	112	103	52	38	25	23	5,19		
450	81W	D-E	140	128	66	58	29	33	5,25		
450	81,5N	D-E	112	102	48	43	32	27	5,00		
450	83,5K	F	112	100	52	42	24	25	5,85		
450	83,5N	D-E	114	104	54	42	25	27	5,29		
450	83,5Y	F	113	102	52	38	24	27	5,83		
485	92Y	F	134	126	78	64	32	33	7,70		
500	71	F	106	100	60	41	23	24	5,27		
500	92W	D-E	158	145	71	62	30	34	8,30		
NON METAL CORE	380	102	G	102	84				46	2,05	
	458	102	G	92/70	72/50				44	2,41	
	460	102	G	100	80				44	2,41	



# BONDED SHOES & PADS

ITR bonded shoes and pads are specifically designed to provide high traction and optimal steering performance. The use of ITR rubber & polyurethane shoes and pads, reduces surface damages to work areas, lowers operating noise, reduces vibrations and provides greater stability on slippery grounds.

ITR's rubber & polyurethane bonded shoes and pads consist of three main product lines: bolt-on and clip-on pads, rubber and polyurethane shoes and bonded road-liner pads.

## BOLT-ON or CLIP-ON PADS



ITR bolt-on pads are designed to be used on pre-drilled steel track shoes. Strength of the original steel profile is retained, with no part of the pad overhanging the steel shoe.

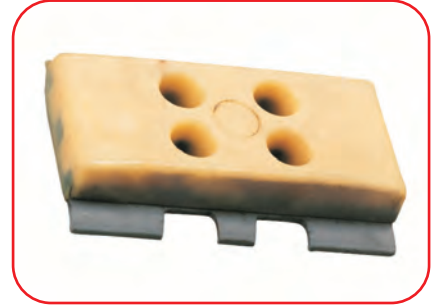


The ITR clip-on pads are designed to be used on steel track shoes with or without pre-drilled mounting holes. To install the pads simply unbolt one side of the pad, slide it onto the grouser and bolt the pad to the shoe. Clip-on pads have the great advantage in reduced installation and maintenance time and can be replaced on-site, keeping the same steel shoe option.



## RUBBER & POLYURETHANE SHOES

The ITR rubber or polyurethane shoes consist of a durable elastomer compound, molded and bonded to a steel track shoe. Depending on the machine application, rubber or polyurethane compounds may be utilized.



## ROAD-LINER PADS (CITY PADS)

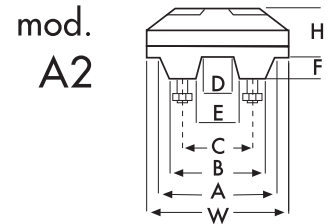
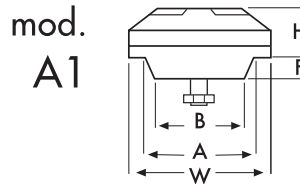
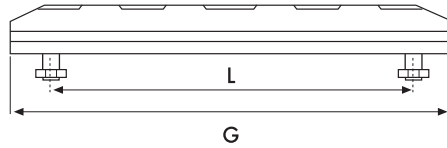
The ITR Road-Liner Pads, also called City-Pads, are generally used as complete replacement for the steel track shoes and represent the latest technology development. These pads are engineered to be used on roads or car park surfaces. The rubber pad consists in a steel plate covered with a long-lasting rubber compound to ensure long life.



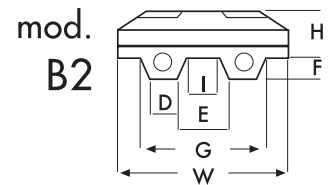
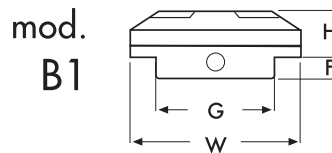
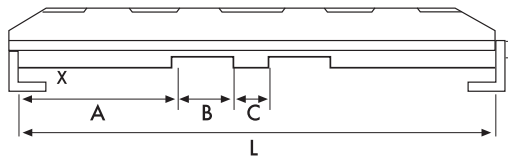


# TECHNICAL DATA

rubber pads  
BOLT-ON Model A



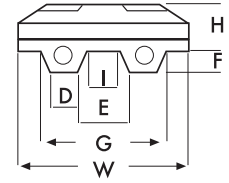
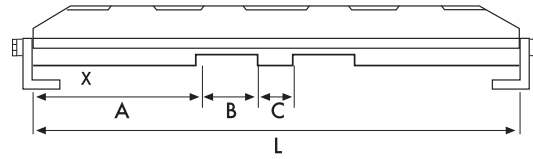
rubber pads  
CLIP-ON Model B



