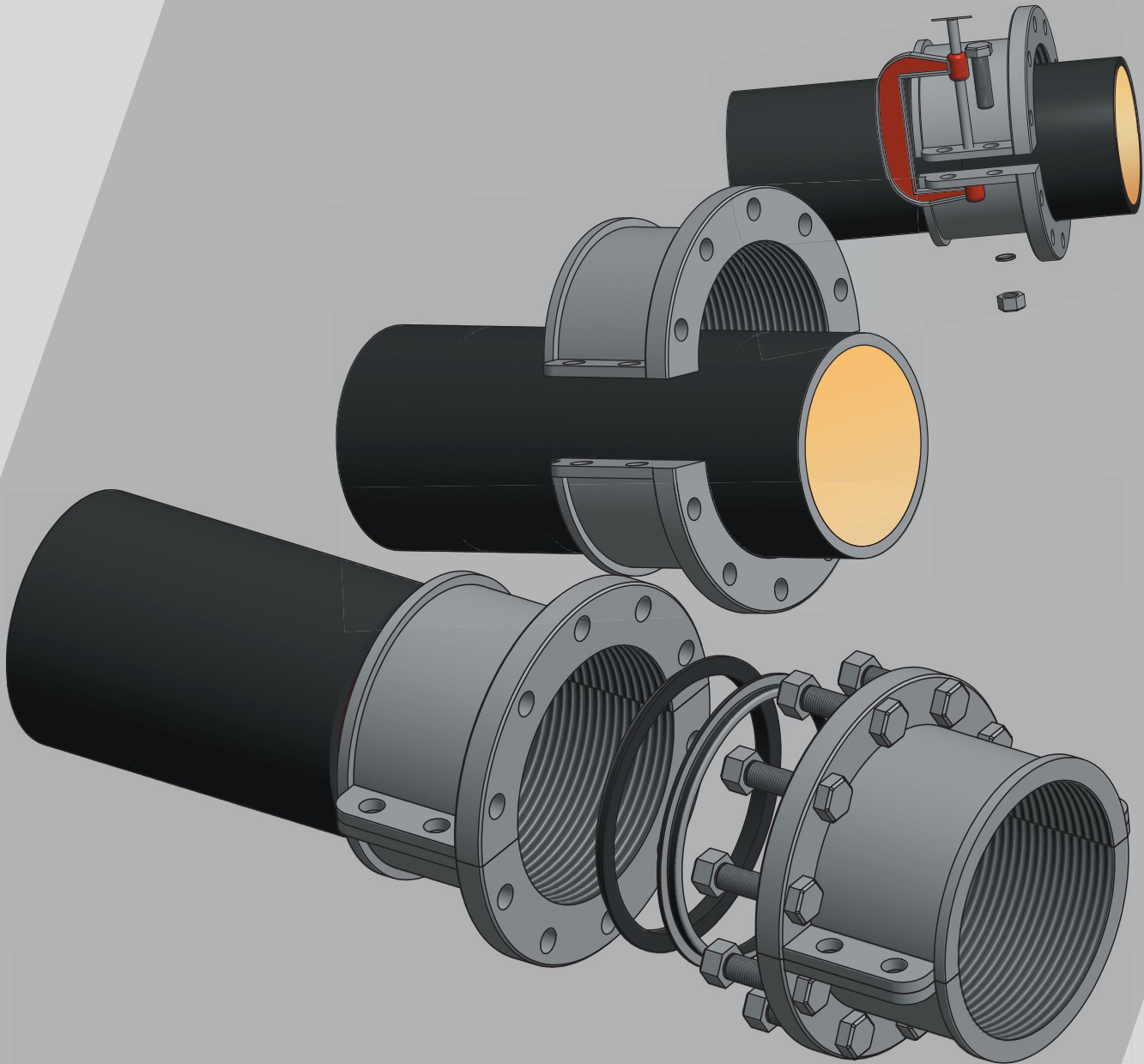




// ONE BRAND // ONE SOURCE // ONE SYSTEM



REMA TIP TOP
MATERIAL HANDLING HOSE SYSTEMS

REMA TIP TOP MATERIAL HANDLING HOSE SYSTEMS

CUSTOM-DESIGNED WEAR RESISTANCE SOLUTIONS

REMA TIP TOP offers a wide variety of innovative, high quality products that protect plants from wear problems and a broad range of services precisely tailored to meet our customers' individual requirements. **REMA TIP TOP** material handling hoses were designed to outperform rigid pipe by using a flexible outer wall that can absorb energy due to its much greater displacement capability over steel.

