ZHUZHOU XINDA MACHINERY TECHNOLOGY CO.,LTD.

FASTER CUTTING
SMARTER ECONOMICS



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CATALOGUE

ZHUZHOU XINDA MACHINERY TECHNOLOGY CO.,LTD.

@2026

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-performnce 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 PERFORMANCE

With Ultra-coarse grain carbide,high-toughness body, leveraging advanced wear-resistant protection layers and high-entropy wear technology, Xinda picks deliver superior durability and extended service life under demanding conditions.



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

· Selection Guide

· Shank Φ38mm System Models

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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
- *High-Entropy Wear-Resistant Reinforcement Layer:* Delivers 2–3× higher wear resistance compared to conventional solutions.
- *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(G)-38-64		•	R(G)	•				•
	XD25-38-64	•		standard		•			•
	XD25M-38-64		•	standard		•			•
	XD25R(G)-38-64	•		R(G)		•			•
	XD25MR(G)-38-64		•	R(G)		•			•
	XD30-38-80	•		standard			•		•
	XD30M-38-80		•	standard			•		•
	XD30R(G)-38-80	•		R(G)			•		•
	XD30MR(G)-38-80		•	R(G)			•		•
	XD30C-38-80	•		C			•		•
	XD30MC-38-80		•	C			•		•
	XD32-38-80	•		standard			•		•
	XD32R(G)-38-80	•		R(G)			•		•
	XD32C-38-80	•		C			•		•
	XD35-38-80	•		standard				•	•
	XD35M-38-80		•	standard				•	•
	XD35R(G)-38-80	•		R(G)				•	•
	XD35MR(G)-38-80		•	R(G)				•	•
	XD35C-38-80	•		C				•	•
	XD35MC-38-80		•	C				•	•
	XD35CC-38-80	•		CC				•	•
	XD35-38-95K	•		standard				•	•
	XD35M-38-95		•	standard				•	•
	XD35MC-38-95		•	C				•	•
Φ42 mm	XD25-42-80	•		standard		•			•
	XD25M-42-80		•	standard		•			•
	XD30-42-80	•		standard			•		•
	XD30M-42-80		•	standard			•		•
	XD32-42-80	•		standard			•		•
	XD32R(G)-42-80	•		R(G)			•		•
	XD32C-42-80	•		C			•		•
	XD35-42-80K	•		standard				•	•
	XD35M-42-80		•	standard				•	•
	XD35R(G)-42-80	•		R(G)				•	•
	XD35MR(G)-42-80		•	R(G)				•	•
	XD35-42-95K	•		standard				•	•
	XD35M-42-95		•	standard				•	•
	XD35CC-42-95	•		CC				•	•
	XD35MCC-42-95		•	CC				•	•

DESCRIPTION	
	R: *Laser Cladding Wear-Resistant Layer*
	C: *Ultra Wear-Resistant Protective Layer*
	CC: *Reinforced Ultra Wear-Resistant Protective Layer*
	G: *High-Entropy Wear-Resistant Reinforcement Layer*

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

SHANK SYSTEM Φ38MM

R:Laser Cladding Wear-Resistant Layer
G:High-Entropy Wear-Resistant Reinforcement Layer



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



Pick type	XD22MR(G)-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	XD25M-38-64
Rock Hardness	Medium rock
Application	Coal mine excavation,tunneling projects



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



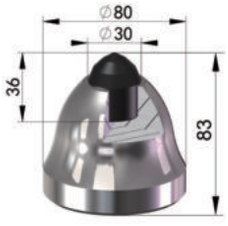
Pick type	XD25MR(G)-38-64
Rock Hardness	Soft–Medium
Application	Roadheader tunneling in soft–medium rock

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

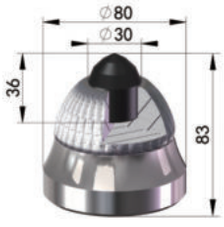
*Application ranges are general recommendations. Final model selection depends on rock strength, abrasivity, and equipment compatibility etc..

SHANK SYSTEM Φ38MM

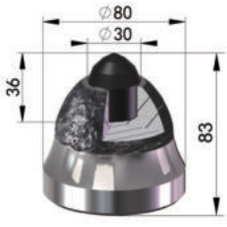
R:Laser Cladding Wear-Resistant Layer
G:High-Entropy Wear-Resistant Reinforcement Layer
C:Ultra Wear-Resistant Protective Layer



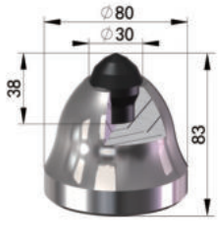
Pick type	XD30-38-80
Rock Hardness	Medium-hard to hard rock
Application	Hard rock tunneling, roadheader cutting



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



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



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



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

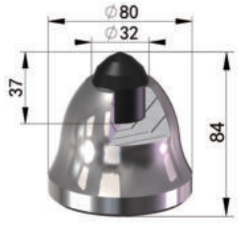


Pick type	XD30MC-38-80
Rock Hardness	Hard rock
Application	Mixed-face tunnels, hard abrasive rock

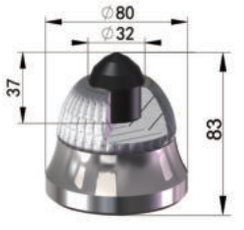
Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XD30-38-80	Box	10	25.2
XD30R(G)-38-80	Box	10	25.7
XD30C-38-80	Box	10	26.1
XD30M-38-80	Box	10	26
XD30MR(G)-38-80	Box	10	26.1
XD30MC-38-80	Box	10	26.2

SHANK SYSTEM Φ38MM

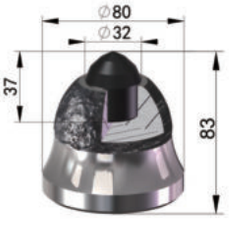
R:Laser Cladding Wear-Resistant Layer
G:High-Entropy Wear-Resistant Reinforcement Layer
C:Ultra Wear-Resistant Protective Layer