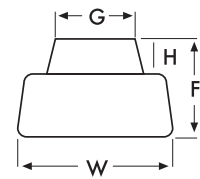
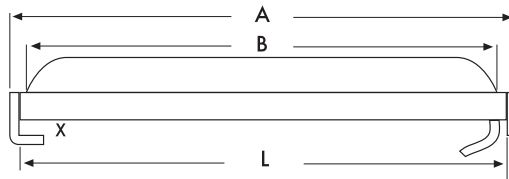
ITR CODE	TYPE	APPLICATIONS CHARACTERISTIC	TLA PITCH	SIZES (mm)												
				A	B	C	D	E	F	G	H	I	L	W	X	
RP90/150/230	A1	0,5/1,8 Tons	90	50,0	42,0	-	-	-	15,0	230,0	15,0	-	150,0	60,0	-	
RP101/199/300	A1	2/3,5 Tons	101,6	54,0	48,0	-	-	-	26,0	300,0	23,0	-	199,0	67,0	-	
RP135/300.46/400B	A2	4/5 Tons	135	85,0	73,0	46,0	8,0	13,0	16,0	400,0	24,0	-	300,0	103,0	-	
RP135/300.46/400Y	A2	5 Tons Offset	135	90,0	84,0	46,0	9,0	13,0	11,0	400,0	28,0	-	300,0	106,0	-	
RP135/350.46/450	A2	4/5 Tons	135	86,0	77,0	46,0	7,0	14,0	18,0	450,0	23,0	-	350,0	103,0	-	
PP140/190.52/260	A2	Paver Poly	140	89,0	82,0	52,0	16,0	22,0	17,0	265,0	28,0	-	190,0	120,0	-	
RP154/350.58/450	A2	6/9 Tons	154	105,0	96,0	58,0	12,0	20,0	18,0	450,0	28,0	-	350,0	125,0	-	
RP154/350.58/450Y	A2	7,5 Tons Offset	154	106,0	98,0	58,0	10,0	16,0	20,0	450,0	28,0	-	350,0	126,0	-	
PP155/228.57/300	A2	Paver Poly	155	98,0	92,0	57,0	18,0	24,0	19,0	305,0	27,0	-	228,0	118,0	-	
RP171/350.58/475Y	A2	10 Tons Offset	171	113,0	102,0	60,0	14,0	24,0	19,0	468,0	33,0	-	350,0	134,0	-	
RP171/400.60/500	A2	10/15 Tons	171	114,0	105,0	60,0	14,0	21,0	18,0	492,0	42,0	-	400,0	133,0	-	
RP175/400.57/500	A2	10/15 Tons	175	104,0	92,0	57,0	12,0	22,0	26,0	495,0	34,0	-	400,0	124,0	-	
RP101/300	B1	2/3 Tons	101	-	-	-	-	-	18,0	50,0	32,0	-	300,0	70,0	8,0	
RP101/320	B1	2/3 Tons	101	-	-	-	-	-	18,0	48,0	32,0	-	320,0	70,0	8,5	
RP101/350	B1	2/3 Tons	101	-	-	-	-	-	18,0	50,0	32,0	-	350,0	70,0	8,5	
RP135/400	B2	4/5 Tons	135	124,0	51,0	36,0	32,0	15,0	18,0	82,0	40,0	13,0	403,0	109,0	8,0	
RP135/450	B2	4/5 Tons	135	147,0	53,0	35,0	28,0	18,0	21,0	82,0	40,0	12,0	450,0	109,0	8,0	
RP140/300	B2	6/7,5 Tons	140	74,0	50,0	38,0	30,0	22,0	18,0	85,0	40,0	15,0	300,0	106,0	9,0	
RP140/400	B2	6/7,5 Tons	140	124,0	50,0	38,0	30,0	22,0	18,0	85,0	40,0	15,0	400,0	106,0	9,0	
RP140/450	B2	6/7,5 Tons	140	150,0	50,0	39,0	32,0	21,0	18,0	86,0	40,0	15,0	452,0	108,0	9,0	
RP140/500	B2	6/7,5 Tons	140	173,0	51,0	38,0	32,0	21,0	18,0	86,0	40,0	14,0	502,0	106,0	9,0	
RP154/450E	B2	6/9 Tons	154	140,0	63,0	44,0	37,0	24,0	23,0	102,0	48,0	16,0	450,0	131,0	7,2	

# TECHNICAL DATA

rubber pads  
CLIP-ON Model C



rubber pads  
CLIP-ON Model D

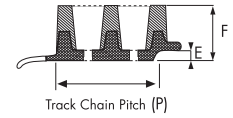
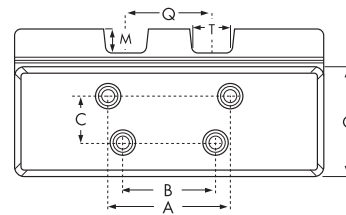
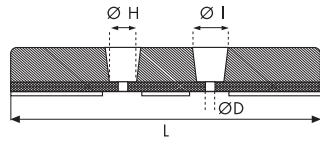


