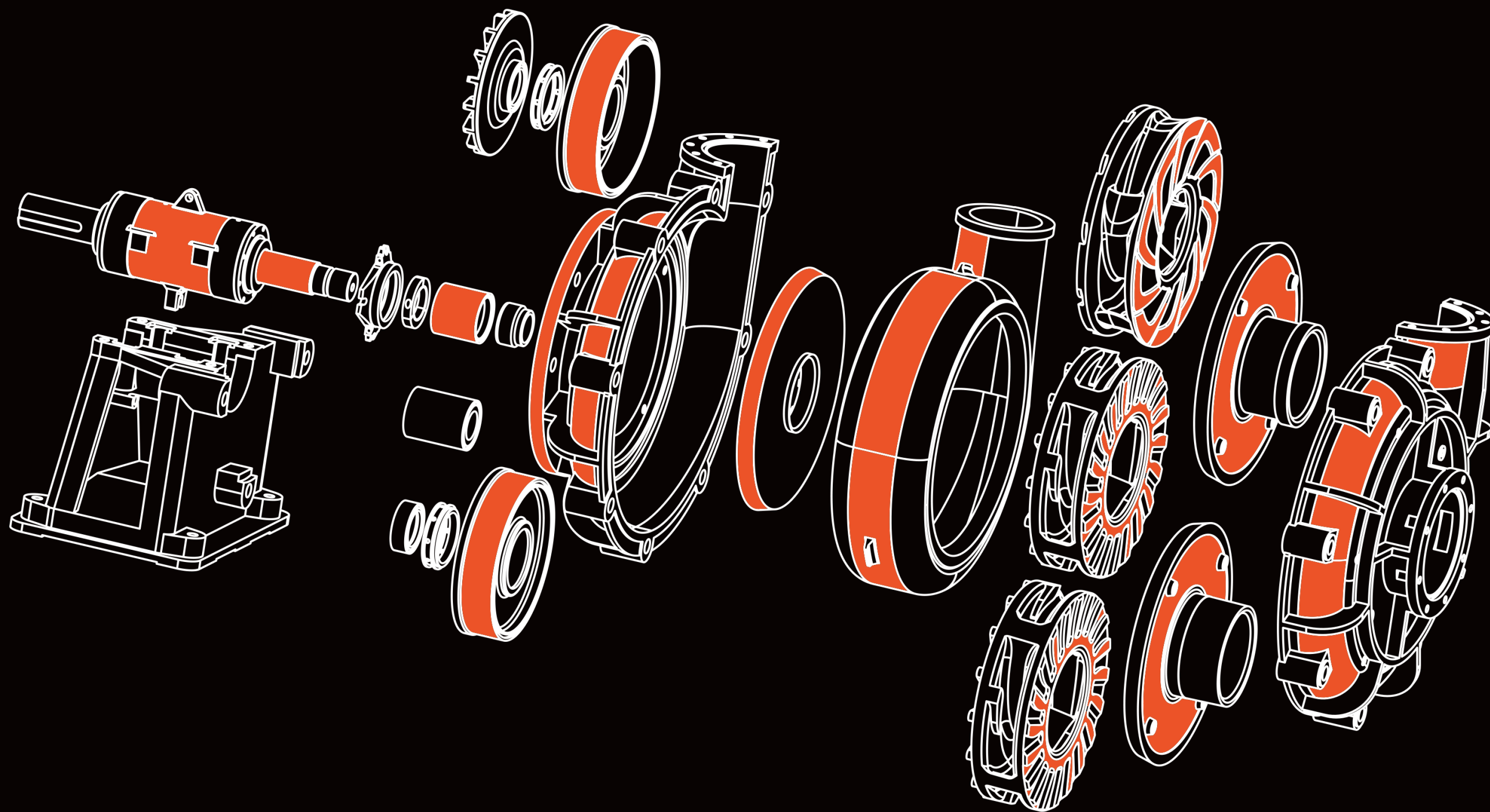


# Slurry handling solutions

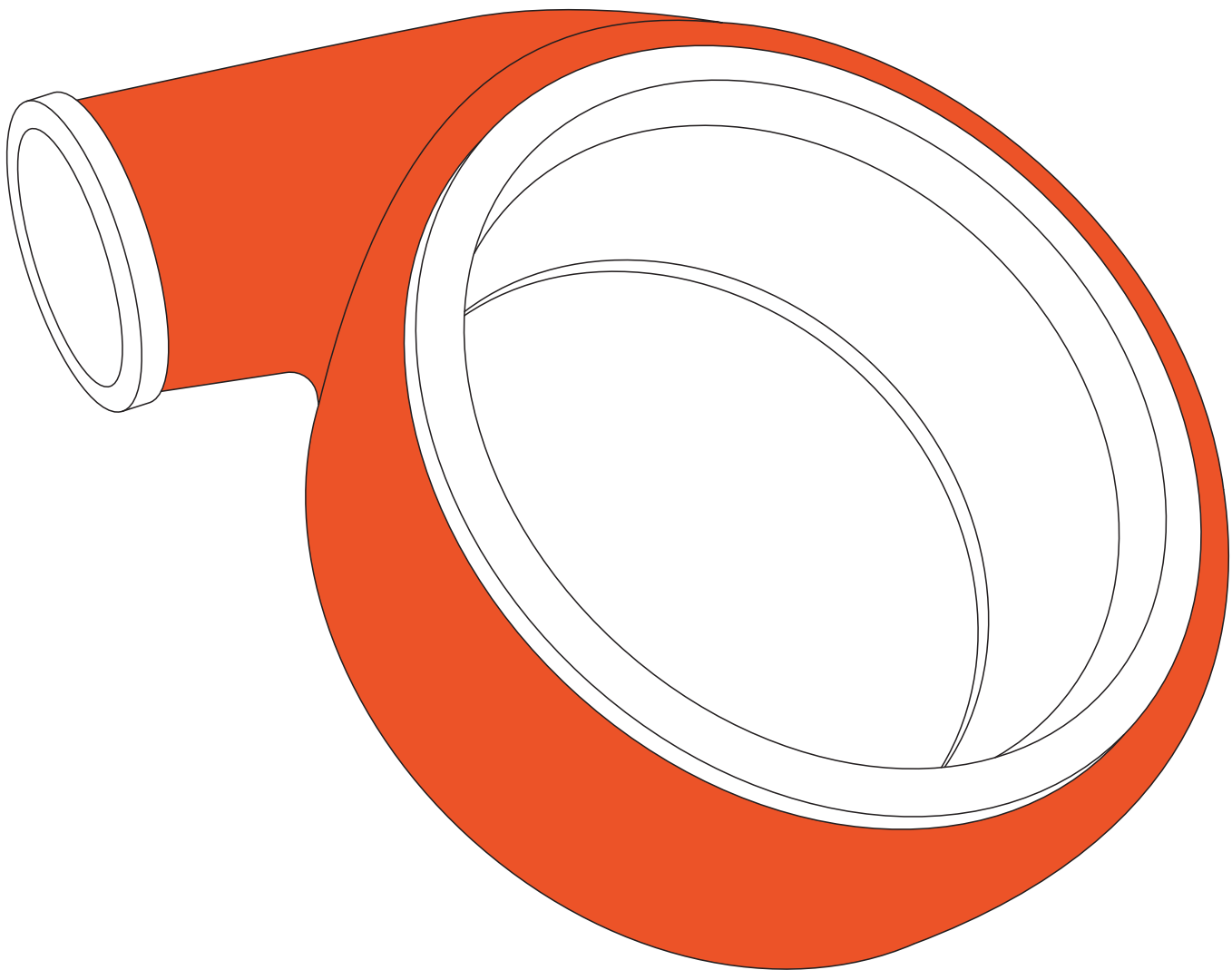
**element**<sup>®</sup>  
Integrity in details



Reliable spare and wear parts provide significant decrease of slurry handling system operational costs

# Slurry Handling system

Every mining and processing facility is a huge mechanism with multiple technological, power and ancillary equipment, as well as piping with shut-off and control valves for the enabling of fault-proof volume-correct timely material transportation between the operational processes.



