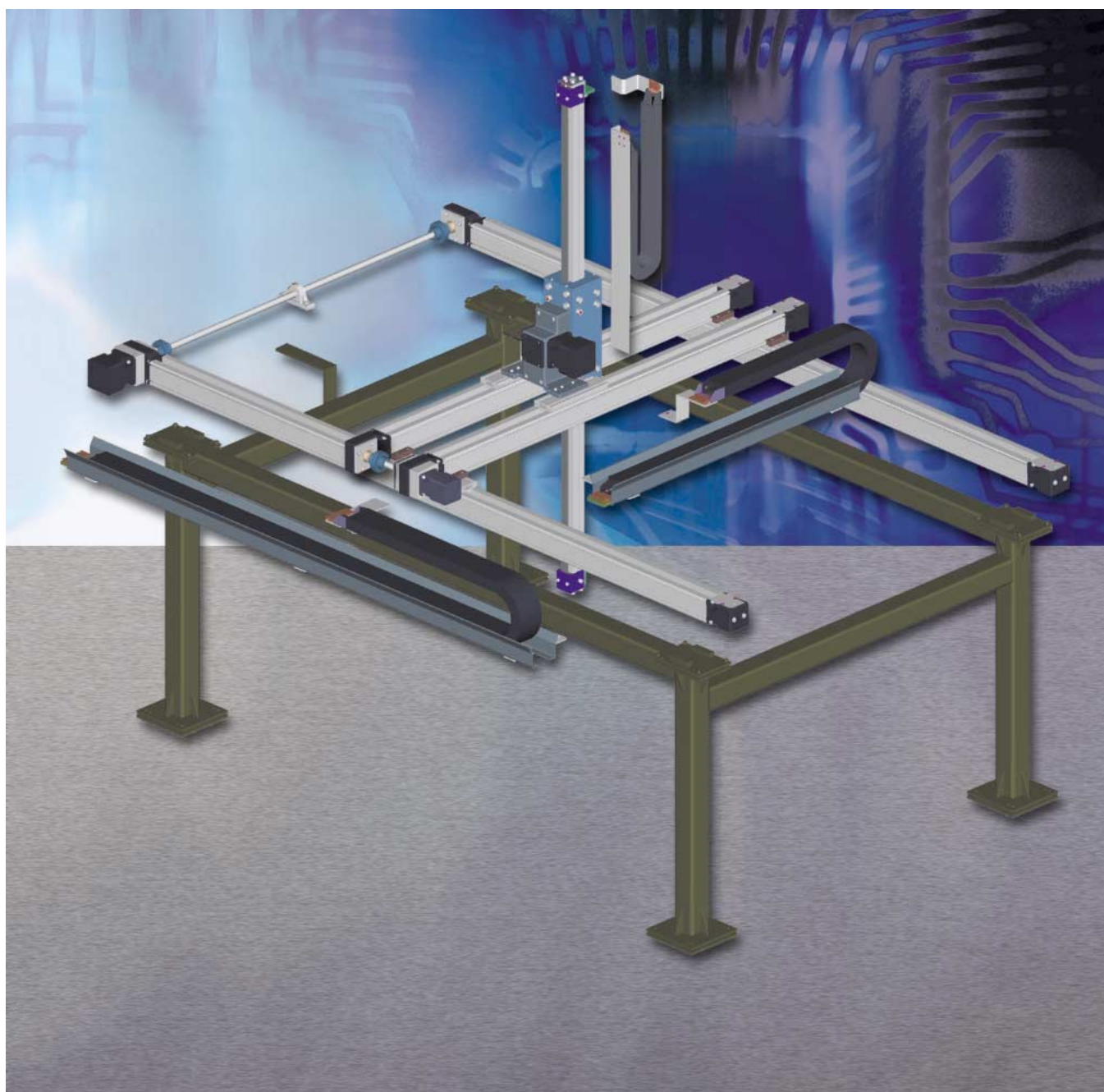




# *Standard gantry robots*

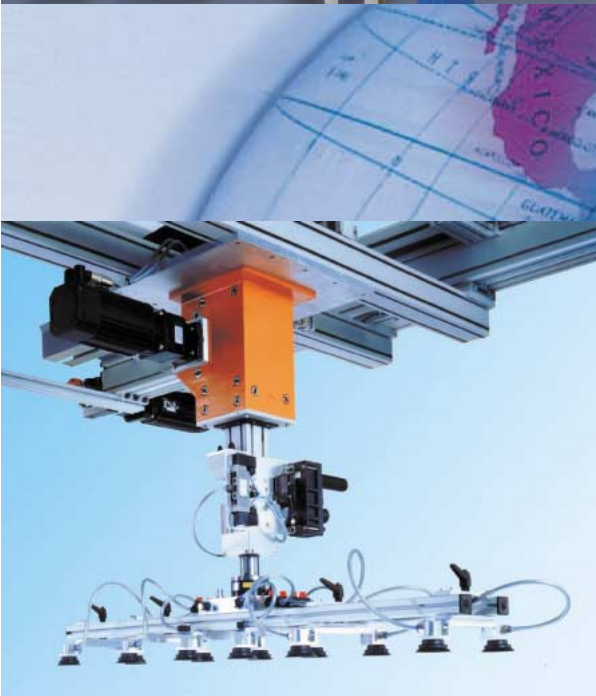
*Catalogue: 192-700011N5/UK  
Version 5 / March 2004*



