

FASTER CUTTING SMARTER ECONOMICS



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CATALOGUE

ZHUZHOU XINDA MACHINERY TECHNOLOGY CO.,LTD.



@2025

WHO ARE WE?



Masters of Rock Cutting

Making Every Excavation More Efficient, More Economical
This is the enduring mission of *Xinda Technology*.

With decades of expertise in mining and construction, we specialize in the R&D and manufacturing of high-performance cutting picks. Xinda Technology is not only the drafting unit of the “*Excavation Pick*” group standard, but also a co-drafter of the national standards “*Extra coarse grain cemented carbide tips for engineering*” and “*Technical requirements for full face tunnel boring machine manufacturing management and supervision.*” Every pick we produce embodies our deep understanding of *rock mechanics* and *field engineering practice*.

WHY CHOOSE XINDA

STANDARD SETTER

As a key contributor to national and industry standards, Xinda benchmarks its products against leading global brands, delivering equivalent performance and realizing full-scale localization in cutting tools.

TECHNOLOGY DRIVEN

With Ultra-coarse grain carbide, high-toughness body, and the Ultra Wear-Resistant Protection Layer Technology, our picks deliver significantly enhanced wear resistance and service life.



COMPLETE PRODUCT RANGE

From roadheader picks and shearer picks to rotary drilling and surface mining tools, we cover all mainstream equipment at home and abroad.

PROVEN IN THE FIELD

Validated across hundreds of mining and tunneling projects, delivering outstanding results in hard rock, interbedded strata, and highly abrasive formations.

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A ROADHEADER PICKS

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ROADHEADER PICKS

Roadheader Pick Series | High Efficiency and Wear Resistance, Designed for Hard Rock Excavation



PRODUCT HIGHLIGHTS

- **Ultra Coarse-Grain Carbide Tip:** 1.5–2× higher resistance to fracture and spalling
- **High-Toughness Body:** Minimizes breakage and jamming risks
- **Advanced Wear-Resistant Layer:** 2–3× improved abrasion resistance
- **Wide Applications:** Designed for coal roadway development, tunnel construction, and hydropower & municipal engineering.

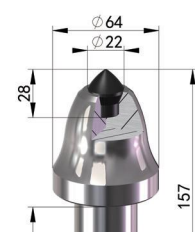
ROADHEADER PICK SELECTION GUIDE

Roadheader Picks (System Model)	Model	Carbide Tip Shape		Wear-Resistant Layer	Application Conditions				Retainer
		Column Type	Mushroom Type		Soft Rock	Medium-Hard Rock	Hard Rock	Extra-Hard Rock	
Φ38mm	XD22M-38-64		•	standard	•				•
	XD22MR-38-64		•	R	•				•
	XD25-38-64	•		standard		•			•
	XD25R-38-64	•		R		•			•
	XD25M-38-64		•	standard		•			•
	XD25MR-38-64		•	R		•			•
	XD30-38-80	•		standard			•		•
	XD30R-38-80	•		R			•		•
	XD30MR-38-80		•	R			•		•
	XD30M-38-80		•	standard			•		•
	XD30C-38-80	•		C			•		•
	XD30MC-38-80		•	C			•		•
	XD32-38-80	•		standard			•		•
	XD32R-38-80	•		R			•		•
	XD32C-38-80	•		C			•		•
	XD35-38-80	•		standard				•	•
	XD35R-38-80	•		R				•	•
	XD35MR-38-80		•	R				•	•
	XD35M-38-80		•	standard				•	•
	XD35C-38-80	•		C				•	•
Φ42 mm	XD35MC-38-80		•	C				•	•
	XD35CC-38-80	•		CC				•	•
	XD35M-38-95		•	standard				•	•
	XD35MC-38-95		•	C				•	•
	XD25M-42-80		•	standard		•			•
	XD30M-42-80		•	standard			•		•
	XD32-42-80	•		standard			•		•
	XD32R-42-80	•		R			•		•
	XD32C-42-80	•		C			•		•
	XD35M-42-80		•	standard				•	•
DESCRIPTION	R: Laser Cladding Wear-Resistant Layer								
	C: Ultra Wear-Resistant Protective Layer								
	CC: Reinforced Ultra Wear-Resistant Protective Layer								

*All product renderings are presented in a 20° standard isometric view to illustrate the geometry and welding interface.

SHANK SYSTEM Φ38MM

SHANK SYSTEM Φ38MM



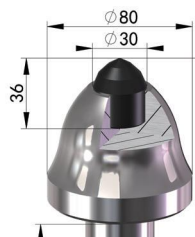
Pick type	XD22M-38-64
Rock Hardness	Soft rock
Application	Roadheaders, coal roadways, urban tunnels



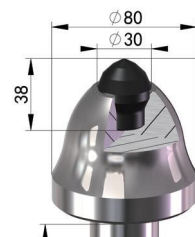
Pick type	XD22MR-38-64
Rock Hardness	Soft rock
Application	Mixed-face tunneling, roadway drivage



Pick type	XD25-38-64
Rock Hardness	Medium-hard rock
Application	Coal roadway excavation, semi-hard formations



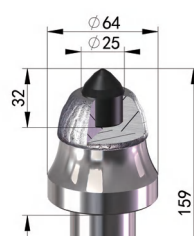
Pick type	XD30-38-80
Rock Hardness	Medium-hard to hard rock
Application	Hard rock tunneling, roadheader cutting



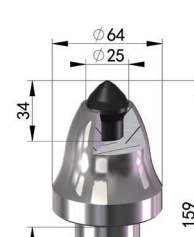
Pick type	XD30M-38-80
Rock Hardness	Medium-hard rock
Application	Roadheaders in coal and mixed rock layers



Pick type	XD30R-38-80
Rock Hardness	Hard rock
Application	Hard rock cutting and roadway excavation



Pick type	XD25R-38-64
Rock Hardness	Harder rock
Application	Roadheaders in hard coal seams,tunneling



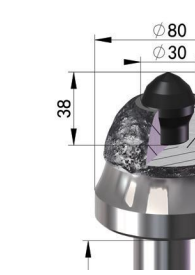
Pick type	XD25M-38-64
Rock Hardness	Medium rock
Application	Coal mine excavation,tunneling projects



Pick type	XD25MR-38-64
Rock Hardness	Soft-Medium
Application	Roadheader tunneling in soft-medium rock



Pick type	XD30C-38-80
Rock Hardness	Hard rock
Application	Mixed-face tunnels, hard abrasive rock



Pick type	XD30MC-38-80
Rock Hardness	Hard rock
Application	Mixed-face tunnels, hard abrasive rock



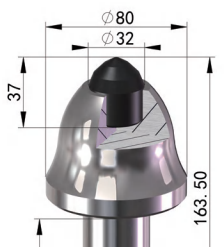
Pick type	XD30MR-38-80
Rock Hardness	Hard rock
Application	Coal roadway, hard rock tunneling

Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XD22M-38-64	Box	10	20.5
XD22MR-38-64	Box	10	20.5
XD25-38-64	Box	10	20.7
XD25R-38-64	Box	10	20.6
XD25M-38-64	Box	10	20.6
XD25MR-38-64	Box	10	20.6

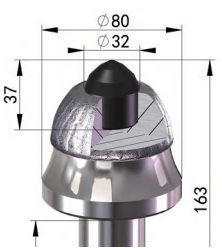
Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XD30-38-80	Box	10	25.2
XD30R-38-80	Box	10	25.7
XD30M-38-80	Box	10	26
XD30C-38-80	Box	10	26.1
XD30MC-38-80	Box	10	26.2
XD30MR-38-80	Box	10	26.1

*Application ranges are general recommendations. Final model selection depends on rock strength, abrasivity, and equipment compatibility etc..