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



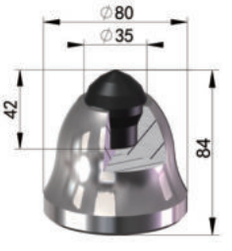
Pick type	XD32R(G)-38-80
Rock Hardness	Hard rock
Application	High-strength coal seams, hard strata



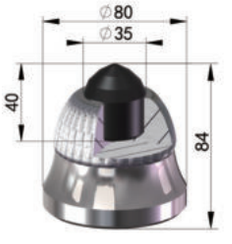
Pick type	XD32C-38-80
Rock Hardness	Hard rock
Application	Tunnel excavation, metro projects



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	XD35R(G)-38-80
Rock Hardness	Very hard–Extreme
Application	Tunneling in extremely hard rock; heavy-load conditions

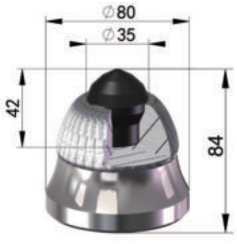
Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XD32-38-80	Box	10	25.8
XD32R(G)-38-80	Box	10	25.9
XD32C-38-80	Box	10	26
XD35-38-80	Box	10	28.3
XD35M-38-80	Box	10	28.3
XD35R(G)-38-80	Box	10	27.9

SHANK SYSTEM Φ38MM

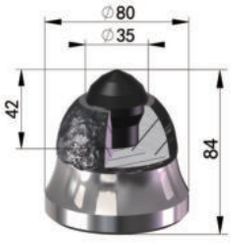
- R:Laser Cladding Wear-Resistant Layer
- G:High-Entropy Wear-Resistant Reinforcement Layer
- C:Ultra Wear-Resistant Protective Layer
- CC:Reinforced Ultra Wear-Resistant Protective Layer



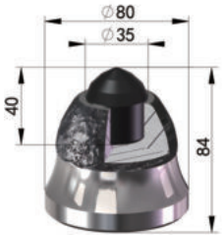
Pick type	XD35C-38-80
Rock Hardness	Very hard–Extreme
Application	Basalt; hard ore bodies



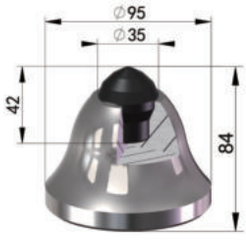
Pick type	XD35MR(G)-38-80
Rock Hardness	Very hard–Extreme
Application	Very hard rock; fractured/fault zones



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



Pick type	XD35-38-95K
Rock Hardness	Hard rock
Application	Tunnel excavation, high-impact conditions, roadheaders

Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XD35C-38-80	Box	10	28.2
XD35MR(G)-38-80	Box	10	28.4
XD35MC-38-80	Box	10	28.4
XD35CC-38-80	Box	10	28.7
XD35M-38-95	Box	8	22.1
XD35-38-95K	Box	8	22.1

Roadheader Picks



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

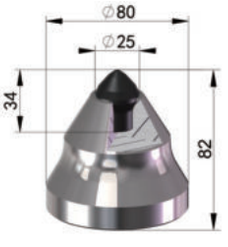


Model	XD-Holder-38
Shank Inner Diameter	Φ38 mm
Application	For Φ38 mm cutting picks, used on roadheaders and tunnel excavation machines.

SHANK SYSTEM Φ42MM



Pick type	XD25-42-80
Rock Hardness	Soft to medium-soft rock
Application	Coal mining, soft rock excavation

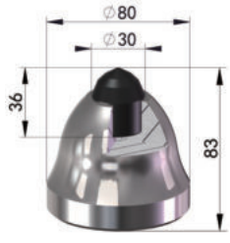


Pick type	XD25M-42-80
Rock Hardness	Medium rock
Application	Hard rock tunneling and roadway excavation.

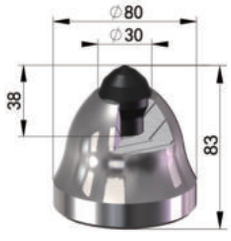
Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XD35MC-38-95	Box	8	22.1
XD25-42-80	Box	10	31.7
XD25M-42-80	Box	10	31.7

SHANK SYSTEM Φ42MM

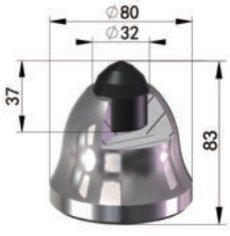
- R:Laser Cladding Wear-Resistant Layer
- G:High-Entropy Wear-Resistant Reinforcement Layer
- C:Ultra Wear-Resistant Protective Layer



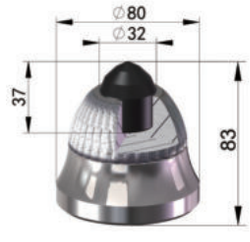
Pick type	XD30-42-80
Rock Hardness	Medium-hard rock
Application	Tunnel excavation, roadway development



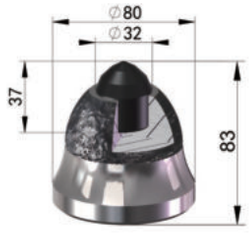
Pick type	XD30M-42-80
Rock Hardness	Medium-hard rock
Application	Coal roadway excavation, urban tunnels



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



Pick type	XD32R(G)-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

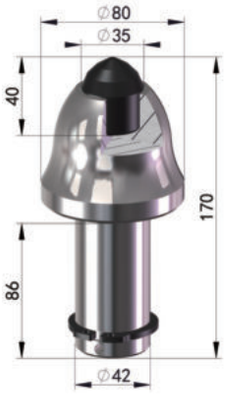


Pick type	XD35M-42-80
Rock Hardness	Hard–very hard rock
Application	Mining tunnels, high-strength rock

Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XD30-42-80	Box	10	33.4
XD30M-42-80	Box	10	33.4
XD32-42-80	Box	10	30.2
XD32R(G)-42-80	Box	10	30.2
XD32C-42-80	Box	10	30.3
XD35M-42-80	Box	10	34.9

SHANK SYSTEM Φ42MM

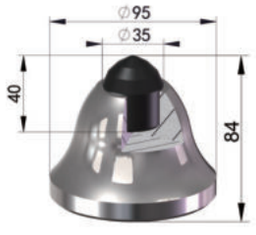
R:Laser Cladding Wear-Resistant Layer
G:High-Entropy Wear-Resistant Reinforcement Layer



Pick type	XD35-42-80K
Rock Hardness	Medium-hard to hard rock
Application	Tunnel excavation, high-load roadheaders



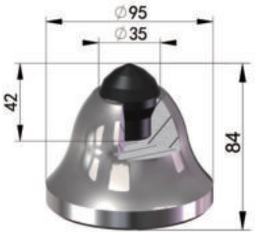
Pick type	XD35R(G)-42-80K
Rock Hardness	Medium-hard to hard rock
Application	Abrasive formations, extended wear conditions



Pick type	XD35-42-95K
Rock Hardness	Hard rock
Application	High-impact tunneling, fractured zones



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



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

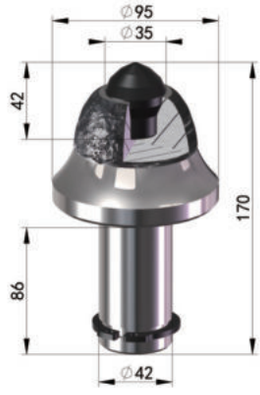
Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XD35-42-80K	Box	10	34.9
XD35R(G)-42-80K	Box	10	34.9
XD35-42-95K	Box	8	29.3
XD35MR(G)-42-80	Box	10	34.9
XD35M-42-95	Box	8	29.3

SHANK SYSTEM Φ42MM

CC:Reinforced Ultra Wear-Resistant Protective Layer



Pick type	XD35CC-42-95K
Rock Hardness	Very hard and highly abrasive rock
Application	Extreme wear conditions, hard rock tunneling



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



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

Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XD35CC-42-95K	Box	8	29.3
XD35MCC-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
- *High-Entropy Wear-Resistant Reinforcement Layer:* delivers 2–3× higher wear resistance compared to conventional solutions.
- *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	XDU47-22SR(G)			•	R(G)	•				•
	XDU47-25R(G)	•			R(G)		•			•
	XDU47-25MR(G)		•		R(G)		•			•
XDU80	XDU82-16SR(G)			•	R(G)	•				•
	XDU82-19R(G)	•			R(G)	•				•
	XDU82-19MR(G)		•		R(G)	•				•
	XDU84-22	•			standard	•				•
	XDU84-22R(G)	•			R(G)	•				•
	XDU84-25R(G)	•			R(G)		•			•
	XDU84-25MR(G)		•		R(G)		•			•
	XDU84-30R(G)	•			R(G)			•		•
	XDU84-30MR(G)		•		R(G)			•		•
	XDU85-22SR(G)			•	R(G)	•				•
XDU90	XDU92-16R(G)	•			R(G)	•				•
	XDU92-19R(G)	•			R(G)	•				•
	XDU92-19MR(G)		•		R(G)	•				•
	XDU94-22SR(G)			•	R(G)	•				•
	XDU95-25R(G)	•			R(G)		•			•
	XDU95-25MR(G)		•		R(G)		•			•
	XDU95-28R(G)	•			R(G)		•			•
	XDU95-28MR(G)		•		R(G)		•			•
	XDU95-30R(G)	•			R(G)			•		•
	XDU95-30MR(G)		•		R(G)			•		•
	XDU95-30C	•			C			•		•
	XDU95-30MC		•		C			•		•
	XDU95-35R(G)	•			R(G)				•	•
	XDU95-35MR(G)		•		R(G)				•	•
	XDU95-35C	•			C				•	•
	XDU95-35MC		•		C				•	•
XDU170	XDU170-22R(G)	•			R(G)	•				•
	XDU170-25R(G)	•			R(G)		•			•
	XDU170-25MR(G)		•		R(G)		•			•
	XDU170-25C	•			C		•			•
	XDU170-25MC		•		C		•			•
	XDU170-28R(G)	•			R(G)		•			•
	XDU170-28MR(G)		•		R(G)		•			•
	XDU170-30R(G)	•			R(G)			•		•
	XDU170-30MR(G)		•		R(G)			•		•
	XDU170-30C	•			C			•		•
	XDU170-30MC		•		C			•		•
	XDU170-35R(G)	•			R(G)				•	•
	XDU170-35MR(G)		•		R(G)				•	•
	XDU170-35C	•			C				•	•
	XDU170-35MC		•		C				•	•

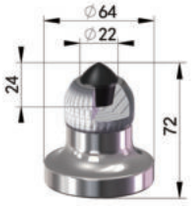
DESCRIPTION	
	R: *Laser Cladding Wear-Resistant Layer*
	C: *Ultra Wear-Resistant Protective Layer*
	G: *High-Entropy Wear-Resistant Reinforcement Layer*

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

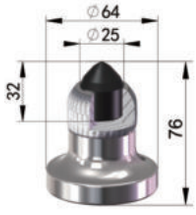
XDU47 SERIES

R:Laser Cladding Wear-Resistant Layer

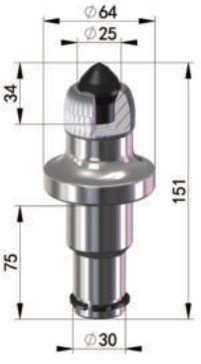
G:High-Entropy Wear-Resistant Reinforcement Layer