ITR CODE	TYPE	APPLICATIONS CHARACTERISTIC	TLA PITCH	SIZES (mm)											
				A	B	C	D	E	F	G	H	I	L	W	X
RP154/450HD	C	6/9 Tons	140-160	150,0	60,0	30,0	30,0	21,0	18,0	88,0	42,0	16,0	450,0	106,0	9,2
RP171/500	C	9/15 Tons	160-171	154,0	72,0	49,0	32,0	24,0	25,0	105,0	44,0	11,0	501,0	128,0	11,2
RP171/500HD	C	9/15 Tons	160-171	154,0	72,0	49,0	32,0	24,0	25,0	105,0	44,0	11,0	501,0	128,0	13,2
RP171/600	C	9/15 Tons	160-171	204,0	72,0	49,0	32,0	24,0	25,0	105,0	44,0	11,0	601,0	128,0	11,2
RP171/600HD	C	9/15 Tons	160-171	204,0	72,0	49,0	32,0	24,0	25,0	105,0	44,0	11,0	601,0	128,0	13,2
RP171/700	C	9/15 Tons	160-171	245,0	81,0	49,0	32,0	24,0	25,0	105,0	44,0	11,0	701,0	128,0	11,2
RP171/700HD	C	9/15 Tons	160-171	245,0	81,0	49,0	32,0	24,0	25,0	105,0	44,0	11,0	701,0	128,0	13,2
RP175/500	C	10/15 Tons	171-175	155,0	69,0	52,0	32,0	27,0	23,0	105,0	57,0	16,0	501,0	141,0	11,2
RP175/500HD	C	10/15 Tons	171-175	155,0	69,0	52,0	32,0	27,0	23,0	105,0	57,0	16,0	501,0	141,0	13,2
RP175/600	C	10/15 Tons	171-175	215,0	61,0	50,0	34,0	27,0	22,0	103,0	55,0	15,0	601,0	140,0	11,2
RP175/600HD	C	10/15 Tons	171-175	215,0	61,0	50,0	34,0	27,0	22,0	103,0	55,0	15,0	601,0	140,0	13,2
RP190/500	C	18/20 Tons	190	145,0	82,0	49,0	40,0	30,0	26,0	121,0	60,0	18,0	501,0	160,0	11,2
RP190/500HD	C	18/20 Tons	190	145,0	82,0	49,0	40,0	30,0	26,0	121,0	60,0	18,0	501,0	160,0	13,2
RP190/600	C	18/20 Tons	190	187,0	85,0	50,0	38,0	31,0	26,0	113,0	64,0	18,0	601,0	162,0	11,2
RP190/600HD	C	18/20 Tons	190	187,0	85,0	50,0	38,0	31,0	26,0	113,0	64,0	18,0	601,0	162,0	13,2
RP190/700	C	18/20 Tons	190	240,0	81,0	60,0	38,0	27,0	24,0	110,0	66,0	17,0	701,0	161,0	11,2
RP190/700HD	C	18/20 Tons	190	240,0	81,0	60,0	38,0	27,0	24,0	110,0	66,0	17,0	701,0	161,0	13,2
RP140/310SS	D	3/5 Tons	140	325,0	305,0	-	-	-	-	47,0	29,0	-	361,0	85,0	12,0
RP140/350SS	D	3/5 Tons	140	365,0	345,0	-	-	-	-	47,0	29,0	-	361,0	85,0	12,0
RP140/360SS	D	3/5 Tons	140	375,0	355,0	-	-	-	-	47,0	29,0	-	361,0	85,0	12,0
RP140/400SS	D	3/5 Tons	140	415,0	395,0	-	-	-	-	47,0	29,0	-	361,0	85,0	12,0
RP140/450SS	D	3/5 Tons	140	465,0	445,0	-	-	-	-	47,0	29,0	-	361,0	85,0	12,0

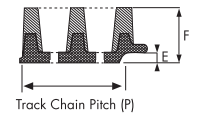
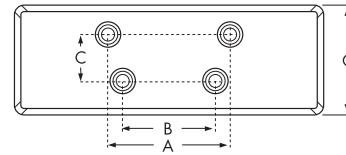
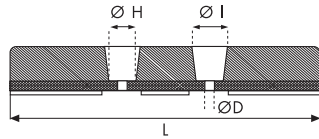