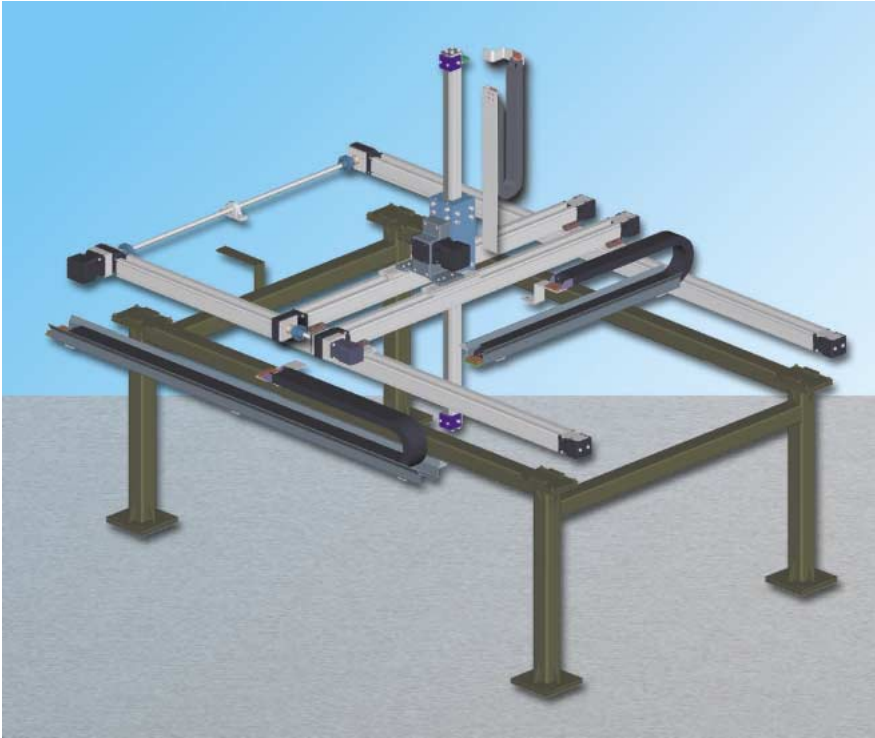
# Standard gantry robots



Parker – worldwide partner for automation systems



# Gantry robot kits



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### Standard components to satisfy your system requirements

Focussed system configurations enable robot applications to be specified easily using our carefully selected standard components, reducing the time and resources needed by the integrator to specify the system.

### Standard components ensure short deliveries & competitive pricing

Using our engineering expertise standard parker components enable gantry kits to be supplied cost effectively. Factory pre-assembly no longer required as proven component configurations eliminate possible installation errors. This combined with delivery times in the region of 4 weeks results in a solution from concept to operation in the shortest possible time.

### Flexible solution for experienced machine builders

Selectable levels of integration enable the machine builder or system integrator to assemble a suitable solution:

- Actuators only (with gearboxes)
- Actuators + cable management system
- Actuators & motion control & cable chain management

**Custom systems can be supplied upon request!**



# System overview

## You have the choice!

Standard gantry robots are available in various system configurations:

### Basic gantry

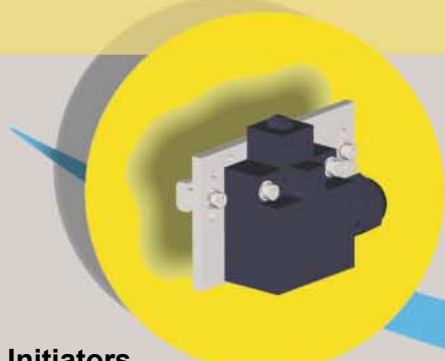
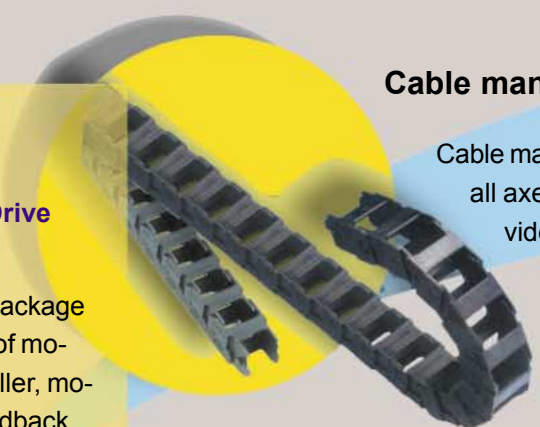
Line gantry with X- and Z-axis or space gantry with X-, Y- and Z-axis (all actuators with gearbox), optional with steel strip cover for the X- and Y-axis (Protection class IP30), optional with cable management (for all axis).

### Optional Drive package

Complete package consisting of motors, controller, motor- and feedback cable and a parameter list.

### Cable management

Cable management for all axes can be provided. Entry point: drive of X-axis.



### Initiators and limit switch kit

On request we deliver Initiators, end of travel switches and tripping plates for each axis (Please order separately). You will find ordering information in the adequate linear actuator catalogs:

**HLE linear actuators:** 192-510011 (English), 190-510011 (German)

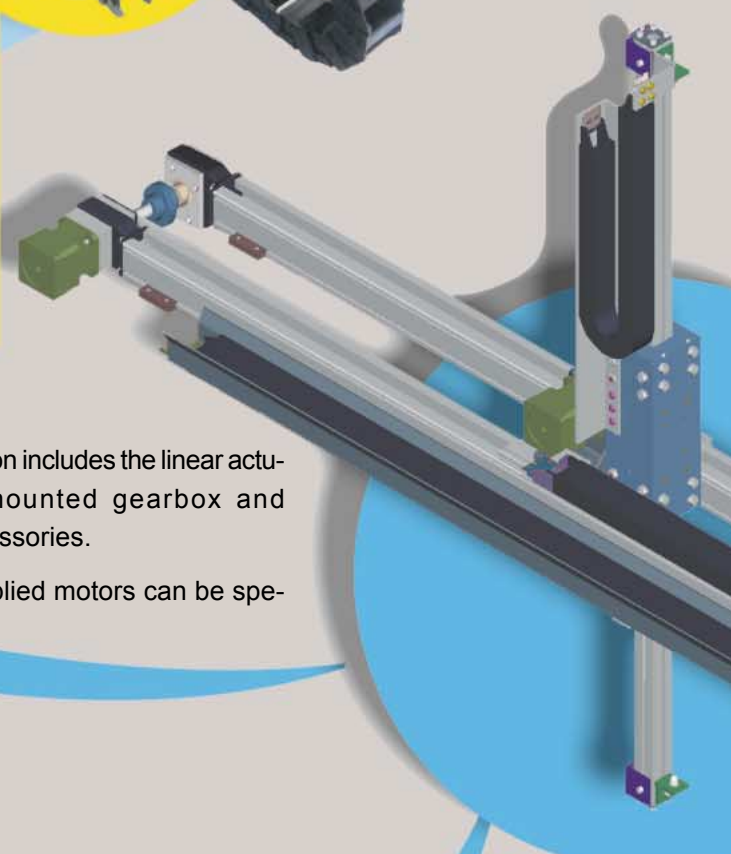
**HPLA linear actuators:** 192-580011 (English), 190-580011 (German)