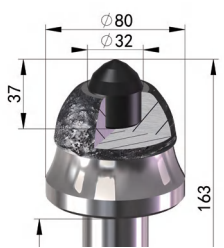
SHANK SYSTEM Φ38MM



Pick type	XD32-38-80
Rock Hardness	Medium-hard to hard rock
Application	Tunnel excavation, roadway drive



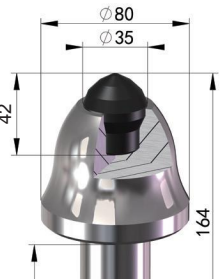
Pick type	XD32R-38-80
Rock Hardness	Hard rock
Application	High-strength coal seams, hard strata



Pick type	XD32C-38-80
Rock Hardness	Hard rock
Application	Tunnel excavation, metro projects



Pick type	XD35-38-80
Rock Hardness	Very hard-Extreme
Application	Granite & basalt cutting; hard-rock tunneling



Pick type	XD35M-38-80
Rock Hardness	Very hard-Extreme
Application	Heavy-duty cutting in ultra-hard strata



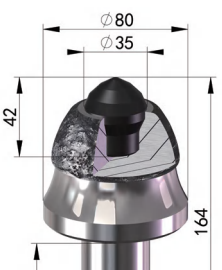
Pick type	XD35MR-38-80
Rock Hardness	Very hard-Extreme
Application	Very hard rock; fractured/fault zones

Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XD32-38-80	Box	10	25.8
XD32R-38-80	Box	10	25.9
XD32C-38-80	Box	10	26
XD35-38-80	Box	10	28.3
XD35M-38-80	Box	10	28.3
XD35MR-38-80	Box	10	28.4

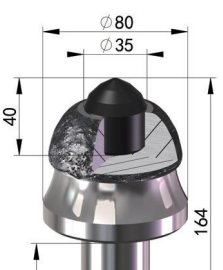
SHANK SYSTEM Φ38MM



Pick type	XD35C-38-80
Rock Hardness	Very hard-Extreme
Application	Basalt; hard ore bodies



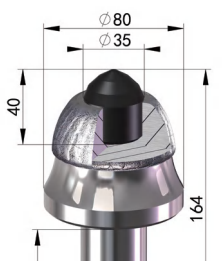
Pick type	XD35MC-38-80
Rock Hardness	Very hard-Extreme
Application	Special-purpose operations in extremely hard rock



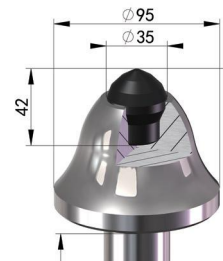
Pick type	XD35CC-38-80
Rock Hardness	Very hard-Extreme
Application	High-silica, highly abrasive formations



Pick type	XD35MC-38-95
Rock Hardness	Very hard-Extreme
Application	Faulted/fractured zones; ultra-hard granite



Pick type	XD35R-38-80
Rock Hardness	Very hard-Extreme
Application	Tunneling in extremely hard rock; heavy-load conditions



Pick type	XD35M-38-95
Rock Hardness	Very hard-Extreme
Application	Specialized rock breaking in ultra-hard strata

Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XD35C-38-80	Box	10	28.2
XD35MC-38-80	Box	10	28.4
XD35CC-38-80	Box	10	28.7
XD35R-38-80	Box	10	27.9
XD35M-38-95	Box	8	22.1
XD35MC-38-95	Box	8	22.1



Model	XD-Holder-38
Shank Inner Diameter	Φ38 mm
Application	For Φ38 mm cutting picks, used on roadheaders and tunnel excavation machines.

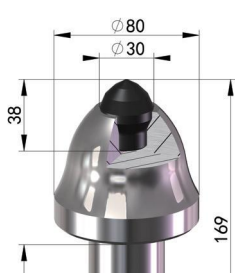


Model	XD-Holder-42
Shank Inner Diameter	Φ42 mm
Application	For Φ42 mm cutting picks, suitable for roadheaders and tunnel excavation machines.

SHANK SYSTEM Φ42MM



Pick type	XD35M-42-80
Rock Hardness	Hard-very hard rock
Application	Mining tunnels, high-strength rock



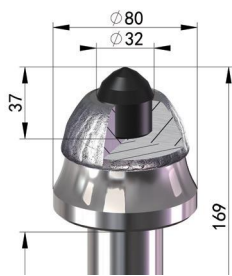
Pick type	XD30M-42-80
Rock Hardness	Medium-hard rock
Application	Coal roadway excavation, urban tunnels



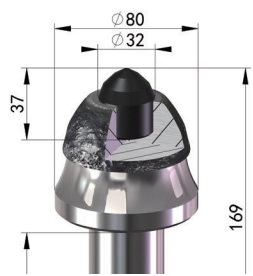
Pick type	XD25M-42-80
Rock Hardness	Medium rock
Application	Hard rock tunneling and roadway excavation.

Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XD25M-42-80	Box	10	31.7
XD30M-42-80	Box	10	33.4
XD35M-42-80	Box	10	34.9

SHANK SYSTEM Φ42MM



Pick type	XD32R-42-80
Rock Hardness	Hard rock
Application	Hard coal seams, mixed formations

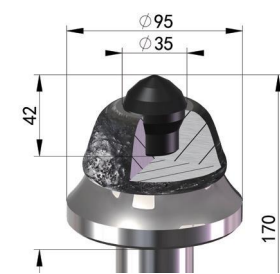


Pick type	XD32C-42-80
Rock Hardness	Hard rock
Application	Urban metro tunnels, hard abrasive rock

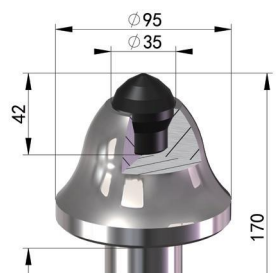
Pick type	XD32-42-80
Rock Hardness	Medium-hard to hard rock
Application	Tunnel excavation, roadheaders



Pick type	XD35MR-42-80
Rock Hardness	Hard-very hard rock
Application	Hard rock tunneling and coal roadway drivage



Pick type	XD35MCC-42-95
Rock Hardness	Extreme hard rock
Application	High-abrasion, extremely hard formations



Pick type	XD35M-42-95
Rock Hardness	Extreme hard rock
Application	Very hard rock tunneling, long service life

Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XD32-42-80	Box	10	30.2
XD32R-42-80	Box	10	30.2
XD32C-42-80	Box	10	30.3
XD35MR-42-80	Box	10	34.9
XD35MCC-42-95	Box	8	29.3
XD35M-42-95	Box	8	29.3

B

COAL MINING PICKS

- Selection Guide.....
- XDU47 System Models.....
- XDU80 System Models.....
- XDU90 System Models.....
- XDU170 System Models.....