# TECHNICAL DATA

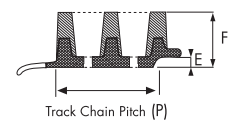
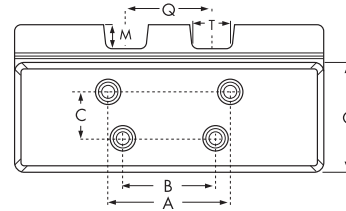
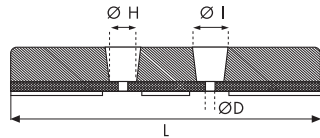
bonded shoes  
Rubber Model E1



bonded shoes  
Rubber Model E2

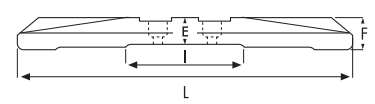
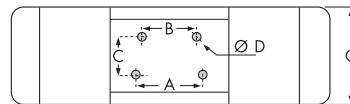
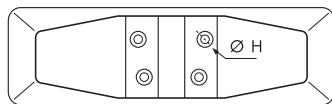


bonded shoes  
Polyurethane Model F



ITR CODE	TYPE	APPLICATIONS CHARACTERISTIC	TLA PITCH	SIZES (mm)												
				A	B	C	D	E	F	G	H	I	L	M	Q	T
UW101V2M200	E1	RUBBER	101	65,0	65,0	-	11,2	-	39,0	112,0	30,0	33,0	200,0	-	-	-
UW140F0M260	E1	RUBBER	140	86,0	86,0	52,0	12,4	10,0	52,0	165,0	32,0	37,0	260,0	22,0	77,0	31,0
UW140F0M300	E1	RUBBER	140	86,0	86,0	52,0	12,4	10,0	52,0	165,0	35,0	40,0	300,0	22,0	81,0	37,0
UW155C0M305	E1	RUBBER	155	88,9	88,9	57,2	13,1	8,5	58,0	176,0	33,0	38,0	305,0	29,0	87,0	49,0
UW155C2M305	E1	RUBBER	155	88,9	88,9	57,2	14,8	8,5	58,0	176,0	33,0	38,0	305,0	29,0	87,0	49,0
UW155C3M325	E1	RUBBER	155	88,9	104,8	54,8	14,8	11,6	59,0	192,0	34,0	39,0	325,0	40,0	95,0	50,0
UW171C3M500	E1	RUBBER	171	108,0	108,0	60,3	16,1	15,0	61,0	205,0	40,0	45,0	500,0	35,0	121,0	56,0
UW125F0M180	E2	RUBBER	125	80,0	80,0	53,0	11,5	6,0	42,0	115,0	23,0	23,0	180,0	-	-	-
UW155C0V305	E2	RUBBER	155	88,9	88,9	57,2	13,1	13,0	58,0	165,0	33,0	38,0	305,0	-	-	-
UW155C0V350	E2	RUBBER	155	88,9	88,9	57,2	13,1	13,0	58,0	165,0	33,0	38,0	350,0	-	-	-
UW125F0P225	F	POLYURETHANE	125	80,0	80,0	53,0	11,0	10,0	45,0	146,0	33,0	38,0	225,0	18,0	78,0	37,0
UW140F0P260	F	POLYURETHANE	140	86,0	86,0	52,0	12,4	10,0	50,0	165,0	32,0	37,0	260,0	22,0	77,0	31,0
UW140F0P300	F	POLYURETHANE	140	86,0	86,0	52,0	12,4	10,0	52,0	165,0	35,0	40,0	300,0	22,0	81,0	37,0
UW155C0P260	F	POLYURETHANE	155	88,9	88,9	57,2	13,1	8,5	49,0	176,0	33,0	38,0	260,0	29,0	87,0	49,0
UW155C0P305	F	POLYURETHANE	155	88,9	88,9	57,2	13,1	8,5	49,0	176,0	33,0	38,0	305,0	29,0	87,0	49,0
UW155C2P305	F	POLYURETHANE	155	88,9	88,9	57,2	14,8	8,5	49,0	176,0	33,0	38,0	305,0	29,0	87,0	49,0

roadliner pads  
Model G



ITR CODE	TYPE	APPLICATIONS CHARACTERISTIC	TLA PITCH	SIZES (mm)												
				A	B	C	D	E	F	G	H	I	L	M	Q	T
UW135Z1M400	G	-	135	94,0	64,0	46,0	12,2	46,0	52,0	124,0	23,0	300,0	400,0	-	-	-
UW135Z2M400	G	-	135	104,0	80,0	46,0	12,2	46,0	52,0	124,0	23,0	300,0	400,0	-	-	-
UW154H0M450	G	-	154	90,0	90,0	55,0	14,3	49,0	56,5	144,0	25,5	159,0	450,0	-	-	-
UW154K4M450	G	-	154	89,0	73,0	57,0	14,3	49,0	56,5	144,0	25,5	159,0	450,0	-	-	-
UW171C3L500	G	-	171,5	108,0	108,0	60,4	16,2	61,0	69,0	165,0	28,0	170,0	500,0	-	-	-
UW175K6L500	G	-	175,5	102,4	86,4	57,0	16,2	55,0	63,0	165,0	28,0	170,0	500,0	-	-	-
UW190B1L600	G	-	190	155,6	119,6	69,0	21,5	47,0	71,0	176,0	33,0	202,0	600,0	-	-	-
UW190K2L600	G	-	190	160,4	124,4	62,0	21,0	47,0	71,0	176,0	33,0	202,0	600,0	-	-	-