**HZR vertical actuators:** 192-560011 (English), 190-560011 (German)

### Basic gantry

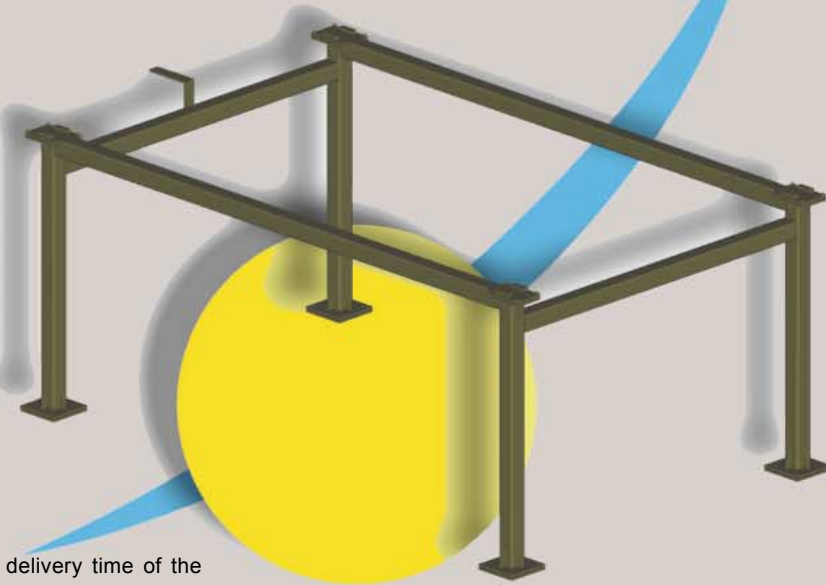
The basic version includes the linear actuators, with mounted gearbox and assembly accessories.

Customer supplied motors can be specified<sup>1)</sup>.



### Steel base

Steel support structures can be supplied on request for easy robot installation.



1) If a customer-specific gearbox is used the delivery time of the entire gantry robot may extend up to 6 weeks.

## Standard gantry robots

### Complete with drive

In addition to the basic gantry a complete drive package can be ordered. Comprising of:

- Motor
- Controller
- Motor- and feedback cables
- Parameter list for all axis.



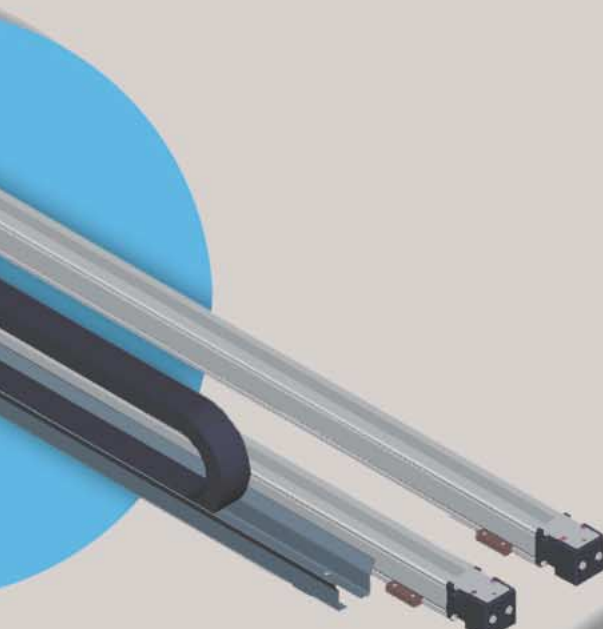
### Controller

Compax3 provides a control solution to meet the most demanding requirements.



### Software

Parameter set for the optimisation of the controller ensuring easy setup and dynamic performance.



### Motor- and feedback cables

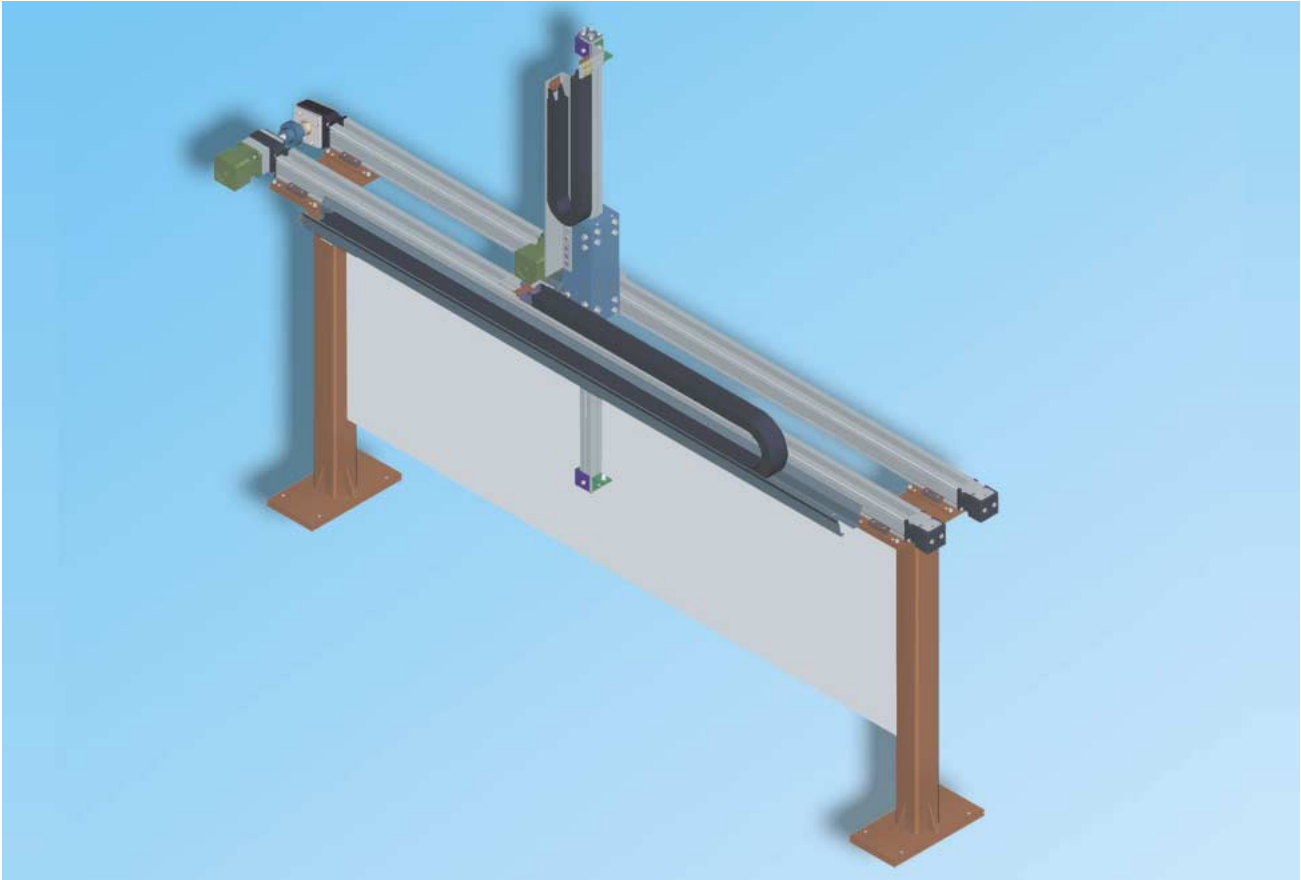
Free cable length specified by customer.



