

Magnescale

SPEED X PRECISION

USB DIGITAL GAUGE

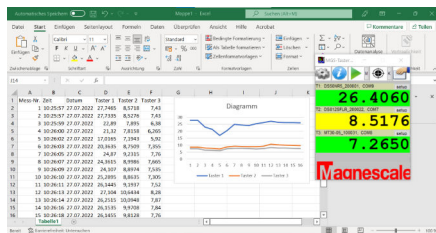
DS800S series

DS10/25/50/100 series

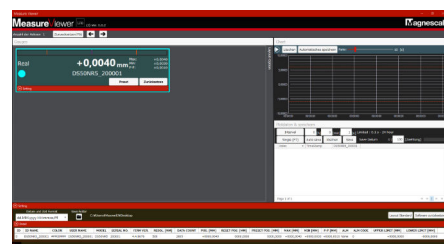
DT series + MT30



MGSE USB SOFTWARE



MEASURE VIEWER LIGHT



Magnescale Co., Ltd.

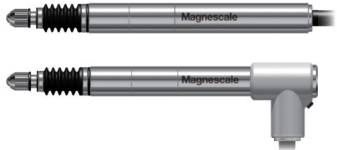
Specifications

Model name		DS805S□□R / DS812S□□R	DS805S□□R5 / DS812S□□R5	DS830SLR
Measuring range		DS805S: 5mm DS812S: 12mm		30mm
Maximum resolution		0.1μm		0.1μm
Accuracy (at 20°)		1μm		1.5μm
Measuring force (at 20°C)	Upward	DS805S: 0.35 ± 0.25N DS812S: 0.40 ± 0.30N*1 DS812SVR/DS812SVR5: 0.60 ± 0.50N*2		0.50 ± 0.35N
	Horizontal	DS805S: 0.40 ± 0.25N DS812S: 0.50 ± 0.30N*1 DS812SVR/DS812SVR5: 0.70 ± 0.50N*2		0.60 ± 0.35N
	Downward	DS805S: 0.45 ± 0.25N DS812S: 0.60 ± 0.30N*1 DS812SVR/DS812SVR5: 0.80 ± 0.50N*2		0.70 ± 0.35N
Reference point		Position at spindle movement of 1mm		
Protection grade (cable and interpolator box not included)		Straight model: IP67 Right-angle model: IP64 (IP67*3)		IP53/IP67*4
Vibration resistance		100m/s² (20Hz to 2kHz)		
Impact resistance		1,000m² (11ms)		
Operating temperature		0 to 50°C (no condensation)		
Storage temperature		-20 to 60°C (90% RH or less)		
Power supply		5V DC ± 5%		
Power consumption		120mA max.		
Mass (Probe)		Approximately 30g		Approximately 70g
Cable length		Gauge ⇔ Interpolator: 2m Interpolator ⇔ USB: 0.5m		
Feeler		Carbide ball tip with M2.5 thread	Steel ball tip with M2.5 thread	Carbide ball tip with M2.5 thread
Accessory		Instruction manual, tightening nut, clamp spanner, wave washer, hose elbow, spanner		Instruction manual, spanner
Communication interface		USB2.0FS		
Recommended system specifications		CPU: Intel Core i3 or higher RAM: 1GB or more OS: Windows 10 (32bit/64bit)		