# MINI UNDERCARRIAGE COMPONENTS

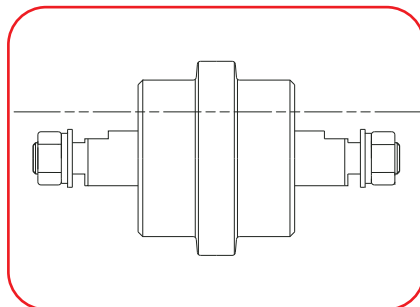
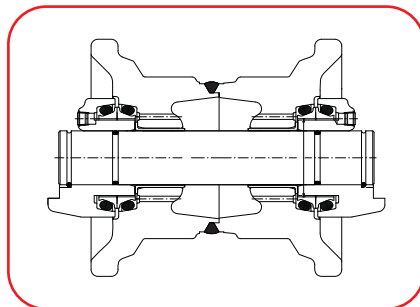
ITR's MINI and MIDI crawler undercarriage range covers a broad variety of products including track groups with welded-shoes, and bolt-on shoes along with track frame rollers, idlers and sprockets. All components have been engineered and manufactured for use on applications including Mini-Excavators, Crawled Carriers and Forwarders, Compact Track Loaders (CTL) and Multi Terrain Loaders (MTL), Tracked Platforms, Mini-Dumpers and Mini-Transporters.



**TRACK CHAINS** ITR mini steel TRACK CHAINS include a wide range of track groups with welded shoes from pitch 90 mm through pitch 101 mm and track groups with bolt-on shoes up through pitch 135mm. ITR mini steel track groups are also available in a wide variety of possible shoe-width configurations from 230 mm to 400 mm.



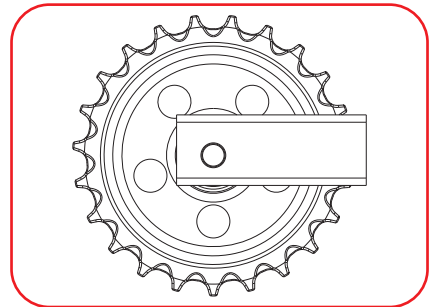
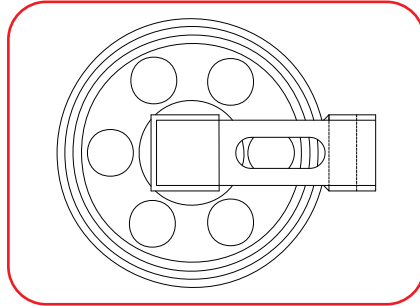
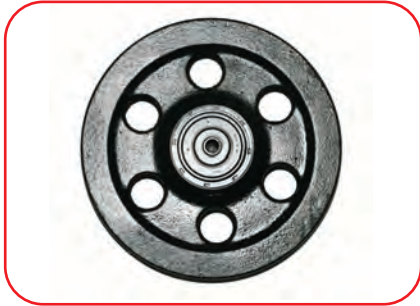
**TRACK & CARRIER ROLLERS** ITR mini TRACK and CARRIER rollers have been designed to ensure interchangeability between rubber and steel tracks for machines up to 8 tons. A large range of inner flange track rollers with or without brackets, outer flange track rollers, double flange track rollers, CTL rollers and carrier rollers are available through the ITR web catalogue.





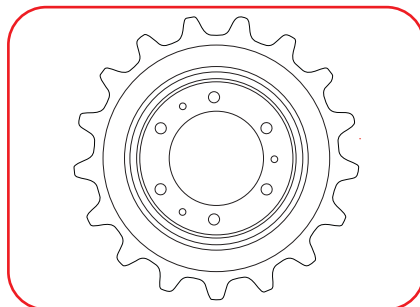
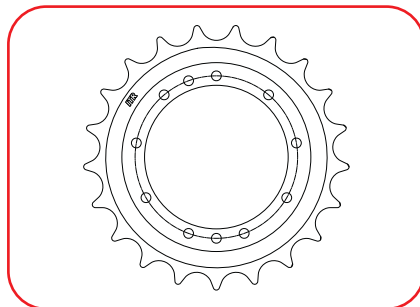
## IDLERS

ITR mini IDLERS are available for machines from 1 to 8 tons and can be equipped with brackets or assembled with tension device. CTL front and rear idlers design ensure machine stability and longer life of the rubber track components.