### Motors

Parker servo motors with resolver feedback or with SinusCosinus Multiturn feedback (absolute value encoder - no initiators required)

# Line gantrys - Combination of HLE/HPLA linear actuator and HZR vertical actuators



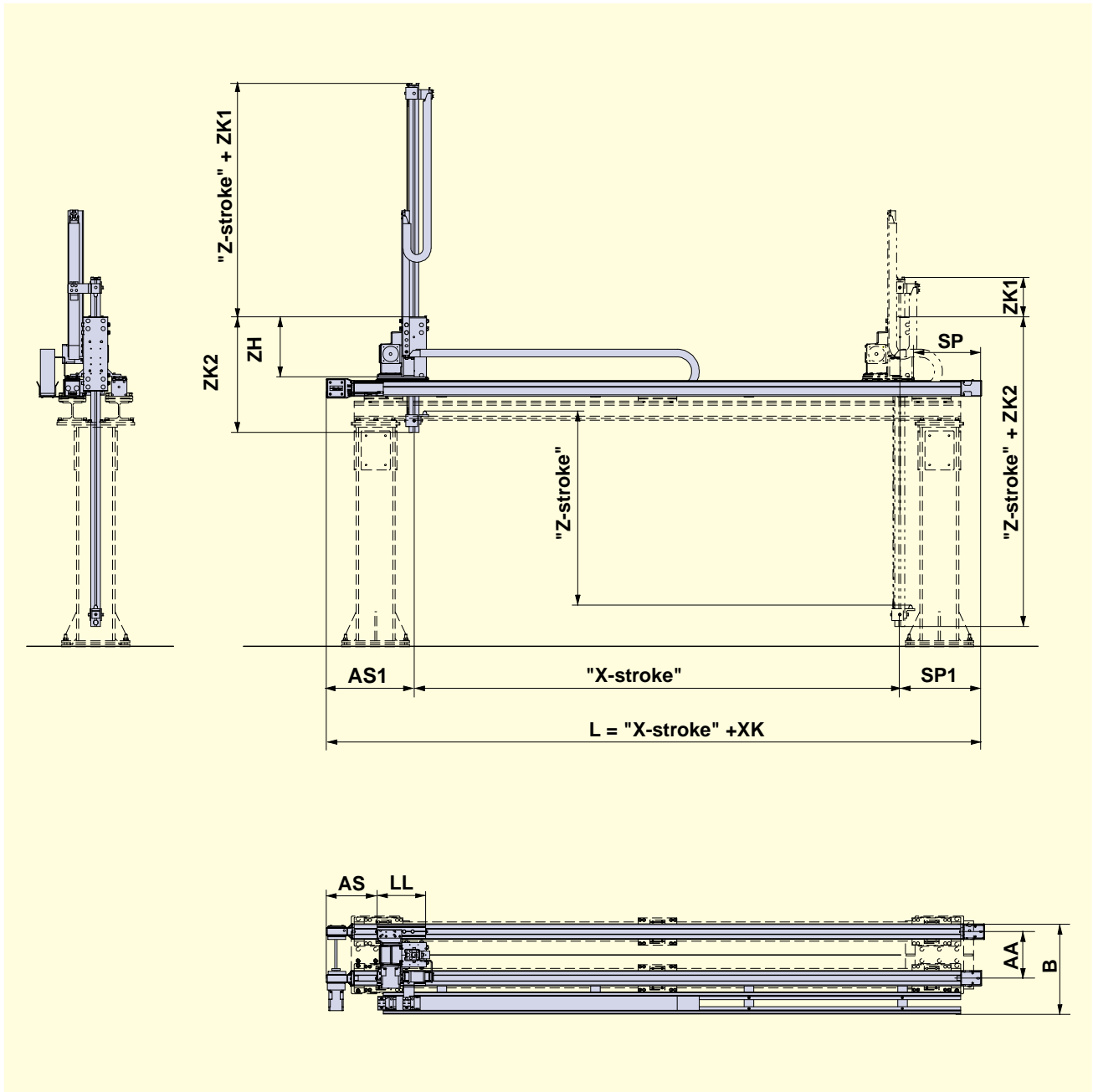
Basic version								Drive package						
Gantry	Axis	Actuator	max. Stroke [m]	$v_{max}^{1)}$ [m/s]	$a_{max}^{2) 3)}$ [m/s <sup>2</sup> ]	max. Payload [kg]	Gear-box	max. duty cycle [%] at acceleration rates [m/s <sup>2</sup> ] <sup>2)</sup>					Motor description	Controller
GL02	X	HPLA 80	5.0	3.0	3.00	30	P3 i=5	1 m/s <sup>2</sup>	2 m/s <sup>2</sup>	3 m/s <sup>2</sup>	4 m/s <sup>2</sup>	5 m/s <sup>2</sup>	MH_105/050/002/B09/19/_/230	C3S063 U <sub>line</sub> = 230V
	Z	HZR 50	1.5	2.5	5.00			1 m/s <sup>2</sup>	2 m/s <sup>2</sup>	3 m/s <sup>2</sup>	4 m/s <sup>2</sup>	5 m/s <sup>2</sup>		
GL03	X	HLE 100	5.5	3.0	5.00	50	P4 i=5	1 m/s <sup>2</sup>	2 m/s <sup>2</sup>	3 m/s <sup>2</sup>	4 m/s <sup>2</sup>	5 m/s <sup>2</sup>	MH_105/060/006/B09/19/_/400	C3S038 U <sub>line</sub> = 400V
	Z	HZR 80	1.5	2.5	4.00			1 m/s <sup>2</sup>	2 m/s <sup>2</sup>	3 m/s <sup>2</sup>	4 m/s <sup>2</sup>	5 m/s <sup>2</sup>		
GL04	X	HPLA 120	8.5	3.0	4.00	75	P4 i=7	1 m/s <sup>2</sup>	2 m/s <sup>2</sup>	3 m/s <sup>2</sup>	4 m/s <sup>2</sup>	5 m/s <sup>2</sup>	MH_105/060/006/B09/19/_/400	C3S075 U <sub>line</sub> = 400V
	Z	HZR 80	1.5	3.0	5.00			1 m/s <sup>2</sup>	2 m/s <sup>2</sup>	3 m/s <sup>2</sup>	4 m/s <sup>2</sup>	5 m/s <sup>2</sup>		
GL05	X	HPLA 120	8.5	2.5	5.00	150	P5 i=7	1 m/s <sup>2</sup>	2 m/s <sup>2</sup>	3 m/s <sup>2</sup>	4 m/s <sup>2</sup>	5 m/s <sup>2</sup>	MH_145/045/015/B05/24/_/400	C3S075 U <sub>line</sub> = 400V
	Z	HZR 100	2.0	2.5	3.00			1 m/s <sup>2</sup>	2 m/s <sup>2</sup>	3 m/s <sup>2</sup>	4 m/s <sup>2</sup>	5 m/s <sup>2</sup>		
GL06	X	HLE 150	7.8	2.5	5.00	150	P5 i=7	1 m/s <sup>2</sup>	2 m/s <sup>2</sup>	3 m/s <sup>2</sup>	4 m/s <sup>2</sup>	5 m/s <sup>2</sup>	MH_145/045/015/B05/24/_/400	C3S075 U <sub>line</sub> = 400V
	Z	HZR 100	2.0	2.5	3.00			1 m/s <sup>2</sup>	2 m/s <sup>2</sup>	3 m/s <sup>2</sup>	4 m/s <sup>2</sup>	5 m/s <sup>2</sup>		