Pick type	XDU47-22SR(G)
Rock Hardness	Soft–medium
Application	Soft to medium coal seams



Pick type	XDU47-25R(G)
Rock Hardness	Medium–hard
Application	Medium–hard coal seam cutting, interbedded rock layers



Pick type	XDU47-25MR(G)
Rock Hardness	Medium–hard
Application	Medium–hard coal seam cutting, stable performance

XDU80 SERIES

R:Laser Cladding Wear-Resistant Layer

G:High-Entropy Wear-Resistant Reinforcement Layer



Pick type	XDU82-16SR(G)
Rock Hardness	Soft
Application	Thin seam coal, soft rock cutting



Pick type	XDU82-19R(G)
Rock Hardness	Soft coal to medium coal
Application	Shearer, coal cutting



Pick type	XDU82-19MR(G)
Rock Hardness	Soft
Application	Thin seam coal, soft–medium rock cutting

Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XDU47-22SR(G)	Box	10	15
XDU47-25R(G)	Box	10	15
XDU47-25MR(G)	Box	10	15
XDU82-16SR(G)	Box	10	16.5
XDU82-19R(G)	Box	10	17.3
XDU82-19MR(G)	Box	10	17.3

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

XDU80 SERIES

R:Laser Cladding Wear-Resistant Layer

G:High-Entropy Wear-Resistant Reinforcement Layer



Pick type	XDU84-22
Rock Hardness	Soft–Medium
Application	General coal cutting, soft–medium strata



Pick type	XDU84-22R(G)
Rock Hardness	Soft–Medium
Application	General coal cutting, soft–medium strata



Pick type	XDU84-25R(G)
Rock Hardness	Medium–Hard
Application	Coal seams with interlayers



Pick type	XDU84-25MR(G)
Rock Hardness	Medium–Hard
Application	Medium-hard coal seams; coal–rock interbeds; fault-crossing sections



Pick type	XDU84-30R(G)
Rock Hardness	Medium coal seam
Application	Coal mining, continuous cutting



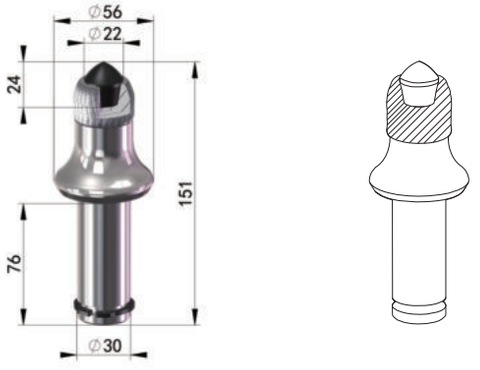
Pick type	XDU84-30MR(G)
Rock Hardness	Hard Rock
Application	Hard coal seam cutting, high-abrasion coal mining

Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XDU84-22	Box	10	13.1
XDU84-22R(G)	Box	10	13.1
XDU84-25R(G)	Box	10	13.1
XDU84-25MR(G)	Box	10	13.1
XDU84-30R(G)	Box	10	14.5
XDU84-30MR(G)	Box	10	14.5

Coal Mining Picks

XDU80 SERIES

R:Laser Cladding Wear-Resistant Layer
G:High-Entropy Wear-Resistant Reinforcement Layer



Pick type	XDU85-22SR(G)
Rock Hardness	Soft–Medium
Application	Thin seam coal cutting, soft coal / rock layers

XDU90 SERIES

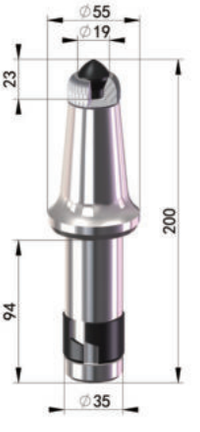
R:Laser Cladding Wear-Resistant Layer
G:High-Entropy Wear-Resistant Reinforcement Layer



Pick type	XDU92-16R(G)
Rock Hardness	Soft
Application	Soft coal seams; soft rock/ coal cutting



Pick type	XDU92-19R(G)
Rock Hardness	Medium-hard coal seam
Application	High-load shearer operations



Pick type	XDU92-19MR(G)
Rock Hardness	Soft–Medium
Application	Thin/soft–medium coal seams; auxiliary cutting

Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XDU85-22SR(G)	Box	10	15.5
XDU92-16R(G)	Box	10	16.7
XDU92-19R(G)	Box	10	16.6
XDU92-19MR(G)	Box	10	16.6

XDU90 SERIES

R:Laser Cladding Wear-Resistant Layer

G:High-Entropy Wear-Resistant Reinforcement Layer



Pick type	XDU94-22SR(G)
Rock Hardness	Soft–Medium
Application	General coal seam cutting; production shearing



Pick type	XDU95-25R(G)
Rock Hardness	Medium–Hard
Application	Medium-hard seams; general shearing



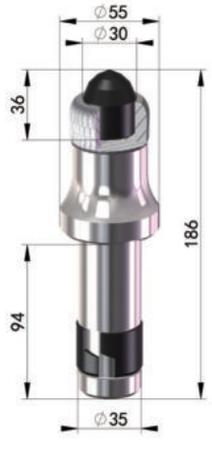
Pick type	XDU95-25MR(G)
Rock Hardness	Medium–Hard
Application	Medium-hard coal seams; general shearing



Pick type	XDU95-28R(G)
Rock Hardness	Hard Rock
Application	Hard coal seams; localized hard bands



Pick type	XDU95-28MR(G)
Rock Hardness	Hard Rock
Application	Hard coal seams; coal–rock mixed cutting



Pick type	XDU95-30R(G)
Rock Hardness	Hard Rock
Application	Hard coal seam cutting; production shearing

Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XDU94-22SR(G)	Box	10	17
XDU95-25R(G)	Box	10	18.5
XDU95-25MR(G)	Box	10	18.5
XDU95-28R(G)	Box	10	18.5
XDU95-28MR(G)	Box	10	18.5
XDU95-30R(G)	Box	10	19.1

Coal Mining Picks

XDU90 SERIES

R:Laser Cladding Wear-Resistant Layer
G:High-Entropy Wear-Resistant Reinforcement Layer
C:Ultra Wear-Resistant Protective Layer



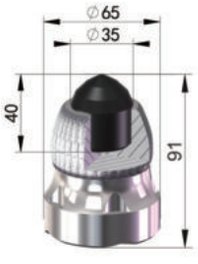
Pick type	XDU95-30MR(G)
Rock Hardness	Hard Rock
Application	Hard coal seams; coal–rock mixed cutting



Pick type	XDU95-30C
Rock Hardness	Hard Rock
Application	Hard/abrasive coal seams; demanding shearing



Pick type	XDU95-30MC
Rock Hardness	Hard Rock
Application	High-strength/abrasive coal–rock bands



Pick type	XDU95-35R(G)
Rock Hardness	Very Hard–Extreme
Application	Hard coal seams, tough interbedded rock



Pick type	XDU95-35MR(G)
Rock Hardness	Very Hard–Extreme
Application	Ultra-hard rock seams, heavy-duty cutting



Pick type	XDU95-35C
Rock Hardness	Hard coal seam / coal-rock mixed
Application	Heavy-duty coal cutting, abrasive conditions

Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XDU95-30MR(G)	Box	10	19.1
XDU95-30C	Box	10	19.2
XDU95-30MC	Box	10	19.2
XDU95-35R(G)	Box	10	23.2
XDU95-35MR(G)	Box	10	23.5
XDU95-35C	Box	10	24

XDU90 SERIES

C:Ultra Wear-Resistant Protective Layer





Pick type	XDU95-35MC
Rock Hardness	Very Hard–Extreme
Application	Hard coal seams, tough interbedded rock

Model	XDU95-Sleeve
Inner Diameter	Φ35 mm
Application	For Φ35 mm picks on shearers, and continuous miners.



Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XDU95-35MC	Box	10	24

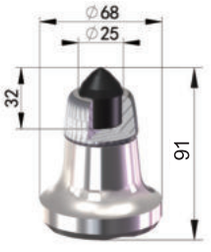
Coal Mining Picks

XDU170 SERIES

R:Laser Cladding Wear-Resistant Layer
G:High-Entropy Wear-Resistant Reinforcement Layer
C:Ultra Wear-Resistant Protective Layer



Pick type	XDU170-22R(G)
Rock Hardness	Medium–hard
Application	Coal seams with medium hardness, occasional rock



Pick type	XDU170-25R(G)
Rock Hardness	Medium–hard
Application	Hard coal seams, interbedded rock



Pick type	XDU170-25MR(G)
Rock Hardness	Hard Rock
Application	Hard coal seams and interbedded rock mining



Pick type	XDU170-25C
Rock Hardness	Hard coal seam
Application	High-power shearer, continuous mining, abrasive conditions



Pick type	XDU170-25MC
Rock Hardness	Hard, abrasive
Application	Abrasive hard seams, heavy load

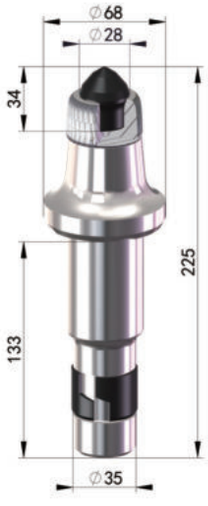


Pick type	XDU170-28R(G)
Rock Hardness	Hard–very hard
Application	Strong coal seams, rock bands

Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XDU170-22R(G)	Box	8	19.9
XDU170-25R(G)	Box	8	20.1
XDU170-25MR(G)	Box	8	20
XDU170-25C	Box	8	20.1
XDU170-25MC	Box	8	20.1
XDU170-28R(G)	Box	8	20.1

XDU170 SERIES

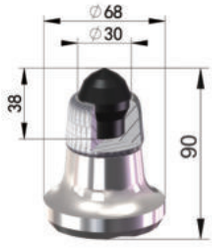
R:Laser Cladding Wear-Resistant Layer
G:High-Entropy Wear-Resistant Reinforcement Layer
C:Ultra Wear-Resistant Protective Layer



Pick type	XDU170-28MR(G)
Rock Hardness	Hard–very hard
Application	Hard coal seams, heavy-duty mining



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



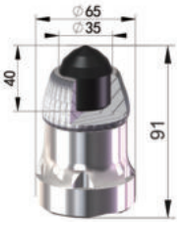
Pick type	XDU170-30MR(G)
Rock Hardness	Very hard
Application	Reinforced cutting, hard seams



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



Pick type	XDU170-30MC
Rock Hardness	Very hard, abrasive
Application	Quartz-rich seams, abrasive strata



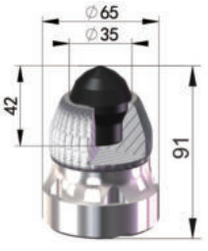
Pick type	XDU170-35R(G)
Rock Hardness	Extreme
Application	Extremely hard seams, rock inclusions

Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XDU170-28MR(G)	Box	8	20
XDU170-30R(G)	Box	8	20.5
XDU170-30MR(G)	Box	8	20.5
XDU170-30C	Box	8	20.5
XDU170-30MC	Box	8	20.5
XDU170-35R(G)	Box	8	26.9