Efficiently designed slurry handling system is a key factor to the consistent performance of the mining and processing plant

Any fault in slurry handling system operation results in operational process failures and inevitable technology correction along with production losses. The use of alternative spare and wear parts for slurry handling equipment provides significant reduction of operational cost up to 30% in case of correct material selection and planning without any decrease in the performance of the whole system.

## Slurry Handling equipment parts

Slurry pump parts, piping and shut-off and control valves, as well as all technological and ancillary equipment is subject to wear and requires routine-preventive maintenance and timely parts replacement. Element offers a wide range of hydro-transport system components to enable continuous fault-free operation of the mining and processing plant.



# Element advantages

## Experience

Experience in operating, selecting, commissioning and delivery of equipment and process systems different technological equipment of mining and processing facilities in Europe, Russia and CIS.



## Continuous development

Knowledge of operation and experience together with the opportunity to implement immediate changes in the design of the parts provide the most applicable solution to our customers.

## Individual approach

Element considers the need of the Customer in wear and spare parts, and piping, as well as takes the piping system design, settling sump design, equipment operating process parameters, such as flow, head, particle size distribution and etc.

And it is only after a complete assessment of operational conditions we provide the most applicable and reliable solution for customer request



# Slurry pumps types

Spare and wearing parts for pumping equipment are manufactured according to our technical design assignments at the leading production facilities of Europe, India, China, South Africa and other countries.

Parts produced by Element comply with the industry quality standards and the strictest operating conditions to support the failure-proof functioning of the Customer's enterprise equipment.

Discharge, inch	Discharge, mm	Warman								KSB GIW			FLS Krebs	
Pump Type		AH	G	AHE	XU	AHF	HH	L	MCU/R	LCC	LSA	MDX	MillMAX	GravelMAX
1	25	1,5/1					1,5/1							
1,5	37,5	2/1,5					2/1,5			50-230				
2	50	3/2			3/3	3	3/2	50		80-300	2x3 21		3x2	
3	75	4/3		4/3	4/4	4	4/3	75		100-400	4x6 21		4x3	
4	100	6/4	6/4	6/4	6/5	6	6/4	100	125	150-500	4x6 25	6*6-25	6x4	6/4
6	150	8/6	8/6	8/6	8/6	8	8/6	150	150	200-610	6x8 25	6*8-25	8x6	8/6
8	200	10/8	10/8	10/8	10/8	10		200	200	250-660	8x10 25	10*10-36	10x8	10/8
10	250	12/10	12/10		12/10	12		250	250	300-710	10x12 32	12*10-36	12x10	12/10
12	300	14/12	14/12		14/12	14		300	300		12x14 36	14*12-36	14x12	14/12
14	350	16/14						350	350		16x16 39	16*16-39	16x14	
16	400		18/16					400	400		18x18 44	18*16-50	20x18	
18	450	20/18						450	450					
20	500							500				22*22-61		
22	550							550			20x24 48	24*22-61	24x20	
24	600							650	550			26*24-67		
26	650		28/24								26x28 58	28*26-64	28x26	
28	700								650					

The use of alternative spare and wear parts with lifetime similar or with exceeding the OEM's parts lifetime reduces the operational cost substantially.

Element Company Group does not own or represent any of the brands stipulated here. Spare parts and components are completely interchangeable with parts of pointed equipment. Provided and produced with warranty obligations of the Element® trademark.



# Design department

Main mission of the Design Department is the continuous improvement of parts design and material specification to reach the longest lifetime and reduce the wear rate