1) Values for max. working envelope and max. payload.

2) Only valid for uniform acceleration (linear acceleration ramp); max. acceleration values - provided drive power is sufficient.

3) Valid for X-axis (with Z-axis retracted).

Standard gantry robots



Gantry robots	ZK1	ZK2	ZH	AS		LL	SP		XK		AA	B	AS1	SP1
				standard	IP30		standard	IP30	standard	IP30				
GL02	202	594	308	264	IP30	250	250	IP30	872	240	464	454	418	
GL03	240	645	340	299	IP30	450	251	IP30	1000	310	633	524	476	
GL04	240	645	340	385	IP30	500	240	IP30	1225	330	660	635	590	
GL05	250	780	395	395	IP30	500	350	IP30	1245	430	783	645	600	
GL06	250	780	395	448	IP30	600	360	IP30	1308	400	740	698	610	

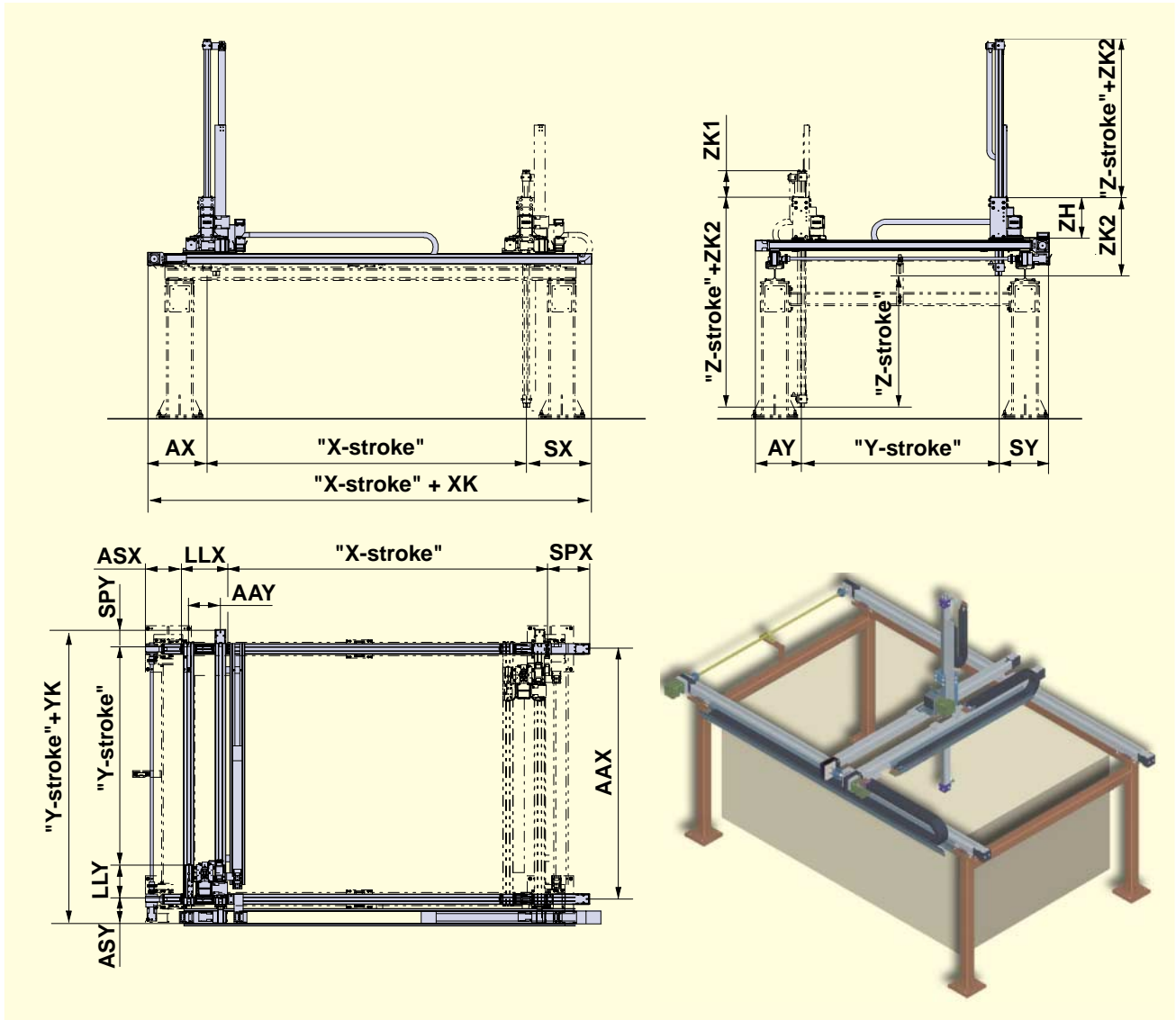
# Space gantry robots - Combination of HLE/HPLA linear actuators and HZR vertical actuators