Coal Mining Picks

XDU170 SERIES

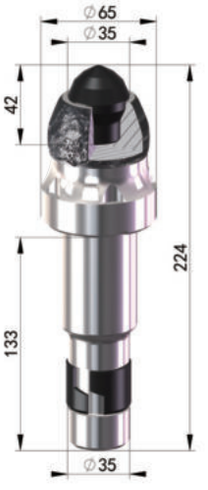
R:Laser Cladding Wear-Resistant Layer
G:High-Entropy Wear-Resistant Reinforcement Layer
C:Ultra Wear-Resistant Protective Layer



Pick type	XDU170-35MR(G)
Rock Hardness	Extreme
Application	High-power shearers, extreme seams

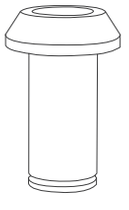


Pick type	XDU170-35C
Rock Hardness	Very hard coal seam / coal-rock mixed
Application	Extreme conditions, heavy-duty mining, abrasive conditions



Pick type	XDU170-35MC
Rock Hardness	Extreme, abrasive
Application	Basalt, granite, high-silica seams





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

Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XDU170-35MR(G)	Box	8	26.9
XDU170-35C	Box	8	26.9
XDU170-35MC	Box	8	26.9



C

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
- *High-Entropy Wear-Resistant Reinforcement Layer:*Delivers 2–3× higher wear resistance compared to conventional solutions.
- *Systems Φ3050mm / Φ3055 mm/ Φ3060mm,* 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	XD3055-21R(G)	•		R(G)	•				•
	XD3055-22-9T	•		9T	•				•
	XD3055-22-10K	•		10K	•				•
	XD3055-22-12K	•		12K		•			•
	XD3055-24R(G)	•		R(G)		•			•
XD3060	XD3060-21R(G)	•		R(G)	•				•
	XD3060-25R(G)	•		R(G)		•			•
	XD3060-25-12K	•		12K			•		•
	XD3060-25C	•		C			•		•
	XD3060-30R(G)	•		R(G)			•		•
	XD3060-30C	•		C				•	•
DESCRIPTION	R: *Laser Cladding Wear-Resistant Layer*								
	C: *Ultra Wear-Resistant Protective Layer*								
	G: *High-Entropy Wear-Resistant Reinforcement 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



Pick type	XD3050-19
Rock Hardness	Soft–medium
Application	Drilling in soft to medium soils and cohesive clay

Φ3055MM SERIES

R:Laser Cladding Wear-Resistant Layer

G:High-Entropy Wear-Resistant Reinforcement Layer

T:Carbide strip protection layer

K:Number of carbide buttons



Pick type	XD3055-21R(G)
Rock Hardness	Soft–medium
Application	Drilling in soil–rock mixed strata and pebble layers



Pick type	XD3055-22-9T
Rock Hardness	Medium–hard
Application	Drilling in gravelly and cobble strata



Pick type	XD3055-22-10K
Rock Hardness	Medium–hard
Application	Drilling in abrasive and cobble formations

Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XD3050-19	Box	20	24
XD3055-21R(G)	Box	20	26.2
XD3055-22-9T	Box	20	26.9
XD3055-22-10K	Box	20	27

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

Φ3055MM SERIES





Pick type	XD3055-22-12K
Rock Hardness	Hard Rock
Application	Drilling in quartz-rich or cobble–gravel mixed rock



Pick type	XD3055-24R(G)
Rock Hardness	Soft–medium
Application	Drilling in cohesive soils and mixed pebble layers

Φ3060MM SERIES





Pick type	XD3060-21R(G)
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(G)
Rock Hardness	Medium–hard
Application	Drilling in weathered rock and pebble–gravel formations

Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XD3055-22-12K	Box	20	27
XD3055-24R(G)	Box	20	29.9
XD3060-21R(G)	Box	20	30.4
XD3060-25C	Box	20	30.9
XD3060-25R(G)	Box	20	30.8

Rotary Drilling Picks

Φ3060MM SERIES

R:Laser Cladding Wear-Resistant Layer
G:High-Entropy Wear-Resistant Reinforcement Layer
C:Ultra Wear-Resistant Protective Layer
K:Number of carbide buttons



Pick type	XD3060-30R(G)
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



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)
XD3060-30R(G)	Box	20	34.1
XD3060-30C	Box	20	34.1
XD3060-25-12K	Box	20	31.3



D

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.
- *High-Entropy Wear-Resistant Reinforcement Layer :* delivers 2–3× higher wear resistance compared to conventional solutions.
- *Versatile Applications:*Suitable for surface coal mining, limestone, and iron ore extraction in medium to very hard rock formations.

SURFACE MINING PICK SELECTION GUIDE

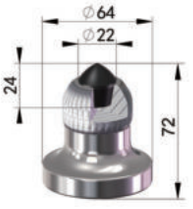
SURFACE MINING Picks	Model	Carbide Tip Shape			Wear-Resistant Layer	Application Conditions				Retainer
		Column Type	Mushroom Type	Bucket-type		Soft Rock	Medium-Hard Rock	Hard Rock	Extra-Hard Rock	
XDU47 series	XDU47-22SR(G)			•	R(G)	•				•
	XDU47-22R(G)-K	•			R(G)	•				•
	XDU47-22R(G)-ZZ	•			R(G)	•				•
	XDU47-25R(G)	•			R(G)		•			•
	XDU47-25MR(G)		•		R(G)		•			•
	XDU47-25R(G)-K	•			R(G)		•			•
XDU170 series	XDU170-30R(G)	•			R(G)			•		•
	XDU170-30MR(G)		•		R(G)			•		•
	XDU170-35R(G)	•			R(G)				•	•
	XDU170-35MR(G)		•		R(G)				•	•
	XDU170-35C	•			C				•	•
	XDU170-35MC		•		C				•	•
Φ42mm series	XD22R(G)-42-86-1	•			R(G)		•			•
	XD25-42-80	•			standard			•		•
	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*									
	G: *High-Entropy Wear-Resistant Reinforcement 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.