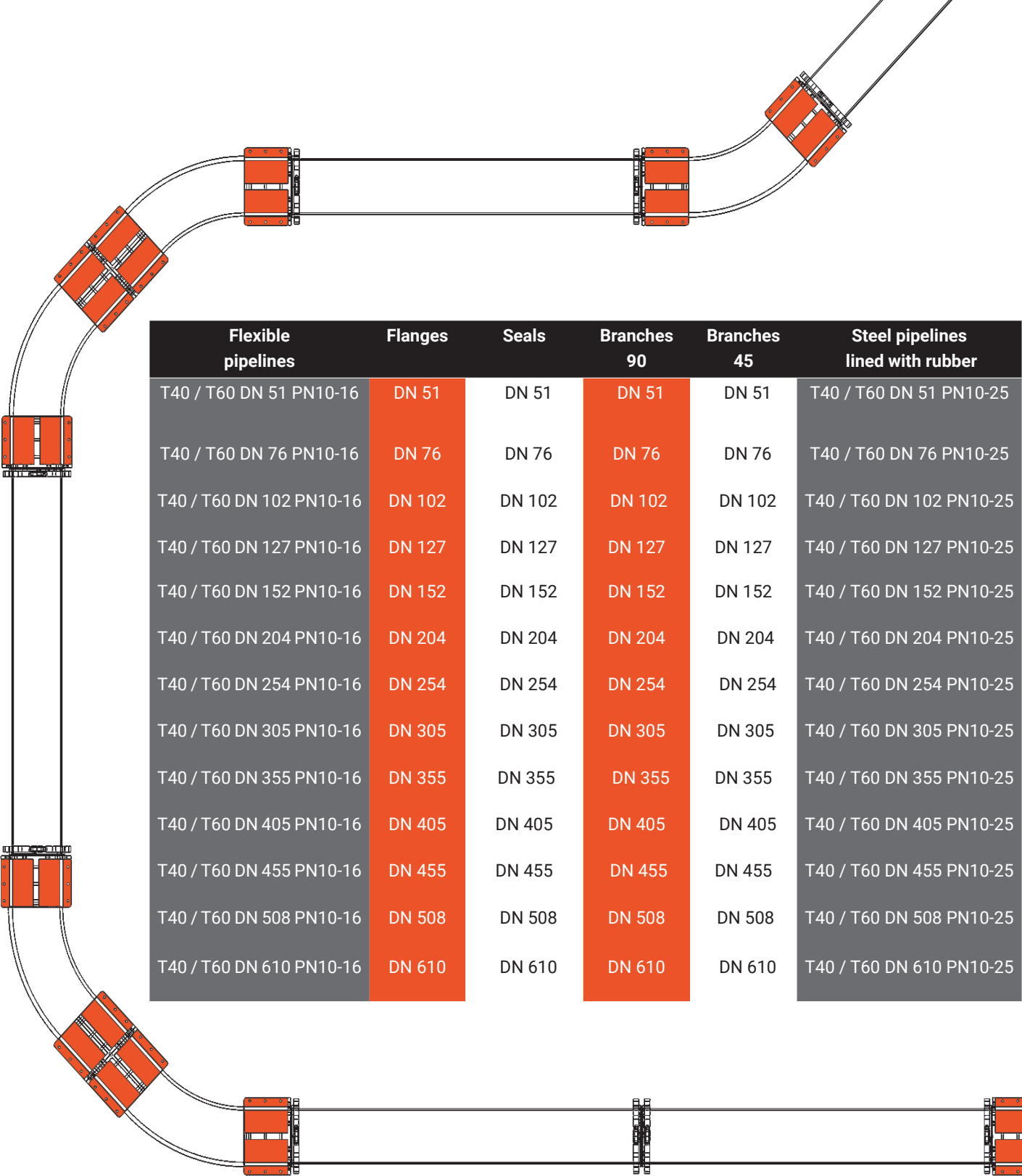
## Benefits

- Fast design changes
- Supplying all required documentation with parts
- High experience in the development of pump wet-end design
- Online check and designing of the routing

## Element's Opportunities

- Reverse engineering
- Own parts design
- Execution of design documentation according to customer's drafts
- Continuous development solutions for main assemblies and equipment components