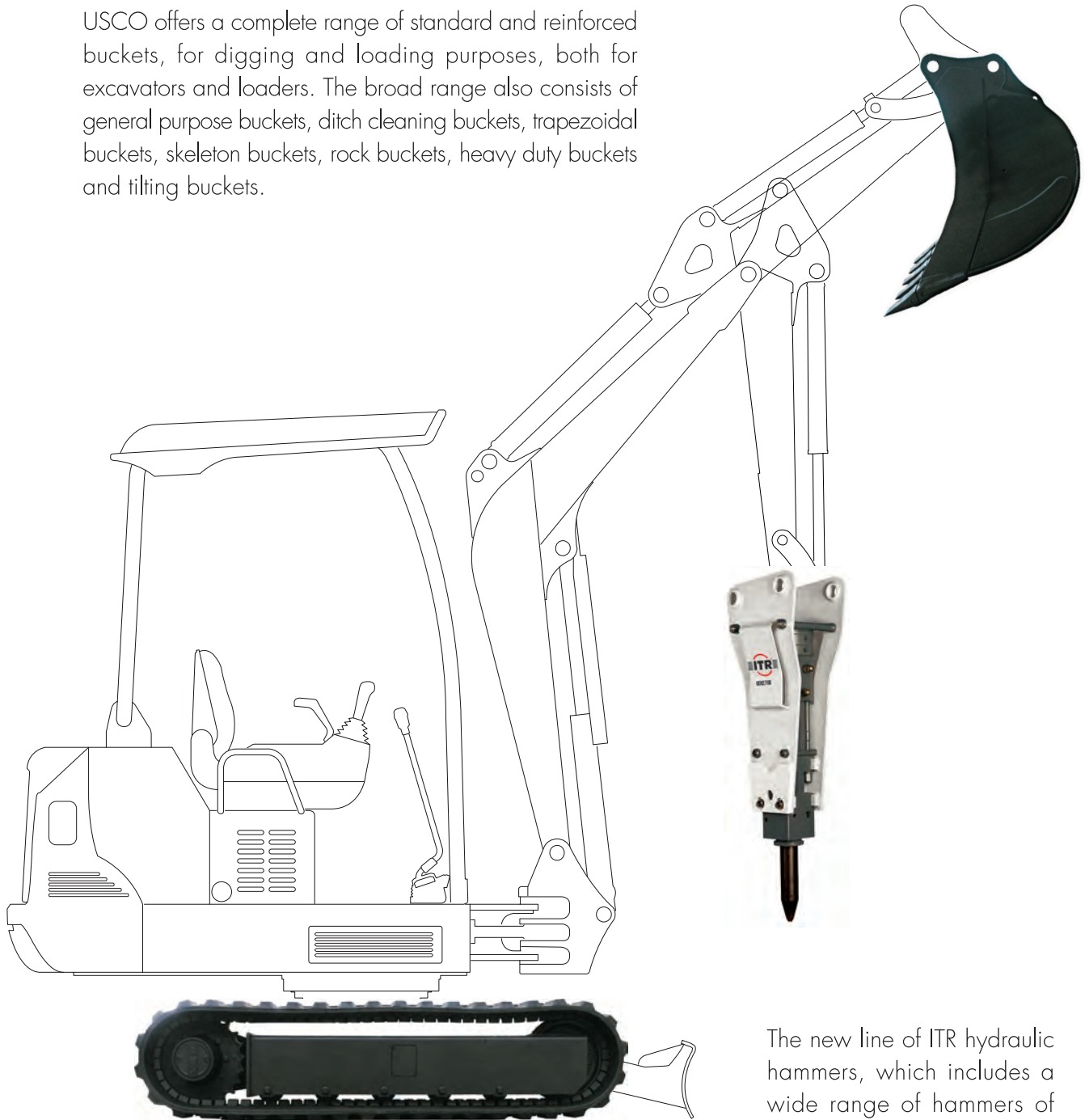
## SPROCKETS

ITR mini SPROCKETS are designed to fit a large variety of gearbox types. Sprockets are forged or cast and are designed to provide extended tooth and track wear life.



# ATTACHMENTS

USCO offers a complete range of standard and reinforced buckets, for digging and loading purposes, both for excavators and loaders. The broad range also consists of general purpose buckets, ditch cleaning buckets, trapezoidal buckets, skeleton buckets, rock buckets, heavy duty buckets and tilting buckets.



The new line of ITR hydraulic hammers, which includes a wide range of hammers of different weights and powers, is fully designed and manufactured in Italy.

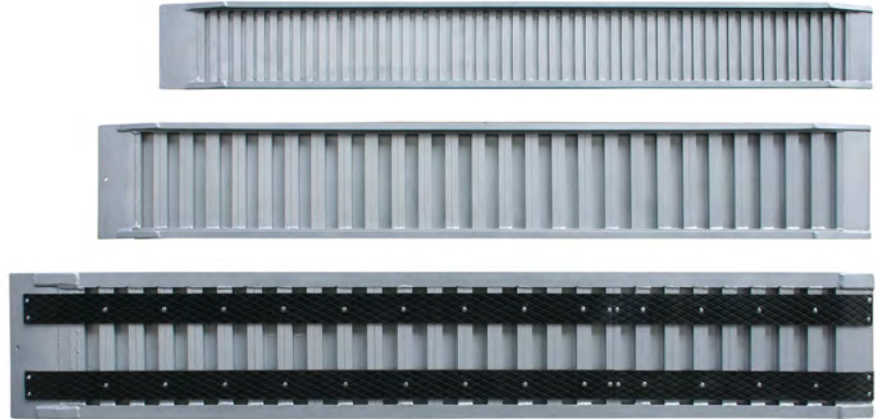
Using the most advanced technologies, ITR hydraulic hammers are characterized by functional design combined with powerful energy. ITR hammers are environmentally friendly, performing at once outstanding impact strength and low noise emissions. They become the ideal tool for both residential areas and heavy duty applications.