SLURRY HANDLING HOSES – A SAFE CONNECTION

Wherever abrasive slurries are conveyed hydraulically, slurry handling hoses provide a reasonable alternative to steel pipes. Typical fields of application are mining, mineral processing, sand and gravel plants, coal preparation plants, and the steel and cement industries. All of these plants require a flexible, hassle-free and quick-to-install slurry handling hose. The most important feature being a special wear-resistant inner tube liner made of **REMAGOLD**, natural rubber or another specialty compound as required by the application. The slurry handling hose enables an almost vibration-free and relatively silent transport of all conveyed goods. Additionally, compared to transport via steel pipe, it reduces flow resistance and improves the overall flow behavior. The high wear resistance of **REMA TIP TOP** slurry handling hoses provide for a longer service life, decreased line maintenance and reduced risk of wear leakages that result in contamination spills.

ADVANTAGES OF THE REMA TIP TOP MATERIAL HANDLING HOSES

- Extended life span compared to steel pipe due to inner tube liner
- Reduced flow resistance, absorbed vibration and less noise emissions thanks to smooth inner surface
- Weather and wear-resistant outer layer
- Quick/simple mounting, no special tools required
- Easily adaptable to plant changes

For applications that require oil, heat, chemical or other specialized properties, **REMA TIP TOP** can custom manufacture Material Handling Hoses in alternate rubber compounds such as; natural tan rubber, soft black rubber, hard black rubber, nitrile, neoprene, EPDM.

Please contact **REMA TIP TOP** to discuss the specific needs of your application.

REMA TIP TOP MATERIAL HANDLING HOSE SYSTEMS

WEAR RESISTANT MINING HOSE

Designed for superior performance in industrial and mining applications.

REMA TIP TOP material handling hoses are designed for high-demand operating conditions with abrasive materials. The **REMAGOLD** inner liner provides industry leading wear resistance coupled with a smooth surface lowering flow resistance. The highly elastic natural rubber compound also provides excellent resistance to wet abrasion. The physical properties of **REMAGOLD** make it the optimum rubber lining for industrial and mining applications.

CHARACTERISTICS

- Extremely wear and abrasion-resistant
- Avoids frequent wear and leakages
- Quick/simple mounting, no special tools required
- Usable as pipe elbow (depending on bend radius and angle)
- Reduces operation costs
- Long service life
- Noise absorbing
- Vibration absorbing
- Abrasion and UV resistant outer cover
- Operating temperatures up to 180 °F
- Standard 150 psi working pressure, higher pressures available upon request
- Safety factor of 3:1 on 150 psi hoses (3 times the working pressure)
- Available in suction or discharge applications
- Hose lengths up to 50 feet in many sizes
- Standard mining hose in sizes from 2" ID to 36" ID. Other sizes available on request

FIELDS OF APPLICATION

- Hydraulic pressure and suction transport of abrasive slurries (stones, gravel and sand of a particle size up to 10 mm)
- Applicable as compensation hoses where steel pipes expand as a result of increased temperatures.



REMAGOLD Lined Fixed Flange



REMAGOLD Lined Built-In Steel Nipple

REMAGOLD Specifications

Polymer basis	DIN ISO 1629	NR
Specific weight		0.96 g/cm ³
Hardness	DIN ISO 7619-1	34 Shore A +/- 5
Color - Interior/Exterior		Yellow
Elongation	DIN 53 504	750%
Resilience	DIN 53 512	78%
Tensile Strength	DIN 53 504	2175 psi
Density	DIN EN ISO 1183-1	1.12 g/cm ³

REMA TIP TOP

MATERIAL HANDLING HOSE SYSTEMS

WEAR RESISTANT CUT END HOSE

Designed for superior performance in industrial and mining applications.