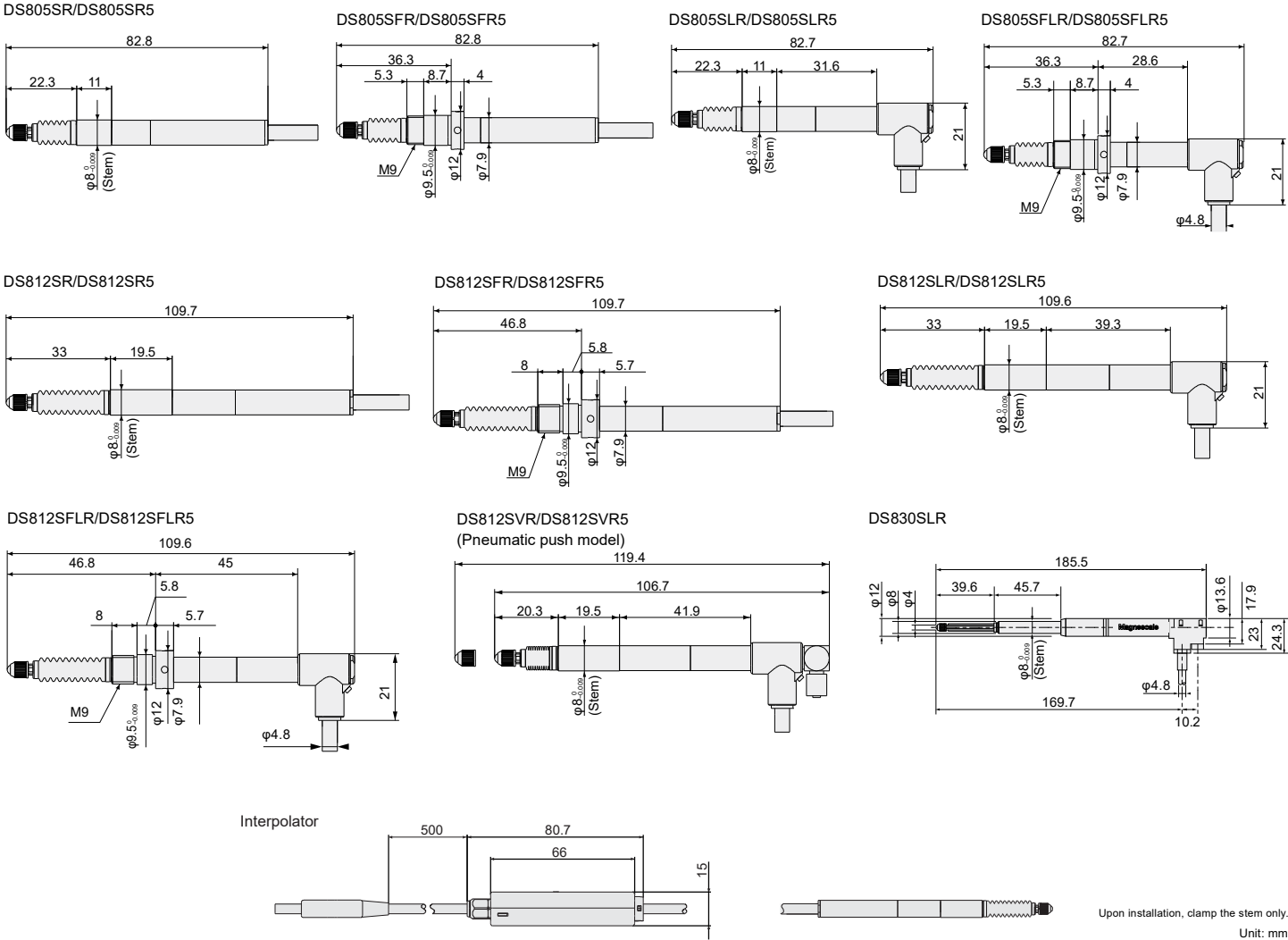
*1 Except SVR/SVR5 *2 When air pressure is 0.055Mpa
*3 When Ø4mm tube is connected
*4 When bellow set (optional accessory) is mounted and Ø4mm tube is connected

Model- : DS805S□□R □
name DS812S□□R □

- 【Resolution / Accuracy】
No symbol: Resolution 0.1μm
Accuracy 1μm
5: Resolution 0.5μm
Accuracy 1.5μm
- 【Structure】
No symbol: Straight
L: Right angle
F: Flange
FL: Flange right angle
V: Pneumatic push (DS812S model only)
- 【Ball spline model】
- 【Measuring range】
05 : 5mm
12 : 12mm