# ALUMINUM LOADING RAMPS

ITR aluminum loading ramps are conceived and engineered for loading and unloading an extensive assortment of vehicles and machines in various industry sectors such as building (mini and medium excavators, platforms, compactors, etc.), agriculture (tractors, lawn mowers, wheelbarrows, etc.), transport (forklifts, lorries, cars, etc.) and leisure/spare time (motorcycles, snowmobiles, etc.).

ITR aluminum loading ramps are manufactured in accordance to ISO 9001 standards. The production procedures imply the use of high safety standards at engineering stage including "structure calculations" and "finite element analysis".



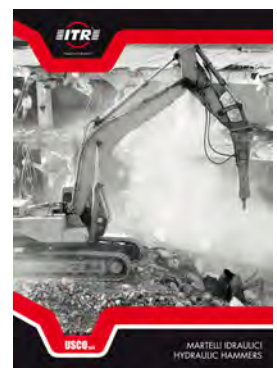
USCO manufactures one of the largest aluminum loading ramps range with load capacity up to 12 tons both for steel or rubber crawled and wheeled vehicles. ITR loading ramps are available with or without edges and with different connection systems following customers' needs or applications requirements. The product variety includes light applications such as gardening, through medium applications such as excavators.



Bucket product range can be consulted on the "ITR BUCKETS CATALOGUE"

ITR loading ramps product range can be consulted on the "LOADING RAMPS CATALOGUE"

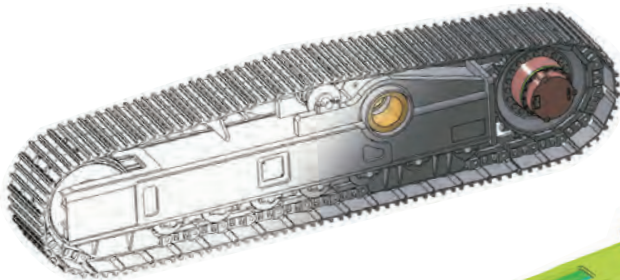
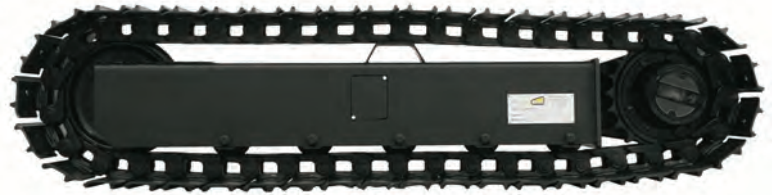
ITR hydraulic hammers product range can be consulted on the "HYDRAULIC HAMMERS CATALOGUE"



# COMPLETE FRAME SOLUTIONS



TRACKONE, a member of the USCO group of companies, offers complete track frame solutions. With an extensive knowledge of track frame design, manufacturing and production, TRACKONE serves a growing number of global Original Equipment Manufacturers, matching the high quality of ITR components with production experience and the design expertise of TRACKONE's Engineering and Design facility.

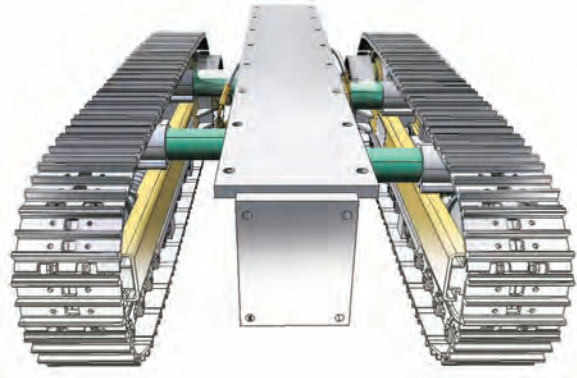


TRACKONE engineers, designs, develops and manufactures steel and rubber tracked crawler frames with standard or custom designed solutions.

The development process is performed through the use of 3D CAD modeling systems and FEM static & dynamic analysis to provide a track frame that meets the highest quality standards along with the customer's expectations.

Complete undercarriage solutions are available for several applications including Mini-Excavators, Crawler Carriers, Forwarders, Mini-Dumpers, Compact Track Loaders (CTL) and Multi-Terrain Loaders (MTL).