XDU47 SERIES

R:Laser Cladding Wear-Resistant Layer

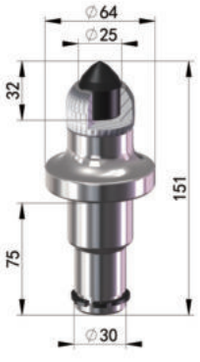
G:High-Entropy Wear-Resistant Reinforcement Layer



Pick type	XDU47-22SR(G)
Rock Hardness	Soft–Medium
Application	Open-pit coal seams, soft rock cutting



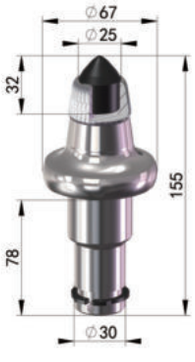
Pick type	XDU47-22R(G)-ZZ
Rock Hardness	Medium–Hard
Application	Open-pit mining, mixed strata excavation



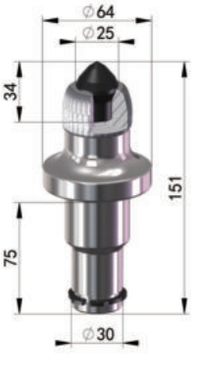
Pick type	XDU47-25R(G)
Rock Hardness	Hard Rock
Application	Open-cast coal and ore extraction



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



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



Pick type	XDU47-25MR(G)
Rock Hardness	Hard Rock
Application	Heavy-duty surface mining, hard rock cutting

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

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

XDU170 SERIES

R:Laser Cladding Wear-Resistant Layer
G:High-Entropy Wear-Resistant Reinforcement Layer
C:Ultra Wear-Resistant Protective Layer



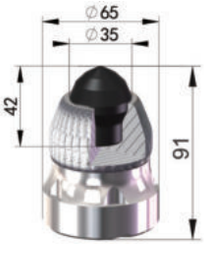
Pick type	XDU170-30R(G)
Rock Hardness	Hard rock
Application	Surface mining, continuous miners, abrasive formations



Pick type	XDU170-30MR(G)
Rock Hardness	Hard–very hard rock
Application	Open-pit mining and excavation in hard strata.



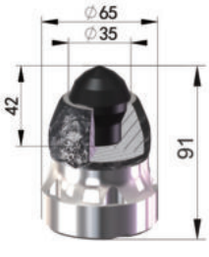
Pick type	XDU170-35R(G)
Rock Hardness	Very hard rock
Application	Surface mining and rock cutting in very hard formations.



Pick type	XDU170-35MR(G)
Rock Hardness	Extreme
Application	Heavy-duty surface mining in high-strength rock.



Pick type	XDU170-35C
Rock Hardness	Very hard and highly abrasive rock
Application	Surface mining, high-impact conditions, heavy-duty operations



Pick type	XDU170-35MC
Rock Hardness	Extreme, abrasive
Application	Surface mining in quartz-rich and highly abrasive formations.

Model	Packaging Method	Number of Packages/Box	Weight/Box (KG)
XDU170-30R(G)	Box	8	20.5
XDU170-30MR(G)	Box	8	20.5
XDU170-35R(G)	Box	8	26.9
XDU170-35MR(G)	Box	8	26.9
XDU170-35C	Box	8	26.9
XDU170-35MC	Box	8	26.9

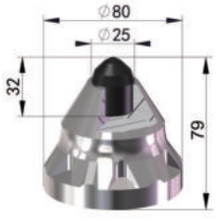
Surface Mining Picks

SHANK Φ42MM SERIES

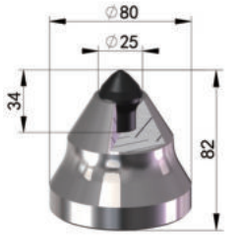
R:Laser Cladding Wear-Resistant Layer
G:High-Entropy Wear-Resistant Reinforcement Layer
C:Ultra Wear-Resistant Protective Layer



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



Pick type	XD25-42-80
Rock Hardness	Soft to medium-soft rock
Application	Surface mining, soft overburden removal, light-duty operations



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



Pick type	XD25CC-42-86-1
Rock Hardness	Very Hard
Application	Extreme wear conditions, open-pit hard 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(G)-42-86-1	Box	8	18.9
XD25-42-80	Box	8	20.5
XD25M-42-80	Box	8	20.5
XD25CC-42-86-1	Box	8	18.9
XD25MCC-42-80K	Box	8	17.3


KRUPP
SIEMENS

E

CUSTOMER CASE STUDIES

· Mining Applications

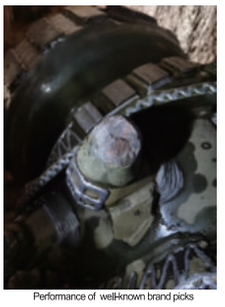
· Construction Applications

MINING CASES

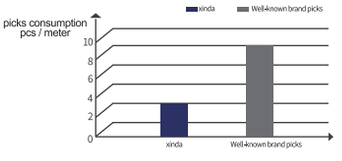
Shaanxi Coal Mine | F8 Hard Rock



Performance of Xinda picks



Performance of well-known brand picks



Customer: Shaanxi Coal Mine

Application: Hard-rock roadway excavation

Equipment: Roadheader

Rock hardness: UCS≥ 80MPa(hard rock)

Compared tool: Well-known brand picks

Xinda pick: UCS≥ 80MPa 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

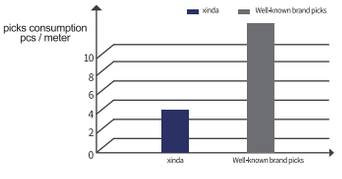
Gansu Coal Mine | Extreme Hard Rock (f12)



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: UCS≥ 120MPa(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