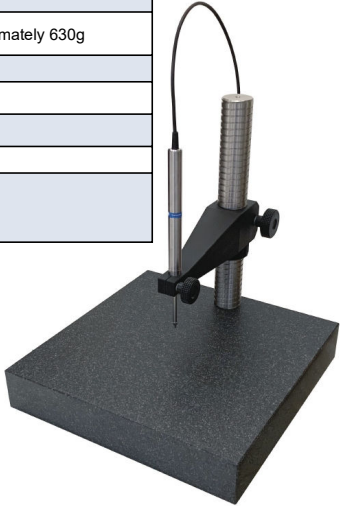


Dimensions

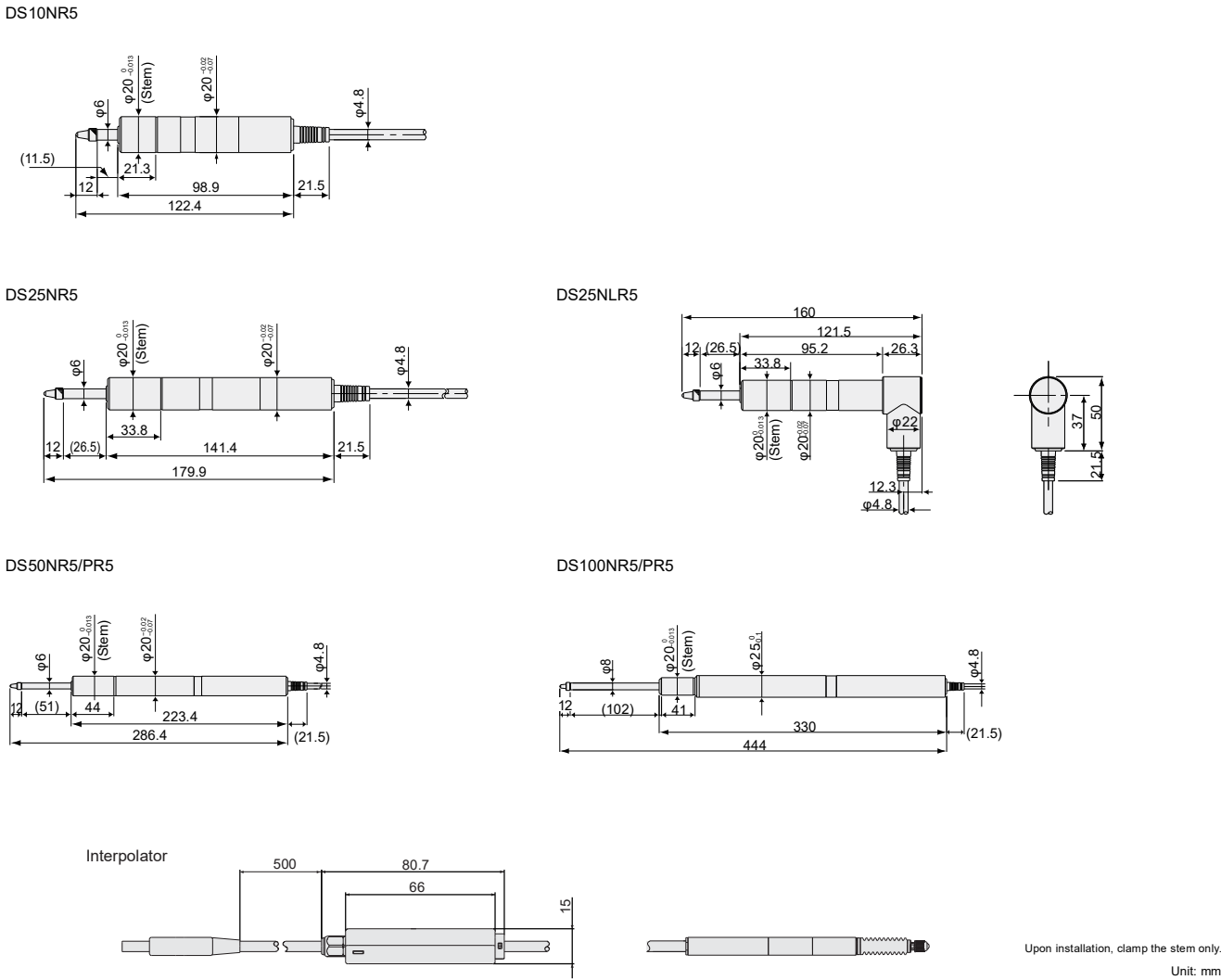


Specifications

Model name		DS10NR5	DS25NR5	DS25NLR5	DS50NR5	DS50PR5	DS100NR5	DS100PR5
Measuring range		10mm	25mm		50mm		100mm	
Maximum resolution		0.5μm						
Accuracy (at 20°)		3μm			4μm		5μm	
Measuring force (at 20°C)	Upward	0.30 ± 0.25N	0.40 ± 0.30N		-	6.20N or less	-	9.30N or less
	Horizontal	0.60 ± 0.30N	0.70 ± 0.35N		0.90 ± 0.40N		1.80 ± 0.65N	
	Downward	0.80 ± 0.35N	1.00 ± 0.40N		1.30 ± 0.50N		2.70 ± 0.55N	
Reference point		Position at spindle movement of 1mm						
Protection grade (cable and interpolator box not included)		IP50				IP64	IP50	IP64
Vibration resistance		150m/s ² (10Hz to 2kHz)						
Impact resistance		1,500m/ ² (11ms)						
Operating temperature		0 to 50°C (no condensation)						
Storage temperature		-20 to 60°C (90% RH or less)						
Power supply		5V DC ± 5%						
Power consumption		120mA max.						
Mass (Probe)		Approximately 230g	Approximately 300g		Approximately 360g		Approximately 630g	
Cable length		Gauge ⇄ Interpolator: 2m Interpolator ⇄ USB: 0.5m						
Feeler		Carbide ball tip with M2.5 thread						
Accessory		Instruction manual						
Communication interface		USB2.0FS						
Recommended system specifications		CPU: Intel Core i3 or higher RAM: 1GB or more OS: Windows 10 (32bit/64bit)						