COAL MINING PICKS (SHEARER PICKS)

Coal Mining Picks (Shearer Picks) | High-Performance Cutting for Complex Coal and Rock Conditions

PRODUCT HIGHLIGHTS

- *Optimized carbide tips:* sharp and wear-resistant, designed for coal seams with gangue and hard formations
- *High-toughness bodies:* reduce breakage and jamming risks, ensuring continuous cutting
- *Wear-resistant layers:* extend service life, reducing replacement frequency
- *Full range covering XDU47, XDU80, XDU90, XDU170 systems,* compatible with mainstream longwall shearers and continuous miners worldwide.

COAL MINING PICK SELECTION GUIDE

COAL MINING Picks (System Model)	Model	Carbide Tip Shape			Wear-Resistant Layer	Application Conditions				Retainer
		Column Type	Mushroom Type	Bucket-Type		Soft Rock	Medium-Hard Rock	Hard Rock	Extra-Hard Rock	
XDU47	XDU47-S22R			•	R	•				•
	XDU47-25R	•			R		•			•
	XDU47-M25R		•		R		•			•
XDU80	XDU82-S16R			•	R	•				•
	XDU82-M19R		•		R	•				•
	XDU84-22	•			standard	•				•
	XDU84-22R	•			R	•				•
	XDU85-S22R			•	R	•				•
	XDU84-25R	•			R		•			•
	XDU84-M25R		•		R		•			•
	XDU84-M30R		•		R			•		•
XDU90	XDU92-16R	•			R	•				•
	XDU92-M19R		•		R	•				•
	XDU94-S22R			•	R	•				•
	XDU95-25R	•			R		•			•
	XDU95-M25R		•		R		•			•
	XDU95-28R	•			R		•			•
	XDU95-M28R		•		R		•			•
	XDU95-30R	•			R			•		•
	XDU95-M30R		•		R			•		•
	XDU95-30C	•			C			•		•
	XDU95-M30C		•		C			•		•
	XDU95-35R	•			R				•	•
	XDU95-M35R		•		R				•	•
XDU170	XDU95-M35C		•		C				•	•
	XDU170-22R	•			R	•				•
	XDU170-25R	•			R		•			•
	XDU170-M25R		•		R		•			•
	XDU170-M25C		•		C		•			•
	XDU170-28R	•			R		•			•
	XDU170-M28R		•		R		•			•
	XDU170-30R	•			R			•		•
	XDU170-M30R		•		R			•		•
	XDU170-30C	•			C			•		•
	XDU170-M30C		•		C			•		•
	XDU170-35R	•			R				•	•
	XDU170-M35R		•		R				•	•
	XDU170-M35C		•		C				•	•
DESCRIPTION	R: Laser Cladding Wear-Resistant Layer									
	C: Ultra Wear-Resistant Protective Layer									

*All product renderings are presented in a 20° standard isometric view to illustrate the geometry and welding interface.

Coal Mining Picks

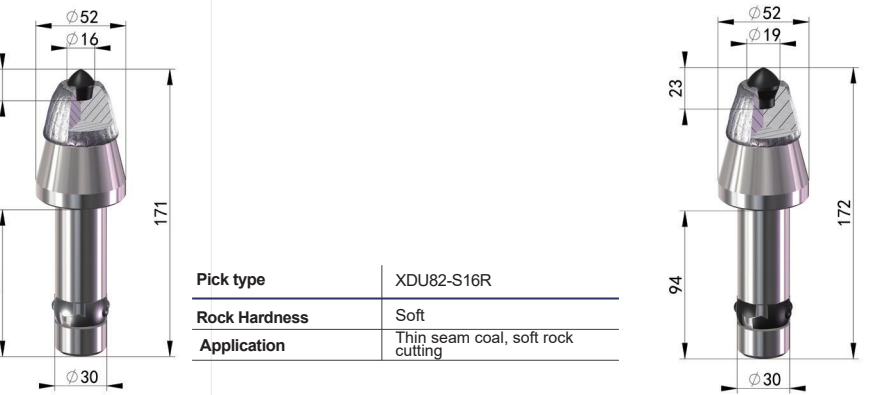
XDU47 SERIES



Pick type	XDU47-S22R	Pick type	XDU47-25R
Rock Hardness	Soft-medium	Rock Hardness	Medium-hard
Application	Soft to medium coal seams	Application	Medium-hard coal seam cutting, interbedded rock layers

Pick type	XDU47-M25R
Rock Hardness	Medium-hard
Application	Medium-hard coal seam cutting, stable performance

XDU80 SERIES



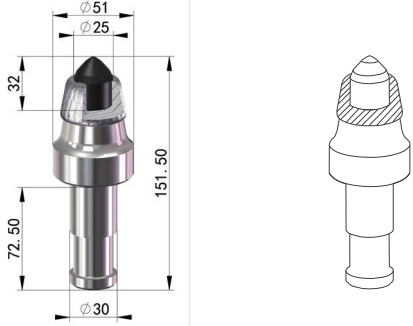
Pick type	XDU82-S16R
Rock Hardness	Soft
Application	Thin seam coal, soft rock cutting

Pick type	XDU82-M19R
Rock Hardness	Soft
Application	Thin seam coal, soft-medium rock cutting

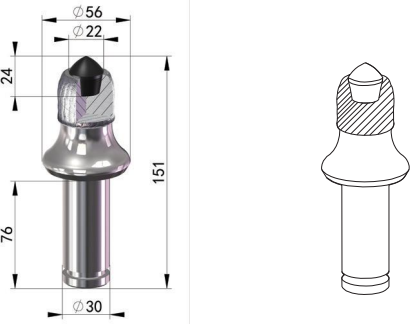
Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XDU47-S22R	Box	10	15
XDU47-25R	Box	10	15
XDU47-M25R	Box	10	15
XDU82-S16R	Box	10	16.5
XDU82-M19R	Box	10	17.3

*Application ranges are general recommendations. Final model selection depends on rock strength, abrasivity, and equipment compatibility etc..

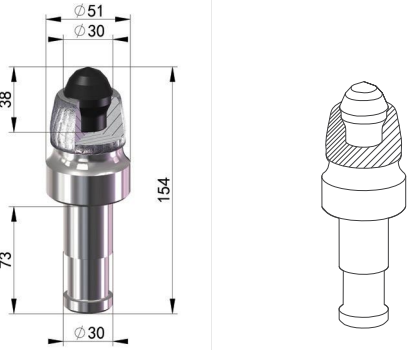
XDU80 SERIES



Pick type	XDU84-25R
Rock Hardness	Medium-Hard
Application	Coal seams with interlayers



Pick type	XDU85-S22R
Rock Hardness	Soft-Medium
Application	Thin seam coal cutting, soft coal / rock layers

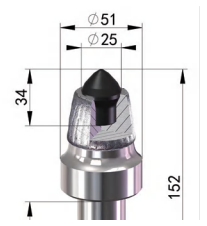


Pick type	XDU84-M30R
Rock Hardness	Hard Rock
Application	Hard coal seam cutting, high-abrasion coal mining

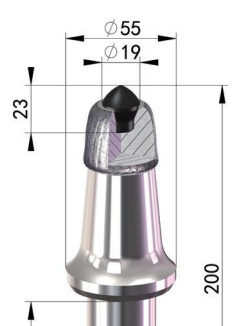
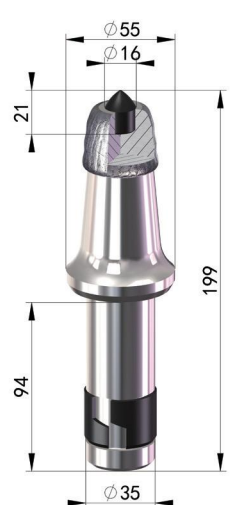
Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XDU84-25R	Box	10	13.1
XDU85-S22R	Box	10	15.5
XDU84-M30R	Box	10	14.5