Basic version								Drive package						
Gantry	Axis	Actuator	max. Stroke [m]	$v_{max}^{1)}$ [m/s]	$a_{max}^{2)3)}$ [m/s <sup>2</sup> ]	max. Payload [kg]	Gear-box	max. duty cycle [%] at acceleration rates [m/s <sup>2</sup> ] <sup>2)</sup>					Motor description	Controller
GR02	X	HPLA 80	4.9	3.0	3.00	30	P3, i=5	1 m/s <sup>2</sup> 100 %	2 m/s <sup>2</sup> 95 %	3 m/s <sup>2</sup> 68 %	MH_105/050/004/B09/19/_/230	C3S063 U <sub>line</sub> = 230V		
	Y	HPLA 80	2.0	3.0	3.00		P3, i=5	1 m/s <sup>2</sup> 100 %	2 m/s <sup>2</sup> 100 %	3 m/s <sup>2</sup> 90 %	MH_105/050/002/B09/19/_/230	C3S063 U <sub>line</sub> = 230V		
	Z	HZR 50	1.5	2.5	5.00		P3, i=5	1 m/s <sup>2</sup> 99 %	2 m/s <sup>2</sup> 89 %	3 m/s <sup>2</sup> 81 %	4 m/s <sup>2</sup> 74 %	5 m/s <sup>2</sup> 68 %	MH_105/050/004/B09/19/_/230Br (with brake)	C3S063 U <sub>line</sub> = 230V
GR03	X	HLE 100	5.5	3.0	3.00	50	P4 i=5	1 m/s <sup>2</sup> 100 %	2 m/s <sup>2</sup> 100 %	3 m/s <sup>2</sup> 72 %	MH_105/060/008/B09/19/_/400	C3S075 U <sub>line</sub> = 400V		
	Y	HLE 100	2.5	3.0	3.00		P4 i=5	1 m/s <sup>2</sup> 100 %	2 m/s <sup>2</sup> 100 %	3 m/s <sup>2</sup> 89 %	MH_105/060/006/B09/19/_/400	C3S038 U <sub>line</sub> = 400V		
	Z	HZR 80	1.5	2.5	5.00		P4 i=7	1 m/s <sup>2</sup> 91 %	2 m/s <sup>2</sup> 81 %	3 m/s <sup>2</sup> 73 %	4 m/s <sup>2</sup> 66 %	5 m/s <sup>2</sup> 60 %	MH_105/045/008/B09/19/_/400Br (with brake)	C3S038 U <sub>line</sub> = 400V
GR04	X	HPLA 120	8.5	3.0	5.00	50	P5 i=5	1 m/s <sup>2</sup> 100 %	2 m/s <sup>2</sup> 100 %	3 m/s <sup>2</sup> 98 %	4 m/s <sup>2</sup> 76 %	5 m/s <sup>2</sup> 62 %	MH_145/056/015/B05/24/_/400	C3S075 U <sub>line</sub> = 400V
	Y	HLE 100	2.5	3.0	3.00		P4 i=5	1 m/s <sup>2</sup> 100 %	2 m/s <sup>2</sup> 100 %	3 m/s <sup>2</sup> 89 %	MH_105/060/006/B09/19/_/400	C3S038 U <sub>line</sub> = 400V		
	Z	HZR 80	1.5	2.5	5.00		P4 i=7	1 m/s <sup>2</sup> 91 %	2 m/s <sup>2</sup> 81 %	3 m/s <sup>2</sup> 73 %	4 m/s <sup>2</sup> 66 %	5 m/s <sup>2</sup> 60 %	MH_105/045/008/B09/19/_/400Br (with brake)	C3S038 U <sub>line</sub> = 400V
GR05	X	HLE 150	7.5	2.5	5.00	50	P5 i=7	1 m/s <sup>2</sup> 100 %	2 m/s <sup>2</sup> 100 %	3 m/s <sup>2</sup> 100 %	4 m/s <sup>2</sup> 79 %	5 m/s <sup>2</sup> 64 %	MH_145/045/022/B05/24/_/400	C3S075 U <sub>line</sub> = 400V
	Y	HLE 100	2.5	3.0	3.00		P4 i=5	1 m/s <sup>2</sup> 100 %	2 m/s <sup>2</sup> 100 %	3 m/s <sup>2</sup> 85 %	MH_105/060/006/B09/19/_/400	C3S038 U <sub>line</sub> = 400V		
	Z	HZR 80	1.5	2.5	5.00		P4 i=7	1 m/s <sup>2</sup> 91 %	2 m/s <sup>2</sup> 81 %	3 m/s <sup>2</sup> 73 %	4 m/s <sup>2</sup> 66 %	5 m/s <sup>2</sup> 60 %	MH_105/045/008/B09/19/_/400Br (with brake)	C3S038 U <sub>line</sub> = 400V
GR06	X	HPLA 120	8.5	3.0	4.00	75	P5 i=7	1 m/s <sup>2</sup> 100 %	2 m/s <sup>2</sup> 100 %	3 m/s <sup>2</sup> 98 %	4 m/s <sup>2</sup> 75 %	MH_145/056/015/B05/24/_/400	C3S150 U <sub>line</sub> = 400V	
	Y	HPLA 120	3.9	3.0	2.00		P4 i=7	1 m/s <sup>2</sup> 100 %	2 m/s <sup>2</sup> 68 %	MH_105/060/002/B09/19/_/400	C3S075 U <sub>line</sub> = 400V			
	Z	HZR 80	1.5	3.0	5.00		P4 i=7	1 m/s <sup>2</sup> 100 %	2 m/s <sup>2</sup> 91 %	3 m/s <sup>2</sup> 81 %	4 m/s <sup>2</sup> 73 %	5 m/s <sup>2</sup> 67 %	MH_105/045/008/B09/19/_/400Br (with brake)	C3S075 U <sub>line</sub> = 400V