Dimensions



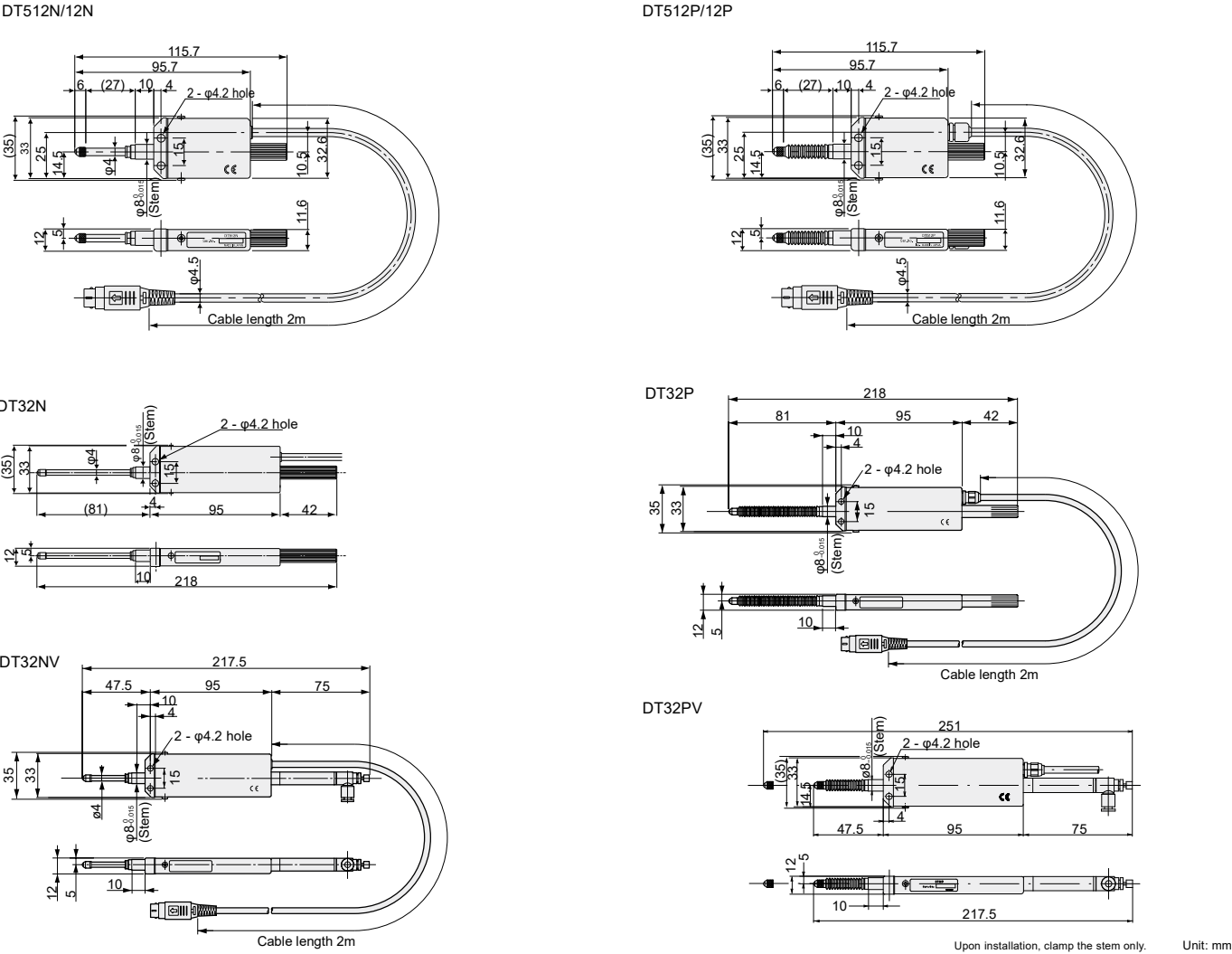
Model name		DT512N	DT512P	DT12N	DT12P	DT32N	DT32NV	DT32P	DT32PV
Measuring range		12mm				32mm			
Maximum resolution		1μm			5μm				
Accuracy (at 20°)		6μm			10μm				
Measuring force (at 20°C)	Upward	0.70 ± 0.50N	1.70N or less	0.70 ± 0.50N	1.70N or less	1.10 ± 0.80N		2.90N or less	9.00N or less
	Horizontal	0.80 ± 0.50N		0.80 ± 0.50N		1.30 ± 0.80N			
	Downward	0.90 ± 0.50N		0.90 ± 0.50N		1.50 ± 0.80N			
Maximum response speed		Depending on unit to be connected							
Reference point		None							
Spindle drive system		Spring push-out				Pneumatic push		Spring push-out	Pneumatic push
Protection grade (connector not included)		-	IP64 or equivalent	-	IP64 or equivalent	-		IP64 or equivalent	
Operating temperature		0 to 50°C							
Storage temperature		-10 to 60°C							
Power supply		5V DC ± 5%*1							
Power consumption		120mA max.*1							
Mass (Probe)		Approximately 75g	Approximately 80g	Approximately 75g	Approximately 80g	Approximately 120g	Approximately 140g	Approximately 120g	Approximately 140g
Cable length		2m							
Feeler		Steel ball tip with M2.5 thread							
Accessory		Instruction manual							