CUT END HOSES

- Working pressure up to 150 psi
- Custom lengths available on request
- Aluminum reusable couplings with a 150# bolt pattern flange & face gasket
- Corrugated, hard wall hose

CUT END HOSE – Split reusable couplings

- Available in 2", 3", 4", 6", 8", 10", 12" and 14"
- Standard inner liner thickness;
 - 1/4" for 2" and 3" ID hoses
 - 3/8" for 4" through 14" ID hoses
- Working pressure up to 150 psi
- Drop-in face gasket needed
- Most sizes in stock



CUT END HOSE DATA

Item Number	Cut End Hose Size (in)	REMA Gold Tube Thickness (in)	Std Hose Length (ft)	Working Pressure (psi)	Min. Hose Bend Radius (in)	Tangent Needed Per End For Coupling (in)	Nominal Hose O.D. (in)	Weight Per Ft (lbs)
151022050	2	0.25	50	150	14	3.38	3.00	2.25
151032050	3	0.25	50	150	21	3.38	4.50	4.00
151043050	4	0.38	50	150	28	3.38	5.25	6.00
151063050	6	0.38	50	150	42	4.50	7.50	9.40
151083025	8	0.38	25	150	70	6.00	9.50	13.50
151103025	10	0.38	25	150	80	7.00	11.50	20.30
151123025	12	0.38	25	150	100	7.75	13.75	24.00
151143025	14	0.38	25	150	120	7.75	16.00	28.75

REMA TIP TOP MATERIAL HANDLING HOSE SYSTEMS

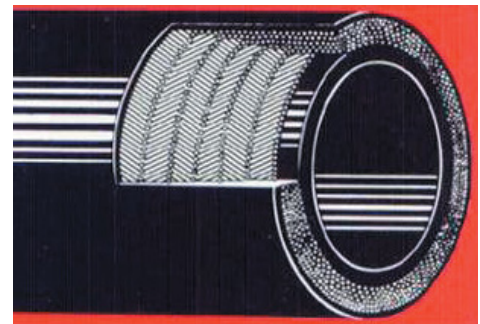
HOSE TYPES

Soft Wall

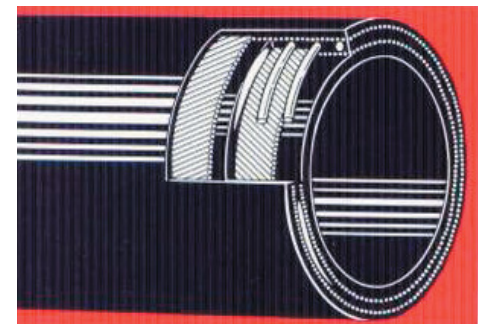
- No wire

Hard Wall

- With wire
- Enables tighter bend radius without kinking
- Suction applications
- Prevents hose from collapsing when not under pressure



SOFT WALL



HARD WALL

HOSE EXTERIOR FINISH

Corrugated

- Cut end hose
- Used with split couplings
- Improves bend radius

Smooth

- Standard on material handling hoses.
- Must have cuff end to use split coupling



CORRUGATED



SMOOTH

REMA TIP TOP MATERIAL HANDLING HOSE SYSTEMS

HOSE ENDS

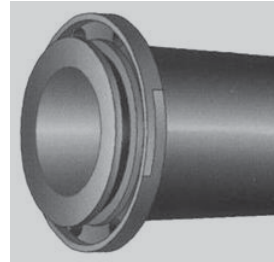
REMA TIP TOP material handling hose comes with a variety of end options to best suit your application.