GR07	X	HLE 150	7.5	2.5	3.50	100	P5 i=7	1 m/s <sup>2</sup> 100 %	2 m/s <sup>2</sup> 100 %	3 m/s <sup>2</sup> 70 %	3.5 m/s <sup>2</sup> 62 %	MH_145/045/008/B05/24/_/400	C3S150 U <sub>line</sub> = 400V	
	Y	HPLA 120	3.9	3.0	1.75		P4 i=7	1 m/s <sup>2</sup> 100 %	1.75 m/s <sup>2</sup> 71 %	MH_105/060/002/B09/19/_/400	C3S075 U <sub>line</sub> = 400V			
	Z	HZR 80	1.5	3.0	5.00		P4 i=7	1 m/s <sup>2</sup> 82 %	2 m/s <sup>2</sup> 72 %	3 m/s <sup>2</sup> 65 %	4 m/s <sup>2</sup> 59 %	5 m/s <sup>2</sup> 54 %	MH_105/056/008/B09/19/_/400Br (with brake)	C3S075 U <sub>line</sub> = 400V
GR08	X	HPLA 120	8.5	2.5	5.00	150	P5 i=7	1 m/s <sup>2</sup> 100 %	2 m/s <sup>2</sup> 100 %	3 m/s <sup>2</sup> 72 %	4 m/s <sup>2</sup> 55 %	5 m/s <sup>2</sup> 44 %	MH_145/045/015/B05/24/_/400	C3S150 U <sub>line</sub> = 400V
	Y	HPLA 120	2.5	2.5	5.00		P5 i=7	1 m/s <sup>2</sup> 100 %	2 m/s <sup>2</sup> 100 %	3 m/s <sup>2</sup> 98 %	4 m/s <sup>2</sup> 75 %	5 m/s <sup>2</sup> 61 %	MH_145/045/008/B05/24/_/400	C3S075 U <sub>line</sub> = 400V
	Z	HZR 100	2.0	2.5	3.00		P5 i=7	1 m/s <sup>2</sup> 78 %	2 m/s <sup>2</sup> 70 %	3 m/s <sup>2</sup> 63 %	MH_145/045/015/B05/24/_/400Br (with brake)	C3S150 U <sub>line</sub> = 400V		
GR09	X	HLE 150	7.5	2.5	5.00	150	P5 i=7	1 m/s <sup>2</sup> 100 %	2 m/s <sup>2</sup> 100 %	3 m/s <sup>2</sup> 87 %	4 m/s <sup>2</sup> 66 %	5 m/s <sup>2</sup> 54 %	MH_145/045/022/B05/24/_/400	C3S150 U <sub>line</sub> = 400V
	Y	HPLA 120	2.5	2.5	5.00		P5 i=7	1 m/s <sup>2</sup> 100 %	2 m/s <sup>2</sup> 100 %	3 m/s <sup>2</sup> 98 %	4 m/s <sup>2</sup> 75 %	5 m/s <sup>2</sup> 61 %	MH_145/045/008/B05/24/_/400	C3S075 U <sub>line</sub> = 400V
	Z	HZR 100	2.0	2.5	3.00		P5 i=7	1 m/s <sup>2</sup> 78 %	2 m/s <sup>2</sup> 70 %	3 m/s <sup>2</sup> 63 %	MH_145/045/015/B05/24/_/400Br (with brake)	C3S150 U <sub>line</sub> = 400V		
GR10	X	HLE 150	7.4	2.5	3.50	150	P5 i=7	1 m/s <sup>2</sup> 100 %	2 m/s <sup>2</sup> 100 %	3 m/s <sup>2</sup> 75 %	3.5 m/s <sup>2</sup> 66 %	MH_145/045/022/B05/24/_/400	C3S150 U <sub>line</sub> = 400V	
	Y	HLE 150	3.5	2.5	5.00		P5 i=7	1 m/s <sup>2</sup> 100 %	2 m/s <sup>2</sup> 100 %	3 m/s <sup>2</sup> 100 %	4 m/s <sup>2</sup> 92 %	5 m/s <sup>2</sup> 75 %	MH_145/045/015/B05/24/_/400	C3S075 U <sub>line</sub> = 400V
	Z	HZR 100	2.0	2.5	3.00		P5 i=7	1 m/s <sup>2</sup> 78 %	2 m/s <sup>2</sup> 70 %	3 m/s <sup>2</sup> 63 %	MH_145/045/015/B05/24/_/400Br (with brake)	C3S150 U <sub>line</sub> = 400V		
GR11	X	HPLA 180	7.0	3.0	5.00	150	P7 i=7	1 m/s <sup>2</sup> 100 %	2 m/s <sup>2</sup> 85 %	3 m/s <sup>2</sup> 58 %	4 m/s <sup>2</sup> 44 %	5 m/s <sup>2</sup> 35 %	MH_145/045/022/B05/24/_/400	C3S150 U <sub>line</sub> = 400V
	Y	HLE 150	3.5	2.5	5.00		P5 i=7	1 m/s <sup>2</sup> 100 %	2 m/s <sup>2</sup> 100 %	3 m/s <sup>2</sup> 100 %	4 m/s <sup>2</sup> 92 %	5 m/s <sup>2</sup> 75 %	MH_145/045/015/B05/24/_/400	C3S075 U <sub>line</sub> = 400V
	Z	HZR 100	2.0	2.5	3.00		P5 i=7	1 m/s <sup>2</sup> 78 %	2 m/s <sup>2</sup> 70 %	3 m/s <sup>2</sup> 63 %	MH_145/045/015/B05/24/_/400Br (with brake)	C3S150 U <sub>line</sub> = 400V		