*1 When connected to USB with MT30

The DT series can be directly connected to USB with MT30 adapter



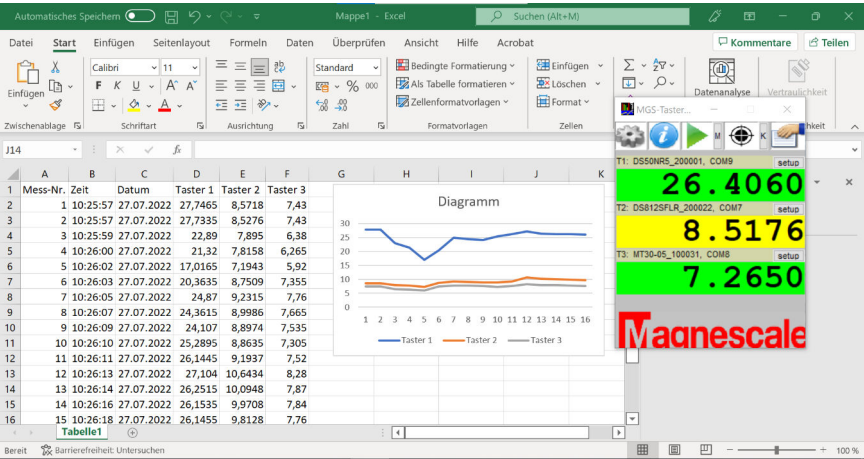
Dimensions



Easy to use MGSE USB software

- Up to 8 gauges can be connected
- Actual measurement values
- Calibration function
- Preset
- Scaling function
- Threshold and warning threshold displayed in different colours (green, yellow, red)
- Trigger of measurement possible with external switch (e.g. foot switch, CNC)
- Measurement values can be saved in Excel or CSV format
- Compatible with Windows XP, 7, 8 and 10

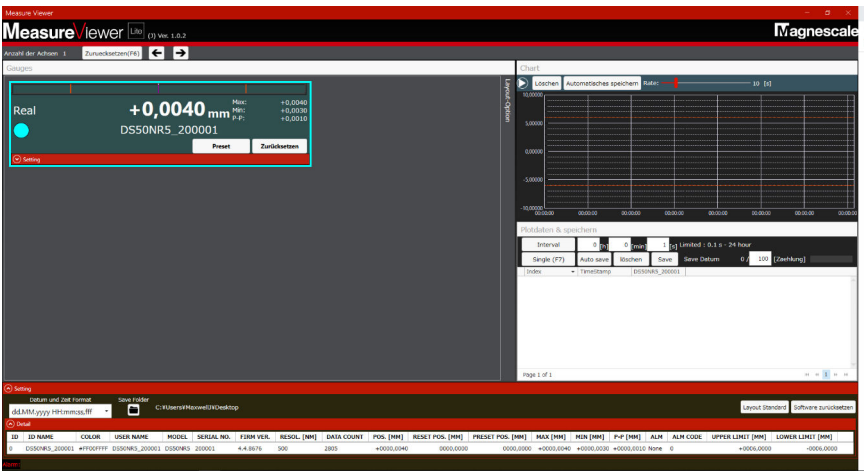
Free of cost



MeasureViewer Light

- Up to 16 gauges can be connected
- Actual measurement values
- Counting direction can be changed
- Reset, preset
- 2 steps of threshold and warning threshold displayed in different colours (blue, red)
- Measurement values can be saved in CSV format
- Japanese, English and German are available
- Recommended operating environment of Windows 10

Free of cost



Several software driver compatible: Labview, C++, C#, Visual Basic

Magnescale

SPEED X PRECISION

 To use this product safely, please read the instruction manual carefully and thoroughly prior to usage.

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Magnescale reserves the right to change products and specifications without prior notice.



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