Coal Mining Picks

XDU80 SERIES

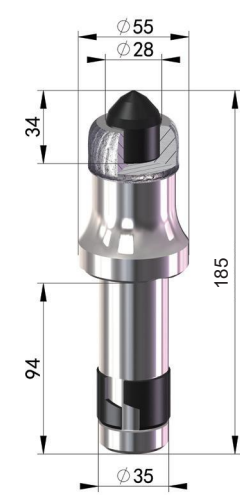
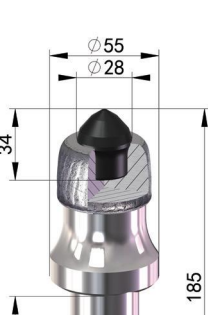
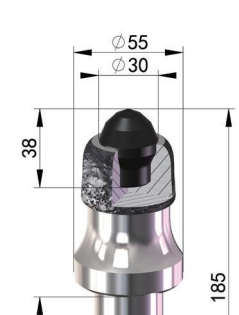
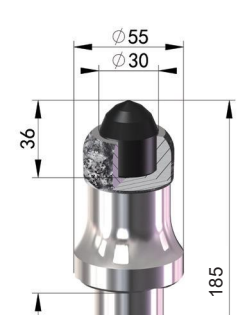
	Pick type XDU84-22R		Pick type XDU84-M25R
Rock Hardness	Soft-Medium	Rock Hardness	Medium-Hard
Application	General coal cutting, soft-medium strata	Application	Medium-hard coal seams; coal-rock interbeds; fault-crossing sections
	Pick type XDU84-22		
Rock Hardness	Soft-Medium		
Application	General coal cutting, soft-medium strata		

XDU90 SERIES

	Pick type XDU92-M19R		Pick type XDU94-S22R
Rock Hardness	Soft-Medium	Rock Hardness	Soft-Medium
Application	Thin/soft-medium coal seams; auxiliary cutting	Application	General coal seam cutting; production shearing
	Pick type XDU92-16R		
Rock Hardness	Soft		
Application	Soft coal seams; soft rock/coal cutting		

Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XDU84-22R	Box	10	13.1
XDU84-M25R	Box	10	13.1
XDU84-22	Box	10	13.1
XDU92-16R	Box	10	16.7
XDU92-M19R	Box	10	16.6
XDU94-S22R	Box	10	17

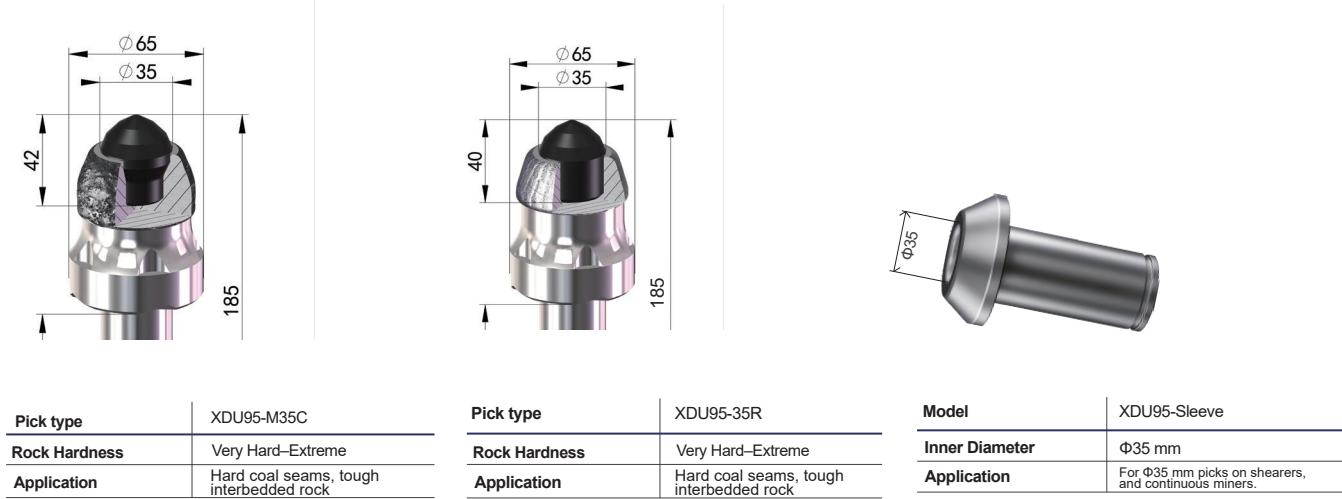
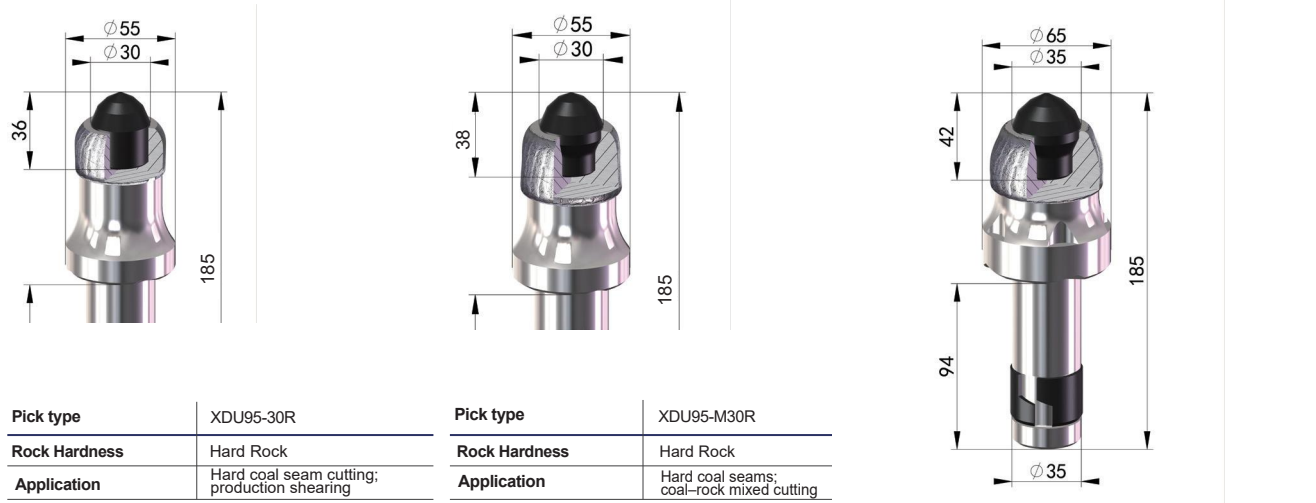
XDU90 SERIES

	Pick type XDU95-M25R		Pick type XDU95-25R
Rock Hardness	Medium-Hard	Rock Hardness	Medium-Hard
Application	Medium-hard coal seams; general shearing	Application	Medium-hard seams; general shearing
	Pick type XDU95-28R		
Rock Hardness	Hard Rock		
Application	Hard coal seams; localized hard bands		
	Pick type XDU95-M28R		Pick type XDU95-M30C
Rock Hardness	Hard Rock	Rock Hardness	Hard Rock
Application	Hard coal seams; coal-rock mixed cutting	Application	High-strength/abrasive coal-rock bands
	Pick type XDU95-30C		
Rock Hardness	Hard Rock		
Application	Hard/abrasive coal seams; demanding shearing		

Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XDU95-M25R	Box	10	18.5
XDU95-25R	Box	10	18.5
XDU95-28R	Box	10	18.5
XDU95-M28R	Box	10	18.5
XDU95-M30C	Box	10	19.2
XDU95-30C	Box	10	19.2

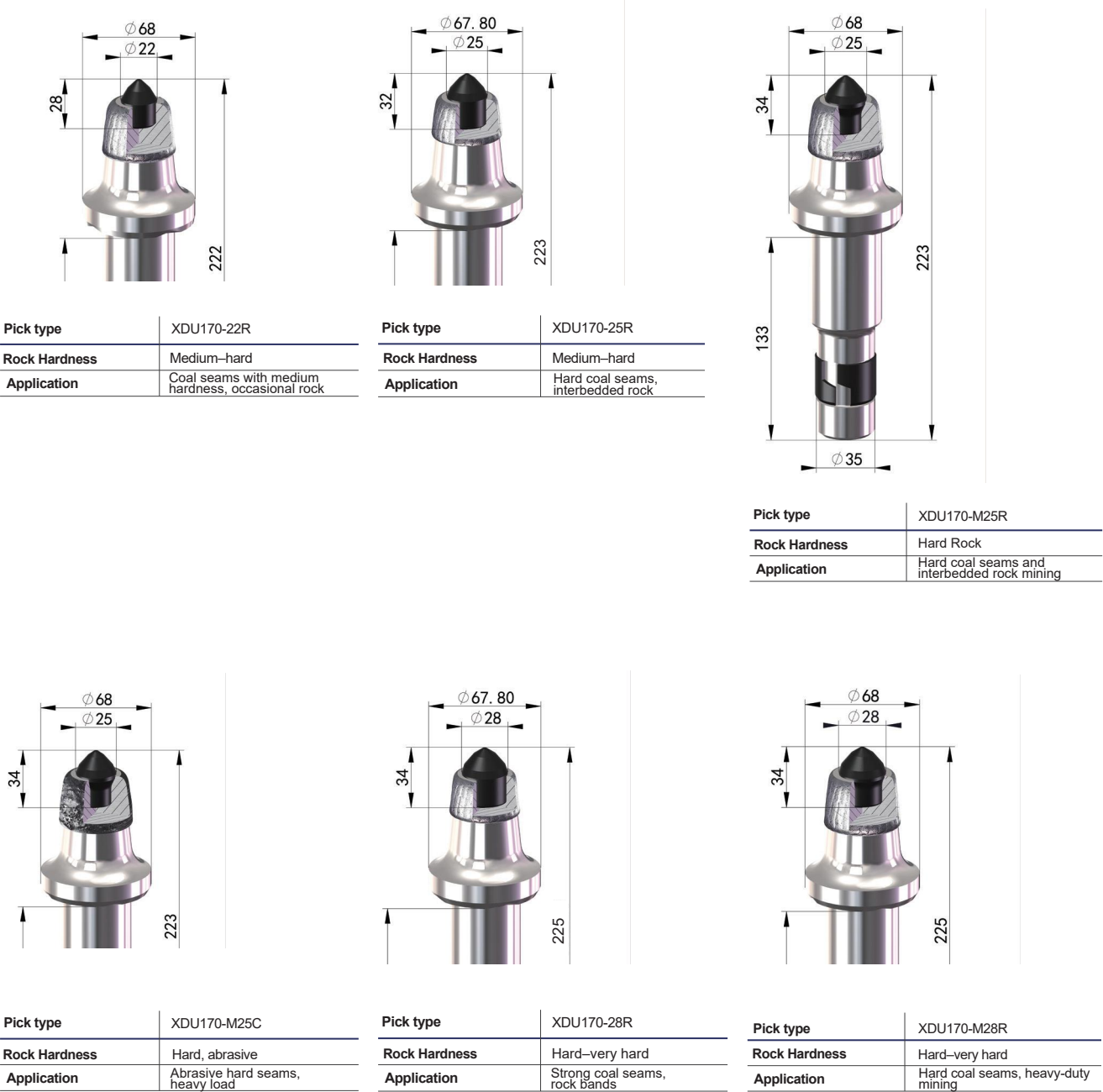
Coal Mining Picks

XDU90 SERIES



Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XDU95-30R	Box	10	19.1
XDU95-M30R	Box	10	19.1
XDU95-M35R	Box	10	23.5
XDU95-M35C	Box	10	24
XDU95-35R	Box	10	23.2

XDU170 SERIES



Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XDU170-22R	Box	8	19.9
XDU170-25R	Box	8	20.1
XDU170-M25R	Box	8	20
XDU170-M25C	Box	8	20.1
XDU170-28R	Box	8	20.1
XDU170-M28R	Box	8	20

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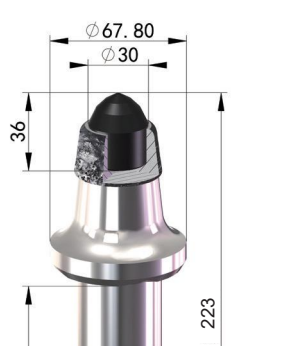
XDU170 SERIES

XDU170 SERIES

B



Pick type	XDU170-30R
Rock Hardness	Very hard
Application	Very hard coal seams, rock layers

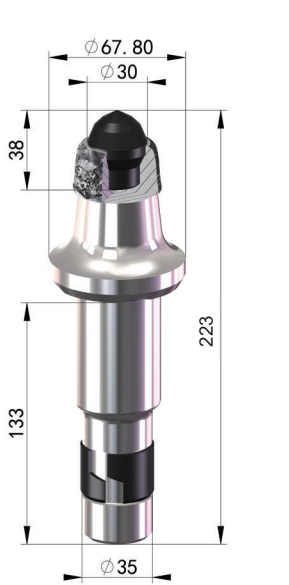


Pick type	XDU170-30C
Rock Hardness	Very hard, abrasive
Application	Abrasive hard seams



Pick type	XDU170-M30R
Rock Hardness	Very hard
Application	Reinforced cutting, hard seams

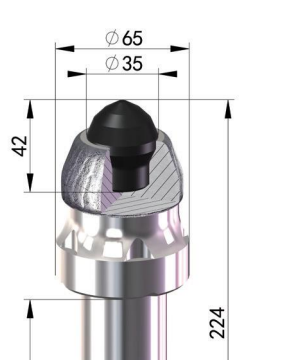
C



Pick type	XDU170-M30C
Rock Hardness	Very hard, abrasive
Application	Quartz-rich seams, abrasive strata



Pick type	XDU170-M35C
Rock Hardness	Extreme, abrasive
Application	Basalt, granite, high-silica seams



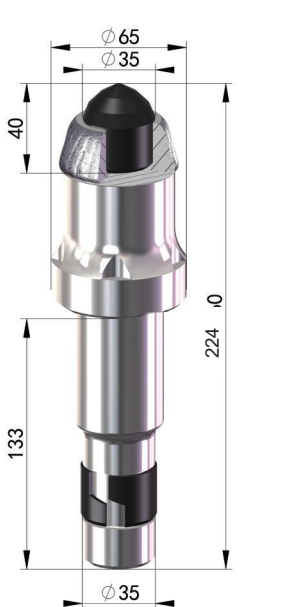
Pick type	XDU170-M35R
Rock Hardness	Extreme
Application	High-power shearers, extreme seams