1) Values for maximum working envelope and maximum payload. 2) Only valid for uniform acceleration (linear acceleration ramp); max. acceleration values - provided drive power is sufficient. 3) Valid for X-axis and Y-axis (with retracted Z-axis)



# Standard gantry robots



Gantry robot	ZK1	ZK2	ZH	ASX		LLX	SPX		XK	
				standard	IP30		standard	IP30	standard	IP30
GR02	202	594	308	271		400	201		872	
GR03	240	645	340	299		450	251		1000	
GR04	240	645	340	409		500	364		1273	
GR05	240	645	340	407		500	319		1226	
GR06	240	645	340	385		500	340		1225	
GR07	240	645	340	398		500	310		1208	
GR08	250	780	395	335		600	290		1225	
GR09	250	780	395	358		600	270		1228	
GR10	250	780	395	358		600	270		1228	
GR11	250	780	395	375		700	263		1338	

Gantry robot	ASY		LLY	SPY		YK		AX	SX	AY	SY	AAX	AAY
	standard	IP30		standard	IP30	standard	IP30						
GR02	194		250	288		732		454	418	400	384	Y-stroke+400	240
GR03	299		450	251		1000		524	476	524	476	Y-stroke+348	310
GR04	299		450	251		1000		659	614	524	476	Y-stroke+628	310
GR05	299		450	251		997		657	569	524	476	Y-stroke+598	310
GR06	285		500	240		1025		635	590	535	490	Y-stroke+580	330
GR07	300		500	255		1055		648	560	550	505	Y-stroke+580	330
GR08	285		500	240		1025		635	590	535	490	Y-stroke+580	430
GR09	310		500	265		1075		658	570	560	515	Y-stroke+600	430
GR10	358		500	270		1128		658	570	608	520	Y-stroke+670	400
GR11	358		500	270		1128		725	613	608	520	Y-stroke+640	400

## Standard gantry robots

# Order codes

Standard gantry robots	G					/				/							
<b>Type / Size</b>																	
<b>See table on page 11</b>																	
<b>Line gantry</b>	G	L															
HPLA80 (X), HZR50 (Z)	G	L	0	2													
HLE100 (X), HZR80 (Z)	G	L	0	3													
HPLA120 (X), HZR80 (Z)	G	L	0	4													
HPLA120 (X), HZR100 (Z)	G	L	0	5													
HLE150 (X), HZR100 (Z)	G	L	0	6													
<b>Space gantry</b>	G	R															
HPLA80 (X), HPLA80 (Y), HZR50 (Z)	G	R	0	2													
HLE100 (X), HLE100 (Y), HZR80 (Z)	G	R	0	3													
HPLA120 (X), HLE100 (Y), HZR80 (Z)	G	R	0	4													
HLE150 (X), HLE100 (Y), HZR80 (Z)	G	R	0	5													
HPLA120 (X), HPLA120 (Y), HZR80 (Z)	G	R	0	6													
HLE150 (X), HPLA120 (Y), HZR80 (Z)	G	R	0	7													
HPLA120 (X), HPLA120 (Y), HZR100 (Z)	G	R	0	8													
HLE150 (X), HPLA120 (Y), HZR100 (Z)	G	R	0	9													
HLE150 (X), HLE150 (Y), HZR100 (Z)	G	R	1	0													
HPLA180 (X), HLE150 (Y), HZR100 (Z)	G	R	1	1													
<b>Steel strip cover</b>																	
All axis without steel strip cover																	N
X and - if exist Y-axis with steel strip cover (IP30)																	C
<b>Stroke X-axis</b>																	
Indicate stroke (in mm)					n	n	n	n									
<b>Stroke Y-axis</b>																	
With GR...: indicate stroke (in mm)									n	n	n	n					
With GL...: indicate "0000"									0	0	0	0					
<b>Stroke Z-axis</b>																	
Indicate stroke (in mm)													n	n	n	n	
<b>Cable management</b>																	
Without cable management																	N
Includes cable management																	E
<b>Drive package (Motor, Controller, Cable)</b>																	
Without drive package																	N
Includes drive package																	A
<b>Motor / encoder system</b>																	
Without drive package																	N
Resolver																	R
Multiturn SinusCosinus (Absolute value encoder)																	M
<b>Compax3 Fieldbus option</b>																	
Without drive package																	N
Positioning with inputs/outputs																	A
Profibus																	P
CANopen																	C
<b>Free length of cable between switch cabinet and cable management</b>																	
Without drive package																	N
Cable length 5 m																	1
Cable length 10 m																	2
Cable length 15 m																	3
Cable length 20 m																	4
Cable length 25 m																	5
Cable length 30 m																	6
Cable length 35 m																	7
Cable length 40 m																	8
Cable length 45 m																	9

**2D DXF Files or 3D IGES Files on request!**

## Overview

### Line gantry

Type / Size	Axis	Actuator	max. stroke [m]	max. payload [kg]	More Information...
GL02	X	HPLA80	5.0	30	Page 6 and 7
	Z	HZR50	1.5		
GL03	X	HLE100	5.5	50	Page 6 and 7
	Z	HZR80	1.5		
GL04	X	HPLA120	8.5	75	Page 6 and 7
	Z	HZR80	1.5		
GL05	X	HPLA120	8.5	150	Page 6 and 7
	Z	HZR100	2.0		
GL06	X	HLE150	7.8	150	Page 6 and 7
	Z	HZR100	2.0		

### Space gantry

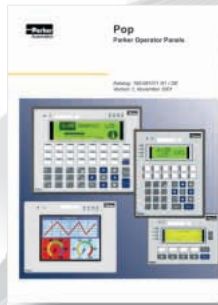
Type / Size	Axis	Actuator	max. stroke [m]	max. payload [kg]	More information...
GR02	X	HPLA80	4.9	30	Page 8 and 9
	Y	HPLA80	2.0		
	Z	HZR50	1.5		
GR03	X	HLE100	5.5	50	Page 8 and 9
	Y	HLE100	2.5		
	Z	HZR80	1.5		
GR04	X	HPLA120	8.5	50	Page 8 and 9
	Y	HLE100	2.5		
	Z	HZR80	1.5		
GR05	X	HLE150	7.5	50	Page 8 and 9
	Y	HLE100	2.5		
	Z	HZR80	1.5		
GR06	X	HPLA120	8.5	75	Page 8 and 9
	Y	HPLA120	3.9		
	Z	HZR80	1.5		
GR07	X	HLE150	7.5	100	Page 8 and 9
	Y	HPLA120	3.9		
	Z	HZR80	1.5		
GR08	X	HPLA120	8.5	150	Page 8 and 9
	Y	HPLA120	2.5		
	Z	HZR100	2.0		
GR09	X	HLE150	7.5	150	Page 8 and 9
	Y	HPLA120	2.5		
	Z	HZR100	2.0		
GR10	X	HLE150	7.4	150	Page 8 and 9
	Y	HLE150	3.5		
	Z	HZR100	2.0		
GR11	X	HPLA180	7.0	150	Page 8 and 9
	Y	HLE150	3.5		
	Z	HZR100	2.0		



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We reserve the right to make technical changes.  
The information contained in this manual corresponds to the current status at the time of printing.