# Slurry hoses



Flexible pipelines	Flanges	Seals	Branches 90	Branches 45	Steel pipelines lined with rubber
T40 / T60 DN 51 PN10-16	DN 51	DN 51	DN 51	DN 51	T40 / T60 DN 51 PN10-25
T40 / T60 DN 76 PN10-16	DN 76	DN 76	DN 76	DN 76	T40 / T60 DN 76 PN10-25
T40 / T60 DN 102 PN10-16	DN 102	DN 102	DN 102	DN 102	T40 / T60 DN 102 PN10-25
T40 / T60 DN 127 PN10-16	DN 127	DN 127	DN 127	DN 127	T40 / T60 DN 127 PN10-25
T40 / T60 DN 152 PN10-16	DN 152	DN 152	DN 152	DN 152	T40 / T60 DN 152 PN10-25
T40 / T60 DN 204 PN10-16	DN 204	DN 204	DN 204	DN 204	T40 / T60 DN 204 PN10-25
T40 / T60 DN 254 PN10-16	DN 254	DN 254	DN 254	DN 254	T40 / T60 DN 254 PN10-25
T40 / T60 DN 305 PN10-16	DN 305	DN 305	DN 305	DN 305	T40 / T60 DN 305 PN10-25
T40 / T60 DN 355 PN10-16	DN 355	DN 355	DN 355	DN 355	T40 / T60 DN 355 PN10-25
T40 / T60 DN 405 PN10-16	DN 405	DN 405	DN 405	DN 405	T40 / T60 DN 405 PN10-25
T40 / T60 DN 455 PN10-16	DN 455	DN 455	DN 455	DN 455	T40 / T60 DN 455 PN10-25
T40 / T60 DN 508 PN10-16	DN 508	DN 508	DN 508	DN 508	T40 / T60 DN 508 PN10-25
T40 / T60 DN 610 PN10-16	DN 610	DN 610	DN 610	DN 610	T40 / T60 DN 610 PN10-25

## Slurry hoses system

Element® products conform to the industry standards and customer's requirements in relation to the quality of the materials used, wear-resistance and environmental protection standards.

Reasonable examination planning and the possibility of turning the pipelines enable routine change of the pipeline and system components maximum wear areas, thus extending pipes service life and reducing costs for the replacement of the worn parts.

## Types of materials used

Depending on the required application hoses are supplied with different rubber type. This is can be natural rubber as well as synthetic materials depending on application to supporting the longest possible lifetime.



Integrity in details

# Perfect solution

Using its years-long experience in operating and modernizing the pumping equipment and piping system Element Company offers solutions in respect to its specific application by the Customer.

# Wide range

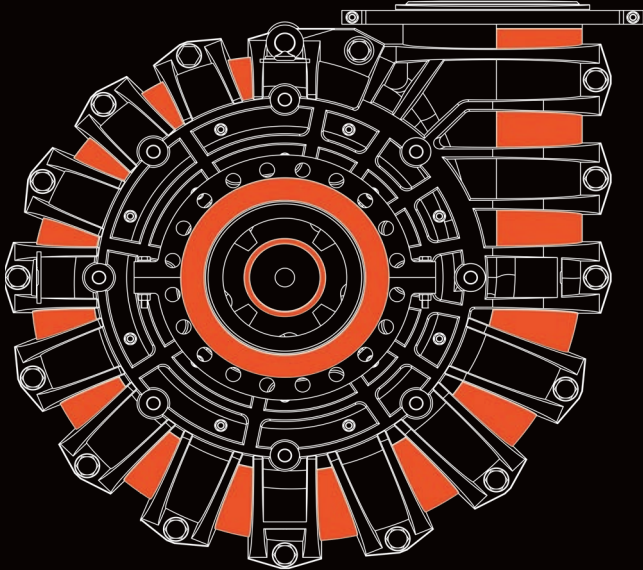
Standard solutions for different operating applications, widest range of types and materials of spare and wearing parts.

# Design according to customer request

Our own design department helps us to develop the best solution for different application and improve the lifetime.

# Warranty policy

Element produces spare and wear parts under its own brand and provides warranties.





# Element Group of Companies

## Element Group Oy

Address: 33710 Tampere  
Yrittäjänkulma 5  
Telephone: +358 10 340 3980  
Email: [info@element.global](mailto:info@element.global)

## Mining Element LLC

Address: 196105, Russia, St. Petersburg  
Reshetnikova ul., 14 A  
Telephone: +7 (812) 900-85-70  
Email: [pro@element.global](mailto:pro@element.global)

## Shanghai Element Equipment Co. Ltd.

Address: 200127, Shanghai, Pudong District,  
Waigaoqiao Special Economic Zone, Rijing Road  
139 bld, 213 office  
Telephone: +8615280285903  
Email: [china@element.global](mailto:china@element.global)

All contacts of regional offices can be found on the website:

[www.element.global](http://www.element.global)



[element.global](https://www.instagram.com/element.global)



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