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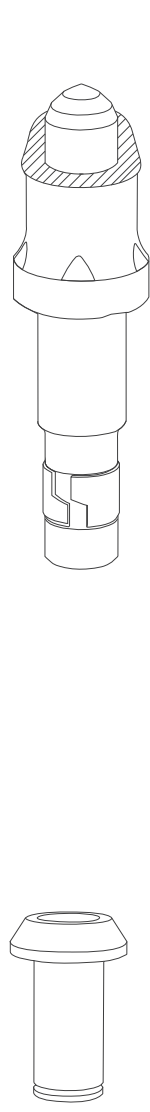
Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XDU170-30R	Box	8	20.5
XDU170-30C	Box	8	20.5
XDU170-M30R	Box	8	20.5
XDU170-M30C	Box	8	20.5
XDU170-M35C	Box	8	26.9
XDU170-M35R	Box	8	26.9

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B



Pick type	XDU170-35R
Rock Hardness	Extreme
Application	Extremely hard seams, rock inclusions



Model	XDU170-Sleeve
Inner Diameter	Φ35 mm
Application	For Φ35 mm picks on heavy-duty shearers and continuous miners.

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Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XDU170-35R	Box	8	26.9

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ROTARY DRILLING PICKS

- Selection Guide.....
- Φ3050mm System Models.....
- Φ3055mm System Models.....
- Φ3060mm System Models.....

ROTARY DRILLING PICKS

Rotary Drilling Pick Series | High-Torque Drilling,
Engineered for Complex Strata

PRODUCT HIGHLIGHTS

- *Ultra coarse-grain carbide tips:* retain sharp cutting edges, suitable for boulder layers and mixed formations
- *High-toughness bodies:* resist impact and bending, designed for high-torque rotary drilling rigs
- *Wear-resistant protection:* extend tool life in highly abrasive sandstone and gravel formations
- *Systems $\Phi 3050\text{mm}$ / $\Phi 3055\text{ mm}$ / $\Phi 3060\text{mm}$,* compatible with leading domestic and international rotary drilling rigs



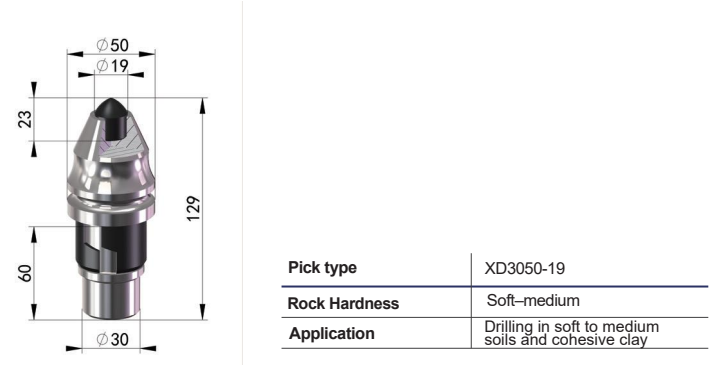
ROTARY DRILLING PICK SELECTION GUIDE

ROTARY DRILLING Picks (series)	Model	Carbide Tip Shape		Wear- Resistant Layer	Application Conditions				Retainer
		Column Type	Mushroom Type		Soft Rock	Medium- Hard Rock	Hard Rock	Extra- Hard Rock	
XD3050	XD3050-19	•		standard	•				•
	XD3055-21R	•		R	•				•
XD3055	XD3055-22-9T	•		9T	•				•
	XD3055-22-10K	•		10K	•				•
	XD3055-22-12K	•		12K		•			•
	XD3055-24R	•		R		•			•
	XD3060-21R	•		R	•				•
XD3060	XD3060-25R	•		R		•			•
	XD3060-25-12K	•		12K			•		•
	XD3060-25C	•		C			•		•
	XD3060-30R	•		R			•		•
	XD3060-30C	•		C				•	•
DESCRIPTION	R: Laser Cladding Wear-Resistant Layer								
	C: Ultra Wear-Resistant Protective Layer								
	T: Carbide strip protection layer								
	K: Number of carbide buttons								

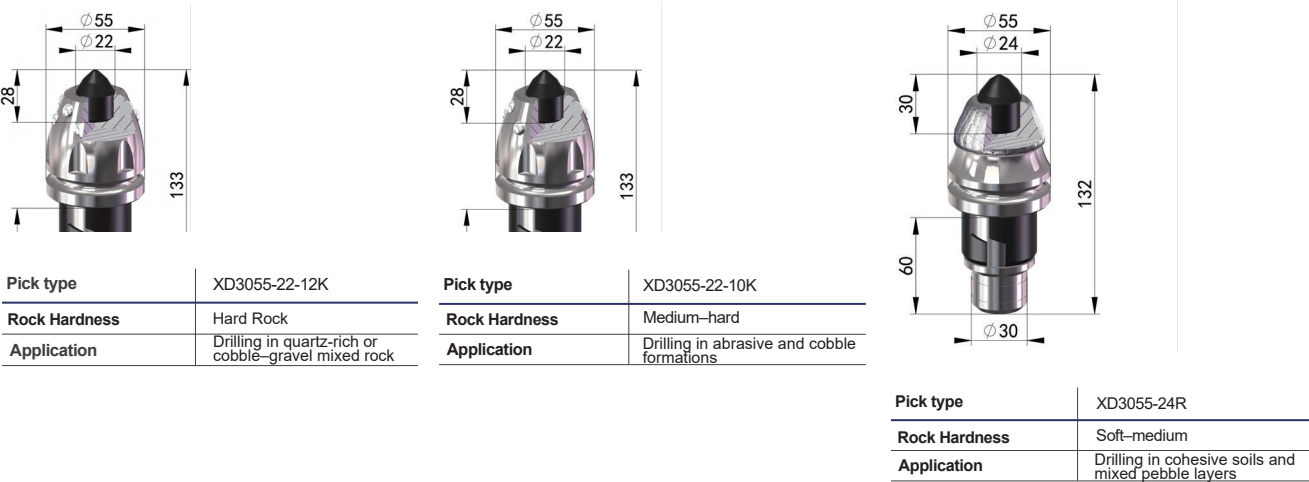
*All product renderings are presented in a 20° standard isometric view to illustrate the geometry and welding interface.