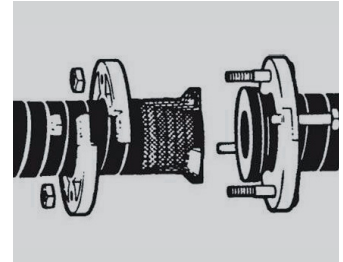
FIXED FLANGE

FIXED FLANGE - BIRF (BUILT IN RUBBER FLANGE) OR DUCT & RUBBER

- Available in all sizes and flange bolt patterns
- Working pressures up to 200 psi
- Drop in face gasket not needed
- Made to order



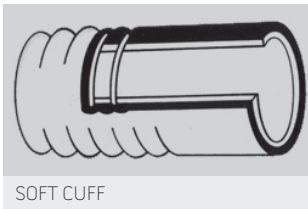
BEADED HOSE END



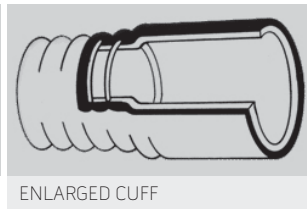
BEADED HOSE END

BEADED HOSE END WITH SPLIT OR SWIVEL FLANGE

- Standard sizes up to 14"
- Standard with 150# bolt pattern reusable 2-piece interlocking flange
- Working pressure up to 150 psi
- Custom sizes and bolt patterns available upon request
- Drop in face gaskets not needed
- Made to order



SOFT CUFF



ENLARGED CUFF

CUFF END HOSE – SOFT AND ENLARGED

- Available in hose sizes 2" ID and larger
- Working pressures up to 150 psi depending on hose end clamping method
- No flange or fitting on the end of the hose
- Soft Cuff, hose wall remains same diameter at cuff
- Enlarged Cuff, hose wall diameter increases at cuff
- Made to order

PLAIN END HOSE

- Available in hose sizes 2" ID and larger
- Working pressures up to 150 psi depending on hose end clamping method
- No flange or fitting on end
- Construction of hose body runs to the end
- Made to order



BUILT-IN STEEL NIPPLE

BUILT-IN STEEL NIPPLE

- Available in all hose sizes
- Available in all bolt patterns
- Available with Victaulic IPS or AGS Grooves
- Working pressures up to 1000 psi
- Made to order

PUMP FLANGE END

- Custom manufactured to match pump flange
- Allows direct connection to pump, eliminating adapter
- Easy to install

REMA TIP TOP

MATERIAL HANDLING HOSE SYSTEMS

Length Tolerance For Hose Built To Length

When fittings or special ends are built-in the hose at the time of manufacturing, tolerance is applied to overall length.

Length (Feet)	Tolerance +/- (Inches)
5 And Under	1"
Over 5 thru 10	1-1/2"
Over 10 thru 20	2-1/2"
Over 20	1%

Length Tolerance For Specific Cut Length Of Hose

These tolerances apply to hose which is made in conventional lengths and then cut to a specified shorter length

Length (Feet)	Tolerance +/- (Inches)
12" & Under	1/8"
Over 12" Thru 24"	3/16"
Over 24" Thru 36"	1/4"
36" thru 48"	3/8"
48" Thru 72"	1/2"
Over 72"	1%

150# Bolt Pattern Flanges

Flange Size	Flange O.D.	Bolt Circle	Num Bolt Holes	Bolt Hole Dia	Bolt Sizes
2	6	4.75	4	0.75	5/8" - 11
2.5	7	5.5	4	0.75	5/8" - 11
3	7.5	6	4	0.75	5/8" - 11
3.5	8.5	7	8	0.75	5/8" - 11
4	9	7.5	8	0.75	5/8" - 11
5	10	8.5	8	0.875	3/4" - 10
6	11	9.5	8	0.875	3/4" - 10
8	13.5	11.75	8	0.875	3/4" - 10
10	16	14.25	12	1	7/8" - 9
12	19	17	12	1	7/8" - 9
14	21	18.75	12	1.125	1" - 8
16	23.5	21.25	16	1.125	1" - 8
18	25	22.75	16	1.25	1-1/8" - 8
20	27.5	25	20	1.25	1-1/8" - 8
22	29.5	27.25	20	1.375	1-1/4" - 8
24	32	29.5	20	1.375	1-1/4" - 8
26	34.25	31.75	24	1.375	1-1/4" - 8
28	36.5	34	28	1.375	1-1/4" - 8
30	38.75	36	28	1.375	1-1/4" - 8
32	41.75	38.5	28	1.625	1-1/2" - 8
34	43.75	40.5	32	1.625	1-1/2" - 8
36	46	42.75	32	1.625	1-1/2" - 8