# COMPLETE FRAME SOLUTIONS



## TRACKONE SUPPLIES DIFFERENT FRAME SOLUTIONS

### SIDE FRAMES

- Side frames to be welded
- Side frames with flanges
- Side frames with pivot points
- Side frames with cross beams

### FRAMES WITH CENTRAL BODY

*Typically used for excavators, drilling machines, forestry machines and cranes.*

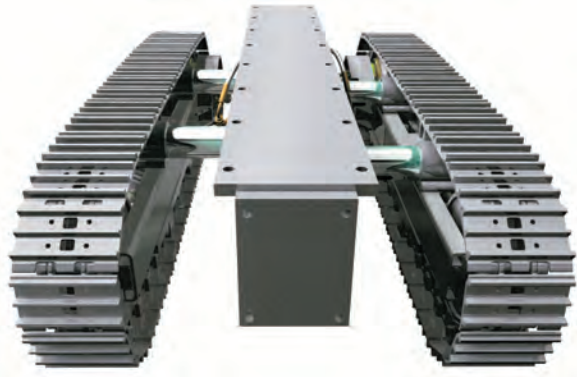
### FRAMES WITH VARIABLE TRACK GAUGE

*The extendable frames may be divided into the following categories:*

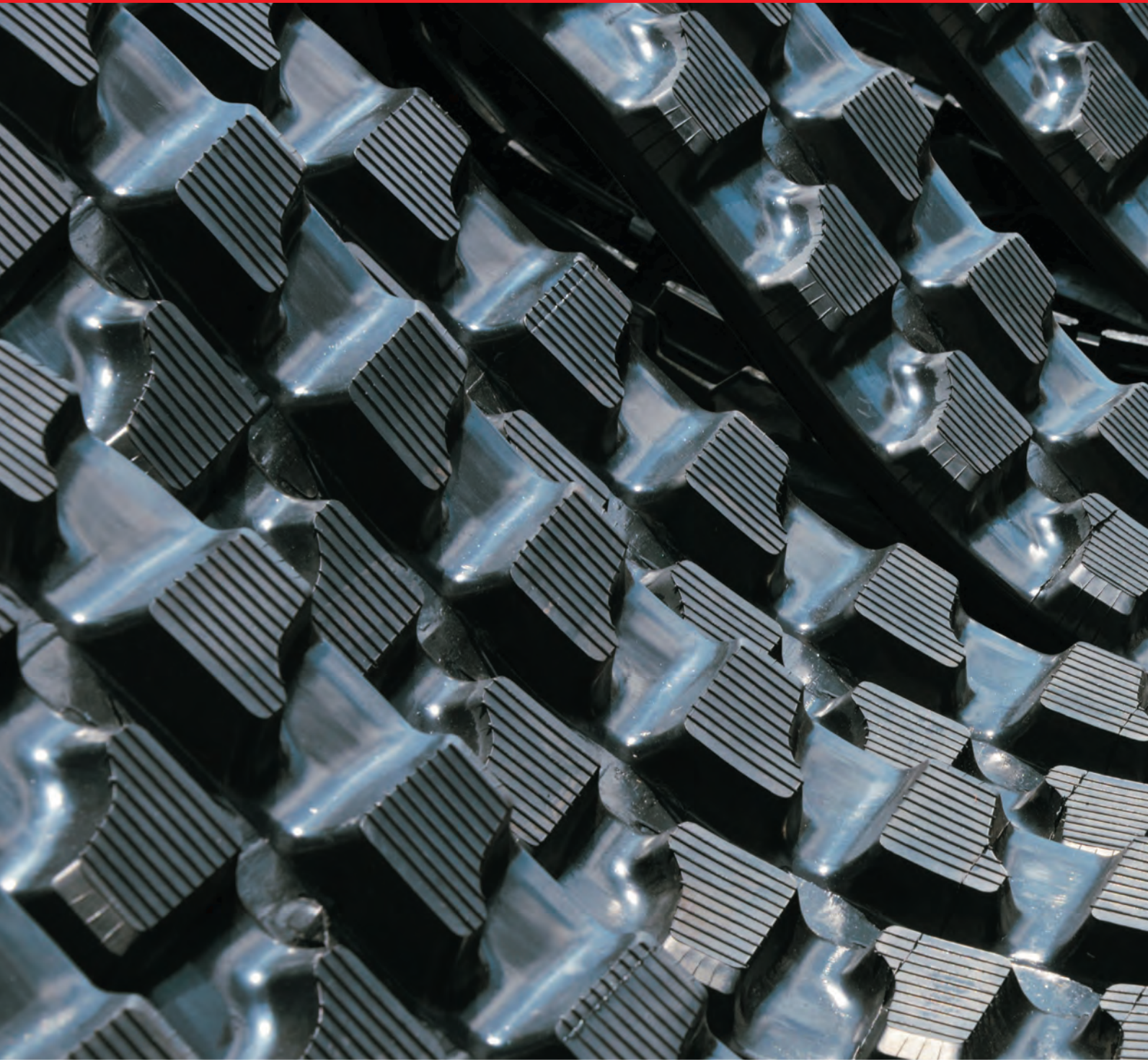
- Parallel Extension.
- Telescopic Extension
- Mechanical Track Variation

### SPECIAL FRAMES

*Designed specifically to customer's needs.*







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