Rotary Drilling Picks

Φ3050MM SERIES

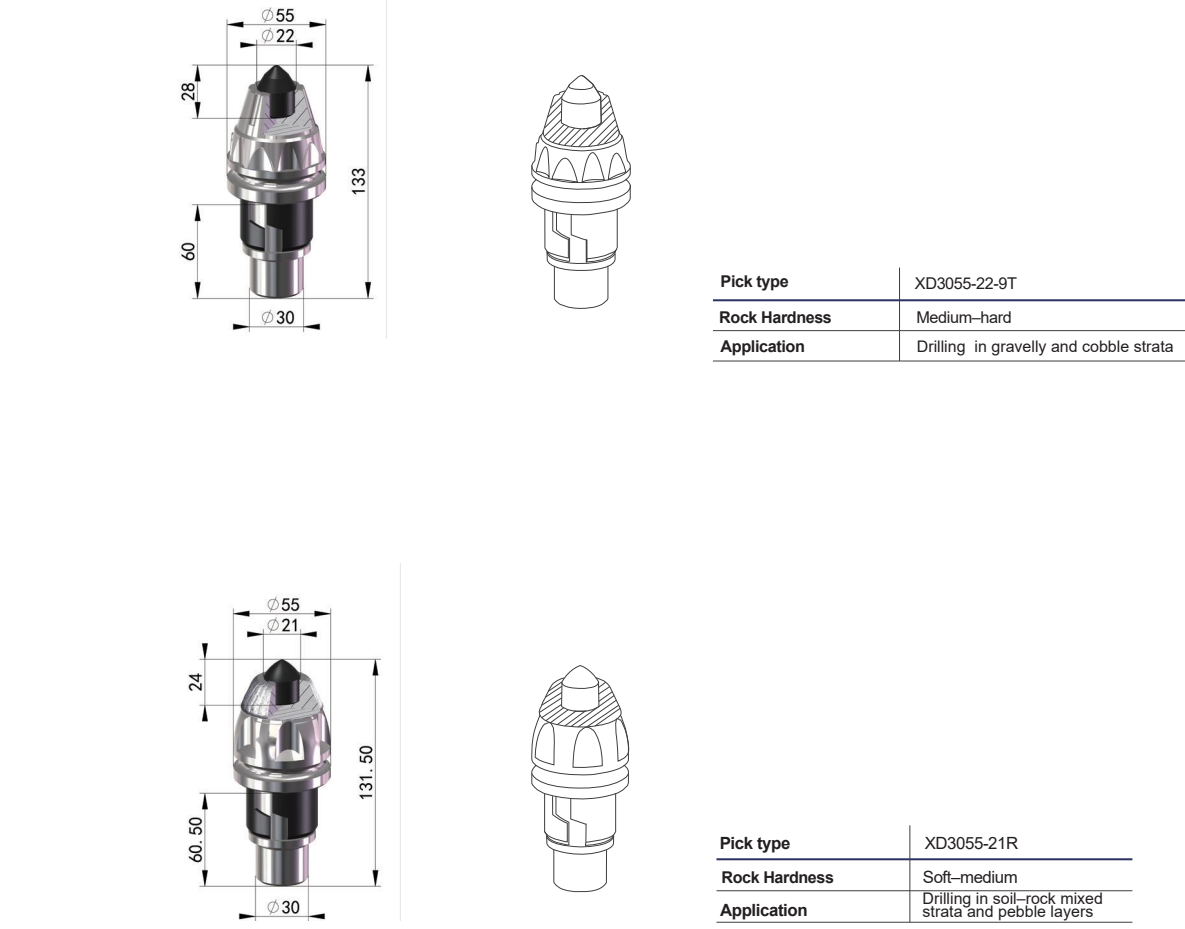


Φ3055MM SERIES



Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XD3050-19	Box	20	24
XD3055-22-12K	Box	20	27
XD3055-22-10K	Box	20	27
XD3055-24R	Box	20	29.9

Φ3055MM SERIES



Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XD3055-22-9T	Box	20	26.9
XD3055-21R	Box	20	26.2

*Application ranges are general recommendations. Final model selection depends on rock strength, abrasivity, and equipment compatibility etc..

Rotary Drilling Picks

Φ3060MM SERIES



Pick type	XD3060-21R
Rock Hardness	Soft-medium
Application	Drilling in soft soils and sands



Pick type	XD3060-25C
Rock Hardness	Hard Rock
Application	Drilling in high-strength rock and abrasive cobble layers



Pick type	XD3060-25R
Rock Hardness	Medium-hard
Application	Drilling in weathered rock and pebble-gravel formations



Pick type	XD3060-30R
Rock Hardness	Very hard
Application	Drilling in granite, basalt, or compact cobble formations



Pick type	XD3060-30C
Rock Hardness	Very hard
Application	Drilling in ultra-hard and highly abrasive strata

Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XD3060-21R	Box	20	30.4
XD3060-25R	Box	20	30.8
XD3060-25C	Box	20	30.9
XD3060-30R	Box	20	34.1
XD3060-30C	Box	20	34.1

Φ3060MM SERIES



Pick type	XD3060-25-12K
Rock Hardness	Hard Rock
Application	Drilling in high-strength and abrasive rock



Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XD3060-25-12K	Box	20	31.3

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SURFACE MINING PICKS

- Selection Guide.....
- XDU47 System Models.....
- XDU170 System Models.....
- Shank Φ42mm System Models.....

SURFACE MINING PICKS

Surface Mining Pick Series |
Toughness & WearResistance for High-Impact,
Heavy-Duty Operations

PRODUCT HIGHLIGHTS

- *Reinforced Body Design:*High-toughness steel body ensures excellent impact resistance and structural stability under heavy-duty conditions.
- *Optimized Cutting Geometry:*Precisely engineered tip angle maintains high cutting efficiency and stability in powerful, high-impact machines.
- *Multi-Level Wear Protection:*Optional R-type laser cladding for moderate abrasion and C-type ultra wear-resistant coating for highly abrasive strata.
- *Versatile Applications:*Suitable for surface coal mining, limestone, and iron ore extraction in medium to very hard rock formations.

SURFACE MINING PICK SELECTION GUIDE

SURFACE MINING Picks	Model	Carbide Tip Shape			Wear- Resistant Layer	Application Conditions				Retainer
		Column Type	Mushroom Type	Bucket- type		Soft Rock	Medium- Hard Rock	Hard Rock	Extra- Hard Rock	
XDU47 series	XDU47-S22R			•	R	•				•
	XDU47-22R-K	•			R	•				•
	XDU47-22R-ZZ	•			R	•				•
	XDU47-25R	•			R		•			•
	XDU47-M25R		•		R		•			•
	XDU47-25R-K	•			R		•			•
XDU170 series	XDU170-M30R		•		R			•		•
	XDU170-35R	•			R				•	•
	XDU170-M35R		•		R				•	•
	XDU170-M35C		•		C				•	•
Φ42mm series	XD22R-42-86-1	•			R		•			•
	XD25M-42-80		•		standard			•		•
	XD25CC-42-86-1	•			CC			•		•
	XD25MCC-42-80K		•		CC			•		•
DESCRIPTION	R: Laser Cladding Wear-Resistant Layer									
	C: Ultra Wear-Resistant Protective Layer									
	CC: Reinforced Ultra Wear-Resistant Protective Layer									

*All product renderings are presented in a 20° standard isometric view to illustrate the geometry and welding interface.

Surface Mining Picks

XDU47 SERIES



Pick type	XDU47-M25R
Rock Hardness	Hard Rock
Application	Heavy-duty surface mining, hard rock cutting



Pick type	XDU47-S22R
Rock Hardness	Soft-Medium
Application	Open-pit coal seams, soft rock cutting



Pick type	XDU47-22R-ZZ
Rock Hardness	Medium-Hard
Application	Open-pit mining, mixed strata excavation



Pick type	XDU47-25R
Rock Hardness	Hard Rock
Application	Open-cast coal and ore extraction



Pick type	XDU47-25R-K
Rock Hardness	Very Hard
Application	Open-pit mining in abrasive hard strata

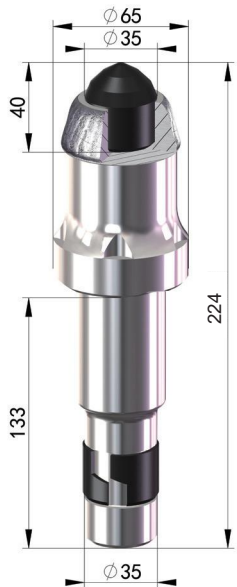


Pick type	XDU47-22R-K
Rock Hardness	Medium-Hard
Application	Surface mining, abrasive medium rock

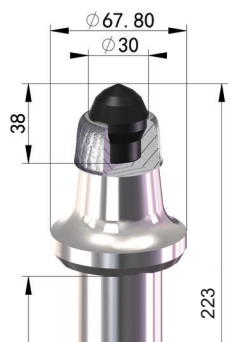
Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XDU47-M25R	Box	10	15
XDU47-S22R	Box	10	14.9
XDU47-22R-ZZ	Box	10	15.1
XDU47-25R	Box	10	15
XDU47-25R-K	Box	10	15
XDU47-22R-K	Box	10	15

*Application ranges are general recommendations. Final model selection depends on rock strength, abrasivity, and equipment compatibility etc..