300# Bolt Pattern Flanges

Flange Size	Flange O.D.	Bolt Circle	Num Bolt Holes	Bolt Hole Dia	Bolt Sizes
2	6.5	5	8	0.75	5/8" - 11
2.5	7.5	5.875	8	0.875	3/4" - 10
3	8.25	6.625	8	0.875	3/4" - 10
3.5	9	7.25	8	0.875	3/4" - 10
4	10	7.875	8	0.875	3/4" - 10
5	11	9.25	8	0.875	3/4" - 10
6	12.5	10.625	12	0.875	3/4" - 10
8	15	13	12	1	7/8" - 9
10	17.5	15.25	16	1.125	1" - 8
12	20.5	17.75	16	1.25	1-1/8" - 8
14	23	20.25	20	1.25	1-1/8" - 8
16	25.5	22.5	20	1.375	1-1/4" - 8
18	28	24.75	24	1.375	1-1/4" - 8
20	30.5	27	24	1.375	1-1/4" - 8
22	33	29.25	24	1.625	1-1/2" - 8
24	36	32	24	1.625	1-1/2" - 8
26	38.25	34.5	28	1.750	1-5/8" - 8
28	40.75	37	28	1.750	1-5/8" - 8
30	43	39.25	28	1.875	1-3/4" - 8
32	45.25	41.5	28	2	1-7/8" - 8
34	47.5	43.5	28	2	1-7/8" - 8
36	50	46	32	2.125	2" - 8

REMA TIP TOP Product & Solutions

CONVEYING SOLUTIONS

Pulley Lagging

- PERFORMANCE GRIP 70
- REMAGRIP
- REMAGRIP Ceramic Lagging
- UNIGRIP
- UNILAG
- T-REX

Belt Cleaners

- REMACLEAN - T-Bar Scrapers
- REMACLEAN - Green Combi
- REMACLEAN - Grey Combi
- REMACLEAN - Cleaning Brush

Skirting

- REMASKIRT
- Combi-Skirt
- T-REX
- UNISKIRT

Repair Products

- Repair Patches
- Repair Strips
- REMA GOO
- RG 7000
- T2 Repair System

Other

- Conveyor Belting
- REMACLEAT
- Edge Wall
- Impact Slider Bed Bars
- REMAMILL
- REMASCREEN

Rollers & Pulleys

- REMASLEEVE
- REMAROLL
- REMATRACK

WEAR & CORROSION PROTECTION

Wear Protection Lining

- REMA Performance Line
- REMALINE
- REMASTAR
- UNILINE
- REMATHAN
- T-REX

Rubber Linings

- CHEMOLINE
- CHEMONIT

Heavy Wear Protection

- REMALOX
- REMALOX HD
- KG Bars
- ZP Profile Bars
- REMA WEAR Repair

Anticaking

- REMAFLOX
- REMALEN
- REMASLIDE

Corrosion Coatings & Linings

- COROFLAKE
- COROGARD
- COROFLOOR
- TOPLINE
- RCC LININGS
- COROFLEX

Material Handling Hose

- Fixed Flange
- Split or Swivel Flange
- Cut End Hose

ADHESIVES & SOLUTIONS

Cements & Adhesives

- SC 2000 Black / White
- SC 4000 Black / White
- BC 3004 Blue Cement
- PC-4 Plastic Cement

Solutions

- PR 200 Metal Primer
- #13 Cleaning Solvent
- R50 Cleaning Solvent
- TIP TOP Hand Cleaner
- A&B Vulc Compound

Splice Kits

- Hot Splice Kits
- MSHA Splice Kits
- WK Press and Splice Material
- Filler Rubber
- CN Bonding Rubber

TOOLS & REPAIR

Tools

- Rubber Cut Saw
- Extruder Gun
- Vulcanizing Presses
- Combi Stripper
- Grooving Tool

Other

- REMAWRAP Pipe Repair
- OTR Tire Patches



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