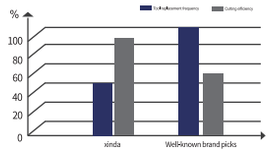
Dalian Bay Subsea Tunnel | Complex Geology



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: 60MPa≤UCS≤90MPa (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

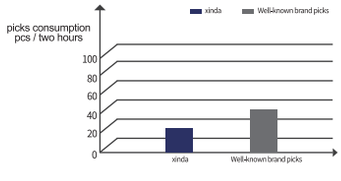
Guangxi Tunnel | Highly Abrasive Sandstone



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: 70MPa≤UCS≤90MPa (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

F

CUTTING PICK SELECTION GUIDE FOR DIFFERENT ROCK CONDITIONS

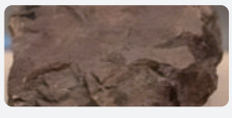
CUTTING PICK SELECTION GUIDE FOR DIFFERENT ROCK CONDITIONS

Rock Hardness Classification

≤50 MPa Soft Rock	50–80 MPa Medium-Hard Rock	80–120 MPa Hard Rock

Soft to Medium-Soft Rock

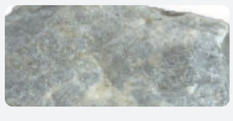
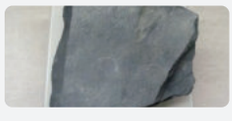
Applicable Range: ≤50 MPa
Typical Formations: Shale, mudstone, siltstone, weakly cemented sandstone


Selection Recommendation: Picks with carbide tips of Ø16–22 mm are recommended to ensure efficient cutting and basic wear resistance.

Medium to Medium-Hard Rock

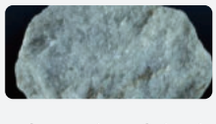
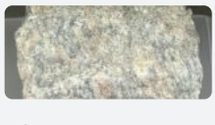
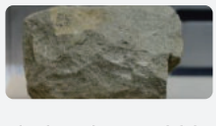
Applicable Range: 50–80 MPa
Typical Formations: Sandstone, limestone, slate

Selection Recommendation: Picks with carbide tips of Ø25–30 mm are recommended for balanced cutting efficiency and wear resistance.

Medium-Hard to Hard Rock

Applicable Range: 80–120 MPa
Typical Formations: Dolomite, marble, gneiss, high-strength sandstone, siliceous sandstone, dense rock formations

Selection Recommendation: Reinforced or impact-resistant designs are recommended, using carbide tips of Ø30–35 mm to improve wear resistance under abrasive and high-strength conditions.

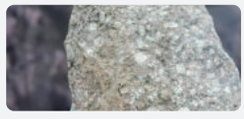
Notes:

1. UCS values may vary depending on rock structure, formation conditions, and testing methods, and should be considered as reference values.
2. Rock formations are inherently anisotropic and heterogeneous. Actual cutting performance is influenced by structural features such as bedding planes, joints, fractures, and loading direction.
3. The above selection recommendations are based on typical strength ranges. In practical applications, factors such as abrasiveness (e.g., quartz content), structural integrity, fracture development, and machine operating parameters should be considered comprehensively.

Highly Abrasive & Very Hard Rock

Key Characteristics: High quartz content (>30%), strong abrasiveness, heterogeneous structure
Applicable Range: ≥120 MPa
Typical Formations: Quartzite, high-silica quartzite, granite





Selection Recommendation: Priority should be given to XD35C series picks with enhanced wear and impact resistance, suitable for combined abrasive and impact conditions.

Coal Seam Hardness Classification

≤30 MPa Soft Coal	30–60 MPa Medium Coal	≥60 MPa Hard Coal

Soft Coal



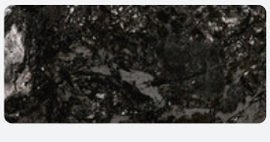
Typical Range: ≤30 MPa
Selection Recommendation: Picks with carbide tips of Ø16–22 mm are recommended.

Medium Coal (with Gangue / Fault Zones)



Typical Range: 30–60 MPa
Selection Recommendation: Picks with carbide tips of Ø25–30 mm are recommended.

Hard Coal / Coal-Rock Mixed Seam



Typical Range: ≥60 MPa
Selection Recommendation: Picks with carbide tips of Ø30–35 mm are recommended.

Notes:

1. UCS values may vary depending on rock structure, formation conditions, and testing methods, and should be considered as reference values.
2. Rock formations are inherently anisotropic and heterogeneous. Actual cutting performance is influenced by structural features such as bedding planes, joints, fractures, and loading direction.
3. The above selection recommendations are based on typical strength ranges. In practical applications, factors such as abrasiveness (e.g., quartz content), structural integrity, fracture development, and machine operating parameters should be considered comprehensively.

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TECHNOLOGY AND R&D STRENGTH

A

B

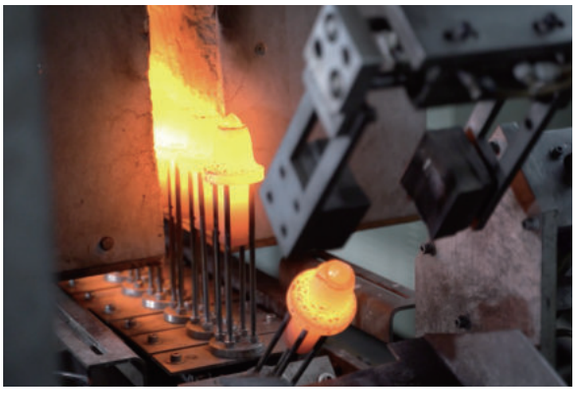
C

D

E

F

G



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 leveraging advanced wear-resistant protection layers and high-entropy wear technology, Xinda picks deliver superior durability and extended service life under demanding conditions.

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.