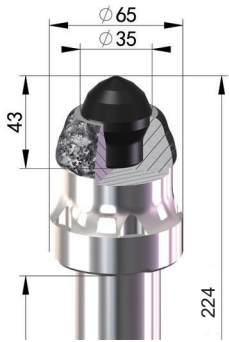
XDU170 SERIES



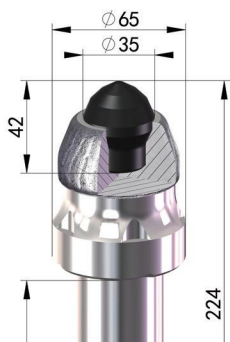
Pick type	XDU170-35R
Rock Hardness	Very hard rock
Application	Surface mining and rock cutting in very hard formations.



Pick type	XDU170-M30R
Rock Hardness	Hard-very hard rock
Application	Open-pit mining and excavation in hard strata.



Pick type	XDU170-M35C
Rock Hardness	Extreme, abrasive
Application	Surface mining in quartz-rich and highly abrasive formations.



Pick type	XDU170-M35R
Rock Hardness	Extreme
Application	Heavy-duty surface mining in high-strength rock.

Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XDU170-M30R	Box	8	20.5
XDU170-35R	Box	8	26.9
XDU170-M35C	Box	8	26.9
XDU170-M35R	Box	8	26.9

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Surface Mining Picks

SHANK Φ42MM SERIES



Pick type	XD25CC-42-86-1
Rock Hardness	Very Hard
Application	Extreme wear conditions, open-pit hard rock



Pick type	XD22R-42-86-1
Rock Hardness	Medium-Hard
Application	Surface excavation in abrasive formations



Pick type	XD25M-42-80
Rock Hardness	Hard-Very Hard
Application	Open-pit mining in quartz-rich rock



Pick type	XD25MCC-42-80K
Rock Hardness	Extreme
Application	Ultra-hard strata, high-abrasion open-pit mining

Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XD22R-42-86-1	Box	8	18.9
XD25CC-42-86-1	Box	8	18.9
XD25M-42-80	Box	8	20.5
XD25MCC-42-80K	Box	8	17.3

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CUSTOMER CASE STUDIES

- Mining Applications.....
- Construction Applications.....

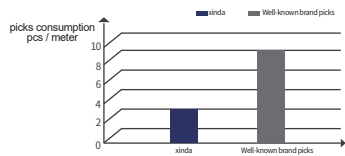
MINING CASES

Shaanxi Coal Mine | F8 Hard Rock



Performance of Xinda picks

Performance of well-known brand picks



Customer: Shaanxi Coal Mine
Application: Hard-rock roadway excavation
Equipment: Roadheader
Rock hardness: F8 (hard rock)
Compared tool: Well-known brand picks
Xinda pick: F8 hard-rock specialized picks

with ultra-coarse grain carbide and reinforced body

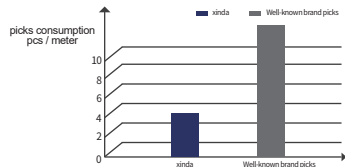
Result:
 - Previous picks consumption: 8 pcs / meter
 - Xinda picks consumption: 2 pcs / meter
 - Replacement frequency ↓70% - Overall cost ↓60%
 - Conclusion: Service life 3× longer, higher efficiency in hardrock cutting

Gansu Coal Mine | Extreme Hard Rock (f12)



Performance of Xinda picks

Performance of well-known brand picks



Customer: Gansu Coal Mine
Application: Coal cutting in extreme hard strata
Equipment: Shearer
Rock hardness: F12 (extremely hard rock)
Compared tool: Well-known brand picks
Xinda pick: S135 wear-resistant picks with patented welding technology

Result:
 - Pick consumption per meter reduced from 14.2 / meter to 3/ meter
 - Wear reduced by approximately 70%
 - Efficiency improved by 40%
 - 20 picks achieved 9.1 m continuous cutting

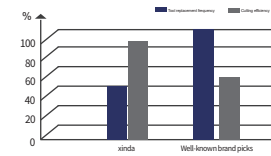
ENGINEERING & CONSTRUCTION CASES

Dalian Bay Subsea Tunnel | Complex Geology



Performance of Xinda picks

Performance of well-known brand picks



Customer: Dalian Bay Subsea Tunnel Project
Application: Subsea roadway excavation in mixed strata (soft rock + fractured zones)
Equipment: Heavy-duty roadheader
Rock hardness: F6–9 (medium–hard to very hard)
Compared tool: Well-known brand picks
Xinda pick: Customized wear-resistant picks with reinforced carbide tip

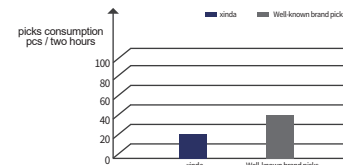
Result:
 - Tool replacement frequency reduced by approximately 60%
 - Cutting efficiency improved by 35%
 - Ensured stable excavation under complex strata

Guangxi Tunnel | Highly Abrasive Sandstone



Performance of Xinda picks

Performance of well-known brand picks



Customer: Guangxi tunnel construction project
Application: Tunneling in quartz-rich abrasive sandstone
Equipment: Roadheader
Rock hardness: F7–9 (hard rock, abrasive)
Compared tool: Well-known brand picks
Xinda pick: Wear-resistant picks with reinforced carbide and protective layer

Result:
 - Pick consumption reduced from approximately 30 to 10 in 2 hours
 - Wear resistance improved by >2×
 - Unplanned downtime significantly reduced

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TECHNOLOGY AND R&D STRENGTH



TECHNOLOGY AND R&D STRENGTH

INDUSTRY STANDARD LEADERSHIP

Xinda Technology has participated in drafting national and industry standards such as Cutting Picks for Roadheaders and Ultra- Coarse Grain Carbide Engineering Picks. Our products have reached advanced international levels, achieving domestic substitution.

CORE PROCESS BREAKTHROUGHS

With ultra-coarse grain carbide, high-toughness body, and the patented Ultra Wear-Resistant Protection Layer Technology, Xinda' s picks deliver significantly enhanced wear resistance and service life.

COLLABORATIVE RESEARCH PLATFORM

In collaboration with leading institutes such as CISRI, Xinda Technology advances R&D in cutting-edge materials and manufacturing processes, ensuring continuous innovation.

CONTINUOUS INNOVATION

With multiple national patents, Xinda Technology has established a dual-driven model of "R&D + Manufacturing," accelerating the localization of high-end equipment.



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